MOTT MACDONALD

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

Construction Phase Monthly EM&A Report No.26 (For February 2018)

March 2018

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This Monthly EM&A Report No. 26 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)
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Date 14 March 2018

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By Email

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

14 March 2018

Dear Sir,

Contract No. 3102
3RS Independent Environmental Checker Consultancy Services

Submission of Monthly EM&A Report No.26 (February 2018)

Reference is made to the Environmental Team's submission of the Monthly EM&A Report No.26 under Condition 3.5 of the Environmental Permit No. EP-489/2014 certified by the ET Leader on 14 March 2018.

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 the undersigned at 3922 9376.

Yours faithfully,
AECOM Asia Co. Ltd.

Jackel Law
Independent Environmental Checker

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Abbreviations

3RS	Three-Runway System
AAHK	Airport Authority Hong Kong
AECOM	AECOM Asia Company Limited
AFCD	Agriculture, Fisheries and Conservation Department
AIS	Automatic Information System
ANI	Encounter Rate of Number of Dolphins
APM	Automated People Mover
AW	Airport West
BHS	Baggage Handling System
C&D	Construction and Demolition
CAP	Contamination Assessment Plan
CAR	Contamination Assessment Report
CNP	Construction Noise Permit
CWD	Chinese White Dolphin
DCM	Deep Cement Mixing
DEZ	Dolphin Exclusion Zone
DO	Dissolved Oxygen
EAR	Ecological Acoustic Recorder
EIA	Environmental Impact Assessment
EM&A	Environmental Monitoring & Audit
EP	Environmental Permit
EPD	Environmental Protection Department
ET	Environmental Team
FCZ	Fish Culture Zone
HDD	Horizontal Directional Drilling
HKBCF	Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities
HKIA	Hong Kong International Airport
HOKLAS	Hong Kong Laboratory Accreditation Scheme
HSF	High Speed Ferry
HVS	High Volume Sampler
IEC	Independent Environmental Checker
LKC	Lung Kwu Chau
MMHK	Mott MacDonald Hong Kong Limited
MMWP	Marine Mammal Watching Plan
MSS	Marine Surveillance System
MTRMP-CAV	Marine Travel Routes and Management Plan for Construction and Associated Vessel
NEL	Northeast Lantau
NWL	Northwest Lantau
PAM	Passive Acoustic Monitoring
PVD	Prefabricated Vertical Drain
SC	Sha Chau

SCLKCMP	Sha Chau and Lung Kwu Chau Marine Park
SS	Suspended Solids
STG	Encounter Rate of Number of Dolphin Sightings
SWL	Southwest Lantau
T2	Terminal 2
The Project	The Expansion of Hong Kong International Airport into a Three-Runway System
The SkyPier Plan	Marine Travel Routes and Management Plan for High Speed Ferries of SkyPier
The Manual	The Updated EM&A Manual
TSP	Total Suspended Particulates
WL	West Lantau
WMP	Waste Management Plan

Executive Summary

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

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

This is the 26th Construction Phase Monthly EM&A Report for the Project which summarizes the monitoring results and audit findings of the EM&A programme during the reporting period from 1 to 28 February 2018.

Key Activities in the Reporting Period

The key activities of the Project carried out in the reporting period included reclamation works and land-side works. Reclamation works included deep cement mixing (DCM) works, seawall construction, laying of sand blanket, and prefabricated vertical drain (PVD) installation. Land-side works included horizontal directional drilling (HDD) works, site establishment, site office construction, road and drainage works, cable ducting, demolition and modification of existing facilities, piling, and excavation works.

EM&A Activities Conducted in the Reporting Period

The monthly EM&A programme was undertaken in accordance with the Manual of the Project. Summary of the monitoring activities during this reporting period is presented as below:

Monitoring Activities	Number of Sessions
1-hour Total Suspended Particulates (TSP) air quality monitoring	30
Noise monitoring	21
Water quality monitoring	12
Vessel line-transect surveys for Chinese White Dolphin (CWD) monitoring	2
Land-based theodolite tracking survey effort for CWD monitoring	5
Terrestrial ecology monitoring	1

Environmental auditing works, including weekly site inspections of construction works conducted by the ET and bi-weekly site inspections conducted by the Independent Environmental Checker (IEC), audit of SkyPier High Speed Ferries (HSF), audit of construction and associated vessels, and audit of implementation of Marine Mammal Watching Plan (MMWP) and Dolphin Exclusion Zone (DEZ) Plan, were conducted in the reporting period. Based on information including ET's observations, records of Marine Surveillance System (MSS), and contractors' site records, it is noted that environmental pollution control and mitigation measures were properly implemented and construction operation of the Project in the reporting period did not introduce adverse impacts to the sensitive receivers.

Snapshots of EM&A Activities in the Reporting Period

		
Environmental Briefing on Environmental Compliance and Construction Waste Management Provided by EPD and AAHK	Sampling for Water Quality Monitoring Conducted by ET	DEZ Monitoring Conducted by Contractor

Results of Impact Monitoring

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 Manual.

Monitoring results of construction dust, construction noise, construction waste, and CWD did not trigger the corresponding Action and Limit Levels in the reporting period.

The water quality monitoring results for dissolved oxygen (DO), turbidity, total alkalinity, and nickel obtained during the reporting period complied with their corresponding Action and Limit Levels stipulated in the EM&A programme for triggering the relevant investigation and follow-up procedures under the programme if being triggered. For suspended solids (SS) and chromium, some of the testing results triggered the relevant Action or Limit Level, and the corresponding investigations were conducted accordingly. The investigation findings concluded that the cases were not related to the Project. To conclude, the construction operation in the reporting period did not introduce adverse impact to all water quality sensitive receivers.

The monthly terrestrial ecology monitoring on Sheung Sha Chau observed that HDD works were conducted at the daylighting location and there was no encroachment upon the egretry area nor any significant disturbance to the ardeids foraging at Sheung Sha Chau by the works.

Summary of Upcoming Key Issues

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

Advanced Works:

Contract P560 (R) Aviation Fuel Pipeline Diversion Works

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

DCM Works:

Contract 3201 to 3205 DCM Works

- DCM works; and
- Seawall construction.

Reclamation Works:

Contract 3206 Main Reclamation Works

- Laying of sand blanket;
- PVD installation; and
- Seawall construction.

Airfield Works:

Contract 3301 North Runway Crossover Taxiway

- Cable ducting works;
- Subgrade works; and
- Precast of duct bank and fabrication of steel works.

Terminal 2 Expansion Works:

Contract 3501 Antenna Farm and Sewage Pumping Station

- Excavation works;
- Pipe installation;
- Piling works; and
- Builders works of antenna farm.

Contract 3502 Terminal 2 Automated People Mover (APM) Depot Modification Works

- Removal of existing concrete;
- Formwork erection and concreting works; and
- Steel platform erection.

Contract 3503 Terminal 2 Foundation and Substructure Works

- Site establishment;
- Electrical and mechanical (E&M), drainage, and road work; and
- Piling works

APM works:

Contract 3602 Existing APM System Modification Works

- Site office establishment.

Baggage Handling System (BHS) works:

Contract 3603 3RS Baggage Handling System

- Site establishment.

Airport Support Infrastructure & Logistic Works:

Contract 3801 APM and BHS Tunnels on Existing Airport Island

- Erection of hoarding;
- Diversion of underground utilities;
- Piling works; and
- Demolition of footbridge.

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.

Summary Table

The following table summarizes the key findings of the EM&A programme during the reporting period:

	Yes	No	Details	Analysis / Recommendation / Remedial Actions
Breach of Limit Level^		√	No breach of Limit Level was recorded.	Nil
Breach of Action Level^		√	No breach of Action Level was recorded.	Nil
Complaint Received	√		A complaint on noise from Sha Chau works was received on 5 Feb 2018.	No observation relating to construction works and deployment of powered mechanical equipment during restricted hours was found during regular and ad-hoc site inspections. The contractor was reminded to comply with all conditions stipulated in the Environmental Permit and Construction Noise Permit.
Notification of any summons and status of prosecutions		√	No notification of summon or prosecution was received.	Nil
Change that affect the EM&A		√	There was no change to the construction works that may affect the EM&A	Nil

Remark: ^Only triggering of Action or Limit Level related to Project works is counted as Breach of Action or Limit Level.

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[1]. AECOM Asia Company Limited (AECOM) was employed by AAHK as the Independent Environmental Checker (IEC) for the Project.

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

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

The updated overall phasing programme of all construction works was presented in Appendix A of the Construction Phase Monthly EM&A Report No. 7 and the contract information was presented in Appendix A of the Construction Phase Monthly EM&A Report No. 25.

1.2 Scope of this Report

This is the 26th 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 28 February 2018.

1.3 Project Organisation

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

[1] The Manual is available on the Project's dedicated website (accessible at: **http://env.threerunwaysystem.com/en/index.html**).

Table 1.1: Contact Information of Key Personnel

Party	Position	Name	Telephone
Project Manager's Representative (Airport Authority Hong Kong)	Principal Manager, Environment	Lawrence Tsui	2183 2734
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	Roy Man	3922 9376
Advanced Works:			
Contract P560(R) Aviation Fuel Pipeline Diversion Works (Langfang Huayuan Mechanical and Electrical Engineering Co., Ltd.)	Project Manager	Wei Shih	2117 0566
	Environmental Officer	Lyn Liu	5172 6543
Deep Cement Mixing (DCM) Works:			
Contract 3201 DCM (Package 1) (Penta-Ocean-China State-Dong-Ah Joint Venture)	Project Director	Tsugunari Suzuki	9178 9689
	Environmental Officer	Alan Tam	6119 3107
Contract 3202 DCM (Package 2) (Samsung-BuildKing Joint Venture)	Project Manager	Ilkwon Nam	9643 3117
	Environmental Officer	Dickson Mak	9525 8408
Contract 3203 DCM (Package 3) (Sambo E&C Co., Ltd)	Project Manager	Eric Kan	9014 6758
	Environmental Officer	David Hung	9765 6151
Contract 3204 DCM (Package 4) (CRBC-SAMBO Joint Venture)	Project Manager	Kyung-Sik Yoo	9683 8697
	Environmental Officer	Kanny Cho	6799 8226

Deep Cement Mixing (DCM) Works:

Contract 3205 DCM (Package 5) (Bachy Soletanche - Sambo Joint Venture)	Deputy Project Director	Min Park	9683 0765
	Environmental Officer	Margaret Chung	9130 3696

Reclamation Works:

Contract 3206 (ZHEC-CCCC-CDC Joint Venture)	Project Manager	Kim Chuan Lim	3763 1509
	Environmental Officer	Kwai Fung Wong	3763 1452

Airfield Works

Contract 3301 North Runway Crossover Taxiway (FJT-CHEC-ZHEC Joint Venture)	Project Manager	Kin Hang Chung	9412 1386

Terminal 2 (T2) Expansion Works:

Contract 3501 Antenna Farm and Sewage Pumping Station (Build King Construction Ltd.)	Project Manager	Raymond Au	6985 8860
	Environmental Officer	Edward Tam	9287 8270
Contract 3502 Terminal 2 APM Depot Modification Works (Build King Construction Ltd.)	Project Manager	Kivin Cheng	9380 3635
	Environmental Officer	Chun Pong Chan	9187 7118
Contract 3503 Terminal 2 Foundation and Substructure Works (Leighton – Chun Wo Joint Venture)	Construction Manager	Stephen O'Donoghue	9732 6787
	Environmental Officer	Stephen Tsang	5508 6361

Automated People Mover (APM) Works:

Contract 3602 Existing APM System Modification Works (Niigata Transys Co., Ltd.)	Project Manager	Kunihiro Tatecho	9755 0351
	Environmental Officer	Arthur Wong	9170 3394

Airport Support Infrastructure and Logistic Works:

Contract 3801 APM and BHS Tunnels on Existing Airport Island (China State Construction Engineering (Hong Kong) Ltd.)	Project Manager	Tony Wong	9642 8672
	Environmental Officer	Fredrick Wong	9842 2703

1.4 Summary of Construction Works

The key activities of the Project carried out in the reporting period included reclamation works and land-side works. Reclamation works included DCM works, seawall construction, laying of sand blanket, and PVD installation. Land-side works included HDD works, site establishment, site office construction, road and drainage works, cable ducting, demolition and modification of existing facilities, piling, and excavation works.

The locations of the works area are presented in **Figure 1.1** to **Figure 1.2**.

1.5 Summary of EM&A Programme Requirements

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

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

Parameters	Status
Air Quality	
Baseline Monitoring	The baseline air quality monitoring result has been reported in Baseline Monitoring Report and submitted to EPD under EP Condition 3.4.
Impact Monitoring	On-going
Noise	
Baseline Monitoring	The baseline noise monitoring result has been reported in Baseline Monitoring Report and submitted to EPD under EP Condition 3.4.
Impact Monitoring	On-going
Water Quality	
General Baseline Water Quality Monitoring for reclamation, water jetting and field joint works	The baseline water quality monitoring result has been reported in Baseline Water Quality Monitoring Report and submitted to EPD under EP Condition 3.4.
General Impact Water Quality Monitoring for reclamation, water jetting and field joint works	On-going
Initial Intensive Deep Cement Mixing (DCM) Water Quality Monitoring	The Initial Intensive DCM Monitoring Report was submitted and approved by EPD in accordance with the Detailed Plan on DCM.
Regular DCM Water Quality Monitoring	On-going
Waste Management	
Waste Monitoring	On-going
Land Contamination	
Supplementary Contamination Assessment Plan (CAP)	The Supplementary CAP was submitted and approved by EPD pursuant to EP condition 2.20.
Contamination Assessment Report (CAR) for Golf Course	The CAR for Golf Course was submitted to EPD.
Terrestrial Ecology	
Pre-construction Egretry Survey Plan	The Egretry Survey Plan was submitted and approved by EPD under EP Condition 2.14.
Ecological Monitoring	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	The coral translocation was completed.
Post-Translocation Coral Monitoring	On-going

Parameters	Status
Chinese White Dolphins (CWD)	
Vessel Survey, Land-based Theodolite Tracking and Passive Acoustic Monitoring (PAM)	
Baseline Monitoring	Baseline CWD results were reported in the CWD Baseline Monitoring Report and submitted to EPD in accordance with EP Condition 3.4.
Impact Monitoring	On-going
Landscape & Visual	
Baseline Monitoring	The baseline landscape & visual monitoring result has been reported in Baseline Monitoring Report and submitted to EPD under EP Condition 3.4.
Impact Monitoring	On-going
Environmental Auditing	
Regular site inspection	On-going
Marine Mammal Watching Plan (MMWP) implementation measures	On-going
Dolphin Exclusion Zone (DEZ) Plan implementation measures	On-going
SkyPier High Speed Ferries (HSF) implementation measures	On-going
Construction and Associated Vessels Implementation measures	On-going
Complaint Hotline and Email channel	On-going
Environmental Log Book	On-going

Taking into account the construction works in this reporting period, impact monitoring of air quality, noise, water quality, waste management, terrestrial ecology, landscape & visual and CWD were carried out in the reporting period.

The EM&A programme also involved weekly site inspections and related auditing conducted by the ET for checking the implementation of the required environmental mitigation measures recommended in the approved EIA Report. To promote the environmental awareness and enhance the environmental performance of the contractors, environmental trainings and regular environmental management meetings were conducted during the reporting period, which are summarized as below:

- One dolphin observer training provided by ET: 14 Feb 2018
- Two skipper trainings provided by ET: 7 and 21 Feb 2018
- One environmental briefing on environmental compliance and construction waste management provided by EPD and AAHK: 13 Feb 2018
- Nine environmental management meetings for EM&A review with works contracts: 6, 13, 21, 27, and 28 Feb 2018

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

2 Air Quality Monitoring

Air quality monitoring of 1-hour Total Suspended Particulates (TSP) was conducted three times every six days at two representative monitoring stations in the vicinity of air sensitive receivers in Tung Chung and villages in North Lantau in accordance with the Manual. **Table 2.1** describes the details of the monitoring stations. **Figure 2.1** shows the locations of the monitoring stations.

Table 2.1: Locations of Impact Air Quality Monitoring Stations

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

2.1 Action and Limit Levels

In accordance with the Manual, baseline air quality monitoring of 1-hour TSP levels at the two air quality monitoring stations were established as presented in the Baseline Monitoring Report. The Action and Limit Levels of the air quality monitoring stipulated in the EM&A programme for triggering the relevant investigation and follow-up procedures under the programme are provided in **Table 2.2**.

Table 2.2: Action and Limit Levels of Air Quality Monitoring

Monitoring Station	Action Level (μg/m^3)	Limit Level (μg/m^3)
AR1A	306	500
AR2	298	

2.2 Monitoring Equipment

Portable direct reading dust meter was used to carry out the air quality monitoring. Details of equipment used in the reporting period are given in **Table 2.3**.

Table 2.3: Air Quality Monitoring Equipment

Equipment	Brand and Model	Last Calibration Date	Calibration Certificate Provided in
Portable direct reading dust meter (Laser dust monitor)	SIBATA LD-3B-001 (Serial No. 934393)	11 Oct 2017	Monthly EM&A Report No. 22, Appendix E
	SIBATA LD-3B-002 (Serial No. 974350)	11 Sep 2017	
	SIBATA LD-3B-003 (Serial No. 276018)	11 Sep 2017	

2.3 Monitoring Methodology

2.3.1 Measuring Procedure

The measurement procedures involved in the impact air quality 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.

2.3.2 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 record of the HVS provided in Appendix E of the Construction Phase Monthly EM&A Report No. 22, and the calibration certificates of portable direct reading dust meters listed in **Table 2.3** are still valid.

2.4 Summary of Monitoring Results

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

The air quality monitoring results in the reporting period are summarized in **Table 2.4**. Detailed impact monitoring results are presented in **Appendix C**.

Table 2.4: Summary of Air Quality Monitoring Results

Monitoring Station	1-hr TSP Concentration Range (μg/m^3)	Action Level (μg/m^3)	Limit Level (μg/m^3)
AR1A	29 – 64	306	500
AR2	23 – 65	298	

The monitoring results complied with the corresponding Action and Limit Levels at all monitoring stations in the reporting period.

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

2.5 Conclusion

No dust emission source from Project activities was observed during impact air quality monitoring. Major sources of dust observed at the monitoring stations during the monitoring sessions were local air pollution and nearby traffic emissions. It is considered that the monitoring work in the reporting period is effective and there was no adverse impact attributable to the Project activities.

3 Noise Monitoring

Noise monitoring in the form of 30-minute measurements of L_{eq}, L_{10}, and L_{90} levels was conducted once per week between 0700 and 1900 on normal weekdays at five representative monitoring stations in the vicinity of noise sensitive receivers in Tung Chung and villages in North Lantau in accordance with the Manual. **Table 3.1** describes the details of the monitoring stations. **Figure 2.1** shows the locations of the monitoring stations. As described in Section 4.3.3 of the Manual, monitoring at NM2 will commence when the future residential buildings in Tung Chung West Development become occupied.

Table 3.1: Locations of Impact Noise Monitoring Stations

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

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

3.1 Action and Limit Levels

In accordance with the Manual, baseline noise levels at the noise monitoring stations were established as presented in the Baseline Monitoring Report. The Action and Limit Levels of the noise monitoring stipulated in the EM&A programme for triggering the relevant investigation and follow-up procedures under the programme are provided in **Table 3.2**.

Table 3.2: Action and Limit Levels for Noise Monitoring

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

Note: (i) Reduced to 70dB(A) for school and 65dB(A) during school examination periods for NM4.

3.2 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 used in the reporting period are given in **Table 3.3**.

Table 3.3: Noise Monitoring Equipment

Equipment	Brand and Model	Last Calibration Date	Calibration Certificate Provided in
Integrated Sound Level Meter	B&K 2238 (Serial No. 2800932)	17 Jul 2017	Monthly EM&A Report No. 19, Appendix E
	B&K 2238 (Serial No. 2808432)	30 Aug 2017	Monthly EM&A Report No. 21, Appendix E
Acoustic Calibrator	B&K 4231 (Serial No. 3003246)	16 May 2017	Monthly EM&A Report No. 17, Appendix D
	B&K 4231 (Serial No. 3004068)	17 Jul 2017	Monthly EM&A Report No. 19, Appendix E

3.3 Monitoring Methodology

3.3.1 Monitoring Procedure

The monitoring procedures involved in the noise 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.

3.3.2 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 listed in **Table 3.3** are still valid.

3.4 Summary of Monitoring Results

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

The noise monitoring results in the reporting period are summarized in **Table 3.4**. Detailed impact monitoring results are presented in **Appendix C**.

Table 3.4: Summary of Construction Noise Monitoring Results

Monitoring Station	Noise Level Range, dB(A) $L_{eq\ (30\ mins)}$	Limit Level, dB(A) $L_{eq\ (30\ mins)}$
NM1A[(i)]	72 – 73	75
NM3A	57 – 63	75
NM4[(i)]	60 – 66	70[(ii)]
NM5[(i)]	57 – 62	75
NM6[(i)]	66 – 73	75

Notes: (i) +3 dB(A) Façade correction included;

(ii) Reduced to 65 dB(A) during school examination periods at NM4. No examination was held in this reporting period.

The monitoring results complied with the corresponding Action and Limit Levels at all monitoring stations in the reporting period.

3.5 Conclusion

As the construction activities were far away from the monitoring stations, major sources of noise dominating the monitoring stations observed during the construction noise impact monitoring were road traffic noise at NM1A, student activities, aircraft and helicopter noise at NM4, and aircraft and helicopter noise at NM3A, NM5 and NM6 during this reporting period. It is considered that the monitoring work during the reporting period is effective and there was no adverse impact attributable to the Project activities.

4 Water Quality Monitoring

Water quality monitoring of DO, turbidity, total alkalinity, chromium, and nickel was conducted three days per week, at mid-ebb and mid-flood tides, at a total of 22 water quality monitoring stations, comprising 12 impact (IM) stations, 7 sensitive receiver (SR) stations and 3 control (C) stations in the vicinity of water quality sensitive receivers around the airport island in accordance with the Manual. The purpose of water quality monitoring at the IM stations is to promptly capture any potential water quality impact from the Project before it could become apparent at sensitive receivers (represented by the SR stations). **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 of Impact Water Quality Monitoring

Monitoring Station	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[4]	Seawater Intake for cooling at Hong Kong International Airport (East)	811418 (from July 2017 onwards)	820246	

Notes:
(1) The seawater intakes of SR1 for the future HKBCF is not yet in operation, hence no water quality impact monitoring was conducted at this station. The future permanent location for SR1 during impact monitoring is subject to finalisation after the HKBCF seawater is commissioned.
(2) Details of selection criteria for the two heavy metals for 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) The monitoring location for SR8 is subject to further changes due to silt curtain arrangements and the progressive relocation of this seawater intake.

4.1 Action and Limit Levels

In accordance with the Manual, baseline water quality levels at the abovementioned representative water quality monitoring stations were established as presented in the Baseline Water Quality Monitoring Report. The Action and Limit Levels of general water quality monitoring and regular DCM monitoring stipulated in the EM&A programme for triggering the relevant investigation and follow-up procedures under the programme are provided in **Table 4.2**. The control and impact stations during ebb tide and flood 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		Limit Level	
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	
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 regular DCM monitoring (Chromium)	0.2		0.2	
Representative Heavy Metals for 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 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.

4.2 Monitoring Equipment

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

Table 4.4: Water Quality Monitoring Equipment

Equipment	Brand and Model	Last Calibration Date	Calibration Certificate Provided in
Multifunctional Meter (measurement of DO, pH, temperature, salinity and turbidity)	YSI ProDSS (Serial No. 16H104234)	7 Dec 2017	Monthly EM&A Report No. 24, Appendix D
	YSI ProDSS (Serial No. 17H105557)	7 Dec 2017	
	YSI 6920 V2 (Serial No. 00019CB2)	7 Dec 2017	
	YSI 6920 V2 (Serial No. 000109DF)	7 Dec 2017	
Digital Titrator (measurement of total alkalinity)	Titrette Digital Burette 50ml Class A (Serial No. 10N65665)	18 Dec 2017	Monthly EM&A Report No. 24, Appendix D

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

Table 4.5: Other Monitoring Equipment

Equipment	Brand and Model
Water Sampler	Van Dorn Water Sampler
Positioning Device (measurement of GPS)	Garmin eTrex Vista HCx
Current Meter (measurement of current speed and direction, and water depth)	Sontek HydroSurveyor

4.3 Monitoring Methodology

4.3.1 Measuring Procedure

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

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

4.3.2 Maintenance and Calibration

Calibration of In-situ Instruments

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

Wet bulb calibration for a DO meter was carried out before commencement of monitoring and after completion of all measurements each day. Calibration was not conducted at each monitoring location as daily calibration is adequate for the type of DO meter employed. A zero check in distilled water was performed with the turbidity probe at least once per monitoring day. The probe was then calibrated with a solution of known NTU. In addition, the turbidity probe was calibrated at least twice per month to establish the relationship between turbidity readings (in NTU) and levels of SS (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 reporting period listed in **Table 4.4** are still valid.

4.3.3 Laboratory Measurement / Analysis

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

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

Parameters	Instrumentation	Analytical Method	Reporting Limit
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

4.4 Summary of Monitoring Results

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

The sea conditions varied from calm to rough, and the weather conditions varied from sunny to rainy during the monitoring period.

The water quality monitoring results for DO, turbidity, and total alkalinity obtained during the reporting period were within their corresponding Action and Limit Levels.

For SS, chromium, and nickel, some of the testing results triggered the corresponding Action or Limit Level, and investigation was conducted accordingly.

Table 4.7 presents a summary of the SS compliance status at IM and SR stations during mid-ebb tide for the reporting period.

Table 4.7: Summary of SS Compliance Status (Mid-Ebb Tide)

	IM1	IM2	IM3	IM4	IM5	IM6	IM7	IM8	IM9	IM10	IM11	IM12	SR2	SR3	SR4A	SR5A	SR6	SR7	SR8
01/02/2018				D															
03/02/2018			D																
06/02/2018																			
08/02/2018																			
11/02/2018																			
13/02/2018																			
15/02/2018																			
18/02/2018																			
20/02/2018																			
22/02/2018																			
24/02/2018																			
27/02/2018																			
No. of result triggereing Action or Limit Level	0	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0

Note: Detailed results are presented in **Appendix C**.	
Legend:	
	The monitoring results complied with the corresponding Action and Limit Levels
	Monitoring result triggered the Action Level at monitoring station located upstream of the Project based on dominant tidal flow
D	Monitoring result triggered the Action Level at monitoring station located downstream of the Project based on dominant tidal flow
	Upstream station with respect to the Project during the respective tide based on dominant tidal flow

Monitoring results triggered the corresponding Action Levels on two monitoring days. As some of these results were collected at stations located downstream of the Project, which might be affected by Project's construction activities, investigation was carried out.

As part of the investigation on the downstream events, details of the Project's marine construction activities on the concerned monitoring days were collected, as well as any observations during the monitoring. The findings are summarized in **Table 4.8**.

Table 4.8: Summary of Findings from Investigations of SS Monitoring Results (Mid-Ebb Tide)

Date	Marine construction works nearby	Approximate distance from marine construction works*	Status of water quality measures (if applicable)	Construction vessels in the vicinity	Turbidity / Silt plume observed near the monitoring station	Action or Limit Level triggered due to Project
01/02/2018	DCM works Sand blanket laying	Around 500m	Silt curtain deployed	No	No	No
03/02/2018	DCM works Sand blanket laying	Around 500m	Silt curtain deployed	No	No	No

* This refers to the approximate distance between the marine construction works and the nearest monitoring stations with monitoring results triggering the corresponding Action or Limit Level.

According to the investigation findings, it was confirmed that both DCM and sand blanket laying activities were operating normally with silt curtains deployed. The silt curtains were maintained properly.

For the monitoring results at IM4 on 1 February 2018 and IM3 on 3 February 2018, it appeared to be isolated cases with no observable temporal and spatial trend to indicate any effect due to Project activities. As there was no evidence of SS release due to Project activities from site observations and all mitigation measures were carried out properly, the cases were possibly due to natural fluctuation in the vicinity of the monitoring stations, and considered not due to the Project.

Table 4.9 presents a summary of the SS compliance status at IM and SR stations during mid-flood tide for the reporting period.

Table 4.9: Summary of SS Compliance Status (Mid-Flood Tide)

	IM1	IM2	IM3	IM4	IM5	IM6	IM7	IM8	IM9	IM10	IM11	IM12	SR2	SR3	SR4A	SR5A	SR6	SR7	SR8
01/02/2018					D														
03/02/2018																			
06/02/2018														D					
08/02/2018																			
11/02/2018																			
13/02/2018																			
15/02/2018																			
18/02/2018																			
20/02/2018																			
22/02/2018																			
24/02/2018																			
27/02/2018																			
No. of result triggereing Action or Limit Level	0	0	0	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0

Note: Detailed results are presented in **Appendix C**.	
Legend:	
	The monitoring results complied with the corresponding Action and Limit Levels
	Monitoring result triggered the Action Level at monitoring station located upstream of the Project based on dominant tidal flow
D	Monitoring result triggered the Action Level at monitoring station located downstream of the Project based on dominant tidal flow
	Upstream station with respect to the Project during the respective tide based on dominant tidal flow

Monitoring results triggered the corresponding Action Levels on three monitoring days. As some of these results were collected at stations located downstream of the Project, which might be affected by Project's construction activities, investigation was carried out.

As part of the investigation on the downstream events, details of the Project's marine construction activities on the concerned monitoring days were collected, as well as any observations during the monitoring. The findings are summarized in **Table 4.10**.

Table 4.10: Summary of Findings from Investigations of SS Monitoring Results (Mid-Flood Tide)

Date	Marine construction works nearby	Approximate distance from marine construction works*	Status of water quality measures (if applicable)	Construction vessels in the vicinity	Turbidity / Silt plume observed near the monitoring station	Action or Limit Level triggered due to Project
01/02/2018	DCM works Sand blanket laying	Around 500m	Silt curtain deployed	No	No	No
06/02/2018	DCM works Sand blanket laying	Around 1000m	Silt curtain deployed	No	No	No

According to the investigation findings, it was confirmed that both DCM and sand blanket laying activities were operating normally with silt curtains deployed. The silt curtains were maintained properly.

For the monitoring result at IM5 on 1 February 2018, it appeared to be an isolated case with no observable temporal and spatial trend to indicate any effect due to Project activities. As there was no evidence of SS release due to Project activities from site observations and all mitigation measures were carried out properly, the cases were possibly due to natural fluctuation in the vicinity of the monitoring station, and considered not due to the Project.

For the monitoring result at SR3 on 6 February 2018, all monitoring results collected at the impact stations, which were located closer to Project activities, complied with the corresponding Action and Limit Levels. Therefore, the case was considered not due to the Project.

Table 4.11 presents a summary of the chromium compliance status at IM and SR stations during mid-ebb tide for the reporting period.

Table 4.11: Summary of Chromium Compliance Status (Mid-Ebb Tide)

	IM1	IM2	IM3	IM4	IM5	IM6	IM7	IM8	IM9	IM10	IM11	IM12
01/02/2018												
03/02/2018												
06/02/2018											D	
08/02/2018												
11/02/2018												
13/02/2018												
15/02/2018												
18/02/2018												
20/02/2018												
22/02/2018												
24/02/2018												
27/02/2018												
No. of result triggereing Action or Limit Level	0	0	0	0	0	0	0	0	0	0	1	0

Note: Detailed results are presented in **Appendix C**.	
Legend:	
	The monitoring results complied with the corresponding Action and Limit Levels
D	Monitoring result triggered the Limit Level at monitoring station located downstream of the Project based on dominant tidal flow
	Upstream station with respect to the Project during the respective tide based on dominant tidal flow

Monitoring results triggered the corresponding Limit Level on one monitoring day. As the result was collected at a station located downstream of the Project, which might be affected by Project's construction activities, investigation was carried out.

As part of the investigation on the downstream events, details of the Project's marine construction activities on the concerned monitoring days were collected, as well as any observations during the monitoring. The findings are summarized in **Table 4.12**.

Table 4.12: Summary of Findings from Investigations of Chromium Monitoring Results (Mid-Ebb Tide)

Date	Marine construction works nearby	Approximate distance from marine construction works*	Status of water quality measures (if applicable)	Construction vessels in the vicinity	Turbidity / Silt plume observed near the monitoring station	Action or Limit Level triggered due to Project
06/02/2018	DCM works Sand blanket laying	Around 500m	Silt curtain deployed	No	No	No

According to the investigation findings, it was confirmed that both DCM and sand blanket laying activities were operating normally with silt curtains deployed. The silt curtains were maintained properly.

For the monitoring result at IM11 on 6 February 2018, it appeared to be an isolated case with no observable temporal and spatial trend to indicate any effect due to Project activities. The monitoring result was also marginally above the Limit Level (0.4 µg/L compared to Limit Level of 0.3 µg/L based on the results recorded at control stations). Based on the investigation of in-situ water quality monitoring at the nearest DCM barges, no significant elevation of ammonia was observed among the monitoring points in the immediate vicinity of the DCM rigs and the ammonia

concentration was well below the Action and Limit Levels specified in the Baseline Monitoring Report. This suggests that there was no leakage of contaminants from the contaminated mud pits due to DCM activities.

Therefore, the case was considered not due to the Project and may be due to natural fluctuation or other sources not related to the Project.

Table 4.13 presents a summary of the chromium compliance status at IM and SR stations during mid-flood tide for the reporting period.

Table 4.13: Summary of Chromium Compliance Status (Mid-Flood Tide)

	IM1	IM2	IM3	IM4	IM5	IM6	IM7	IM8	IM9	IM10	IM11	IM12
01/02/2018												
03/02/2018												
06/02/2018								D	D			
08/02/2018												
11/02/2018												
13/02/2018												
15/02/2018												
18/02/2018												
20/02/2018												
22/02/2018												
24/02/2018												
27/02/2018												
No. of result triggereing Action or Limit Level	0	0	0	0	0	0	0	1	1	0	0	0

Note: Detailed results are presented in **Appendix C**.	
Legend:	
	The monitoring results complied with the corresponding Action and Limit Levels
D	Monitoring result triggered the Action Level at monitoring station located downstream of the Project based on dominant tidal flow
D	Monitoring result triggered the Limit Level at monitoring station located downstream of the Project based on dominant tidal flow
	Upstream station with respect to the Project during the respective tide based on dominant tidal flow

Monitoring results triggered the corresponding Action and Limit Levels on one monitoring day respectively. As the results were collected at stations located downstream of the Project, which might be affected by Project's construction activities, investigation was carried out.

As part of the investigation on the downstream events, details of the Project's marine construction activities on the concerned monitoring days were collected, as well as any observations during the monitoring. The findings are summarized in **Table 4.14**.

Table 4.14: Summary of Findings from Investigations of Chromium Monitoring Results (Mid-Flood Tide)

Date	Marine construction works nearby	Approximate distance from marine construction works*	Status of water quality measures (if applicable)	Construction vessels in the vicinity	Turbidity / Silt plume observed near the monitoring station	Action or Limit Level triggered due to Project
06/02/2018	DCM works Sand blanket laying	Around 500m	Silt curtain deployed	No	No	No

For the monitoring result at IM8 and IM9 on 6 February 2018, the monitoring results were marginally above the Action and Limit Levels (0.3 µg/L at IM8 and 0.4 µg/L at IM9 compared to the Action and Limit Levels of 0.2 µg/L and 0.3 µg/L based on the results recorded at control stations). Investigation on the in-situ water quality monitoring results at DCM barges nearest to these monitoring stations were also conducted, in which no significant elevation of ammonia was observed among the monitoring points in the immediate vicinity of the DCM rigs and the concentration was below the Action and Limit Levels specified in the Baseline Monitoring Report. This suggests that there was no leakage of contaminants from the contaminated mud pits due to DCM activities.

Based on these findings the cases were considered not due to the Project and may be due to natural fluctuation or other sources not related to the Project.

Table 4.15 presents a summary of the nickel compliance status at IM and SR stations during mid-flood tide for the reporting period.

Table 4.15: Summary of Nickel Compliance Status (Mid-Flood Tide)

	IM1	IM2	IM3	IM4	IM5	IM6	IM7	IM8	IM9	IM10	IM11	IM12
01/02/2018												
03/02/2018												
06/02/2018												
08/02/2018												
11/02/2018												
13/02/2018												
15/02/2018												
18/02/2018												
20/02/2018									D			
22/02/2018												
24/02/2018												
27/02/2018												
No. of result triggereing Action or Limit Level	0	0	0	0	0	0	0	0	1	0	0	0

Note: Detailed results are presented in **Appendix C**.	
Legend:	
	The monitoring results complied with the corresponding Action and Limit Levels
D	Monitoring result triggered the Limit Level at monitoring station located downstream of the Project based on dominant tidal flow
	Upstream station with respect to the Project during the respective tide based on dominant tidal flow

Monitoring results triggered the corresponding Limit Level on one monitoring day. As the result was collected at a station located downstream of the Project, which might be affected by Project's construction activities, investigation was carried out.

As part of the investigation on the downstream event, details of the Project's marine construction activities on the concerned monitoring day was collected, as well as any observations during the monitoring. The findings are summarized in **Table 4.16**.

Table 4.16: Summary of Findings from Investigations of Nickel Monitoring Results (Mid-Flood Tide)

Date	Marine construction works nearby	Approximate distance from marine construction works*	Status of water quality measures (if applicable)	Construction vessels in the vicinity	Turbidity / Silt plume observed near the monitoring station	Action or Limit Level triggered due to Project
20/02/2018	DCM works Sand blanket laying	Around 800m	Silt curtain deployed	No	No	No

For the monitoring result at IM9 on 20 February 2018, it appeared to be an isolated case with no observable temporal and spatial trend to indicate any effect due to Project activities. The monitoring result was also marginally above the Limit Level (3.8 µg/L compared to Limit Level of 3.6 µg/L based on the results derived from baseline monitoring data). Based on the investigation of in-situ water quality monitoring at the nearest DCM barges, no significant elevation of ammonia was observed among the monitoring points in the immediate vicinity of the DCM rigs and the ammonia concentration was below the Action and Limit Levels specified in the Baseline Monitoring Report. This suggests that there was no leakage of contaminants from the contaminated mud pits due to DCM activities.

Therefore, the case was considered not due to the Project and may be due to natural fluctuation or other sources not related to the Project.

4.5 Conclusion

During the reporting period, it is noted that the vast majority of monitoring results were within their corresponding Action and Limit Levels, while only a minor number of results triggered their corresponding Action or Limit level, and investigation were conducted accordingly.

Based on the investigation findings, all results that triggered the corresponding Action or Limit Level were not due to the Project. Therefore, the Project did not cause adverse impact at the water quality sensitive receivers. All required actions under the Event and Action Plan were followed. These cases appeared to be due to natural fluctuation or other sources not related to the Project.

Nevertheless, the non-project related triggers have been attended to and have initiated corresponding actions and measures. As part of the EM&A programme, the construction methods and mitigation measures for water quality will continue to be monitored and opportunities for further enhancement will continue to be explored and implemented where possible, to strive for better protection of water quality and the marine environment.

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

5 Waste Management

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

5.1 Action and Limit Levels

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 made included provision and maintenance of drip trays and proper chemical waste storage area. The contractors had taken actions to implement the recommended measures.

Based on updated information provided by contractors, updates of construction waste statistics in previous reporting period and construction waste generated in the reporting period is summarized in **Table 5.2**.

The monitoring results complied with the Action or Limit Levels during the reporting period.

Table 5.2: Construction Waste Statistics

	Excavated Material (m^3)[1]	C&D[2] Material Reused in the Project (m^3)	C&D Material Reused in other projects (m^3)	C&D Material Disposed of as Public Fill (m^3)	Chemical Waste (kg)	Chemical Waste (L)	General Refuse (tonne)
Jan 2018[3]	-	4,310	-	-	-	45,200	-
Feb 2018	739	480	0	1,387	225	25,000	141

Notes:

1. The excavated materials were temporarily stored at stockpiling area and will be reused in the Project.
2. C&D refers to Construction and Demolition
3. Only updated figures are presented.
4. Paper and plastics were recycled in the reporting period.

6 Chinese White Dolphin Monitoring

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

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

6.1 Action and Limit Levels

The Action and Limit Levels 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 Action and Limit Levels for CWD monitoring were summarized in **Table 6.1**.

Table 6.1: Derived Values of Action and Limit Levels 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 February 2018, data from 1 December 2017 to 28 February 2018 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 January 2018 (calculated by data from November 2017 to January 2018) and the running quarterly encounter rates of this month (calculated by data from December 2017 to February 2018).

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

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

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

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

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

6.2.2 Land-based Theodolite Tracking Survey

Land-based theodolite tracking survey 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 Theodolite Survey Station Details

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

6.3 CWD Monitoring Methodology

6.3.1 Small Vessel Line-transect Survey

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

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

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

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

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

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

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

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

When CWDs were seen, the survey team was taken off-effort, the dolphins were approached and photographed for photo-ID information (using a Canon 7D [or similar] camera and long 300 mm+ telephoto lens), then followed until they were lost from view. At that point, the boat returned (off effort) to the same location of the survey line where dolphins were spotted as far as practicable 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 Survey

Land-based theodolite tracking survey 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 period, two complete sets of small vessel line-transect surveys were conducted on the 6, 7, 12, 13, 14, 21, 22, and 23 February 2018, covering all transects in NEL, NWL, AW, WL and SWL survey areas for twice.

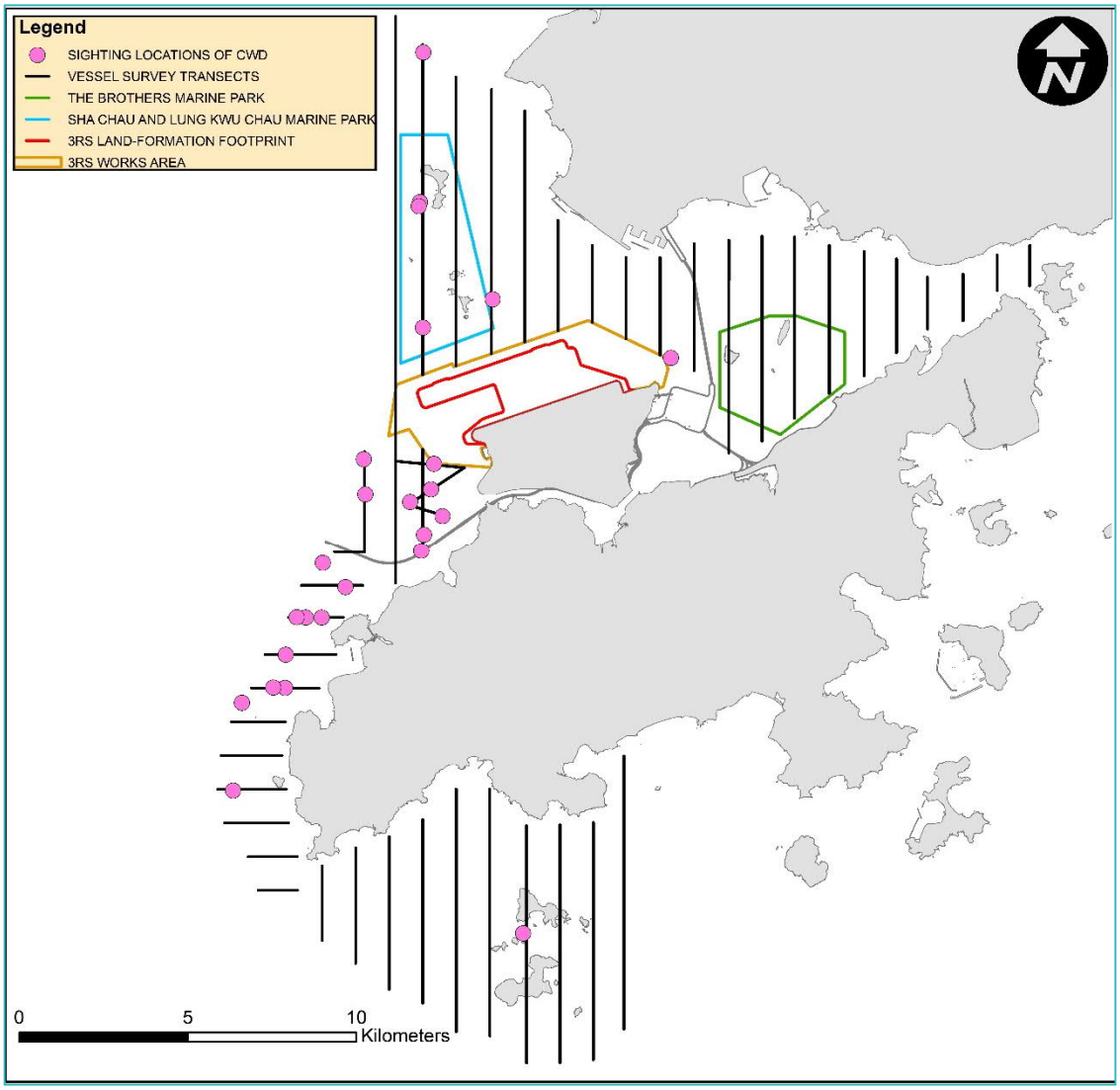
A total of around 457.00 km of survey effort was collected from these surveys, with around 89.44% of the total survey effort being conducted under favourable weather condition (i.e. Beaufort Sea State 3 or below with favourable visibility). Details of the survey effort are given in **Appendix C**.

Sighting Distribution

In February 2018, 25 sightings of CWDs with 71 individuals were sighted. Details of cetacean sightings are presented in **Appendix C**.

Distribution of all CWD sightings recorded in February 2018 is illustrated in **Figure 6.3**. In NWL, a few sightings of CWD were scattered within and around Sha Chau and Lung Kwu Chau Marine Park, and quite a number of sightings were recorded at the southwestern corner of the survey area including the AW transects with one of the sighting recorded in close vicinity to the 3RS works area. It is worth noting that one off-effort sighting of CWD with two individuals was recorded feeding near the eastern tip of the 3RS works area, which is the first time that CWD group was encountered at that part of the NWL survey area since the start of CWD monitoring for the 3RS Project dated back to December 2015. In WL, CWD sightings were recorded quite evenly from the northernmost transect to Yi O with one scattered sighting at the off-shore waters of Peaked Hill. In SWL, only one CWD sighting was encountered at the central part of Soko Islands. No sightings of CWDs were recorded in NEL survey area.

Figure 6.3: Sightings Distribution of Chinese White Dolphins



Remarks: Please note that there are 25 pink circles on the map indicating the sighting locations of CWD. Some of them were very close to each other and therefore appear overlapped on this distribution map.

Encounter Rate

Two types of dolphin encounter rates were calculated based on the data from February 2018. They included the number of dolphin sightings per 100 km survey effort (STG) and total number of dolphins per 100 km survey effort (ANI) in the whole survey area (i.e. NEL, NWL, AW, WL and SWL). In the calculation of dolphin encounter rates, only survey data collected under favourable weather condition (i.e. Beaufort Sea State 3 or below with favourable visibility) were used. The formulae used for calculation of the encounter rates are shown below:

Encounter Rate by Number of Dolphin Sightings (STG)

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

Encounter Rate by Number of Dolphins (ANI)

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

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

In February 2018, a total of around 408.74 km of survey effort were conducted under Beaufort Sea State 3 or below with favourable visibility, whilst a total number of 22 on-effort sightings with 66 individuals were sighted under such condition. Calculation of the encounter rates in February 2018 are shown in **Appendix C**.

For the running quarter of the reporting period (i.e., from December 2017 to February 2018), a total of around 1196.18 km of survey effort were conducted under Beaufort Sea State 3 or below with favourable visibility, whilst a total number of 63 on-effort sightings and a total number of 226 dolphins from on-effort sightings were obtained under such condition. Calculation of the running quarterly encounter rates are shown in **Appendix C**.

The STG and ANI of CWD in the whole survey area (i.e. NEL, NWL, AW, WL and SWL) during the month of February 2018 and during the running quarter are presented in **Table 6.4** below and compared with the Action Level. The running quarterly encounter rates STG and ANI did not trigger the Action Level (i.e., remained above the Action Level).

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

	Encounter Rate (STG)	Encounter Rate (ANI)
February 2018	5.38	16.15
Running Quarter from December 2017 to February 2018*	5.27	18.89
Action Level	Running quarterly* < 1.86	Running quarterly* < 9.35

*Running quarterly encounter rates STG & ANI were calculated from data collected in the reporting period and the two preceding survey months, i.e. the data from December 2017 to February 2018, containing six sets of transect surveys for all monitoring areas.

Group Size

In February 2018, 25 groups of CWDs with 71 individuals were sighted, and the average group size of CWDs was 2.84 individuals per group. The number of sightings with small group size (i.e. 1-2 individuals) and medium group size (i.e. 3-9 individuals) are similar. No sightings with large group size (i.e. 10 or more individuals) were recorded in this reporting period.

Activities and Association with Fishing Boats

Seven out of 25 sightings of CWDs were recorded engaging in feeding activities in February 2018. CWDs from two out of these seven sightings were observed associating with operating gillnetter in NWL and WL respectively.

Mother-calf Pair

In February 2018, three sightings of CWDs were recorded with the presence of mother-and-unspotted juvenile pair and mother-and-calf pair in NWL (including AW) and WL.

6.4.2 Photo Identification

In February 2018, a total number of 33 different CWD individuals were identified for totally 37 times. A summary of photo identification works is presented in **Table 6.5**. Representative photos of these individuals are given in **Appendix C**.

Table 6.5: Summary of Photo Identification

Individual ID	Date of Sighting (dd/mm/yy)	Sighting Group No.	Area	Individual ID	Date of Sighting (dd/mm/yy)	Sighting Group No.	Area
NLMM001	12-Feb-18	4	NWL	SLMM053	14-Feb-18	3	WL
NLMM002	12-Feb-18	2	NWL	SLMM055	14-Feb-18	4	WL
NLMM004	06-Feb-18	4	NWL	SLMM062	13-Feb-18	7	WL
	12-Feb-18	2	NWL	WLMM001	13-Feb-18	5	WL
NLMM009	12-Feb-18	2	NWL	WLMM004	13-Feb-18	1	AW
NLMM016	14-Feb-18	5	WL	WLMM006	14-Feb-18	2	AW
NLMM023	12-Feb-18	2	NWL			3	WL
NLMM043	12-Feb-18	2	NWL	WLMM009	14-Feb-18	2	AW
NLMM049	12-Feb-18	3	NWL			3	WL
NLMM052	06-Feb-18	3	NWL	WLMM017	13-Feb-18	8	WL
NLMM055	12-Feb-18	2	NWL	WLMM029	14-Feb-18	2	AW
NLMM061	12-Feb-18	1	NWL	WLMM055	13-Feb-18	2	AW
NLMM064	06-Feb-18	1	NWL	WLMM057	14-Feb-18	2	AW
NLMM065	12-Feb-18	4	NWL			3	WL
SLMM002	14-Feb-18	8	WL	WLMM062	12-Feb-18	1	NWL
SLMM003	14-Feb-18	8	WL	WLMM063	13-Feb-18	1	AW
SLMM037	14-Feb-18	8	WL	WLMM107	13-Feb-18	5	WL
SLMM044	13-Feb-18	8	WL	WLMM113	14-Feb-18	4	WL
SLMM048	13-Feb-18	5	WL				

6.4.3 Land-based Theodolite Tracking Survey

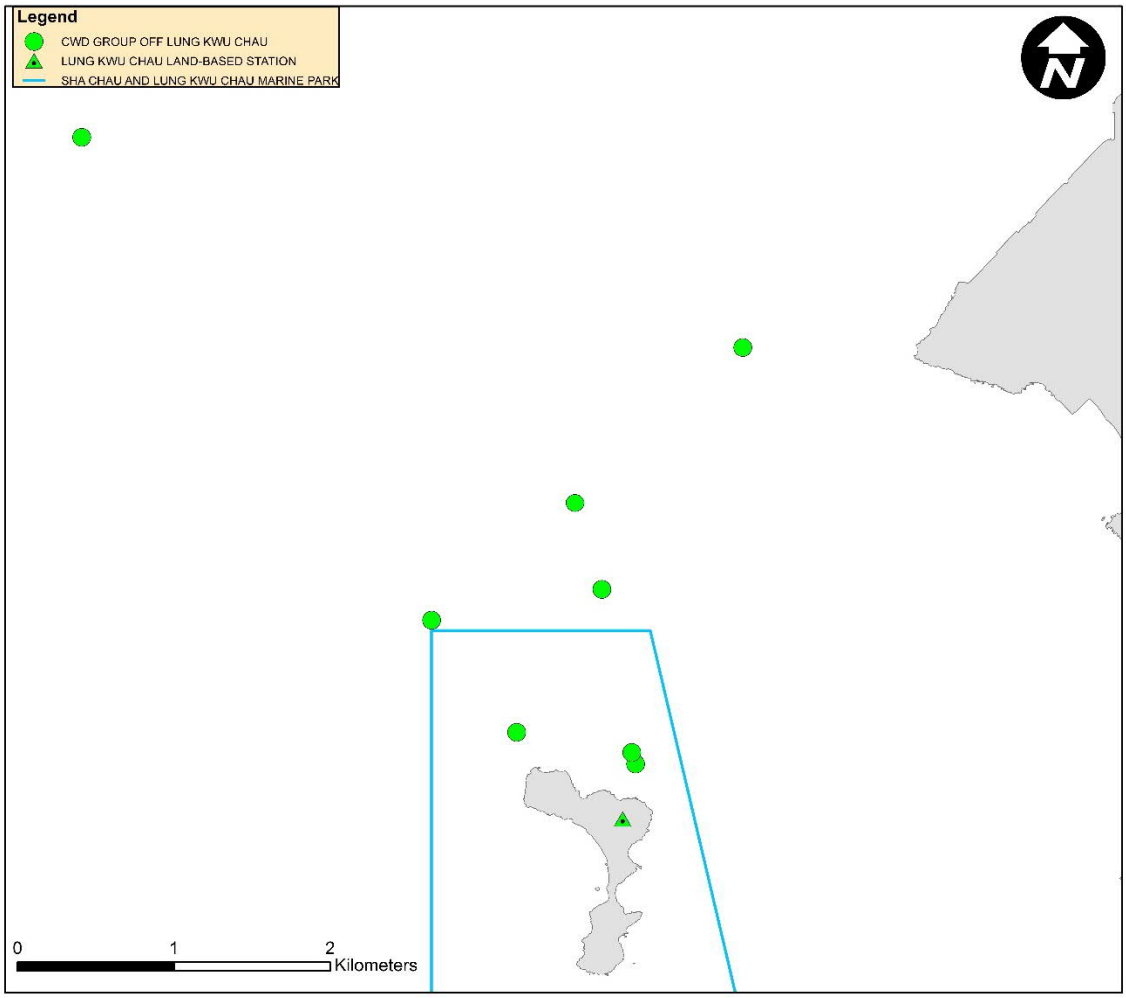
Survey Effort

Land-based theodolite tracking surveys were conducted at LKC on 9, 13 and 26 February 2018 and at SC on 8 and 27 February 2018, with a total of five days of land-based theodolite tracking survey effort accomplished in this reporting period. A total number of eight CWD groups were tracked at LKC station during the surveys. Information of survey effort and CWD groups sighted during these land-based theodolite tracking surveys are presented in **Table 6.6**. Details of the survey effort and CWD groups tracked are presented in **Appendix C**. The first sighting locations of CWD groups tracked at LKC station during land-based theodolite tracking surveys in February 2018 were depicted in **Figure 6.4**. No CWD group was sighted from SC station in this reporting month.

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

Land-based Station	No. of Survey Sessions	Survey Effort (hh:mm)	No. of CWD Groups Sighted	CWD Group Sighting per Survey Hour
Lung Kwu Chau	3	18:00	8	0.44
Sha Chau	2	12:00	0	0
TOTAL	**5**	**30:00**	**8**	**0.27**

Figure 6.4: Plots of First Sightings of All CWD Groups obtained from Land-based Stations



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 period, the Ecological Acoustic Recorder (EAR) has been remained underwater and positioned at south of Sha Chau Island inside the SCLKCMP with 20% duty cycle (**Figure 6.5**). The EAR deployment is generally for 4-6 weeks prior to data retrieval for analysis. Acoustic data is reviewed to give an indication of CWDs occurrence patterns and to obtain anthropogenic noise information simultaneously. Analysis (by a specialized team of acousticians) involved manually browsing through every acoustic recording and logging the occurrence of dolphin signals. All data will be re-played by computer as well as listened to by human ears for accurate assessment of dolphin group presence. As the period of data collection and analysis takes more than two months, PAM results could not be reported in monthly intervals.

6.6 Site Audit for CWD-related Mitigation Measures

During the reporting period, silt curtains were in place by the contractors for sand blanket laying works, in which dolphin observers were deployed by each contractor in accordance with the MMWP. Teams of at least two dolphin observers were deployed at 17 to 23 dolphin observation stations by the contractors for continuous monitoring of the DEZ by all contractors for ground

improvement works (DCM works and PVD installation) in accordance with the DEZ Plan. Trainings for the proposed dolphin observers on the implementation of MMWP and DEZ monitoring were provided by the ET prior to the aforementioned works, with a cumulative total of 584 individuals being trained and the training records kept by the ET. Observation was recorded on DEZ monitoring in this reporting period during site inspection by the ET. The contractors had taken actions to implement the recommended measures. From the contractors' MMWP observation records and DEZ monitoring records, no dolphin or other marine mammals were observed within or around the silt curtains, whilst there were three records of dolphin sighting within the DEZ of DCM works in this reporting period. According to the contractor's site record, relevant DCM works were suspended in the dolphin sighting events until the DEZ was clear of dolphin for a continuous period of 30 minutes. Details for the implementation of DEZ during the incident of dolphin sighting within the DEZ of DCM works are mentioned in **Section 7.4**. These contractors' records were also audited by the ET during site inspection.

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

6.7 Timing of Reporting CWD Monitoring Results

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

6.8 Summary of CWD Monitoring

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

7 Environmental Site Inspection and Audit

7.1 Environmental Site Inspection

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

The key observations from site inspection and associated recommendations were related to display of appropriate licences, permits, and labels; provision and maintenance of drip trays, spill kits, and waste storage area; proper handling of general refuse and chemical wastes; proper implementation of dust suppression, acoustic decoupling, wastewater treatment, and runoff prevention measures; as well as proper implementation DEZ and marine traffic monitoring.

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**.

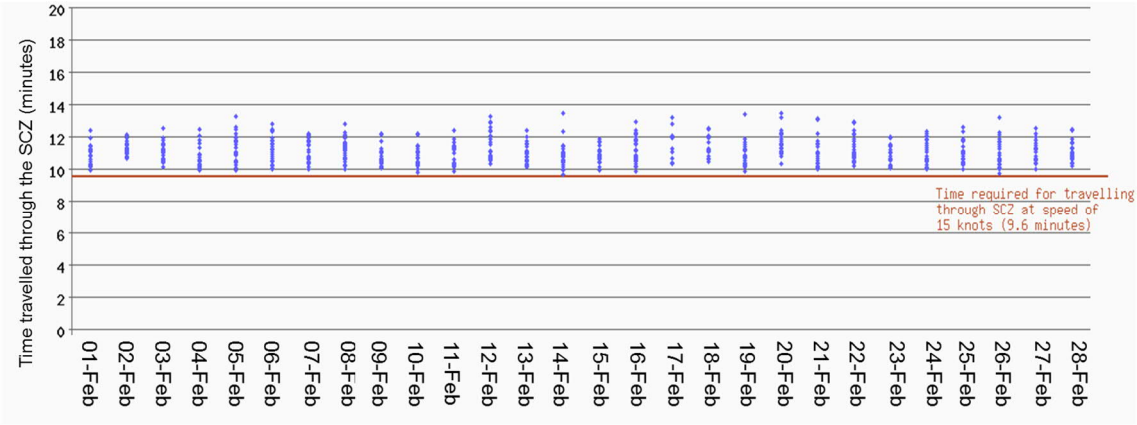
7.2 Audit of SkyPier High Speed Ferries

The Marine Travel Routes and Management Plan for High Speed Ferries of SkyPier (the SkyPier Plan) was submitted to the Advisory Council on the Environment 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 implement the mitigation measure of requiring high speed ferries (HSFs) of SkyPier travelling between HKIA and Zhuhai / Macau to start diverting the route with associated speed control across the area, i.e. Speed Control Zone (SCZ), with high CWD abundance. The route diversion and speed restriction at the SCZ have been implemented since 28 December 2015.

Key audit findings for the SkyPier HSFs travelling to/from Zhuhai and Macau against the requirements of the SkyPier Plan during the reporting period are summarized in **Table 7.1**. The daily movements of all SkyPier HSFs in this reporting period (i.e., 87 to 96 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, 812 ferry movements between HKIA SkyPier and Zhuhai / Macau were recorded in February 2018 and the data are presented in **Appendix F**. The time spent by the SkyPier HSFs travelling through the SCZ in February 2018 were presented in **Figure 7.1**. It will take 9.6 minutes to travel through the SCZ when the SkyPier HSFs adopt the maximum allowable speed of 15 knots within the SCZ. **Figure 7.1** shows that all of the SkyPier HSFs spent more than 9.6 minutes to travel through the SCZ.

Figure 7.1: Duration of the SkyPier HSFs travelling through the SCZ for February 2018



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.

Six ferries were recorded with minor deviation from the diverted route on 05 February 2018, 17 February 2018, 18 February 2018, 20 February 2018, and 24 February 2018. Notices were sent to the ferry operators and the cases are under investigation by ET. The investigation result will be presented in the next monthly EM&A report.

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

Requirements in the SkyPier Plan	1 February to 28 February 2018
Total number of ferry movements recorded and audited	812
Use diverted route and enter / leave SCZ through Gate Access Points	6 deviations.
Speed control in speed control zone	The average speeds taken within the SCZ of all HSFs were within 15 knots (10.1 knots to 14.0 knots), which complied with the SkyPier Plan. The time used by HSFs to travel through SCZ is presented in **Figure 7.1**.
Daily Cap (including all SkyPier HSFs)	87 to 96 daily movements (within the maximum daily cap - 125 daily movements).

7.3 Audit of Construction and Associated Vessels

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

ET carried out the following actions during the reporting period:

- Two skipper training sessions were held for contractors' concerned skippers of relevant construction vessels to familiarize them with the predefined routes; general education on local cetaceans; guidelines for avoiding adverse water quality impact; the required environmental practices / measures while operating construction and associated vessels under the Project; and guidelines for operating vessels safely in the presence of CWDs. The list of all trained skippers was properly recorded and maintained by ET.
- Six skipper training sessions were held by contractor's Environmental Officer. Competency tests were subsequently conducted with the trained skippers by ET.

- In this reporting period, six skippers were trained by ET and nine skippers were trained by contractor's Environmental Officer. In total, 867 skippers were trained from August 2016 to February 2018.
- The Marine Surveillance System (MSS) automatically recorded deviation cases such as speeding, entering no entry zone and not travelling through the designated gate. ET conducted checking to ensure the MSS records deviation cases accurately.
- Deviations such as speeding in the works area and entering from non-designated gates were identified. All the concerned contractors were reminded to comply with the requirements of the MTRMP-CAV during the bi-weekly MTCC audit.
- Three-month rolling programmes (one month record and three 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.

7.4 Implementation of Dolphin Exclusion Zone

The DEZ Plan was submitted in accordance with EP Condition 3.1 (v) requirement and Section 10.3 of the Manual, and approved in April 2016 by EPD. The 24-hour DEZs with a 250m radius for marine works were established and implemented by the contractors for ground improvement works (DCM works and PVD installation) according to their Method Statement for DEZ Monitoring that followed the specifications and requirements of the DEZ Plan.

During the reporting period, ET was notified on three records of dolphin sighting within the DEZ of DCM works by the contractor. The ET checked the dolphin sighting records and the contractor's site records to audit the implementation of DEZ. Details of the sightings are summarized in **Table 7.2**. DCM installation works on DCM barges within the DEZ were ceased by the contractor, and not resumed until the DEZ was clear of dolphin for a continuous period of at least 30 minutes in accordance with the DEZ Plan.

Table 7.2: Summary of Dolphin Sightings within the DEZ

Date	Works Area* and Type of Works Suspended	Location of the DEZ Monitoring Station	Time of Initial Sighting of Dolphin Group	Time of Last Sighting of Dolphin Group
22 Feb 2018	DCM works at Area G4	22°18.436N, 113°53.515E	17:30	18:10
24 Feb 2018	DCM works at Area G4	22°18.438N, 113°53.515E	15:00	15:30
24 Feb 2018	DCM works at Area G4	22°18.434N, 113°53.515E	17:18	17:35

*Note: Please refer to **Figure 1.2** for the location of works area.

7.5 Ecological Monitoring

In accordance with the Manual, ecological monitoring shall be undertaken monthly at the Horizontal Directional Drilling (HDD) daylighting location on Sheung Sha Chau Island during the HDD construction works period from August to March to identify and evaluate any impacts with appropriate actions taken as required to address and minimise any adverse impact found. During the reporting period, the monthly ecological monitoring at the HDD daylighting location on Sheung Sha Chau observed that pipe installation works were ongoing under the Contract P560(R) at the daylighting location, and there was no encroachment of any works upon the egretry area nor any significant disturbance to the ardeids on the island by the works. No signs of breeding or nursery activities were observed. At the HDD daylighting location, neither nest nor breeding activity of ardeids were found during the monthly ecological monitoring and weekly site inspections in the

reporting period. The site photos and location map regarding the monthly ecological monitoring for the HDD works and egretry area are provided in **Appendix C** for reference.

7.6 Status of Submissions under Environmental Permits

The current status of submissions under the EP up to the reporting period is presented in **Table 7.3**.

Table 7.3: 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	
2.16	Spill Response Plan	
2.17	Detailed Plan on Deep Cement Mixing	
2.19	Waste Management Plan	
2.20	Supplementary Contamination Assessment Plan	
3.1	Updated EM&A Manual	
3.4	Baseline Monitoring Reports	

7.7 Compliance with Other Statutory Environmental Requirements

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

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

7.8.1 Complaints

A complaint was received on 5 February 2018 regarding noise from Sha Chau works. Investigation was conducted by the ET in accordance with the Manual and the Complaint Management Plan of the Project. Based on information including daily inspection records and vessel records from 29 January 2018 to 4 February 2018, as well as the observation from the ad-hoc site inspection on 30 January 2018, no construction activities were conducted and no powered mechanical equipment was deployed at Sheung Sha Chau Island during the restricted hours. And there was no evidence on any non-compliance with the relevant EP conditions or the Construction Noise Permit (CNP) conditions found. Nevertheless, the contractor has been reminded to strictly follow the EP and CNP conditions and the ET will continue to conduct regular

and ad-hoc inspections at Sheung Sha Chau to ensure relevant regulations and conditions are complied.

7.8.2 Notifications of Summons or Status of Prosecution

Neither notification of summons nor prosecution was received during the reporting period.

7.8.3 Cumulative Statistics

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

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

8.1 Construction Programme for the Coming Reporting Period

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

Advanced Works:

Contract P560 (R) Aviation Fuel Pipeline Diversion Works

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

DCM Works:

Contract 3201 to 3205 DCM Works

- DCM works; and
- Seawall construction.

Reclamation Works:

Contract 3206 Main Reclamation Works

- Laying of sand blanket;
- PVD installation; and
- Seawall construction.

Airfield Works:

Contract 3301 North Runway Crossover Taxiway

- Cable ducting works;
- Subgrade works; and
- Precast of duct bank and fabrication of steel works.

Terminal 2 Expansion Works:

Contract 3501 Antenna Farm and Sewage Pumping Station

- Excavation works;
- Piling works; and
- Builders works of antenna farm.

Contract 3502 Terminal 2 Automated People Mover (APM) Depot Modification Works

- Removal of existing concrete;
- Formwork erection and concreting works; and
- Steel platform erection.

Contract 3503 Terminal 2 Foundation and Substructure Works

- Site establishment;

- E&M, drainage, and road work; and
- Piling works.

APM works:

Contract 3602 Existing APM System Modification Works

- Site office establishment.

Airport Support Infrastructure & Logistic Works:

Contract 3801 APM and BHS Tunnels on Existing Airport Island

- Erection of hoarding;
- Diversion of underground utilities;
- Piling works; and
- Demolition of footbridge.

8.2 Key Environmental Issues for the Coming Reporting Period

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

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

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

8.3 Monitoring Schedule for the Coming Reporting Period

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

9 Conclusion and Recommendation

The key activities of the Project carried out in the reporting period included reclamation works and land-side works. Reclamation works included DCM works, seawall construction, laying of sand blanket, and PVD installation. Land-side works included HDD works, site establishment, site office construction, road and drainage works, cable ducting, demolition and modification of existing facilities, piling, and excavation works.

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 Manual.

Monitoring results of construction dust, construction noise, construction waste, and CWD did not trigger the corresponding Action and Limit Levels during the reporting period.

The water quality monitoring results for DO, turbidity, and total alkalinity obtained during the reporting period were within their corresponding Action and Limit Levels stipulated in the EM&A programme for triggering the relevant investigation and follow-up procedures under the programme if being exceeded. For SS, chromium, and nickel, some of the testing results triggered the relevant Action or Limit Level, and the corresponding investigations were conducted accordingly. The investigation findings concluded that the cases were not related to the Project. To conclude, the construction operation during the reporting period did not introduce adverse impact to all water quality sensitive receivers.

The monthly terrestrial ecology monitoring on Sheung Sha Chau Island observed that HDD works were conducted at the daylighting location 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. Site inspection findings were recorded in the site inspection checklists and provided to the contractors to follow up.

On the implementation of MMWP, dolphin observers were deployed by the contractors for laying of open sea silt curtain and laying of silt curtains for sand blanket works in accordance with the MMWP. On the implementation of DEZ Plan, dolphin observers at 17 to 23 dolphin observation stations were deployed for continuous monitoring of the DEZ by all contractors for ground improvement works (DCM works and PVD installation) in accordance with the DEZ Plan. Trainings for the proposed dolphin observers were provided by the ET prior to the aforementioned works, with the training records kept by the ET. From the contractors' MMWP observation records and DEZ monitoring records, no dolphin or other marine mammals were observed within or around the silt curtains, whilst there were three records of dolphin sighting within the DEZ of DCM works in this reporting month. The contractor's record was checked by the ET during site inspection. Audits of acoustic decoupling for construction vessels were also carried out by the ET.

On the implementation of the SkyPier Plan, the daily movements of all SkyPier high speed ferries (HSFs) in February 2018 were in the range of 87 to 96 daily movements, which are within the maximum daily cap of 125 daily movements. A total of 812 HSF movements under the SkyPier Plan were recorded in the reporting period. All HSFs had travelled through the Speed Control Zone (SCZ) with average speeds under 15 knots (10.1 to 14.0 knots), which were in compliance

with the SkyPier Plan. No deviation from the diverted route in January 2018 is recorded in the High Speed Ferry Monitoring System. 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 MTRMP-CAV, the MSS automatically recorded the deviation case such as speeding, entering no entry zone, not travelling through the designated gates. ET conducted checking to ensure the MSS records all deviation cases accurately. Training has been provided for the concerned skippers to facilitate them in familiarising with the requirements of the MTRMP-CAV. Deviations including speeding in the works area and entry from non-designated gates were reviewed by ET. All the concerned captains were reminded by the contractor's MTCC representative to comply with the requirements of the MTRMP-CAV. ET reminded contractors that all vessels shall avoid entering the no-entry zone, in particular the Brothers Marine Park. Three-month rolling programmes for construction vessel activities, which ensures the proposed vessels are necessary and minimal through good planning, were also received from contractors.

Figures

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

Contract P560 (R)-
Daylighting
Location

LEGEND:
- LAND FORMATION
- TEMPORARY WORKS AREA BOUNDARY
- KEY CONSTRUCTION ACTIVITIES

RECLAMATION WORKS AREA
(please refer to Figure 1.2)

Contract 3801 - Works Area
Contract 3501 - Works Area
Contract 3502 - Works Area
Contract 3503 - Works Area
Contract 3201- 3206
and AAHK Site
Offices
Contract 3301 - Works Area
Contract P560 (R)-
Launching Site
Contract 3301 - Works Area
Contract 3301 - Pre-cast Area
Contract 3301 - Works Area
Contract 3602 - Site Office
Contract P560 (R) - Site Office
Contract 3501 - Stockpiling Area
Contract 3801 - Stockpiling Area
Contract P560 (R) - Stockpiling Area

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

Rev.	Date	Description	Checked
A	31AUG15	FIRST ISSUE	DC

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Mott MacDonald

Title
LOCATIONS OF KEY CONSTRUCTION ACTIVITIES

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

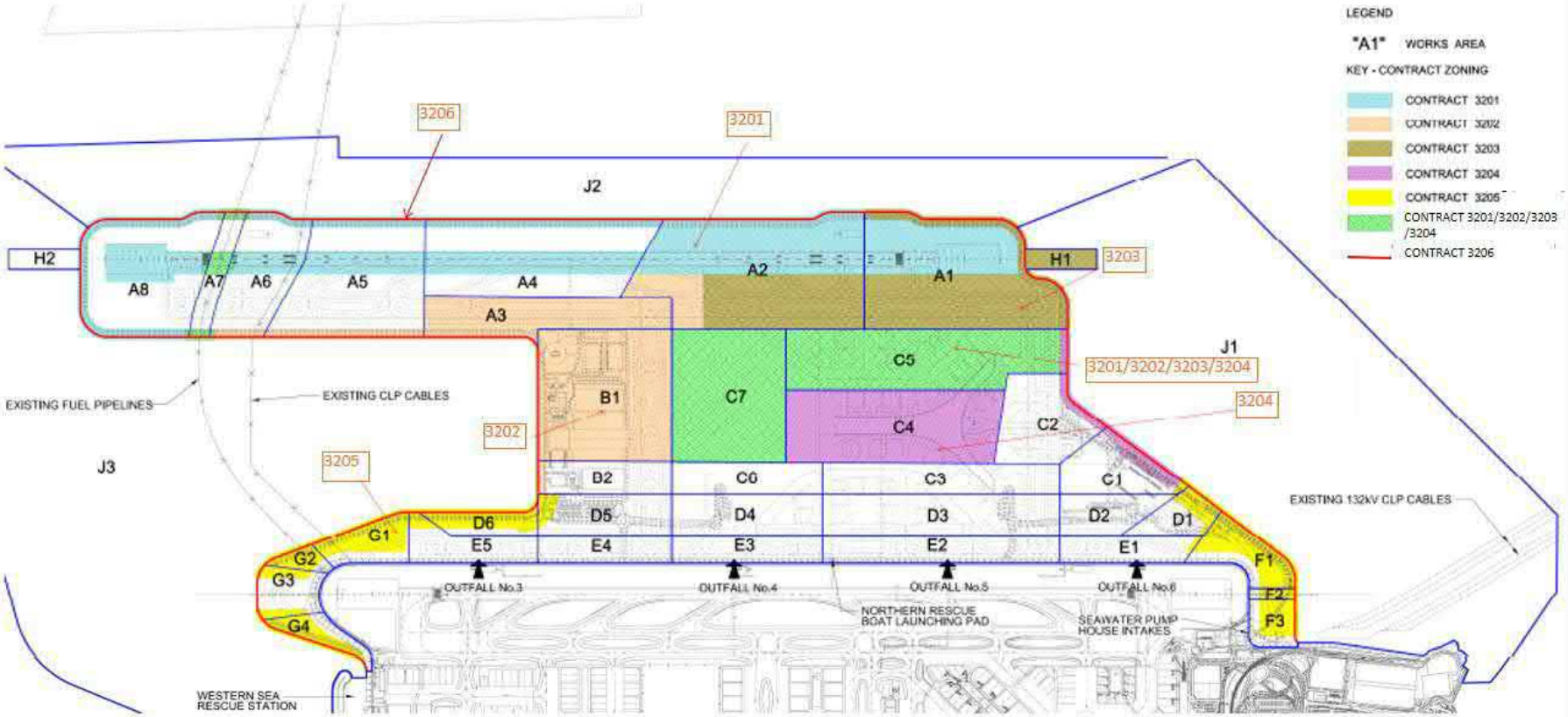
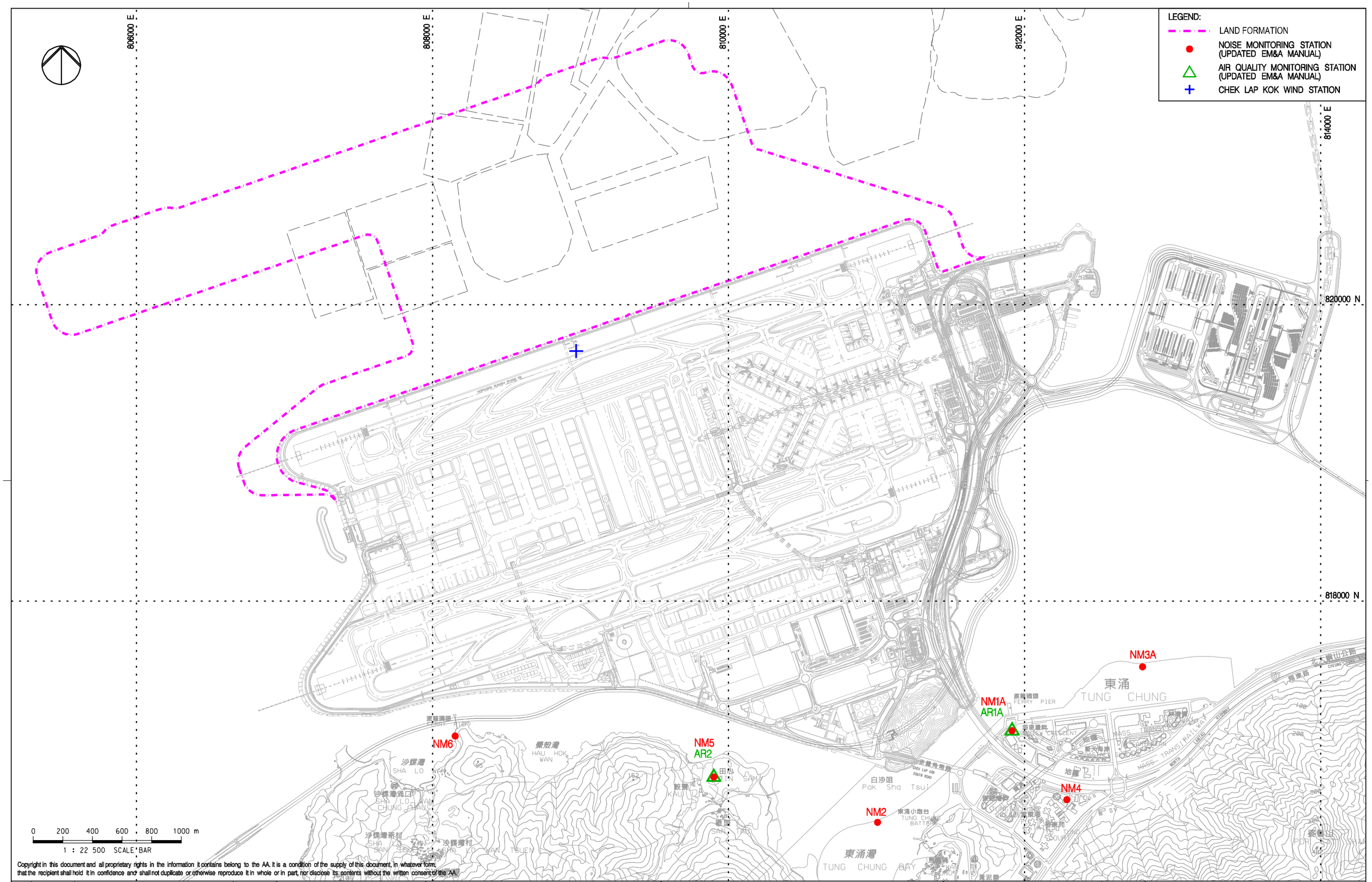


FIGURE 1.2- LOCATIONS OF RECLAMATION WORKS AREA



Rev.	Date	Description	Checked
A	06JAN16	FIRST ISSUE	RO
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:
- LAND FORMATION
- 500m ENVELOPE
- IMPACT STATION
- SENSITIVE RECEIVER
- CONTROL STATION

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

Rev.	Date	Description	Checked
A	02DEC15	FIRST ISSUE	DC
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C	06JUN16	GENERAL REVISION	LC
D	02AUG17	GENERAL REVISION	RO

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MOTT MACDONALD

Title

WATER QUALITY MONITORING STATIONS

Consultant's Signatures for Approval		Date
Design	DC	02AUG17
Checkers	DC / TK	02AUG17
Approver	EC	02AUG17

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

Drawing No.

FIGURE 3.1

Scale at A3 1 : 60000

Rev. D

Filename: J:\355482\REPORT\ENV\EMA\170802\FIG 3.1.dgn

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

830000 N
825000 N
820000 N
815000 N
810000 N
805000 N

NORTHWEST LANTAU
NORTHEAST LANTAU
SOUTHWEST LANTAU
AIRPORT WEST
WEST LANTAU

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

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

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

Rev.	Date	Description	Checked
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C	06FEB17	GENERAL REVISION	JT
D	01MAR17	GENERAL REVISION	JT

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

Consultant's Signatures for Approval		Date
Design	JC	01MAR17
Checkers	JC / TK	01MAR17
Approver	EC	01MAR17

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

Drawing No. FIGURE 6.1

Scale at A3 1 : 125000

Rev. D

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

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

E
D

HKSAR BOUNDARY

LEGEND:
LAND FORMATION
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	06FEB17
Checkers	JC / TK	06FEB17
Approver	EC	06FEB17

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

Drawing No.
FIGURE 6.2

Scale at A3
1 : 45000

Rev. B

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

804000 E
806000 E
808000 E
810000 E
812000 N
814000 E
816000 E
818000 E
820000 E
828000 N
826000 N
824000 N
822000 N
820000 N
818000 N

URMSTON ROAD

龍鼓洲
LUNG KWU CHAU

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

沙洲
SHA CHAU

A5

HKSAR BOUNDARY

LEGEND:

LAND FORMATION

HONG KONG INTERNATIONAL AIRPORT

AUTONOMOUS PASSIVE ACOUSTIC MONITORING LOCATION

0 500 1000 1500 2000 m

1 : 45 000 SCALE BAR

Rev.	Date	Description	Checked
A	29AUG17	FIRST ISSUE	JT

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MOTT MACDONALD

Title

LOCATION FOR AUTONOMOUS PASSIVE ACOUSTIC MONITORING

Consultant's Signatures for Approval		Date
Design	JC	29AUG17
Checkers	JC / TK	29AUG17
Approver	EC	29AUG17

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\170802\FIG 6.5.dgn

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Notes:

I= implemented where applicable;

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

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

Appendix B. Monitoring Schedule

Monitoring Schedule of This Reporting Period

Feb-18

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1 Site Inspection NM6 WQ General & Regular DCM mid-ebb: 13:49 mid-flood: 08:24	**2** Site Inspection	**3** WQ General & Regular DCM mid-ebb: 15:14 mid-flood: 09:42
4	**5** AR1A, AR2 NM1A, NM3A, NM4, NM5	**6** Site Inspection CWD Survey (Vessel) WQ General & Regular DCM mid-ebb: 17:30 mid-flood: 11:26	**7** Site Inspection CWD Survey (Vessel)	**8** Site Inspection CWD Survey (Land-based) WQ General & Regular DCM mid-ebb: 06:13 mid-flood: 12:44	**9** Site Inspection CWD Survey (Land-based) AR1A, AR2 NM6	**10**
11 WQ General & Regular DCM mid-ebb: 10:51 mid-flood: 05:58	**12** CWD Survey (Vessel)	**13** Site Inspection CWD Survey (Vessel, Land-based) NM6 WQ General & Regular DCM mid-ebb: 12:09 mid-flood: 06:58	**14** Site Inspection CWD Survey (Land-based)	**15** Site Inspection AR1A, AR2 NM1A, NM3A, NM4, NM5 WQ General & Regular DCM mid-ebb: 13:12 mid-flood: 07:51	**16**	**17**
18 WQ General & Regular DCM mid-ebb: 14:42 mid-flood: 08:59	**19**	**20** Site Inspection NM6 WQ General & Regular DCM mid-ebb: 15:52 mid-flood: 09:48	**21** Site Inspection CWD Survey (Vessel) AR1A, AR2 NM1A, NM3A, NM4, NM5	**22** Site Inspection CWD Survey (Vessel) Ecological Monitoring WQ General & Regular DCM mid-ebb: 17:31 mid-flood: 10:52	**23** Site Inspection CWD Survey (Vessel)	**24** WQ General & Regular DCM mid-ebb: 06:55 mid-flood: 12:36
25	**26** CWD Survey (Land-based) NM6	**27** Site Inspection CWD Survey (Land-based) AR1A, AR2 NM1A, NM3A, NM4, NM5 WQ General & Regular DCM mid-ebb: 11:21 mid-flood: 05:55	**28** Site Inspection			

Notes:

CWD - Chinese White Dolphin

Air quality and Noise Monitoring Station

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

Tentative Monitoring Schedule of Next Reporting Period

Mar-18

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1 Site Inspection WQ General & Regular DCM mid-ebb: 12:53 mid-flood: 07:19	**2** Site Inspection	**3** WQ General & Regular DCM mid-ebb: 14:08 mid-flood: 08:26
4	**5** CWD Survey (Vessel) AR1A, AR2 NM1A, NM3A, NM4, NM5	**6** Site Inspection CWD Survey (Vessel) WQ General & Regular DCM mid-ebb: 15:52 mid-flood: 09:47	**7** Site Inspection CWD Survey (Vessel)	**8** Site Inspection CWD Survey (Vessel, Land-based) NM6 WQ General & Regular DCM mid-ebb: 17:27 mid-flood: 10:44	**9** Site Inspection CWD Survey (Land-based) AR1A, AR2	**10** WQ General & Regular DCM mid-ebb: 20:01 mid-flood: 12:02
11	**12** CWD Survey (Vessel) AR1A, AR2 NM1A, NM3A, NM4, NM5	**13** Site Inspection CWD Survey (Vessel) WQ General & Regular DCM mid-ebb: 11:19 mid-flood: 05:59	**14** CWD Survey (Vessel) NM6	**15** Site Inspection WQ General & Regular DCM mid-ebb: 12:20 mid-flood: 06:47	**16** Site Inspection AR1A, AR2	**17** WQ General & Regular DCM mid-ebb: 13:16 mid-flood: 07:31
18	**19**	**20** Site Inspection NM6 WQ General & Regular DCM mid-ebb: 14:50 mid-flood: 08:38	**21** Site Inspection NM4	**22** Site Inspection CWD Survey (Vessel, Land-based) AR1A, AR2 NM1A, NM3A, NM5 Ecological Monitoring WQ General & Regular DCM mid-ebb: 16:12 mid-flood: 09:36	**23** Site Inspection CWD Survey (Land-based)	**24** WQ General & Regular DCM mid-ebb: 18:07 mid-flood: 10:52
25	**26** CWD Survey (Land-based) NM6	**27** Site Inspection WQ General & Regular DCM mid-ebb: 10:22 mid-flood: 15:23	**28** Site Inspection AR1A, AR2 NM1A, NM3A, NM4, NM5	**29** Site Inspection WQ General & Regular DCM mid-ebb: 11:58 mid-flood: 06:11	**30**	**31** WQ General & Regular DCM mid-ebb: 13:08 mid-flood: 07:13

Notes:

CWD - Chinese White Dolphin

Air quality and Noise Monitoring Station

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

Appendix C. Monitoring Results

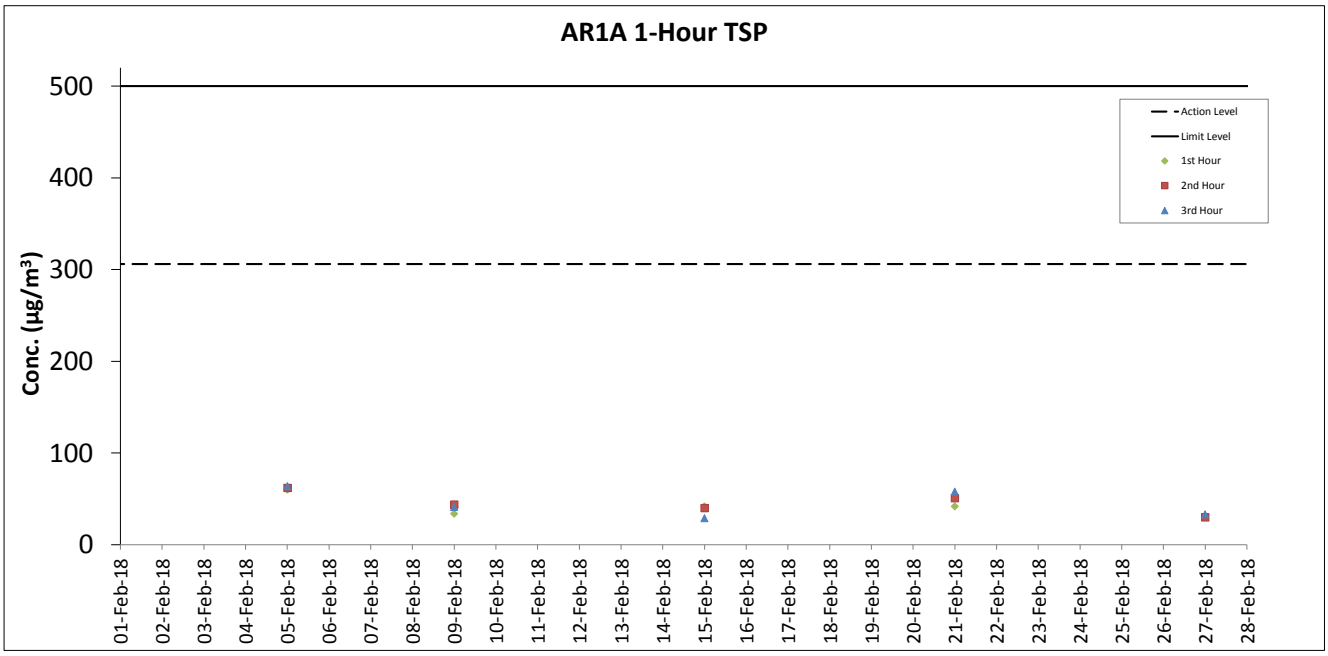
Air Quality Monitoring Results

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

Date	Time	Weather	Wind Speed (m/s)	Wind Direction (deg)	1-hr TSP ($\mu g/m^3$)	Action Level ($\mu g/m^3$)	Limit Level ($\mu g/m^3$)
05-Feb-18	13:35	Fine	5.5	350	60	306	500
05-Feb-18	14:35	Fine	5.0	3	62	306	500
05-Feb-18	15:35	Fine	4.6	7	64	306	500
09-Feb-18	13:30	Fine	4.6	266	34	306	500
09-Feb-18	14:30	Fine	2.6	292	44	306	500
09-Feb-18	15:30	Fine	2.0	318	41	306	500
15-Feb-18	13:00	Sunny	2.8	283	42	306	500
15-Feb-18	14:00	Sunny	2.8	276	40	306	500
15-Feb-18	15:00	Sunny	2.4	291	29	306	500
21-Feb-18	13:15	Cloudy	6.6	93	42	306	500
21-Feb-18	14:15	Cloudy	5.7	89	51	306	500
21-Feb-18	15:15	Cloudy	6.9	82	58	306	500
27-Feb-18	13:00	Sunny	3.6	267	31	306	500
27-Feb-18	14:00	Sunny	4.2	271	30	306	500
27-Feb-18	15:00	Sunny	3.4	279	33	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 ($\mu g/m^3$)
05-Feb-18	09:04	Cloudy	5.6	356	39	298	500
05-Feb-18	10:04	Cloudy	4.6	21	41	298	500
05-Feb-18	11:04	Cloudy	5.5	7	46	298	500
09-Feb-18	09:06	Fine	5.9	95	25	298	500
09-Feb-18	10:06	Fine	6.1	81	23	298	500
09-Feb-18	11:06	Fine	4.3	89	23	298	500
15-Feb-18	09:05	Cloudy	1.7	294	54	298	500
15-Feb-18	10:05	Cloudy	1.4	339	65	298	500
15-Feb-18	11:05	Cloudy	1.6	309	52	298	500
21-Feb-18	09:05	Cloudy	4.6	79	37	298	500
21-Feb-18	10:05	Cloudy	3.5	76	45	298	500
21-Feb-18	11:05	Cloudy	4.2	73	37	298	500
27-Feb-18	09:00	Cloudy	5.4	80	31	298	500
27-Feb-18	10:00	Cloudy	3.7	63	31	298	500
27-Feb-18	11:00	Cloudy	2.3	55	31	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-Feb-18
02-Feb-18
03-Feb-18
04-Feb-18
05-Feb-18
06-Feb-18
07-Feb-18
08-Feb-18
09-Feb-18
10-Feb-18
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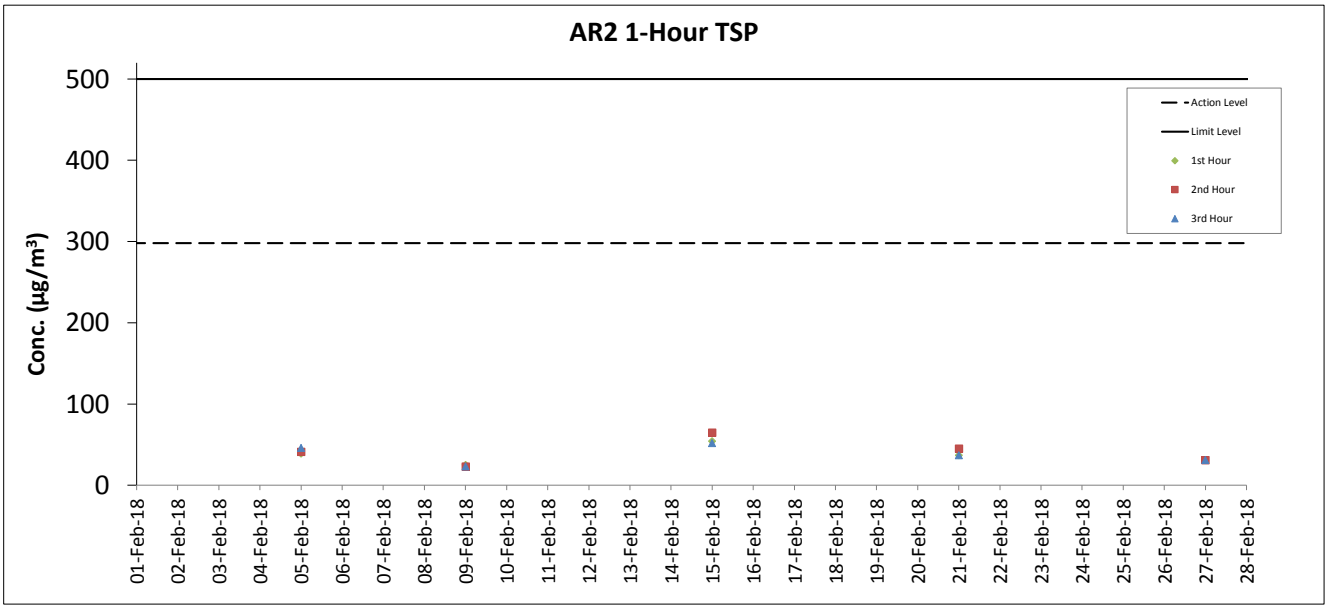
26-Feb-18
27-Feb-18
28-Feb-18


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

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)
05-Feb-18	Cloudy	13:45	74.5	57.5	73
05-Feb-18	Cloudy	13:50	74.5	59.0	
05-Feb-18	Cloudy	13:55	72.5	58.5	
05-Feb-18	Cloudy	14:00	72.0	59.0	
05-Feb-18	Cloudy	14:05	71.0	59.5	
05-Feb-18	Cloudy	14:10	73.5	58.5	
15-Feb-18	Sunny	13:12	72.5	54.0	72
15-Feb-18	Sunny	13:17	71.5	52.5	
15-Feb-18	Sunny	13:22	73.5	52.5	
15-Feb-18	Sunny	13:27	72.5	53.5	
15-Feb-18	Sunny	13:32	73.5	54.0	
15-Feb-18	Sunny	13:37	72.0	53.5	
21-Feb-18	Cloudy	13:35	71.5	54.0	72
21-Feb-18	Cloudy	13:40	73.5	54.5	
21-Feb-18	Cloudy	13:45	73.0	54.0	
21-Feb-18	Cloudy	13:50	72.5	54.5	
21-Feb-18	Cloudy	13:55	73.5	54.0	
21-Feb-18	Cloudy	14:00	73.0	53.0	
27-Feb-18	Sunny	13:15	73.0	56.0	72
27-Feb-18	Sunny	13:20	73.5	55.0	
27-Feb-18	Sunny	13:25	72.5	55.0	
27-Feb-18	Sunny	13:30	73.0	56.5	
27-Feb-18	Sunny	13:35	72.0	56.0	
27-Feb-18	Sunny	13:40	72.0	56.0	

Remarks:

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

Noise Measurement Results

Station: NM3A- Site Office

Date	Weather	Time	Measured L_{10} dB(A)	Measured L_{90} dB(A)	$L_{eq(30mins)}$ dB(A)
05-Feb-18	Cloudy	09:20	71.5	59.5	63
05-Feb-18	Cloudy	09:25	67.0	59.0	
05-Feb-18	Cloudy	09:30	69.0	59.5	
05-Feb-18	Cloudy	09:35	70.0	59.5	
05-Feb-18	Cloudy	09:40	68.5	59.5	
05-Feb-18	Cloudy	09:45	69.0	59.5	
15-Feb-18	Cloudy	09:32	58.0	56.0	59
15-Feb-18	Cloudy	09:37	59.5	56.5	
15-Feb-18	Cloudy	09:42	59.5	56.5	
15-Feb-18	Cloudy	09:47	61.0	57.0	
15-Feb-18	Cloudy	09:52	58.0	56.5	
15-Feb-18	Cloudy	09:57	62.5	56.5	
21-Feb-18	Cloudy	09:30	68.5	59.5	57
21-Feb-18	Cloudy	09:35	66.0	59.0	
21-Feb-18	Cloudy	09:40	68.0	59.0	
21-Feb-18	Cloudy	09:45	66.5	59.0	
21-Feb-18	Cloudy	09:50	68.0	59.0	
21-Feb-18	Cloudy	09:55	67.5	59.0	
27-Feb-18	Cloudy	09:28	68.5	59.0	61
27-Feb-18	Cloudy	09:33	68.0	59.0	
27-Feb-18	Cloudy	09:38	69.5	59.0	
27-Feb-18	Cloudy	09:43	68.5	59.0	
27-Feb-18	Cloudy	09:48	69.0	59.0	
27-Feb-18	Cloudy	09:53	69.0	58.5	

Noise Measurement Results

Station: NM4- Ching Chung Hau Po Woon Primary School

Date	Weather	Time	Measured L_{10} dB(A)	Measured L_{90} dB(A)	$L_{eq(30mins)}$ dB(A)
05-Feb-18	Cloudy	14:40	64.0	59.0	66
05-Feb-18	Cloudy	14:45	65.0	58.5	
05-Feb-18	Cloudy	14:50	64.0	59.0	
05-Feb-18	Cloudy	14:55	65.0	59.5	
05-Feb-18	Cloudy	15:00	65.0	59.0	
05-Feb-18	Cloudy	15:05	64.5	59.0	
15-Feb-18	Sunny	14:22	61.5	55.5	63
15-Feb-18	Sunny	14:27	62.5	55.5	
15-Feb-18	Sunny	14:32	60.0	56.0	
15-Feb-18	Sunny	14:37	64.5	56.0	
15-Feb-18	Sunny	14:42	61.0	56.0	
15-Feb-18	Sunny	14:47	61.5	55.5	
21-Feb-18	Cloudy	14:27	63.0	58.0	64
21-Feb-18	Cloudy	14:32	63.5	58.0	
21-Feb-18	Cloudy	14:37	62.5	57.5	
21-Feb-18	Cloudy	14:42	63.0	57.5	
21-Feb-18	Cloudy	14:47	61.5	57.5	
21-Feb-18	Cloudy	14:52	63.5	58.0	
27-Feb-18	Fine	14:55	63.5	59.5	60
27-Feb-18	Fine	15:00	66.0	60.5	
27-Feb-18	Fine	15:05	66.5	61.0	
27-Feb-18	Fine	15:10	66.5	61.0	
27-Feb-18	Fine	15:15	67.0	61.0	
27-Feb-18	Fine	15:20	68.0	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)
05-Feb-18	Cloudy	09:31	61.0	54.0	62
05-Feb-18	Cloudy	09:36	62.0	53.5	
05-Feb-18	Cloudy	09:41	60.0	54.0	
05-Feb-18	Cloudy	09:46	63.5	53.0	
05-Feb-18	Cloudy	09:51	63.5	53.5	
05-Feb-18	Cloudy	09:56	63.5	53.0	
15-Feb-18	Cloudy	09:33	54.0	45.0	57
15-Feb-18	Cloudy	09:38	51.0	45.5	
15-Feb-18	Cloudy	09:43	52.5	44.5	
15-Feb-18	Cloudy	09:48	54.5	45.0	
15-Feb-18	Cloudy	09:53	52.0	44.5	
15-Feb-18	Cloudy	09:58	71.0	46.0	
21-Feb-18	Cloudy	10:23	57.5	48.0	59
21-Feb-18	Cloudy	10:28	60.5	50.0	
21-Feb-18	Cloudy	10:33	59.0	52.0	
21-Feb-18	Cloudy	10:38	58.0	50.5	
21-Feb-18	Cloudy	10:43	59.0	48.5	
21-Feb-18	Cloudy	10:48	61.5	49.0	
27-Feb-18	Cloudy	09:30	59.0	49.5	59
27-Feb-18	Cloudy	09:35	60.0	49.5	
27-Feb-18	Cloudy	09:40	59.0	49.0	
27-Feb-18	Cloudy	09:45	60.0	50.0	
27-Feb-18	Cloudy	09:50	61.0	48.5	
27-Feb-18	Cloudy	09:55	54.0	48.0	

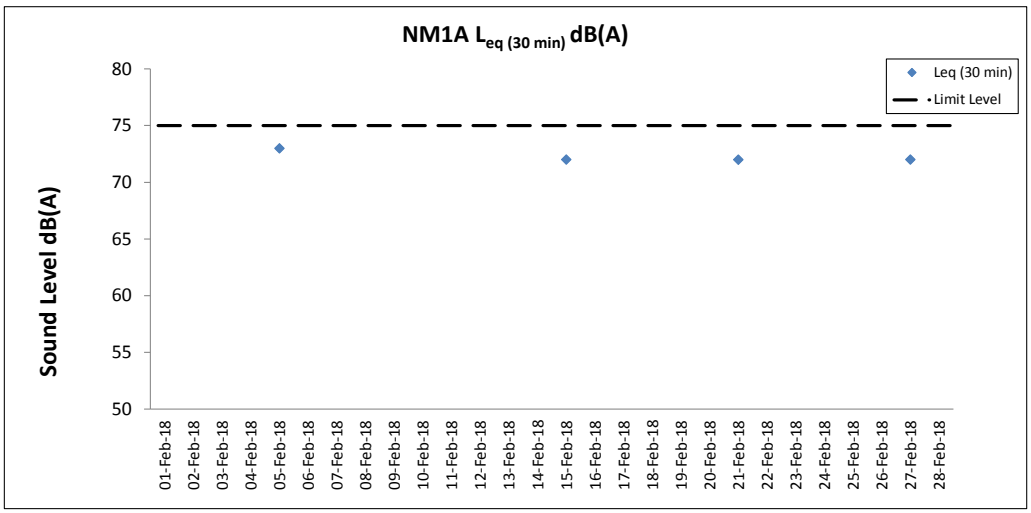
Remarks:
+3dB (A) correction was applied to free-field measurement.

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)
01-Feb-18	Fine	09:42	74.5	51.5	73
01-Feb-18	Fine	09:47	74.5	52.0	
01-Feb-18	Fine	09:52	77.5	53.5	
01-Feb-18	Fine	09:57	75.5	56.5	
01-Feb-18	Fine	10:02	73.0	59.5	
01-Feb-18	Fine	10:07	75.0	57.5	
09-Feb-18	Fine	09:43	71.0	60.5	66
09-Feb-18	Fine	09:48	69.0	60.0	
09-Feb-18	Fine	09:53	72.0	60.5	
09-Feb-18	Fine	09:58	63.5	56.5	
09-Feb-18	Fine	10:03	69.5	55.0	
09-Feb-18	Fine	10:08	73.5	55.0	
13-Feb-18	Sunny	09:39	74.5	56.5	68
13-Feb-18	Sunny	09:44	71.5	55.5	
13-Feb-18	Sunny	09:49	71.0	57.5	
13-Feb-18	Sunny	09:54	73.0	58.5	
13-Feb-18	Sunny	09:59	68.5	56.5	
13-Feb-18	Sunny	10:04	65.5	55.0	
20-Feb-18	Cloudy	09:40	77.5	52.0	71
20-Feb-18	Cloudy	09:45	69.0	47.5	
20-Feb-18	Cloudy	09:50	72.5	49.5	
20-Feb-18	Cloudy	09:55	73.0	48.5	
20-Feb-18	Cloudy	10:00	75.0	50.0	
20-Feb-18	Cloudy	10:05	66.0	49.5	
26-Feb-18	Cloudy	09:48	69.0	64.0	68
26-Feb-18	Cloudy	09:53	72.0	55.0	
26-Feb-18	Cloudy	09:58	68.0	53.5	
26-Feb-18	Cloudy	10:03	66.5	53.0	
26-Feb-18	Cloudy	10:08	65.0	52.0	
26-Feb-18	Cloudy	10:13	69.0	52.0	

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


NM1A $L_{eq\ (30\ min)}$ dB(A)
Sound Level dB(A)
Leq (30 min)
Limit Level
80
75
70
65
60
55
50
01-Feb-18
02-Feb-18
03-Feb-18
04-Feb-18
05-Feb-18
06-Feb-18
07-Feb-18
08-Feb-18
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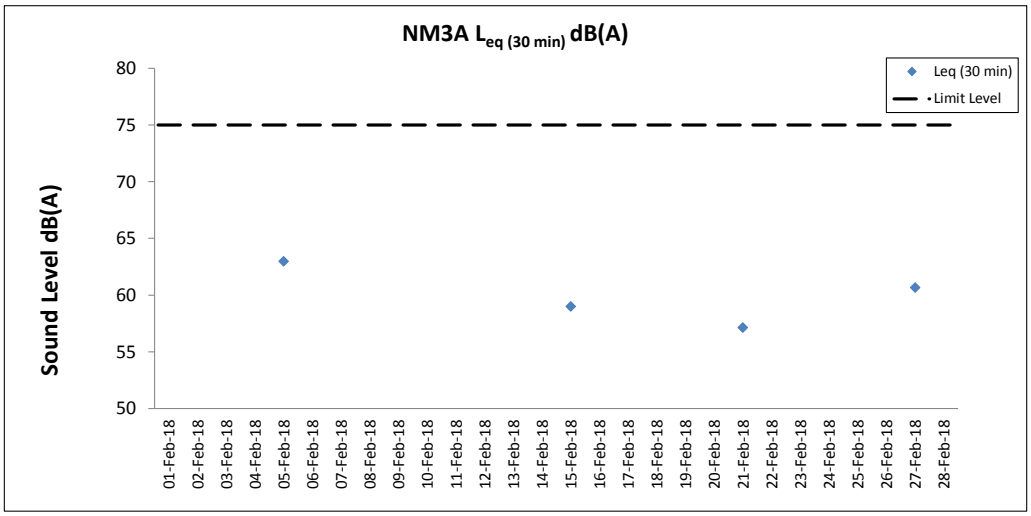
NM3A $L_{eq\ (30\ min)}$ dB(A)
Sound Level dB(A)
Leq (30 min)
Limit Level
80
75
70
65
60
55
50
01-Feb-18
02-Feb-18
03-Feb-18
04-Feb-18
05-Feb-18
06-Feb-18
07-Feb-18
08-Feb-18
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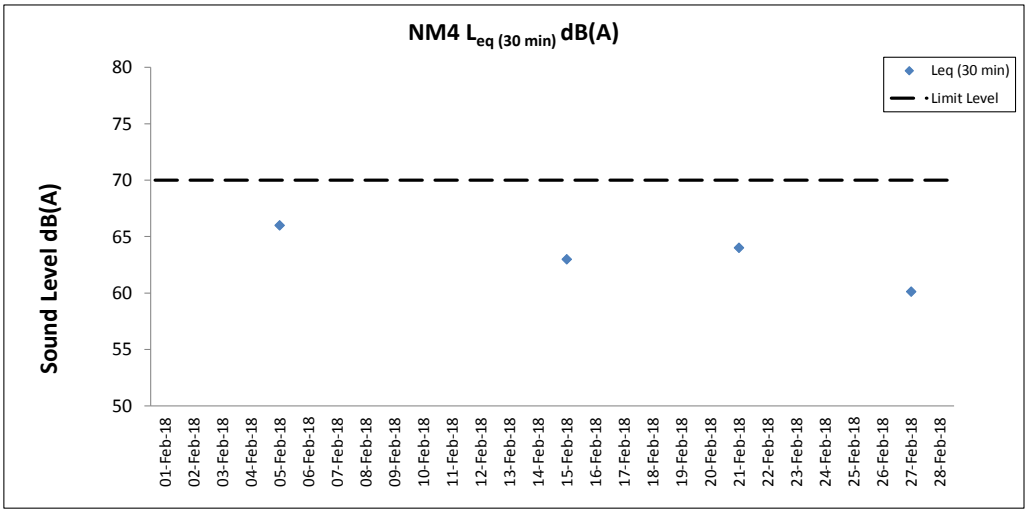
NM4 $L_{eq\ (30\ min)}$ dB(A)
Sound Level dB(A)
Leq (30 min)
Limit Level
80
75
70
65
60
55
50
01-Feb-18
02-Feb-18
03-Feb-18
04-Feb-18
05-Feb-18
06-Feb-18
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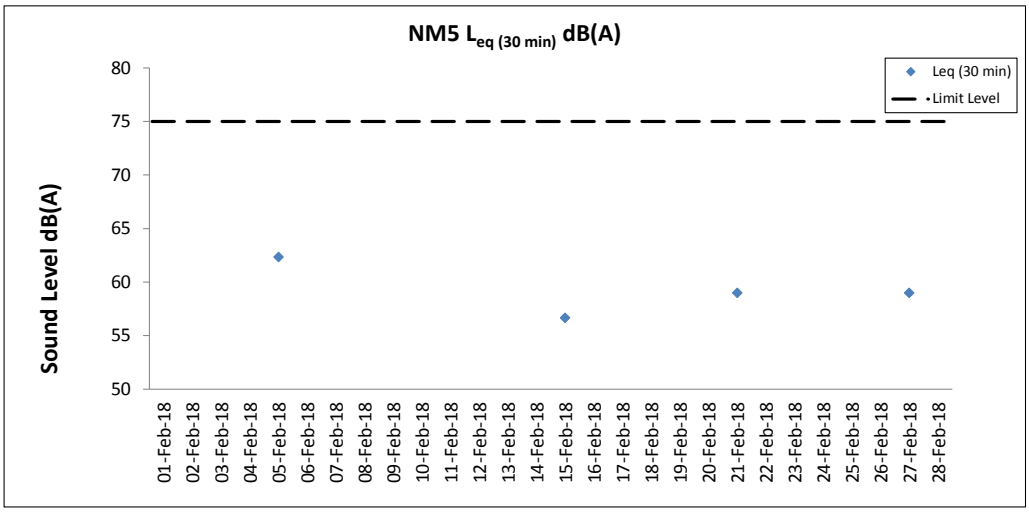
NM5 Leq (30 min) dB(A)
Sound Level dB(A)
Leq (30 min)
Limit Level
80
75
70
65
60
55
50
01-Feb-18
02-Feb-18
03-Feb-18
04-Feb-18
05-Feb-18
06-Feb-18
07-Feb-18
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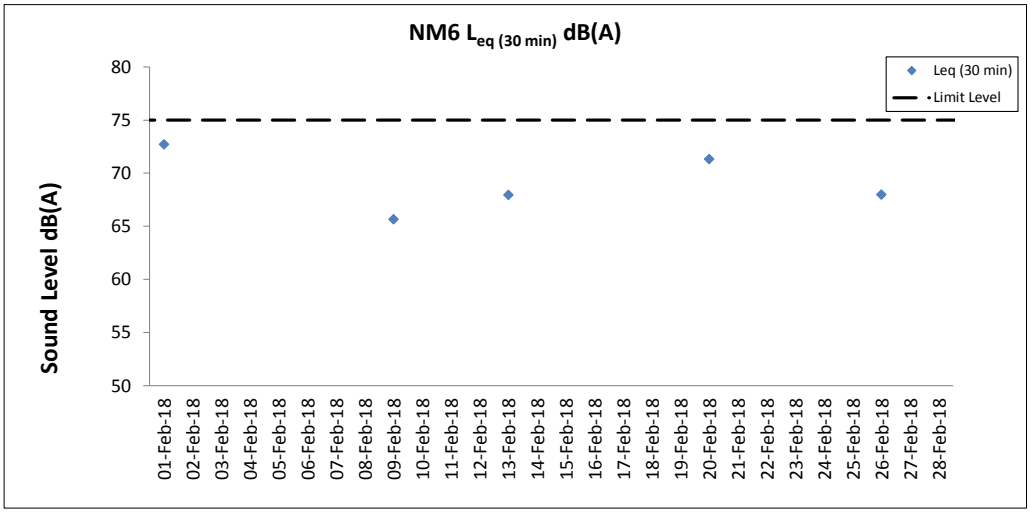
NM6 Leq (30 min) dB(A)
Sound Level dB(A)
Leq (30 min)
Limit Level
80
75
70
65
60
55
50
01-Feb-18
02-Feb-18
03-Feb-18
04-Feb-18
05-Feb-18
06-Feb-18
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27-Feb-18
28-Feb-18

Water Quality Monitoring Results

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

Water Quality Monitoring

Water Quality Monitoring Results on 01 February 18 during Mid-Ebb Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
C1	Cloudy	Moderate	13:09	8.6	Surface	1.0	0.1	170	15.1	15.1	8.1	8.1	31.9	31.9	97.9	97.9	8.1	8.1	8.5	9.1	10	12	71	74	815601	804250	<0.2	<0.2	0.7	0.7
						1.0	0.1	185	15.1		8.1		31.9		97.9		8.1		8.6		11		72				<0.2		0.6	
					Middle	4.3	0.2	183	15.1	15.1	8.1	8.1	31.9	31.9	97.6	97.6	8.1		9.4		12		73				<0.2		0.7	
						4.3	0.2	185	15.1		8.1		31.9		97.6		8.1		9.5		14		74				<0.2		0.7	
					Bottom	7.6	0.1	170	15.1	15.1	8.1	8.1	31.9	31.9	98.8	99.0	8.2	8.2	9.4		13		75				<0.2		0.6	
						7.6	0.1	185	15.1		8.1		31.9		99.2		8.2		9.4		14		76				<0.2		0.7	
C2	Cloudy	Moderate	12:06	12.3	Surface	1.0	0.2	34	15.4	15.4	8.0	8.0	27.8	27.8	100.3	100.3	8.5	8.5	18.8	20.7	10	10	72	73	825667	806918	<0.2	<0.2	1.1	1.1
						1.0	0.2	36	15.4		8.0		27.8		100.3		8.5		18.8		9		73				<0.2		1.1	
					Middle	6.2	0.2	28	15.3	15.3	8.0	8.0	31.3	31.2	101.5	101.5	8.4		19.2		11		73				<0.2		1.1	
						6.2	0.2	29	15.3		8.0		31.2		101.5		8.4		19.2		9		73				<0.2		1.0	
					Bottom	11.3	0.2	15	15.4	15.4	8.0	8.0	31.7	31.7	103.4	103.4	8.5	8.5	24.1		12		74				<0.2		1.1	
						11.3	0.2	16	15.4		8.0		31.7		103.4		8.5		24.1		11		75				<0.2		1.1	
C3	Cloudy	Moderate	13:49	11.3	Surface	1.0	0.4	87	16.1	16.1	8.0	8.0	30.6	30.6	97.6	97.6	8.0	8.0	6.1	7.2	7	7	73	75	822116	817808	<0.2	<0.2	0.8	0.8
						1.0	0.4	93	16.1		8.0		30.6		97.6		8.0		6.1		5		73				<0.2		0.8	
					Middle	5.7	0.3	94	16.1	16.1	8.0	8.0	31.4	31.4	98.2	98.2	8.0		7.4		9		76				<0.2		0.8	
						5.7	0.3	97	16.1		8.0		31.4		98.2		8.0		7.4		7		75				<0.2		0.8	
					Bottom	10.3	0.3	90	16.1	16.1	7.9	7.9	31.6	31.6	99.6	99.6	8.1	8.1	8.0		8		77				<0.2		0.8	
						10.3	0.3	92	16.1		7.9		31.6		99.6		8.1		8.0		7		77				<0.2		0.8	
IM1	Cloudy	Moderate	12:50	7.4	Surface	1.0	0.1	47	14.8	14.8	8.2	8.2	31.4	31.4	98.9	98.8	8.3	8.2	10.0	13.6	13	12	71	73	818355	806445	<0.2	<0.2	0.8	0.8
						1.0	0.1	48	14.8		8.2		31.4		98.7		8.2		10.2		12		72				<0.2		0.9	
					Middle	3.7	0.0	92	15.1	15.1	8.2	8.2	31.8	31.8	98.2	98.2	8.1		13.8		11		73				<0.2		0.8	
						3.7	0.0	99	15.1		8.2		31.8		98.2		8.1		13.9		13		73				<0.2		0.8	
					Bottom	6.4	0.1	87	15.1	15.1	8.2	8.2	31.9	31.9	98.4	98.5	8.2	8.2	16.8		11		76				<0.2		0.8	
						6.4	0.1	89	15.1		8.2		31.9		98.5		8.2		16.7		11		75				<0.2		0.8	
IM2	Cloudy	Moderate	12:45	8.4	Surface	1.0	0.1	88	15.2	15.2	8.2	8.2	31.9	31.9	98.1	98.1	8.1	8.1	13.3	14.5	18	18	71	73	818833	806208	<0.2	<0.2	0.6	0.6
						1.0	0.1	96	15.2		8.2		31.9		98.1		8.1		13.3		18		71				<0.2		0.6	
					Middle	4.2	0.1	67	15.1	15.1	8.2	8.2	31.9	31.9	97.9	98.0	8.1		14.0		18		73				<0.2		0.6	
						4.2	0.2	68	15.1		8.2		31.9		98.0		8.1		13.7		18		73				<0.2		0.7	
					Bottom	7.4	0.1	88	15.1	15.1	8.2	8.2	31.9	31.9	99.5	99.6	8.2	8.3	16.7		19		75				<0.2		0.6	
						7.4	0.1	94	15.1		8.2		31.9		99.6		8.3		16.0		21		76				<0.2		0.6	
IM3	Cloudy	Moderate	12:37	8.5	Surface	1.0	0.2	85	15.2	15.2	8.2	8.2	31.9	31.9	98.2	98.2	8.1	8.1	13.8	14.5	20	22	71	73	819417	806003	<0.2	<0.2	0.6	0.7
						1.0	0.2	88	15.2		8.2		31.9		98.2		8.1		13.9		19		72				<0.2		0.6	
					Middle	4.3	0.1	61	15.1	15.1	8.1	8.1	31.9	31.9	98.3	98.4	8.1		13.1		22		73				<0.2		0.6	
						4.3	0.1	65	15.1		8.1		31.9		98.4		8.1		13.5		21		73				<0.2		0.8	
					Bottom	7.5	0.2	78	15.1	15.1	8.2	8.2	31.9	31.9	99.7	99.8	8.3	8.3	16.2		25		75				<0.2		0.6	
						7.5	0.2	82	15.1		8.2		31.9		99.9		8.3		16.3		27		76				<0.2		0.9	
IM4	Cloudy	Moderate	12:30	7.6	Surface	1.0	0.2	50	15.2	15.2	8.2	8.2	31.9	31.9	98.0	98.0	8.1	8.1	15.5	18.5	23	24	72	73	819562	805043	<0.2	<0.2	0.5	0.5
						1.0	0.2	50	15.2		8.2		31.9		98.0		8.1		15.5		24		72				<0.2		0.6	
					Middle	3.8	0.1	26	15.2	15.2	8.1	8.1	31.9	31.9	97.8	97.9	8.1		18.9		23		73				<0.2		0.6	
						3.8	0.1	27	15.2		8.1		31.9		97.9		8.1		18.7		23		73				<0.2		0.5	
					Bottom	6.6	0.2	24	15.2	15.2	8.1	8.1	31.9	31.9	98.4	98.5	8.1	8.2	21.0		25		75				<0.2		0.5	
						6.6	0.2	25	15.2		8.2		31.9		98.6		8.2		21.5		27		75				<0.2		0.5	
IM5	Cloudy	Moderate	12:22	7.2	Surface	1.0	0.2	82	14.8	14.8	8.2	8.2	31.2	31.2	98.4	98.4	8.2	8.2	9.8	17.9	15	15	71	73	820582	804938	<0.2	<0.2	0.9	0.9
						1.0	0.2	88	14.8		8.2		31.2		98.3		8.2		9.8		13		71				<0.2		1.0	
					Middle	3.6	0.1	63	15.0	15.0	8.2	8.2	31.7	31.7	97.5	97.5	8.1		20.9		14		73				<0.2		0.9	
						3.6	0.1	66	15.0		8.2		31.7		97.5		8.1		20.4		14		73				<0.2		0.9	
					Bottom	6.2	0.2	23	15.0	15.0	8.2	8.2	31.7	31.7	97.5	97.5	8.1	8.1	23.3		16		75				<0.2		0.8	
						6.2	0.2	24	15.0		8.2		31.7		97.5		8.1		23.3		18		75				<0.2		0.9	
IM6	Cloudy	Moderate	12:11	6.9	Surface	1.0	0.1	94	14.8	14.8	8.2	8.2	31.2	31.2	97.9	97.9	8.2	8.2	17.9	19.9	18	19	72	73	821068	805821	<0.2	<0.2	0.9	0.9
						1.0	0.1	99	14.8		8.2		31.2		97.9		8.2		17.6		18		72				<0.2		0.8	
					Middle	3.5	0.2	51	14.8	14.8	8.2	8.2	31.2	31.2	97.7	97.7	8.2		20.2		20		73				<0.2		0.9	
						3.5	0.2	52	14.8		8.2		31.2		97.7		8.2		20.6		21		73				<0.2		0.9	
					Bottom	5.9	0.2	72	14.8	14.8	8.2	8.2	31.3	31.3	98.2	98.2	8.2	8.2	21.5		19		75				<0.2		0.8	
						5.9	0.2	74	14.8		8.2		31.3		98.2		8.2		21.8		18		75				<0.2		0.9	
IM7	Cloudy	Moderate	12:06	8.4	Surface	1.0	0.3	49	14.7	14.7	8.2	8.2	31.3	31.3	98.4	98.4	8.2	8.2	10.0	10.6	13	16	72	73	821363	806828	<0.2	<0.2	0.8	0.9
						1.0	0.3	52	14.7		8.2		31.3		98.4		8.2		9.9		12		72				<0.2		0.9	
					Middle	4.2	0.3	56	14.7	14.7	8.2	8.2	31.3	31.3	98.2	98.2	8.2		10.1		15		73				<0.2		0.8	
						4.2	0.4	58	14.7		8.2		31.3		98.2		8.2		10.4		15		73				<0.2		0.9	
					Bottom	7.4	0.2	60	14.7	14.7	8.2	8.2	31.3	31.3	98.1	98.2	8.2	8.2	11.5		19		75				<0.2		0.9	
						7.4	0.2	62	14.7		8.2		31.3		98.2		8.2		11.4		20		75				<0.2		0.8	
IM8	Cloudy	Moderate	12:32	8.5	Surface	1.0	0.3	75	14.8	14.8	8.0	8.0	29.5	29.5	99.9	99.9	8.4	8.5	17.8	18.1	15	16	73	75	821697	807809	<0.2	<0.2	1.1	1.0
						1.0	0.3	76	14.8		8.0		29.5		99.9		8.4		17.8		15		73				<0.2		1.0	
					Middle	4.3	0.3	74	14.8	14.8	8.0	8.0	30.6	30.6	100.9	100.9	8.5		17.9		16		75				<0.2		0.9	
						4.3	0.3	78	14.8		8.0		30.6		100.9		8.5		17.9		17		74				<0.2		1.0	
					Bottom	7.5	0.3	72	14.8	14.8	8.0	8.0	30.7	30.7	103.1	103.1	8.7	8.7	18.5		18		77				<0.2		0.9	
						7.5	0.3	73	14.8		8.0		30.7		103.1		8.7		18.5		17		76				<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 01 February 18 during Mid-Ebb Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
IM9	Cloudy	Moderate	12:40	6.7	Surface	1.0	0.3	81	14.9	14.9	8.0	8.0	28.9	28.9	102.5	102.5	8.7	8.7	10.4	12.5	16	15	73	74	822105	808786	<0.2	<0.2	0.8	0.9
						1.0	0.3	88	14.9		8.0		28.9		102.5		8.7		10.4		16		73				<0.2		1.1	
					Middle	3.4	0.3	83	14.9	14.9	8.0	8.0	30.7	30.7	104.3	104.3	8.7		11.9		16		74				<0.2		0.8	
						3.4	0.4	89	14.9		8.0		30.7		104.3		8.7		11.9		16		74				<0.2		0.9	
					Bottom	5.7	0.3	82	14.8	14.8	8.0	8.0	31.0	31.0	106.3	106.3	8.9	8.9	15.3		12		76				<0.2		0.8	
						5.7	0.3	82	14.8		8.0		31.0		106.3		8.9		15.3		14		75				<0.2		0.8	
IM10	Cloudy	Moderate	12:48	8.3	Surface	1.0	0.3	108	15.4	15.4	8.1	8.1	29.0	29.0	102.0	102.0	8.5	8.6	8.5	8.9	12	12	72	75	822253	809845	<0.2	<0.2	0.9	0.9
						1.0	0.3	111	15.4		8.1		29.1		102.0		8.5		8.5		12		73				<0.2		0.9	
					Middle	4.2	0.4	102	15.3	15.3	8.1	8.1	29.6	29.6	103.1	103.1	8.6		9.0		11		75				<0.2		0.9	
						4.2	0.4	109	15.3		8.1		29.6		103.1		8.6		9.0		10		76				<0.2		0.8	
					Bottom	7.3	0.3	105	15.3	15.3	8.1	8.1	30.5	30.5	105.6	105.6	8.8	8.8	9.1		12		77				<0.2		0.9	
						7.3	0.3	109	15.3		8.1		30.5		105.6		8.8		9.1		12		77				<0.2		0.8	
IM11	Cloudy	Moderate	12:58	8.1	Surface	1.0	0.4	100	15.2	15.2	8.0	8.0	29.5	29.5	100.1	100.1	8.4	8.4	8.1	9.0	8	9	73	75	821482	810528	<0.2	<0.2	0.9	0.8
						1.0	0.5	107	15.2		8.0		29.5		100.1		8.4		8.1		9		73				<0.2		0.8	
					Middle	4.1	0.4	93	15.3	15.3	8.0	8.0	30.0	30.0	100.6	100.6	8.4		9.0		7		75				<0.2		0.8	
						4.1	0.4	100	15.3		8.0		30.0		100.6		8.4		9.0		9		75				<0.2		0.8	
					Bottom	7.1	0.3	104	15.5	15.5	8.0	8.0	30.1	30.1	102.2	102.2	8.5	8.5	9.8		11		77				<0.2		0.8	
						7.1	0.3	112	15.5		8.0		30.1		102.2		8.5		9.8		11		76				<0.2		0.9	
IM12	Cloudy	Moderate	13:05	8.7	Surface	1.0	0.5	98	15.5	15.5	8.0	8.0	29.2	29.2	100.4	100.4	8.4	8.4	7.6	7.7	8	9	72	75	821159	811489	<0.2	<0.2	0.8	0.9
						1.0	0.5	101	15.5		8.0		29.2		100.4		8.4		7.7		9		73				<0.2		0.9	
					Middle	4.4	0.5	98	15.5	15.5	8.0	8.0	29.6	29.6	100.6	100.6	8.4		7.4		8		75				<0.2		0.9	
						4.4	0.5	103	15.5		8.0		29.6		100.6		8.4		7.4		8		75				<0.2		1.0	
					Bottom	7.7	0.2	70	15.6	15.6	8.0	8.0	30.5	30.5	103.6	103.6	8.6	8.6	7.9		8		76				<0.2		0.8	
						7.7	0.2	74	15.6		8.0		30.5		103.6		8.6		7.9		10		76				<0.2		0.8	
SR2	Cloudy	Moderate	13:26	4.3	Surface	1.0	0.2	114	15.7	15.7	8.0	8.0	29.0	29.0	101.3	101.3	8.4	8.4	7.4	7.8	7	9	73	74	821446	814148	<0.2	<0.2	0.8	0.8
						1.0	0.2	115	15.7		8.0		29.0		101.3		8.4		7.4		7		73				<0.2		0.8	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.3	0.2	111	15.8	15.8	8.0	8.0	29.8	29.8	103.4	103.4	8.6	8.6	8.1		11		75				<0.2		0.7	
						3.3	0.2	121	15.8		8.0		29.8		103.4		8.6		8.1		12		75				<0.2		0.7	
SR3	Cloudy	Moderate	12:28	9.1	Surface	1.0	0.3	81	14.9	14.9	8.0	8.0	28.5	28.5	99.8	99.8	8.5	8.5	14.0	15.0	11	12	-	-	822165	807562	-	-	-	-
						1.0	0.4	81	14.9		8.0		28.5		99.7		8.5		14.0		13		-				-		-	
					Middle	4.6	0.4	80	14.9	14.9	8.0	8.0	29.9	29.9	100.1	100.1	8.4		13.5		12		-				-		-	
						4.6	0.4	81	14.9		8.0		29.9		100.1		8.4		13.5		12		-				-		-	
					Bottom	8.1	0.2	68	14.8	14.8	8.0	8.0	31.1	31.1	101.7	101.8	8.5	8.5	17.5		13		-				-		-	
						8.1	0.2	73	14.8		8.0		31.1		101.8		8.5		17.5		13		-				-		-	
SR4A	Cloudy	Calm	13:30	9.4	Surface	1.0	0.5	76	14.6	14.6	8.2	8.2	31.3	31.3	98.0	98.0	8.2	8.2	6.8	7.7	15	14	-	-	817180	807807	-	-	-	-
						1.0	0.5	78	14.6		8.2		31.3		98.0		8.2		6.9		14		-				-		-	
					Middle	4.7	0.4	71	14.6	14.6	8.2	8.2	31.3	31.3	98.0	98.1	8.2		7.8		13		-				-		-	
						4.7	0.4	75	14.6		8.2		31.3		98.1		8.2		7.8		14		-				-		-	
					Bottom	8.4	0.3	69	14.5	14.6	8.2	8.2	31.3	31.3	99.1	99.3	8.3	8.4	8.6		14		-				-		-	
						8.4	0.3	70	14.6		8.2		31.3		99.5		8.4		8.5		16		-				-		-	
SR5A	Cloudy	Calm	13:46	5.0	Surface	1.0	0.1	42	15.0	15.0	8.2	8.2	30.6	30.6	96.7	96.7	8.1	8.1	6.1	6.5	6	8	-	-	816584	810680	-	-	-	-
						1.0	0.1	43	15.0		8.2		30.6		96.7		8.1		6.2		8		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.0	0.1	79	15.0	15.0	8.2	8.2	30.6	30.6	96.4	96.5	8.1	8.1	6.8		9		-				-		-	
						4.0	0.1	80	15.0		8.2		30.6		96.5		8.1		6.9		9		-				-		-	
SR6	Cloudy	Calm	14:08	3.8	Surface	1.0	0.1	34	14.9	14.9	8.2	8.2	30.4	30.4	99.9	99.9	8.4	8.4	8.3	6.6	5	6	-	-	817869	814657	-	-	-	-
						1.0	0.1	35	14.8		8.2		30.4		99.9		8.4		8.1		7		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.8	0.1	19	14.8	14.8	8.2	8.2	30.4	30.4	100.0	100.1	8.4	8.4	5.0		7		-				-		-	
						2.8	0.1	19	14.8		8.2		30.4		100.1		8.4		4.8		6		-				-		-	
SR7	Cloudy	Moderate	14:56	14.6	Surface	1.0	0.4	139	16.1	16.1	8.1	8.1	31.9	31.9	95.3	95.3	7.7	7.7	7.7	7.9	8	8	-	-	823655	823747	-	-	-	-
						1.0	0.4	151	16.1		8.1		31.9		95.3		7.7		7.7		6		-				-		-	
					Middle	7.3	0.3	157	16.1	16.1	8.1	8.1	31.9	31.9	95.0	95.0	7.7		8.1		10		-				-		-	
						7.3	0.3	159	16.1		8.1		31.9		95.0		7.7		8.0		9		-				-		-	
					Bottom	13.6	0.3	187	16.1	16.1	8.1	8.1	31.9	31.9	95.0	95.0	7.7	7.7	7.8		7		-				-		-	
						13.6	0.3	190	16.1		8.1		31.9		95.0		7.7		7.9		9		-				-		-	
SR8	Cloudy	Moderate	13:12	4.2	Surface	1.0	-	-	15.3	15.3	8.0	8.0	29.9	29.9	104.8	104.8	8.8	8.8	13.4	12.1	11	10	-	-	820453	811584	-	-	-	-
						1.0	-	-	15.3		8.0		29.9		104.8		8.8		13.4		10		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.2	-	-	15.2	15.2	8.0	8.0	29.9	29.9	106.3	106.3	8.9	8.9	10.7		9		-				-		-	
						3.2	-	-	15.2		8.0		29.9		106.3		8.9		10.7		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**
Note: Access to SR8 was blocked by barge. The monitoring at SR8 was slightly shifted to the closest safe and accessible location temporarily.

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 01 February 18 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	Rough	08:18	7.6	Surface	1.0	0.6	49	14.5	14.5	8.2	8.2	31.0	31.0	97.5	97.5	8.2	8.2	18.8	20.4	16	19	71	73	815613	804230	<0.2	<0.2	0.9	1.0
						1.0	0.6	50	14.5		8.2		31.0		97.4		8.2		18.9		18		71				<0.2		1.0	
					Middle	3.8	0.5	35	14.6	14.6	8.2	8.2	31.3	31.3	97.1	97.1	8.1		21.6		17		73				<0.2		1.0	
						3.8	0.6	37	14.6		8.2		31.3		97.0		8.1		21.6		16		73				<0.2		1.0	
					Bottom	6.6	0.6	41	14.6	14.6	8.2	8.2	31.5	31.5	96.9	96.9	8.1	8.1	20.8		21		75				<0.2		1.0	
						6.6	0.6	42	14.6		8.2		31.5		96.9		8.1		20.4		23		75				<0.2		0.9	
C2	Cloudy	Moderate	09:21	11.6	Surface	1.0	0.5	342	15.5	15.5	8.0	8.0	27.3	27.3	98.3	98.3	8.3	8.3	11.4	13.1	8	9	72	73	825664	806953	<0.2	<0.2	1.0	1.0
						1.0	0.5	347	15.5		8.0		27.3		98.3		8.3		11.4		9		72				<0.2		1.0	
					Middle	5.8	0.6	0	15.7	15.7	8.0	8.0	28.0	28.0	98.6	98.6	8.3		12.4		8		73				<0.2		1.0	
						5.8	0.6	0	15.7		8.0		28.0		98.6		8.3		12.4		8		73				<0.2		1.0	
					Bottom	10.6	0.5	3	15.7	15.7	7.9	7.9	29.1	29.1	100.1	100.1	8.3	8.3	15.6		9		74				<0.2		1.0	
						10.6	0.5	3	15.7		7.9		29.1		100.1		8.3		15.6		9		75				<0.2		0.9	
C3	Cloudy	Moderate	07:20	10.3	Surface	1.0	0.6	238	15.6	15.6	8.0	8.0	29.8	29.8	99.8	99.8	8.3	8.4	7.8	9.4	8	7	73	74	822103	817790	<0.2	<0.2	0.7	0.7
						1.0	0.7	258	15.6		8.0		29.8		99.8		8.3		7.8		6		73				<0.2		0.6	
					Middle	5.2	0.6	243	15.6	15.6	8.0	8.0	30.8	30.8	102.1	102.1	8.4		10.6		8		74				<0.2		0.6	
						5.2	0.6	263	15.6		8.0		30.8		102.1		8.4		10.6		6		75				<0.2		0.7	
					Bottom	9.3	0.5	239	15.7	15.7	8.0	8.0	31.8	31.8	106.1	106.1	8.7	8.7	9.8		8		75				<0.2		0.7	
						9.3	0.6	245	15.7		8.0		31.8		106.1		8.7		9.8		7		75				<0.2		0.7	
IM1	Fine	Moderate	08:34	7.0	Surface	1.0	0.4	9	14.8	14.8	8.3	8.3	31.1	31.1	97.4	97.4	8.2	8.1	11.8	14.6	18	20	72	73	818337	806464	<0.2	<0.2	0.8	0.8
						1.0	0.4	9	14.8		8.3		31.1		97.4		8.1		11.9		18		72				<0.2		0.8	
					Middle	3.5	0.5	12	14.8	14.8	8.3	8.3	31.2	31.2	97.2	97.2	8.1		13.2		16		73				<0.2		0.8	
						3.5	0.5	12	14.8		8.3		31.2		97.2		8.1		13.2		18		73				<0.2		0.8	
					Bottom	6.0	0.4	4	14.8	14.8	8.3	8.3	31.2	31.2	97.1	97.1	8.1	8.1	18.9		23		75				<0.2		0.8	
						6.0	0.4	4	14.8		8.3		31.2		97.1		8.1		18.6		24		75				<0.2		0.8	
IM2	Fine	Moderate	08:39	8.4	Surface	1.0	0.5	34	14.9	14.9	8.2	8.2	31.1	31.1	97.7	97.7	8.2	8.2	11.3	12.0	19	21	71	73	818849	806170	<0.2	<0.2	0.8	0.9
						1.0	0.5	36	14.9		8.2		31.1		97.7		8.2		11.1		18		71				<0.2		0.9	
					Middle	4.2	0.4	27	14.9	14.9	8.2	8.2	31.1	31.1	97.6	97.6	8.2		11.2		19		73				<0.2		0.8	
						4.2	0.4	27	14.9		8.2		31.1		97.6		8.2		11.1		20		73				<0.2		0.9	
					Bottom	7.4	0.3	15	14.9	14.9	8.2	8.2	31.1	31.1	97.7	97.7	8.2	8.2	13.8		23		75				<0.2		0.8	
						7.4	0.3	16	14.9		8.2		31.1		97.7		8.2		13.6		25		75				<0.2		0.9	
IM3	Fine	Moderate	08:47	7.9	Surface	1.0	0.5	16	15.2	15.2	8.2	8.2	31.2	31.2	97.3	97.3	8.1	8.1	12.4	16.1	14	21	72	74	819430	806031	<0.2	<0.2	0.9	0.8
						1.0	0.6	16	15.2		8.2		31.2		97.3		8.1		12.9		16		72				<0.2		0.8	
					Middle	4.0	0.5	19	15.2	15.2	8.2	8.2	31.2	31.2	97.0	97.0	8.1		12.2		17		74				<0.2		0.9	
						4.0	0.5	20	15.2		8.2		31.2		97.0		8.1		12.1		16		74				<0.2		0.8	
					Bottom	6.9	0.5	22	15.2	15.2	8.2	8.2	31.2	31.2	97.2	97.2	8.1	8.1	23.3		32		75				<0.2		0.8	
						6.9	0.5	23	15.1		8.2		31.2		97.2		8.1		23.9		32		75				<0.2		0.8	
IM4	Fine	Moderate	08:55	7.4	Surface	1.0	0.6	10	15.1	15.2	8.2	8.2	31.2	31.2	97.1	97.1	8.1	8.1	13.0	16.2	16	20	71	73	819594	805053	<0.2	<0.2	0.8	0.8
						1.0	0.6	10	15.2		8.2		31.2		97.1		8.1		13.0		15		72				<0.2		0.7	
					Middle	3.7	0.6	7	15.2	15.2	8.2	8.2	31.2	31.2	97.0	97.0	8.1		16.8		18		73				<0.2		0.8	
						3.7	0.6	7	15.1		8.2		31.2		97.0		8.1		16.5		18		73				<0.2		0.8	
					Bottom	6.4	0.5	4	15.1	15.1	8.2	8.2	31.2	31.2	96.8	96.8	8.0	8.0	19.1		25		75				<0.2		0.8	
						6.4	0.5	4	15.1		8.2		31.2		96.8		8.0		19.0		27		75				<0.2		0.9	
IM5	Fine	Moderate	09:04	6.6	Surface	1.0	0.8	6	15.3	15.3	8.2	8.2	31.2	31.2	97.0	97.0	8.0	8.0	11.9	15.7	14	<u>26</u>	71	73	820561	804941	<0.2	<0.2	0.8	0.8
						1.0	0.8	6	15.3		8.2		31.2		97.0		8.0		11.8		15		72				<0.2		0.8	
					Middle	3.3	0.7	7	15.3	15.3	8.2	8.2	31.2	31.2	96.8	96.8	8.0		17.3		26		73				<0.2		0.8	
						3.3	0.7	7	15.3		8.2		31.2		96.8		8.0		17.5		28		73				<0.2		0.8	
					Bottom	5.6	0.6	3	15.3	15.3	8.2	8.2	31.2	31.2	97.0	97.1	8.0	8.0	17.7		36		75				<0.2		0.8	
						5.6	0.6	3	15.3		8.2		31.2		97.1		8.0		17.8		35		76				<0.2		0.8	
IM6	Fine	Moderate	09:12	6.4	Surface	1.0	0.4	27	15.2	15.2	8.2	8.2	31.0	31.0	97.2	97.2	8.1	8.1	12.5	12.9	15	21	71	73	821072	805853	<0.2	<0.2	0.8	0.9
						1.0	0.4	28	15.2		8.2		31.0		97.2		8.1		12.3		16		72				<0.2		0.9	
					Middle	3.2	0.4	19	15.1	15.1	8.2	8.2	31.0	31.0	97.0	97.0	8.1		13.8		23		73				<0.2		0.9	
						3.2	0.4	19	15.1		8.2		31.0		97.0		8.1		13.8		22		73				<0.2		0.9	
					Bottom	5.4	0.3	17	15.1	15.1	8.2	8.2	31.0	31.0	97.0	97.0	8.1	8.1	12.1		24		75				<0.2		1.0	
						5.4	0.3	17	15.1		8.2		31.0		97.0		8.1		12.7		23		75				<0.2		0.9	
IM7	Fine	Moderate	09:19	8.1	Surface	1.0	0.4	39	15.0	15.0	8.2	8.2	31.1	31.1	96.8	96.8	8.1	8.1	10.3	12.4	16	20	71	73	821354	806856	<0.2	<0.2	0.8	0.8
						1.0	0.4	39	14.9		8.2		31.1		96.8		8.1		10.3		17		72				<0.2		0.8	
					Middle	4.1	0.4	31	14.9	14.9	8.2	8.2	31.1	31.1	96.5	96.5	8.1		12.2		18		73				<0.2		0.8	
						4.1	0.4	33	14.9		8.2		31.1		96.5		8.1		12.4		19		73				<0.2		0.8	
					Bottom	7.1	0.3	27	14.9	14.9	8.2	8.2	31.1	31.1	96.6	96.7	8.1	8.1	14.8		24		75				<0.2		0.8	
						7.1	0.3	28	14.9		8.2		31.1		96.8		8.1		14.2		24		75				<0.2		0.8	
IM8	Cloudy	Moderate	08:52	7.9	Surface	1.0	0.3	21	15.4	15.4	8.1	8.1	28.5	28.5	97.4	97.4	8.2	8.2	18.6	20.4	21	24	72	74	821669	807816	<0.2	<0.2	1.1	1.0
						1.0	0.3	22	15.4		8.1		28.5		97.4		8.2		18.6		22		73				<0.2		1.1	
					Middle	4.0	0.2	20	15.4	15.4	8.1	8.1	28.6	28.6	98.2	98.2	8.2		20.2		25		73				<0.2		1.0	
						4.0	0.2	21	15.4		8.1		28.6		98.2		8.2		20.2		26		74				<0.2		1.0	
					Bottom	6.9	0.3	7	15.4	15.4	8.1	8.1	28.7	28.7	99.5	99.5	8.3	8.3	22.3		26		75				<0.2		1.0	
						6.9	0.3	7	15.4		8.1		28.7		99.5		8.3		22.3		25		75				<0.2		1.0	

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 01 February 18 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	08:42	7.8	Surface	1.0	0.1	352	15.5	15.5	8.0	8.0	28.9	28.9	97.9	97.9	8.2	8.2	11.3	12.3	13	13	72	74	822080	808826	<0.2	<0.2	1.0	1.0
						1.0	0.1	352	15.5		8.0		28.9		97.9		8.2		11.3		11		73				<0.2		1.0	
					Middle	3.9	0.3	348	15.5	15.5	8.0	8.0	28.9	28.9	98.5	98.5	8.2		12.4		12		74				<0.2		1.0	
						3.9	0.3	320	15.5		8.0		28.9		98.5		8.2		12.4		14		74				<0.2		0.9	
					Bottom	6.8	0.3	310	15.5	15.5	8.0	8.0	28.9	28.9	100.0	100.0	8.4	8.4	13.3		14		75				<0.2		1.0	
						6.8	0.3	323	15.5		8.0		28.9		100.0		8.4		13.3		13		74				<0.2		1.1	
IM10	Cloudy	Moderate	08:30	6.7	Surface	1.0	0.7	317	15.3	15.3	8.0	8.0	29.5	29.5	98.3	98.3	8.2	8.3	16.5	18.8	16	16	73	75	822213	809836	<0.2	<0.2	0.9	0.9
						1.0	0.8	326	15.3		8.0		29.5		98.3		8.2		16.5		16		73				<0.2		0.9	
					Middle	3.4	0.7	318	15.3	15.3	8.0	8.0	29.6	29.6	99.1	99.1	8.3		18.8		15		74				<0.2		0.9	
						3.4	0.7	328	15.3		8.0		29.6		99.1		8.3		18.8		15		74				<0.2		1.1	
					Bottom	5.7	0.4	329	15.3	15.3	8.0	8.0	29.5	29.5	100.4	100.4	8.4	8.4	21.2		15		77				<0.2		0.9	
						5.7	0.5	349	15.3		8.0		29.5		100.4		8.4		21.2		17		77				<0.2		0.9	
IM11	Cloudy	Moderate	08:18	7.0	Surface	1.0	0.5	297	15.2	15.2	8.0	8.0	29.9	29.9	97.7	97.7	8.2	8.2	17.9	18.8	18	18	73	75	821498	810571	<0.2	<0.2	0.7	0.8
						1.0	0.5	314	15.2		8.0		29.9		97.7		8.2		17.9		16		72				<0.2		0.7	
					Middle	3.5	0.5	305	15.2	15.2	8.0	8.0	29.9	29.9	98.7	98.7	8.2		18.4		17		75				<0.2		0.8	
						3.5	0.5	323	15.2		8.0		29.9		98.7		8.2		18.4		18		76				<0.2		0.7	
					Bottom	6.0	0.4	303	15.2	15.2	8.0	8.0	30.0	30.0	99.8	99.8	8.3	8.3	20.0		18		76				<0.2		0.8	
						6.0	0.5	306	15.2		8.0		30.0		99.8		8.3		20.0		18		77				<0.2		0.8	
IM12	Cloudy	Moderate	08:10	7.3	Surface	1.0	0.6	272	15.1	15.1	8.0	8.0	30.1	30.1	96.4	96.4	8.1	8.1	20.0	21.0	18	18	72	74	821143	811541	<0.2	<0.2	0.7	0.7
						1.0	0.6	287	15.1		8.0		30.1		96.4		8.1		20.0		17		73				<0.2		0.7	
					Middle	3.7	0.5	279	15.1	15.1	8.0	8.0	30.1	30.1	96.7	96.7	8.1		20.8		20		75				<0.2		0.7	
						3.7	0.6	299	15.1		8.0		30.1		96.7		8.1		20.8		18		75				<0.2		0.8	
					Bottom	6.3	0.5	283	15.1	15.1	8.0	8.0	30.0	30.0	96.7	96.7	8.1	8.1	22.3		19		75				<0.2		0.7	
						6.3	0.6	295	15.1		8.0		30.0		96.7		8.1		22.3		18		75				<0.2		0.8	
SR2	Cloudy	Moderate	07:42	3.2	Surface	1.0	0.2	103	15.0	15.0	8.0	8.0	29.8	29.8	97.3	97.3	8.2	8.2	14.9	14.7	21	21	73	74	821441	814178	<0.2	<0.2	0.7	0.7
						1.0	0.2	111	15.0		8.0		29.8		97.3		8.2		14.9		17		73				<0.2		0.7	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.2	0.1	93	15.0	15.0	8.0	8.0	30.4	30.4	98.1	98.1	8.2	8.2	14.4		25		74				<0.2		0.7	
						2.2	0.1	97	15.0		8.0		30.4		98.1		8.2		14.4		24		75				<0.2		0.7	
SR3	Cloudy	Moderate	09:01	8.7	Surface	1.0	0.4	18	15.3	15.3	8.0	8.0	27.9	27.9	96.9	96.9	8.2	8.2	18.9	18.9	12	13	-	-	822121	807555	-	-	-	-
						1.0	0.4	18	15.3		8.0		27.9		96.9		8.2		19.3		12		-				-		-	
					Middle	4.4	0.5	17	15.0	15.0	8.0	8.0	28.3	28.3	96.4	96.4	8.2		17.4		14		-				-		-	
						4.4	0.5	18	15.0		8.0		28.3		96.4		8.2		17.4		14		-				-		-	
					Bottom	7.7	0.5	12	15.1	15.1	8.0	8.0	28.5	28.5	96.8	96.8	8.2	8.2	20.2		12		-				-		-	
						7.7	0.5	12	15.1		8.0		28.5		96.8		8.2		20.2		12		-				-		-	
SR4A	Cloudy	Calm	07:54	7.8	Surface	1.0	0.2	259	15.0	15.0	8.2	8.2	30.6	30.6	94.3	94.3	7.9	7.9	4.8	4.7	10	10	-	-	817174	807824	-	-	-	-
						1.0	0.3	281	15.0		8.2		30.6		94.3		7.9		4.8		9		-				-		-	
					Middle	3.9	0.2	248	15.0	15.0	8.2	8.2	30.6	30.6	94.0	94.0	7.9		4.8		9		-				-		-	
						3.9	0.2	257	15.0		8.2		30.6		94.0		7.9		4.9		10		-				-		-	
					Bottom	6.8	0.2	241	15.0	15.0	8.2	8.2	30.6	30.6	94.2	94.2	7.9	7.9	4.6		11		-				-		-	
						6.8	0.2	250	15.0		8.2		30.6		94.2		7.9		4.5		12		-				-		-	
SR5A	Cloudy	Calm	07:37	4.7	Surface	1.0	0.4	293	15.0	15.0	8.1	8.1	30.7	30.7	94.8	94.8	7.9	7.9	4.2	4.2	9	8	-	-	816569	810703	-	-	-	-
						1.0	0.4	296	15.0		8.1		30.7		94.8		7.9		4.2		8		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.7	0.3	297	15.0	15.0	8.1	8.1	30.6	30.6	95.2	95.3	8.0	8.0	4.2		7		-				-		-	
						3.7	0.4	301	15.0		8.1		30.6		95.4		8.0		4.1		8		-				-		-	
SR6	Cloudy	Calm	07:14	3.3	Surface	1.0	0.2	245	14.9	14.9	8.1	8.1	30.7	30.7	96.7	96.7	8.1	8.1	5.5	5.6	6	10	-	-	817903	814660	-	-	-	-
						1.0	0.2	254	14.9		8.1		30.7		96.7		8.1		5.6		5		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.3	0.2	248	14.9	14.9	8.0	8.0	30.7	30.7	97.4	97.5	8.2	8.2	5.6		15		-				-		-	
						2.3	0.2	267	14.8		8.0		30.7		97.6		8.2		5.6		14		-				-		-	
SR7	Cloudy	Moderate	06:41	16.3	Surface	1.0	0.3	50	16.1	16.1	7.9	7.9	30.9	30.9	95.7	95.7	7.8	7.8	6.8	7.1	5	8	-	-	823648	823742	-	-	-	-
						1.0	0.3	50	16.1		7.9		30.9		95.7		7.8		6.8		6		-				-		-	
					Middle	8.2	0.4	38	16.1	16.1	7.9	7.9	31.2	31.2	95.8	95.8	7.8		7.7		8		-				-		-	
						8.2	0.4	40	16.1		7.9		31.2		95.8		7.8		7.7		10		-				-		-	
					Bottom	15.3	0.4	34	16.1	16.1	7.9	7.9	31.8	31.8	96.8	96.8	7.9	7.9	6.7		9		-				-		-	
						15.3	0.4	37	16.1		7.9		31.8		96.8		7.9		6.7		11		-				-		-	
SR8	Cloudy	Moderate	08:00	3.5	Surface	1.0	-	-	15.1	15.1	8.0	8.0	29.3	29.3	98.3	98.3	8.3	8.3	8.6	8.7	16	16	-	-	820246	811418	-	-	-	-
						1.0	-	-	15.1		8.0		29.3		98.3		8.3		8.6		16		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.5	-	-	15.1	15.1	8.0	8.0	30.0	30.0	98.7	98.7	8.3	8.3	8.8		14		-				-		-	
						2.5	-	-	15.1		8.0		30.0		98.7		8.3		8.8		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 03 February 18 during Mid-Ebb Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
C1	Cloudy	Moderate	14:33	8.8	Surface	1.0	0.1	234	14.6	14.6	8.1	8.1	32.1	32.0	100.9	101.1	8.4	8.5	11.6	11.5	12	14	75	77	815608	804253	<0.2	<0.2	0.6	0.7
						1.0	0.1	250	14.6		8.1		32.0		101.3		8.5		11.8		13		75				<0.2		0.6	
					Middle	4.4	0.1	172	14.6	14.6	8.1	8.1	32.0	32.0	101.2	101.3	8.5		11.0		15		77				<0.2		0.6	
						4.4	0.1	182	14.6		8.1		32.0		101.3		8.5		11.5		13		77				<0.2		0.7	
					Bottom	7.8	0.2	185	14.5	14.5	8.1	8.1	32.1	32.0	100.5	100.7	8.4	8.5	11.4		16		79				<0.2		0.7	
						7.8	0.2	203	14.5		8.1		32.0		100.8		8.5		11.4		14		79				<0.2		0.7	
C2	Cloudy	Moderate	13:29	12.1	Surface	1.0	0.1	322	14.4	14.4	8.1	8.1	31.2	31.2	99.5	99.6	8.4	8.5	8.0	10.4	10	10	73	74	825655	806917	<0.2	<0.2	1.0	1.0
						1.0	0.1	331	14.4		8.1		31.2		99.6		8.4		8.3		9		73				<0.2		1.0	
					Middle	6.1	0.3	26	14.6	14.6	8.1	8.1	31.2	31.2	100.7	100.8	8.5		14.4		10		73				<0.2		1.1	
						6.1	0.3	27	14.6		8.1		31.2		100.8		8.5		13.9		9		74				<0.2		1.1	
					Bottom	11.1	0.2	27	14.4	14.4	8.2	8.2	31.4	31.4	100.4	100.4	8.4	8.5	8.8		13		74				<0.2		1.0	
						11.1	0.2	27	14.4		8.2		31.4		100.4		8.5		8.8		11		75				<0.2		1.0	
C3	Cloudy	Moderate	15:19	12.2	Surface	1.0	0.3	58	15.4	15.4	8.1	8.1	32.1	32.1	99.3	99.3	8.2	8.3	10.4	12.3	7	9	73	75	822102	817775	<0.2	<0.2	0.6	0.6
						1.0	0.4	60	15.4		8.1		32.1		99.3		8.2		10.1		8		73				<0.2		0.6	
					Middle	6.1	0.3	60	15.3	15.3	8.1	8.1	31.9	32.0	100.5	100.6	8.3		14.8		9		75				<0.2		0.6	
						6.1	0.3	61	15.2		8.1		32.0		100.7		8.3		14.5		11		75				<0.2		0.6	
					Bottom	11.2	0.3	72	15.1	15.2	8.1	8.1	32.0	32.0	101.9	102.3	8.4	8.5	12.7		10		76				<0.2		0.7	
						11.2	0.3	74	15.2		8.1		32.0		102.6		8.5		11.5		10		77				<0.2		0.7	
IM1	Cloudy	Moderate	14:14	7.3	Surface	1.0	0.1	128	14.6	14.6	8.1	8.1	32.0	32.0	100.8	100.9	8.4	8.4	13.9	15.5	17	18	75	77	818333	806459	<0.2	<0.2	0.8	0.8
						1.0	0.1	135	14.5		8.1		32.0		101.0		8.5		13.8		15		75				<0.2		0.7	
					Middle	3.7	0.1	164	14.5	14.5	8.1	8.1	32.0	32.0	99.8	99.9	8.4		17.6		19		77				<0.2		0.8	
						3.7	0.1	179	14.5		8.1		32.0		99.9		8.4		17.7		18		77				<0.2		0.8	
					Bottom	6.3	0.1	102	14.5	14.5	8.1	8.1	32.0	32.0	101.4	101.6	8.5	8.5	14.7		21		79				<0.2		0.7	
						6.3	0.1	102	14.5		8.1		32.0		101.8		8.5		15.0		20		79				<0.2		0.7	
IM2	Cloudy	Moderate	14:08	8.2	Surface	1.0	0.1	84	14.6	14.6	8.1	8.1	32.0	32.0	99.6	99.6	8.3	8.3	19.8	17.7	17	20	75	77	818866	806187	<0.2	<0.2	0.7	0.7
						1.0	0.2	84	14.6		8.1		32.0		99.6		8.3		20.0		17		75				<0.2		0.6	
					Middle	4.1	0.1	57	14.6	14.6	8.1	8.1	32.0	32.0	99.1	99.2	8.3		17.7		20		77				<0.2		0.7	
						4.1	0.1	58	14.6		8.1		32.0		99.2		8.3		17.9		21		77				<0.2		0.6	
					Bottom	7.2	0.1	341	14.5	14.5	8.1	8.1	32.0	32.0	100.5	100.6	8.4	8.4	15.2		22		78				<0.2		0.6	
						7.2	0.1	314	14.5		8.1		32.0		100.6		8.4		15.5		22		79				<0.2		0.7	
IM3	Cloudy	Moderate	14:01	8.5	Surface	1.0	0.1	357	14.6	14.6	8.1	8.1	32.0	32.0	99.5	99.6	8.3	8.3	17.8	19.2	26	27	75	77	819382	806024	<0.2	<0.2	0.7	0.7
						1.0	0.1	328	14.6		8.1		32.0		99.6		8.3		17.6		27		75				<0.2		0.7	
					Middle	4.3	0.1	36	14.6	14.6	8.1	8.1	32.0	32.0	99.6	99.7	8.3		19.1		27		77				<0.2		0.8	
						4.3	0.1	39	14.6		8.1		32.0		99.7		8.3		19.1		26		77				<0.2		0.7	
					Bottom	7.5	0.1	17	14.5	14.5	8.1	8.1	31.9	31.9	100.9	101.0	8.5	8.5	20.8		27		79				<0.2		0.7	
						7.5	0.2	17	14.5		8.1		31.9		101.1		8.5		20.8		26		79				<0.2		0.7	
IM4	Cloudy	Moderate	13:54	7.8	Surface	1.0	0.3	17	14.5	14.5	8.1	8.1	31.9	31.9	99.1	99.1	8.3	8.3	14.1	15.8	19	22	75	77	819572	805027	<0.2	<0.2	0.7	0.7
						1.0	0.3	17	14.4		8.1		31.9		99.1		8.3		14.3		19		75				<0.2		0.7	
					Middle	3.9	0.3	25	14.4	14.4	8.1	8.1	31.8	31.8	98.8	98.8	8.3		15.7		20		77				<0.2		0.8	
						3.9	0.3	25	14.4		8.1		31.8		98.8		8.3		15.4		19		77				<0.2		0.8	
					Bottom	6.8	0.0	314	14.4	14.4	8.1	8.1	31.9	31.9	100.0	100.1	8.4	8.4	17.6		27		79				<0.2		0.6	
						6.8	0.0	338	14.4		8.1		31.9		100.1		8.4		17.9		26		79				<0.2		0.7	
IM5	Cloudy	Moderate	13:45	7.3	Surface	1.0	0.1	332	14.6	14.6	8.1	8.1	31.3	31.3	99.5	99.6	8.4	8.4	18.4	19.1	26	26	75	77	820562	804929	<0.2	<0.2	0.9	0.8
						1.0	0.1	349	14.6		8.1		31.3		99.6		8.4		18.5		27		75				<0.2		0.8	
					Middle	3.7	0.2	33	14.6	14.6	8.1	8.1	32.0	32.0	99.3	99.3	8.3		19.7		26		77				<0.2		0.7	
						3.7	0.2	34	14.6		8.1		32.0		99.3		8.3		19.6		25		77				<0.2		0.8	
					Bottom	6.3	0.1	11	14.5	14.5	8.1	8.1	31.9	31.9	99.9	100.0	8.4	8.4	19.1		27		79				<0.2		0.8	
						6.3	0.1	11	14.5		8.1		31.9		100.1		8.4		19.1		27		79				<0.2		0.7	
IM6	Cloudy	Moderate	13:37	7.0	Surface	1.0	0.1	157	14.4	14.4	8.1	8.1	31.8	31.8	99.2	99.2	8.3	8.4	18.2	17.5	24	25	75	77	821060	805833	<0.2	<0.2	0.9	1.0
						1.0	0.1	163	14.4		8.1		31.8		99.2		8.3		18.2		24		75				<0.2		1.2	
					Middle	3.5	0.1	176	14.4	14.4	8.1	8.1	31.8	31.8	99.6	99.7	8.4		15.9		26		77				<0.2		0.9	
						3.5	0.1	181	14.4		8.1		31.8		99.7		8.4		16.0		24		77				<0.2		1.1	
					Bottom	6.0	0.0	50	14.3	14.3	8.1	8.1	31.8	31.8	100.6	100.7	8.5	8.5	18.6		26		79				<0.2		0.8	
						6.0	0.0	51	14.3		8.1		31.8		100.7		8.5		18.3		26		79				<0.2		0.8	
IM7	Cloudy	Moderate	13:27	8.7	Surface	1.0	0.2	116	14.1	14.1	8.2	8.2	31.6	31.6	99.5	99.5	8.4	8.4	12.0	12.3	18	18	75	77	821369	806825	<0.2	<0.2	0.8	0.9
						1.0	0.2	122	14.1		8.2		31.6		99.5		8.4		12.2		17		75				<0.2		0.9	
					Middle	4.4	0.0	57	14.0	14.0	8.1	8.1	31.6	31.6	99.5	99.5	8.4		12.9		18		77				<0.2		1.0	
						4.4	0.0	58	14.0		8.1		31.6		99.5		8.4		12.8		17		77				<0.2		1.0	
					Bottom	7.7	0.2	74	14.1	14.1	8.1	8.1	31.6	31.6	99.0	99.0	8.4	8.4	12.0		19		79				<0.2		0.9	
						7.7	0.2	77	14.1		8.1		31.6		99.0		8.4		12.0		19		78				<0.2		1.0	
IM8	Cloudy	Moderate	13:54	8.2	Surface	1.0	0.3	63	14.1	14.1	8.1	8.1	31.9	31.9	99.7	99.7	8.4	8.4	10.6	13.7	18	19	73	75	821682	807867	<0.2	<0.2	0.8	0.8
						1.0	0.3	66	14.1		8.2		31.9		99.7		8.4		11.0		18		73				<0.2		0.9	
					Middle	4.1	0.3	66	14.2	14.2	8.1	8.1	31.9	31.9	99.9	99.9	8.4		14.7		18		75				<0.2		0.8	
						4.1	0.3	67	14.2		8.2		31.9		99.9		8.4		14.6		17		75				<0.2		0.8	
					Bottom	7.2	0.3	65	14.2	14.2	8.1	8.1	31.8	31.8	105.3	105.5	8.9	8.9	15.6		21		76				<0.2		0.8	
						7.2	0.3	69	14.2		8.1		31.8		105.6		8.9		15.6		20		76				<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**

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Water Quality Monitoring

Water Quality Monitoring Results on 03 February 18 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	14:04	7.3	Surface	1.0	0.2	103	14.0	14.0	8.2	8.2	31.6	31.6	100.1	100.1	8.5	8.5	6.8	13.0	12	13	73	74	822104	808787	<0.2	<0.2	0.8	0.9
						1.0	0.2	106	14.0		8.2		31.6		100.1		8.5		7.0		11		73				<0.2		0.9	
					Middle	3.7	0.3	96	14.1	14.1	8.2	8.2	31.6	31.6	100.4	100.4	8.5		15.2		14		73				<0.2		0.8	
						3.7	0.3	103	14.1		8.2		31.6		100.4		8.5		15.2		13		74				<0.2		0.9	
					Bottom	6.3	0.3	110	14.1	14.1	8.2	8.2	31.6	31.6	101.1	101.2	8.6	8.6	17.0		15		74				<0.2		0.9	
						6.3	0.3	113	14.1		8.2		31.6		101.3		8.6		17.0		15		74				<0.2		0.9	
IM10	Cloudy	Moderate	14:12	7.3	Surface	1.0	0.4	94	14.3	14.3	8.2	8.2	31.6	31.6	100.9	101.0	8.5	8.5	6.8	8.5	11	11	74	75	822240	809833	<0.2	<0.2	0.8	0.9
						1.0	0.4	102	14.3		8.2		31.6		101.1		8.5		6.9		12		73				<0.2		0.8	
					Middle	3.7	0.4	92	14.5	14.5	8.2	8.2	31.6	31.6	101.1	101.2	8.5		11.3		11		74				<0.2		0.9	
						3.7	0.4	93	14.5		8.2		31.6		101.2		8.5		11.3		12		75				<0.2		0.9	
					Bottom	6.3	0.3	99	14.3	14.3	8.2	8.2	31.6	31.6	101.7	101.8	8.6	8.6	7.3		11		76				<0.2		0.8	
						6.3	0.4	100	14.3		8.2		31.6		101.9		8.6		7.3		10		77				<0.2		0.9	
IM11	Cloudy	Moderate	14:25	7.8	Surface	1.0	0.4	92	14.3	14.3	8.2	8.2	31.6	31.6	101.7	101.7	8.6	8.6	14.9	13.8	13	15	74	75	821513	810569	<0.2	<0.2	0.8	0.8
						1.0	0.5	96	14.3		8.2		31.6		101.7		8.6		15.2		13		73				<0.2		0.8	
					Middle	3.9	0.4	87	14.3	14.3	8.2	8.2	31.6	31.6	102.0	102.0	8.6		13.4		14		75				<0.2		0.8	
						3.9	0.4	90	14.3		8.2		31.6		102.0		8.6		13.2		16		75				<0.2		0.9	
					Bottom	6.8	0.4	86	14.1	14.1	8.2	8.2	31.7	31.7	104.0	104.1	8.8	8.8	13.2		16		77				<0.2		0.8	
						6.8	0.4	87	14.1		8.2		31.7		104.2		8.8		12.9		16		77				<0.2		0.8	
IM12	Cloudy	Moderate	14:32	8.7	Surface	1.0	0.4	98	14.3	14.3	8.1	8.1	31.8	31.8	100.3	100.4	8.4	8.5	7.4	13.4	7	8	72	74	821146	811509	<0.2	<0.2	0.7	0.7
						1.0	0.4	104	14.3		8.1		31.8		100.4		8.4		7.4		7		73				<0.2		0.6	
					Middle	4.4	0.4	103	14.5	14.5	8.1	8.1	31.7	31.7	102.0	102.2	8.6		14.5		8		74				<0.2		0.7	
						4.4	0.4	104	14.5		8.1		31.7		102.4		8.6		14.3		8		75				<0.2		0.7	
					Bottom	7.7	0.3	100	14.3	14.3	8.1	8.1	31.7	31.7	104.9	105.0	8.8	8.9	18.0		8		76				<0.2		0.8	
						7.7	0.3	106	14.3		8.1		31.7		105.1		8.9		18.6		8		76				<0.2		0.8	
SR2	Cloudy	Moderate	14:58	4.4	Surface	1.0	0.4	90	14.7	14.7	8.1	8.1	32.0	32.0	101.4	101.5	8.5	8.5	8.2	10.1	10	10	73	74	821465	814180	<0.2	<0.2	0.7	0.7
						1.0	0.4	90	14.7		8.1		32.0		101.5		8.5		8.0		10		73				<0.2		0.7	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.4	0.3	96	14.9	14.9	8.1	8.1	31.8	31.7	104.3	104.6	8.7	8.7	12.1		9		75				<0.2		0.6	
						3.4	0.3	103	14.9		8.1		31.7		104.8		8.7		12.2		10		75				<0.2		0.6	
SR3	Cloudy	Moderate	13:49	9.1	Surface	1.0	0.3	73	14.1	14.1	8.1	8.1	31.6	31.6	100.0	100.0	8.5	8.5	8.1	13.1	13	14	-	-	822140	807549	-	-	-	-
						1.0	0.3	74	14.1		8.1		31.6		100.0		8.5		8.3		13		-				-		-	
					Middle	4.6	0.3	75	14.1	14.1	8.1	8.1	31.7	31.7	100.0	100.0	8.5		14.5		12		-				-		-	
						4.6	0.3	79	14.1		8.1		31.7		100.0		8.5		15.1		12		-				-		-	
					Bottom	8.1	0.3	73	14.1	14.1	8.1	8.1	31.6	31.6	100.0	100.0	8.5	8.5	16.2		16		-				-		-	
						8.1	0.3	78	14.1		8.1		31.6		100.0		8.5		16.2		18		-				-		-	
SR4A	Cloudy	Moderate	14:59	9.1	Surface	1.0	0.3	81	14.2	14.2	8.2	8.2	32.0	32.0	98.6	98.6	8.3	8.3	9.9	11.1	14	15	-	-	817199	807825	-	-	-	-
						1.0	0.3	82	14.2		8.2		32.1		98.5		8.3		9.8		15		-				-		-	
					Middle	4.6	0.3	77	14.1	14.1	8.2	8.2	31.8	31.8	97.9	97.9	8.3		13.1		14		-				-		-	
						4.6	0.3	77	14.1		8.2		31.8		97.9		8.3		13.0		14		-				-		-	
					Bottom	8.1	0.3	73	14.3	14.3	8.2	8.2	31.9	31.9	98.5	98.5	8.3	8.3	10.5		14		-				-		-	
						8.1	0.3	74	14.3		8.2		31.9		98.5		8.3		10.5		16		-				-		-	
SR5A	Cloudy	Calm	15:17	5.2	Surface	1.0	0.1	34	14.1	14.1	8.2	8.2	31.2	31.2	99.5	99.6	8.4	8.5	4.8	5.9	6	7	-	-	816599	810675	-	-	-	-
						1.0	0.1	36	14.1		8.2		31.2		99.6		8.5		5.0		5		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.2	0.1	32	13.9	13.9	8.2	8.2	31.2	31.2	99.8	99.9	8.5	8.5	6.8		9		-				-		-	
						4.2	0.1	34	13.9		8.2		31.2		99.9		8.5		6.8		9		-				-		-	
SR6	Cloudy	Calm	15:38	3.8	Surface	1.0	0.1	36	14.0	14.0	8.2	8.2	31.1	31.1	100.2	100.2	8.5	8.5	3.6	3.4	4	6	-	-	817879	814654	-	-	-	-
						1.0	0.2	37	14.0		8.2		31.1		100.2		8.5		3.6		4		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.8	0.2	31	13.8	13.8	8.2	8.2	31.1	31.1	101.3	101.4	8.7	8.7	3.2		8		-				-		-	
						2.8	0.2	31	13.8		8.2		31.1		101.4		8.7		3.3		7		-				-		-	
SR7	Cloudy	Moderate	15:48	16.5	Surface	1.0	0.2	87	15.3	15.3	8.1	8.1	32.2	32.2	96.9	96.9	8.0	8.1	4.4	10.0	10	12	-	-	823662	823750	-	-	-	-
						1.0	0.3	88	15.3		8.1		32.2		96.9		8.0		4.5		9		-				-		-	
					Middle	8.3	0.1	82	15.5	15.5	8.1	8.1	32.1	32.1	100.1	100.3	8.2		9.7		12		-				-		-	
						8.3	0.1	82	15.5		8.1		32.1		100.4		8.2		9.3		14		-				-		-	
					Bottom	15.5	0.1	96	15.3	15.3	8.1	8.1	32.2	32.2	100.9	101.0	8.3	8.3	15.5		12		-				-		-	
						15.5	0.1	96	15.3		8.1		32.2		101.1		8.3		16.4		12		-				-		-	
SR8	Cloudy	Moderate	14:42	4.0	Surface	1.0	-	-	14.4	14.4	8.2	8.2	31.7	31.7	101.6	101.7	8.5	8.6	11.6	11.5	16	17	-	-	820246	811418	-	-	-	-
						1.0	-	-	14.4		8.2		31.7		101.7		8.6		11.6		16		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.0	-	-	14.3	14.3	8.2	8.2	31.7	31.7	103.2	103.3	8.7	8.7	11.3		16		-				-		-	
						3.0	-	-	14.3		8.2		31.7		103.4		8.7		11.3		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 03 February 18 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
C1	Cloudy	Moderate	09:52	8.7	Surface	1.0	0.7	53	14.4	14.4	8.2	8.2	31.8	31.8	98.3	98.3	8.3	8.3	12.5	13.0	14	17	75	77	815638	804269	<0.2	<0.2	0.8	0.8
						1.0	0.8	53	14.4		8.2		31.8		98.3		8.3		12.2		15		75				<0.2		1.0	
					Middle	4.4	0.6	48	14.3	14.3	8.2	8.2	31.8	31.8	98.6	98.6	8.3		11.5		14		77				<0.2		0.8	
						4.4	0.6	49	14.3		8.2		31.8		98.6		8.3		11.7		16		77				<0.2		0.7	
					Bottom	7.7	0.6	54	14.2	14.2	8.2	8.2	31.7	31.7	98.9	99.0	8.4	8.4	15.0		21		79				<0.2		0.8	
						7.7	0.7	56	14.2		8.2		31.7		99.0		8.4		14.9		23		79				<0.2		0.8	
C2	Cloudy	Moderate	10:37	11.2	Surface	1.0	0.4	340	14.5	14.6	8.1	8.1	31.2	31.1	99.6	99.7	8.4	8.5	14.8	13.6	13	14	72	73	825658	806955	<0.2	<0.2	1.0	1.0
						1.0	0.4	344	14.6		8.1		31.1		99.8		8.4		14.8		15		72				<0.2		1.0	
					Middle	5.6	0.5	354	14.7	14.7	8.1	8.1	31.1	31.1	101.5	101.7	8.5		11.5		14		73				<0.2		1.0	
						5.6	0.5	326	14.7		8.1		31.1		101.8		8.5		11.5		13		73				<0.2		1.2	
					Bottom	10.2	0.5	341	14.6	14.6	8.1	8.1	31.2	31.2	102.3	102.5	8.6	8.6	14.4		14		75				<0.2		1.0	
						10.2	0.5	314	14.6		8.1		31.2		102.6		8.6		14.4		14		74				<0.2		1.0	
C3	Cloudy	Moderate	08:43	11.1	Surface	1.0	0.5	274	14.4	14.4	8.1	8.1	31.9	31.9	98.4	98.5	8.3	8.4	7.8	10.8	12	14	73	74	822089	817800	<0.2	<0.2	0.7	0.7
						1.0	0.5	291	14.4		8.1		31.9		98.5		8.3		8.3		10		73				<0.2		0.7	
					Middle	5.6	0.5	279	14.9	14.9	8.1	8.1	31.8	31.8	101.8	102.0	8.5		11.7		12		75				<0.2		0.7	
						5.6	0.5	301	14.9		8.1		31.8		102.1		8.5		11.5		11		75				<0.2		0.8	
					Bottom	10.1	0.4	280	14.7	14.7	8.1	8.1	31.9	31.9	99.9	100.0	8.3	8.4	12.7		18		74				<0.2		0.7	
						10.1	0.4	282	14.7		8.1		31.9		100.1		8.4		12.5		18		74				<0.2		0.8	
IM1	Cloudy	Moderate	10:10	7.2	Surface	1.0	0.4	26	14.1	14.1	8.2	8.2	31.5	31.5	98.7	98.7	8.4	8.4	13.7	14.0	20	22	75	78	818343	806436	<0.2	<0.2	1.2	1.1
						1.0	0.4	26	14.1		8.2		31.5		98.7		8.4		13.6		20		76				<0.2		1.0	
					Middle	3.6	0.5	17	14.0	14.0	8.2	8.2	31.5	31.5	98.6	98.6	8.4		14.0		23		77				<0.2		1.2	
						3.6	0.5	17	14.0		8.2		31.5		98.6		8.4		14.1		22		78				<0.2		1.1	
					Bottom	6.2	0.3	22	13.9	13.9	8.3	8.3	31.5	31.5	98.2	98.2	8.4	8.4	14.2		24		79				<0.2		1.2	
						6.2	0.3	24	13.9		8.3		31.5		98.2		8.4		14.3		25		80				<0.2		1.0	
IM2	Cloudy	Moderate	10:15	8.3	Surface	1.0	0.4	20	14.1	14.1	8.2	8.2	31.4	31.4	98.8	98.8	8.4	8.4	11.1	12.0	14	18	76	78	818860	806203	<0.2	<0.2	1.0	1.0
						1.0	0.5	20	14.1		8.2		31.4		98.8		8.4		11.3		14		76				<0.2		1.0	
					Middle	4.2	0.5	18	14.0	14.0	8.2	8.2	31.5	31.5	98.6	98.6	8.4		11.6		20		77				<0.2		1.0	
						4.2	0.5	18	14.0		8.2		31.5		98.5		8.4		11.7		18		78				<0.2		1.0	
					Bottom	7.3	0.4	28	13.9	13.9	8.2	8.2	31.4	31.4	98.5	98.6	8.4	8.4	13.1		22		80				<0.2		1.0	
						7.3	0.4	29	13.9		8.2		31.4		98.6		8.4		13.1		20		80				<0.2		1.0	
IM3	Cloudy	Moderate	10:25	8.0	Surface	1.0	0.5	21	14.1	14.1	8.2	8.2	31.4	31.4	98.7	98.7	8.4	8.4	9.9	12.5	16	18	75	78	819431	806044	<0.2	<0.2	1.1	1.1
						1.0	0.6	22	14.1		8.2		31.4		98.7		8.4		9.9		16		76				<0.2		1.2	
					Middle	4.0	0.5	20	14.0	14.0	8.2	8.2	31.3	31.3	98.9	98.9	8.4		14.4		19		78				<0.2		1.1	
						4.0	0.5	20	14.0		8.2		31.3		98.8		8.4		14.5		18		78				<0.2		1.0	
					Bottom	7.0	0.4	18	13.9	13.9	8.2	8.2	31.4	31.4	98.8	98.9	8.4	8.4	13.0		19		80				<0.2		1.1	
						7.0	0.4	18	13.9		8.2		31.4		98.9		8.4		13.1		19		79				<0.2		1.1	
IM4	Cloudy	Moderate	10:32	7.6	Surface	1.0	0.5	0	14.1	14.1	8.2	8.2	31.5	31.5	98.8	98.8	8.4	8.4	14.9	17.2	23	27	76	78	819567	805012	<0.2	<0.2	0.9	1.1
						1.0	0.5	0	14.1		8.2		31.5		98.8		8.4		14.9		23		76				<0.2		1.0	
					Middle	3.8	0.6	14	14.1	14.1	8.2	8.2	31.5	31.5	99.2	99.2	8.4		15.8		26		78				<0.2		1.1	
						3.8	0.6	14	14.1		8.2		31.5		99.2		8.4		15.8		27		78				<0.2		1.1	
					Bottom	6.6	0.4	22	14.0	14.0	8.2	8.2	31.5	31.5	98.9	99.0	8.4	8.4	20.9		29		79				<0.2		1.3	
						6.6	0.4	22	14.0		8.2		31.5		99.0		8.4		20.7		32		79				<0.2		1.3	
IM5	Cloudy	Moderate	10:40	6.8	Surface	1.0	0.7	11	14.1	14.1	8.2	8.2	31.3	31.3	99.5	99.6	8.4	8.4	15.4	16.3	17	21	76	78	820586	804912	<0.2	<0.2	1.0	1.0
						1.0	0.7	11	14.1		8.2		31.3		99.6		8.4		15.6		16		76				<0.2		1.0	
					Middle	3.4	0.6	9	14.2	14.2	8.2	8.2	31.3	31.3	98.6	98.6	8.4		14.6		20		78				<0.2		1.0	
						3.4	0.7	9	14.2		8.2		31.3		98.6		8.4		14.7		22		78				<0.2		1.0	
					Bottom	5.8	0.5	14	14.0	14.0	8.2	8.2	31.4	31.4	98.6	98.7	8.4	8.4	18.6		27		80				<0.2		1.0	
						5.8	0.5	14	14.0		8.2		31.4		98.8		8.4		18.8		26		80				<0.2		1.1	
IM6	Cloudy	Moderate	10:48	6.7	Surface	1.0	0.4	20	14.4	14.4	8.2	8.2	31.4	31.4	99.0	99.1	8.3	8.3	9.9	12.7	16	19	76	78	821081	805853	<0.2	<0.2	1.1	1.0
						1.0	0.4	21	14.4		8.2		31.4		99.1		8.4		9.9		16		76				<0.2		1.1	
					Middle	3.4	0.4	26	14.5	14.5	8.2	8.2	31.3	31.3	98.2	98.3	8.3		13.4		16		78				<0.2		1.0	
						3.4	0.4	27	14.5		8.2		31.3		98.3		8.3		13.5		18		78				<0.2		1.0	
					Bottom	5.7	0.3	22	14.4	14.4	8.2	8.2	31.5	31.5	98.0	98.1	8.3	8.3	14.5		23		80				<0.2		1.0	
						5.7	0.3	23	14.4		8.2		31.5		98.1		8.3		14.7		24		80				<0.2		0.9	
IM7	Cloudy	Moderate	10:58	8.3	Surface	1.0	0.3	36	14.2	14.2	8.2	8.2	31.5	31.5	98.1	98.1	8.3	8.3	9.0	10.7	15	18	75	78	821330	806824	<0.2	<0.2	0.8	0.9
						1.0	0.3	38	14.2		8.2		31.5		98.1		8.3		9.1		15		76				<0.2		0.9	
					Middle	4.2	0.2	34	14.2	14.2	8.2	8.2	31.6	31.6	97.9	97.9	8.3		10.0		18		78				<0.2		0.8	
						4.2	0.3	36	14.1		8.2		31.6		97.8		8.3		10.2		19		78				<0.2		0.9	
					Bottom	7.3	0.1	29	14.0	14.0	8.2	8.2	31.5	31.5	97.7	97.8	8.3	8.3	13.1		19		79				<0.2		0.9	
						7.3	0.1	31	14.0		8.2		31.5		97.8		8.3		12.9		19		80				<0.2		0.9	
IM8	Cloudy	Moderate	10:10	7.8	Surface	1.0	0.2	36	14.5	14.6	8.2	8.2	31.4	31.4	99.0	99.0	8.3	8.4	12.3	15.1	22	22	72	74	821721	807857	<0.2	<0.2	1.0	1.0
						1.0	0.2	36	14.6		8.2		31.4		99.0		8.3		13.1		22		73				<0.2		0.9	
					Middle	3.9	0.2	24	14.6	14.6	8.2	8.2	31.4	31.4	100.3	100.4	8.4		15.5		21		74				<0.2		0.9	
						3.9	0.2	25	14.6		8.2		31.4		100.4		8.4		15.5		21		74				<0.2		0.9	
					Bottom	6.8	0.3	14	14.5	14.5	8.2	8.2	31.3	31.3	102.0	102.2	8.6	8.6	17.2		23		75				<0.2		1.0	
						6.8	0.3	15	14.5		8.2		31.3		102.3		8.6		17.2		24		75				<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 03 February 18 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
IM9	Cloudy	Moderate	10:02	7.0	Surface	1.0	0.1	341	14.3	14.3	8.2	8.2	31.3	31.3	99.8	99.8	8.4	8.5	14.6	15.1	19	18	72	74	822084	808786	<0.2	<0.2	1.2	1.1
						1.0	0.1	355	14.3		8.2		31.3		99.7		8.4		14.6		18		73				<0.2		1.1	
					Middle	3.5	0.1	284	14.4	14.4	8.1	8.1	31.2	31.2	100.9	101.0	8.5		10.4		17		74				<0.2		1.1	
						3.5	0.1	296	14.4		8.1		31.2		101.1		8.5		10.5		19		74				<0.2		1.0	
					Bottom	6.0	0.2	326	14.4	14.5	8.1	8.1	31.2	31.2	103.5	103.7	8.7	8.8	20.2		18		75				<0.2		1.0	
						6.0	0.2	345	14.5		8.1		31.2		103.8		8.8		20.2		18		75				<0.2		1.1	
IM10	Cloudy	Moderate	09:54	8.1	Surface	1.0	0.5	316	14.0	14.1	8.1	8.1	31.6	31.6	99.4	99.4	8.4	8.5	15.0	16.8	20	23	72	74	822213	809829	<0.2	<0.2	0.9	0.9
						1.0	0.5	324	14.1		8.1		31.6		99.4		8.4		14.8		20		73				<0.2		0.8	
					Middle	4.1	0.4	311	14.2	14.2	8.1	8.1	31.6	31.6	100.1	100.2	8.5		13.3		21		75				<0.2		0.8	
						4.1	0.4	327	14.2		8.1		31.6		100.3		8.5		13.3		21		74				<0.2		1.2	
					Bottom	7.1	0.5	300	14.2	14.2	8.1	8.1	31.7	31.7	101.0	101.1	8.5	8.5	22.5		27		75				<0.2		1.0	
						7.1	0.5	300	14.1		8.1		31.8		101.1		8.5		21.9		28		76				<0.2		0.9	
IM11	Cloudy	Moderate	09:41	7.3	Surface	1.0	0.6	292	14.2	14.3	8.1	8.1	31.6	31.6	99.5	99.6	8.4	8.5	14.3	16.2	22	24	73	74	821516	810515	<0.2	<0.2	0.9	0.9
						1.0	0.6	299	14.3		8.1		31.6		99.6		8.4		14.3		22		72				<0.2		0.8	
					Middle	3.7	0.5	298	14.3	14.3	8.1	8.1	31.6	31.6	101.3	101.4	8.5		19.1		24		75				<0.2		0.9	
						3.7	0.5	300	14.3		8.1		31.6		101.4		8.6		19.3		25		76				<0.2		0.9	
					Bottom	6.3	0.4	299	14.1	14.1	8.1	8.1	31.6	31.6	101.7	101.8	8.6	8.6	14.1		26		75				<0.2		0.9	
						6.3	0.4	308	14.1		8.1		31.6		101.9		8.6		15.9		27		75				<0.2		1.0	
IM12	Cloudy	Moderate	09:33	7.1	Surface	1.0	0.6	271	14.3	14.3	8.1	8.1	31.6	31.6	100.3	100.4	8.5	8.6	16.5	16.3	24	24	72	74	821172	811516	<0.2	<0.2	0.8	0.9
						1.0	0.7	273	14.3		8.1		31.5		100.4		8.5		17.1		22		72				<0.2		0.8	
					Middle	3.6	0.6	277	14.1	14.1	8.1	8.1	31.7	31.7	101.8	101.9	8.6		17.2		25		75				<0.2		0.9	
						3.6	0.6	299	14.0		8.1		31.8		102.0		8.6		17.7		23		75				<0.2		0.8	
					Bottom	6.1	0.4	283	14.1	14.1	8.1	8.1	31.7	31.7	101.9	102.0	8.6	8.6	14.6		23		75				<0.2		0.9	
						6.1	0.5	294	14.1		8.1		31.7		102.1		8.6		14.6		24		75				<0.2		0.9	
SR2	Cloudy	Moderate	09:04	3.2	Surface	1.0	0.1	120	14.2	14.2	8.1	8.1	31.8	31.8	100.2	100.3	8.5	8.5	13.3	14.3	26	32	73	74	821446	814141	<0.2	<0.2	0.9	0.9
						1.0	0.2	130	14.2		8.1		31.8		100.3		8.5		13.3		26		73				<0.2		0.9	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.2	0.1	95	14.1	14.1	8.1	8.1	31.7	31.7	100.8	100.9	8.5	8.5	15.2		39		74				<0.2		1.0	
						2.2	0.1	104	14.1		8.1		31.7		101.0		8.5		15.2		37		74				<0.2		0.9	
SR3	Cloudy	Moderate	10:16	8.5	Surface	1.0	0.2	7	14.3	14.3	8.1	8.1	31.3	31.3	100.6	100.7	8.5	8.6	10.1	13.9	14	16	-	-	822150	807594	-	-	-	-
						1.0	0.2	7	14.3		8.1		31.3		100.8		8.5		10.3		13		-				-		-	
					Middle	4.3	0.3	18	14.3	14.3	8.1	8.1	31.3	31.3	103.5	103.7	8.7		14.3		16		-				-		-	
						4.3	0.3	19	14.3		8.1		31.3		103.9		8.8		14.9		16		-				-		-	
					Bottom	7.5	0.4	2	14.3	14.3	8.1	8.1	31.0	31.0	107.6	107.9	9.1	9.1	16.9		19		-				-		-	
						7.5	0.4	2	14.3		8.1		31.0		108.1		9.1		16.7		20		-				-		-	
SR4A	Cloudy	Moderate	09:32	8.4	Surface	1.0	0.2	248	14.1	14.1	8.2	8.2	31.9	31.9	98.8	98.9	8.4	8.4	9.9	10.1	16	15	-	-	817174	807834	-	-	-	-
						1.0	0.2	251	14.1		8.2		31.9		98.9		8.4		10.2		15		-				-		-	
					Middle	4.2	0.2	261	14.3	14.3	8.2	8.2	32.0	32.0	98.7	98.7	8.3		10.3		15		-				-		-	
						4.2	0.2	281	14.2		8.2		32.0		98.7		8.3		10.3		16		-				-		-	
					Bottom	7.4	0.2	267	14.1	14.1	8.2	8.2	31.9	31.9	98.5	98.5	8.3	8.3	9.9		14		-				-		-	
						7.4	0.2	279	14.1		8.2		31.9		98.5		8.3		10.0		15		-				-		-	
SR5A	Cloudy	Calm	09:13	4.0	Surface	1.0	0.2	315	13.9	13.9	8.2	8.2	31.2	31.2	97.1	97.1	8.3	8.3	8.4	7.3	8	8	-	-	816593	810686	-	-	-	-
						1.0	0.3	341	13.9		8.2		31.2		97.1		8.3		8.4		8		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.0	0.2	345	13.8	13.8	8.2	8.2	31.3	31.3	97.1	97.1	8.3	8.3	6.1		8		-				-		-	
						3.0	0.2	317	13.8		8.2		31.3		97.1		8.3		6.2		8		-				-		-	
SR6	Cloudy	Calm	08:52	3.6	Surface	1.0	0.2	245	13.9	13.9	8.0	8.0	31.4	31.4	97.7	97.7	8.3	8.3	7.0	6.4	10	11	-	-	817914	814643	-	-	-	-
						1.0	0.2	246	13.9		8.0		31.4		97.7		8.3		7.0		9		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.6	0.2	246	13.8	13.8	8.0	8.0	31.4	31.4	98.0	98.1	8.4	8.4	5.6		12		-				-		-	
						2.6	0.2	246	13.8		8.0		31.4		98.2		8.4		5.8		12		-				-		-	
SR7	Cloudy	Moderate	08:12	16.2	Surface	1.0	0.2	52	15.2	15.2	8.0	8.0	32.1	32.1	97.3	97.4	8.0	8.1	4.8	6.4	9	11	-	-	823663	823764	-	-	-	-
						1.0	0.2	55	15.2		8.0		32.1		97.4		8.0		5.0		8		-				-		-	
					Middle	8.1	0.3	47	15.0	15.0	8.0	8.0	32.2	32.2	98.0	98.1	8.1		6.7		13		-				-		-	
						8.1	0.3	47	15.0		8.0		32.2		98.1		8.1		6.8		11		-				-		-	
					Bottom	15.2	0.4	41	14.8	14.8	8.0	8.0	31.9	31.8	97.9	97.9	8.2	8.2	7.5		13		-				-		-	
						15.2	0.5	44	14.8		8.0		31.8		97.9		8.2		7.5		14		-				-		-	
SR8	Cloudy	Moderate	09:22	4.2	Surface	1.0	-	-	14.4	14.4	8.1	8.1	31.5	31.5	100.7	100.8	8.5	8.5	16.1	15.5	11	14	-	-	820246	811418	-	-	-	-
						1.0	-	-	14.4		8.1		31.5		100.8		8.5		16.5		12		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.2	-	-	14.3	14.3	8.1	8.1	31.5	31.5	102.2	102.3	8.6	8.6	15.0		15		-				-		-	
						3.2	-	-	14.3		8.1		31.5		102.4		8.6		14.5		17		-				-		-	

DA: Depth-Averaged

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

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

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

Water Quality Monitoring

Water Quality Monitoring Results on 06 February 18 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	Average	DA	Value	DA
C1	Cloudy	Moderate	16:56	8.5	Surface	1.0	0.1	212	14.0	14.0	8.0	8.0	28.8	28.8	99.1	99.1	8.6	8.6	8.0	8.9	9	10	72	74	815630	804268	<0.2	<0.2	<0.2	0.6	0.6
						1.0	0.1	214	14.0		8.0		28.8		99.1		8.6		8.1		9		72				<0.2			0.6	
					Middle	4.3	0.1	212	14.0	14.0	7.9	7.9	28.8	28.8	98.9	98.9	8.5		9.1		10		73				<0.2	<0.2		0.6	
						4.3	0.1	218	14.0		7.9		28.8		98.9		8.5		9.2		8		74				<0.2			0.5	
					Bottom	7.5	0.2	220	14.0	14.0	7.9	7.9	28.8	28.8	99.2	99.2	8.6	8.6	9.7		12		75				<0.2	<0.2		0.6	
						7.5	0.2	226	14.0		7.9		28.8		99.2		8.6		9.5		10		76				<0.2			0.6	
C2	Fine	Moderate	15:45	12.8	Surface	1.0	0.2	23	14.4	14.4	8.0	8.0	28.3	28.3	99.5	99.5	8.5	8.5	8.9	10.6	7	10	72	73	825669	806968	<0.2	<0.2	<0.2	0.9	0.8
						1.0	0.2	25	14.4		8.0		28.3		99.5		8.5		8.9		6		72				<0.2			0.8	
					Middle	6.4	0.2	37	14.0	14.0	8.0	8.0	28.4	28.4	98.8	98.8	8.5		10.8		12		73				<0.2	<0.2		0.9	
						6.4	0.2	38	14.0		8.0		28.4		98.8		8.5		10.8		10		73				<0.2			0.7	
					Bottom	11.8	0.2	47	14.1	14.1	8.0	8.0	28.4	28.4	98.6	98.6	8.5	8.5	12.0		11		75				<0.2	<0.2		0.7	
						11.8	0.2	48	14.1		8.0		28.4		98.6		8.5		12.0		11		75				<0.2			0.8	
C3	Fine	Moderate	17:36	12.1	Surface	1.0	0.3	82	15.5	15.5	7.9	7.9	27.7	27.7	93.7	93.7	7.9	7.9	4.6	5.0	5	6	73	75	822112	817818	<0.2	<0.2	<0.2	0.5	0.6
						1.0	0.3	83	15.5		7.9		27.7		93.7		7.9		4.6		4		73				<0.2			0.6	
					Middle	6.1	0.3	80	15.5	15.5	7.9	7.9	27.7	27.7	93.9	93.9	7.9		4.4		7		75				<0.2	<0.2		0.5	
						6.1	0.3	87	15.5		7.9		27.7		93.9		7.9		4.4		5		75				<0.2			0.6	
					Bottom	11.1	0.2	96	15.5	15.5	7.9	7.9	27.6	27.6	94.9	94.9	8.0	8.0	6.1		5		76				<0.2	<0.2		0.6	
						11.1	0.3	99	15.5		7.9		27.6		94.9		8.0		6.1		7		77				<0.2			0.5	
IM1	Cloudy	Moderate	16:37	7.6	Surface	1.0	0.1	67	14.1	14.1	7.9	7.9	28.8	28.8	99.4	99.4	8.6	8.6	10.5	10.9	10	11	74	74	818336	806453	<0.2	<0.2	<0.2	0.6	0.6
						1.0	0.1	71	14.1		7.9		28.8		99.4		8.6		10.6		12		73				<0.2			0.6	
					Middle	3.8	0.1	59	14.1	14.1	7.8	7.8	28.8	28.8	99.1	99.2	8.5		11.2		11		73				<0.2	<0.2		0.6	
						3.8	0.1	63	14.1		7.8		28.8		99.2		8.5		11.0		10		74				<0.2			0.7	
					Bottom	6.6	0.1	87	14.1	14.1	7.8	7.8	28.8	28.8	99.2	99.3	8.6	8.6	11.0		11		75				<0.2	<0.2		0.7	
						6.6	0.1	89	14.1		7.8		28.8		99.3		8.6		11.3		10		75				<0.2			0.6	
IM2	Cloudy	Moderate	16:31	8.4	Surface	1.0	0.1	50	14.1	14.1	8.0	8.0	28.8	28.8	99.1	99.1	8.5	8.5	10.9	11.6	9	12	73	74	818846	806212	<0.2	<0.2	<0.2	0.6	0.6
						1.0	0.1	53	14.1		8.0		28.8		99.1		8.5		10.9		11		73				<0.2			0.6	
					Middle	4.2	0.1	37	14.1	14.1	7.9	7.9	28.8	28.8	98.9	98.9	8.5		11.4		13		74				<0.2	<0.2		0.6	
						4.2	0.1	38	14.1		7.9		28.8		98.9		8.5		11.5		11		74				<0.2			0.6	
					Bottom	7.4	0.0	43	14.0	14.0	7.9	7.9	28.8	28.8	99.0	99.0	8.5	8.5	12.3		14		75				<0.2	<0.2		0.6	
						7.4	0.0	46	14.0		7.9		28.8		99.0		8.5		12.3		12		75				<0.2			0.6	
IM3	Cloudy	Moderate	16:22	8.8	Surface	1.0	0.2	80	13.9	13.9	8.0	8.0	28.8	28.8	99.3	99.3	8.6	8.6	10.2	10.5	10	12	73	74	819433	806029	<0.2	<0.2	<0.2	0.6	0.6
						1.0	0.2	87	13.9		8.0		28.8		99.3		8.6		10.2		12		73				<0.2			0.6	
					Middle	4.4	0.1	46	13.9	13.9	8.0	8.0	28.8	28.8	99.2	99.2	8.6		10.4		11		73				<0.2	<0.2		0.6	
						4.4	0.1	49	13.9		8.0		28.8		99.2		8.6		10.4		12		74				<0.2			0.6	
					Bottom	7.8	0.1	344	13.9	13.9	8.0	8.0	28.8	28.8	99.3	99.4	8.6	8.6	10.8		13		75				<0.2	<0.2		0.6	
						7.8	0.1	316	13.9		8.0		28.8		99.4		8.6		10.9		15		75				<0.2			0.6	
IM4	Cloudy	Moderate	16:14	7.9	Surface	1.0	0.0	293	14.0	14.0	8.0	8.0	28.8	28.8	99.1	99.1	8.5	8.5	9.4	10.0	9	10	72	73	819597	805061	<0.2	<0.2	<0.2	0.6	0.7
						1.0	0.0	307	14.0		8.0		28.8		99.1		8.5		9.3		9		72				<0.2			1.0	
					Middle	4.0	0.1	337	14.0	14.0	8.0	8.0	28.8	28.8	99.0	99.0	8.5		10.2		11		73				<0.2	<0.2		0.6	
						4.0	0.1	350	14.0		8.0		28.8		99.0		8.5		10.4		12		73				<0.2			0.6	
					Bottom	6.9	0.1	334	14.0	14.0	8.0	8.0	28.8	28.8	99.1	99.1	8.5	8.5	10.2		10		75				<0.2	<0.2		0.6	
						6.9	0.1	356	14.0		8.0		28.8		99.1		8.5		10.2		9		75				<0.2			0.6	
IM5	Cloudy	Moderate	16:07	7.5	Surface	1.0	0.1	56	14.1	14.1	7.9	7.9	28.9	28.9	99.3	99.3	8.5	8.5	8.7	9.1	7	7	72	73	820548	804932	<0.2	<0.2	<0.2	0.5	0.5
						1.0	0.1	58	14.1		7.9		28.9		99.2		8.5		8.8		5		72				<0.2			0.6	
					Middle	3.8	0.1	17	14.1	14.1	7.8	7.8	28.8	28.8	99.0	99.0	8.5		9.2		9		73				<0.2	<0.2		0.6	
						3.8	0.1	17	14.1		7.8		28.9		99.0		8.5		9.2		8		73				<0.2			0.5	
					Bottom	6.5	0.1	28	14.1	14.1	7.8	7.8	28.9	28.9	99.1	99.1	8.5	8.5	9.5		7		75				<0.2	<0.2		0.5	
						6.5	0.1	28	14.1		7.8		28.9		99.1		8.5		9.2		8		75				<0.2			0.5	
IM6	Cloudy	Moderate	15:57	7.3	Surface	1.0	0.1	49	14.1	14.1	7.9	7.9	28.8	28.8	99.4	99.4	8.6	8.6	11.2	11.8	12	12	72	73	821034	805811	<0.2	<0.2	<0.2	0.5	0.6
						1.0	0.1	51	14.1		7.9		28.8		99.4		8.6		11.1		12		72				<0.2			0.6	
					Middle	3.7	0.2	57	14.1	14.1	7.9	7.9	28.8	28.8	99.2	99.2	8.5		11.6		11		73				<0.2	<0.2		0.5	
						3.7	0.2	61	14.1		7.9		28.8		99.2		8.5		11.7		12		73				<0.2			0.5	
					Bottom	6.3	0.1	72	14.1	14.1	7.9	7.9	28.8	28.8	99.2	99.3	8.5	8.5	12.6		12		75				<0.2	<0.2		0.6	
						6.3	0.1	78	14.1		7.9		28.8		99.3		8.5		12.6		14		75				<0.2			0.6	
IM7	Cloudy	Moderate	15:47	8.9	Surface	1.0	0.2	68	14.1	14.1	7.9	7.9	28.7	28.6	98.9	98.9	8.5	8.5	11.0	12.4	12	13	72	74	821336	806846	<0.2	<0.2	<0.2	0.6	0.6
						1.0	0.2	68	14.1		7.9		28.6		98.8		8.5		11.1		11		72				<0.2			0.6	
					Middle	4.5	0.1	59	14.1	14.1	7.9	7.9	28.6	28.6	98.2	98.3	8.5		12.8		12		74				<0.2	<0.2		0.6	
						4.5	0.1	62	14.1		7.9		28.6		98.3		8.5		12.9		12		73				<0.2			0.6	
					Bottom	7.9	0.1	74	14.0	14.0	7.9	7.9	28.6	28.6	97.9	97.9	8.5	8.5	13.4		15		75				<0.2	<0.2		0.6	
						7.9	0.1	75	14.0		7.9		28.6		97.8		8.4		13.1		15		75				<0.2			0.6	
IM8	Fine	Moderate	16:13	8.4	Surface	1.0	0.4	82	14.2	14.2	8.0	8.0	28.6	28.6	99.3	99.3	8.5	8.5	13.5	15.9	10	12	73	74	821688	807849	<0.2	<0.2	<0.2	0.5	0.6
						1.0	0.4	89	14.2		8.0		28.6		99.3		8.5		13.5		11		73				<0.2			0.6	
					Middle	4.2	0.3	79	14.2	14.2	8.0	8.0	28.6	28.6	99.2	99.2	8.5		15.0		10		74				<0.2	<0.2		0.5	
						4.2	0.3	80	14.2		8.0		28.6		99.2		8.5		15.0		12		74				<0.2			0.6	
					Bottom	7.4	0.3	79	14.2	14.2	8.0	8.0	28.6	28.6	99.3	99.3	8.5	8.5	19.1		14		75				<0.2	<0.2		0.5	
						7.4	0.3	81	14.2		8.0		28.6		99.3		8.5		19.1		14		75				<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 06 February 18 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	Average	DA	Value	DA
IM9	Fine	Moderate	16:20	7.6	Surface	1.0	0.3	83	14.3	14.3	8.0	8.0	28.3	28.3	99.1	99.1	8.5	8.5	9.8	10.4	9	11	73	74	822114	808801	<0.2	<0.2	<0.2	0.5	0.6
						1.0	0.4	88	14.3		8.0		28.3		99.1		8.5		9.8		9		73				<0.2			0.5	
					Middle	3.8	0.3	71	14.3	14.3	8.0	8.0	28.3	28.3	99.2	99.2	8.5		10.6		12		74				<0.2	<0.2		0.6	
						3.8	0.4	77	14.3		8.0		28.3		99.2		8.5		10.6		13		74				<0.2			0.6	
					Bottom	6.6	0.3	83	14.3	14.3	8.0	8.0	28.3	28.3	99.3	99.3	8.5		10.7		11		75				<0.2	<0.2		0.6	
						6.6	0.3	83	14.3		8.0		28.3		99.3		8.5		10.7		11		75				<0.2			0.5	
IM10	Fine	Moderate	16:28	7.0	Surface	1.0	0.3	90	14.3	14.3	8.0	8.0	27.9	27.9	100.4	100.4	8.7	8.7	9.3	10.1	11	11	73	74	822211	809821	<0.2	<0.2	<0.2	0.6	0.6
						1.0	0.3	98	14.3		8.0		27.9		100.4		8.7		9.3		12		73				<0.2			0.7	
					Middle	3.5	0.3	99	14.3	14.3	8.0	8.0	28.0	28.0	100.3	100.3	8.7		10.3		10		74				<0.2	<0.2		0.7	
						3.5	0.3	107	14.3		8.0		28.0		100.3		8.7		10.3		11		73				<0.2			0.6	
					Bottom	6.0	0.3	96	14.3	14.3	8.0	8.0	28.0	28.0	100.3	100.3	8.7	8.7	10.6		13		75				<0.2	<0.2		0.6	
						6.0	0.3	101	14.3		8.0		28.0		100.3		8.7		10.6		11		76				<0.2			0.6	
IM11	Fine	Moderate	16:42	8.2	Surface	1.0	0.3	106	14.1	14.1	8.2	8.2	28.0	28.0	100.0	100.0	8.7	8.7	10.1	9.9	12	12	73	75	821482	810561	0.4	0.5	**0.4**	0.6	0.7
						1.0	0.3	116	14.1		8.2		28.0		100.0		8.7		10.1		12		73				0.5			0.6	
					Middle	4.1	0.3	88	14.1	14.1	8.0	8.0	28.0	28.0	99.6	99.7	8.6		9.2		13		75				0.5	0.5		0.7	
						4.1	0.3	88	14.1		8.0		28.0		99.7		8.6		9.2		12		75				0.4			0.7	
					Bottom	7.2	0.3	80	14.2	14.2	8.0	8.0	28.0	28.0	99.4	99.4	8.6	8.6	10.5		12		76				<0.2	<0.2		0.7	
						7.2	0.3	83	14.2		8.0		28.0		99.4		8.6		10.5		13		75				<0.2			0.6	
IM12	Fine	Moderate	16:49	9.0	Surface	1.0	0.4	84	14.6	14.6	8.0	8.0	27.9	27.9	99.0	99.0	8.5	8.5	6.6	7.5	8	8	73	74	821171	811496	<0.2	<0.2	<0.2	0.6	0.7
						1.0	0.4	86	14.6		8.0		27.9		99.0		8.5		6.6		8		73				<0.2			0.7	
					Middle	4.5	0.4	89	14.3	14.3	8.0	8.0	27.9	27.9	98.7	98.7	8.5		7.6		7		74				<0.2	<0.2		0.7	
						4.5	0.4	97	14.3		8.0		27.9		98.7		8.5		7.6		10		75				<0.2			0.6	
					Bottom	8.0	0.3	95	14.2	14.2	8.0	8.0	27.9	27.9	98.3	98.3	8.5	8.5	8.4		9		75				<0.2	<0.2		0.7	
						8.0	0.3	101	14.2		8.0		27.9		98.3		8.5		8.4		8		76				<0.2			0.6	
SR2	Fine	Moderate	17:14	4.5	Surface	1.0	0.3	90	15.1	15.1	7.9	7.9	28.0	28.0	96.1	96.1	8.2	8.2	7.5	8.5	9	9	73	74	821460	814169	<0.2	<0.2	<0.2	0.6	0.6
						1.0	0.3	96	15.1		7.9		28.0		96.1		8.2		7.5		8		74				<0.2			0.6	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-	-		-	
						-	-	-	-		-		-		-		-		-		-		-				-			-	
					Bottom	3.5	0.3	89	15.1	15.1	7.9	7.9	28.0	28.0	99.3	99.3	8.4	8.4	9.5		9		75				<0.2	<0.2		0.6	
						3.5	0.3	92	15.1		7.9		28.0		99.3		8.4		9.6		10		75				<0.2			0.6	
SR3	Fine	Moderate	16:07	9.0	Surface	1.0	0.4	75	14.4	14.4	7.9	7.9	28.6	28.6	99.6	99.6	8.5	8.5	12.7	15.5	9	11	-	-	822169	807588	-	-	-	-	-
						1.0	0.4	79	14.4		7.9		28.6		99.5		8.5		12.7		10		-				-			-	
					Middle	4.5	0.3	72	14.4	14.4	7.9	7.9	28.6	28.6	99.3	99.3	8.5		16.3		10		-	-			-	-		-	
						4.5	0.3	75	14.4		7.9		28.6		99.3		8.5		16.3		12		-				-			-	
					Bottom	8.0	0.3	78	14.4	14.4	7.9	7.9	28.6	28.6	99.4	99.4	8.5	8.5	17.5		12		-	-			-	-		-	
						8.0	0.3	80	14.4		7.9		28.6		99.4		8.5		17.5		12		-				-			-	
SR4A	Cloudy	Calm	17:18	9.3	Surface	1.0	0.3	76	13.9	13.9	7.9	7.9	28.8	28.8	100.4	100.4	8.7	8.7	9.5	10.2	10	10	-	-	817208	807829	-	-	-	-	-
						1.0	0.4	77	13.9		7.9		28.8		100.3		8.7		9.5		9		-				-			-	
					Middle	4.7	0.3	77	13.9	13.9	7.9	7.9	28.8	28.8	100.0	100.0	8.6		10.2		11		-	-			-	-		-	
						4.7	0.3	82	13.9		7.9		28.8		100.0		8.6		10.0		10		-				-			-	
					Bottom	8.3	0.2	72	13.9	13.9	7.9	7.9	28.8	28.8	99.7	99.7	8.6	8.6	11.0		11		-	-			-	-		-	
						8.3	0.3	78	13.9		7.9		28.8		99.7		8.6		11.1		11		-				-			-	
SR5A	Cloudy	Calm	17:34	4.6	Surface	1.0	0.1	274	13.6	13.6	7.9	7.9	28.5	28.5	101.7	101.6	8.9	8.9	7.2	7.8	6	7	-	-	816613	810719	-	-	-	-	-
						1.0	0.1	282	13.6		7.9		28.5		101.5		8.9		7.4		6		-				-			-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-	-			-	-		-	
						-	-	-	-		-		-		-		-		-		-		-				-			-	
					Bottom	3.6	0.1	218	13.7	13.7	7.8	7.8	28.7	28.7	100.5	100.5	8.7	8.7	8.4		9		-	-			-	-		-	
						3.6	0.1	219	13.7		7.8		28.7		100.5		8.7		8.3		8		-				-			-	
SR6	Cloudy	Calm	17:55	4.3	Surface	1.0	0.1	71	13.5	13.5	7.8	7.8	28.2	28.2	106.8	106.6	9.3	9.3	5.2	5.1	6	6	-	-	817901	814670	-	-	-	-	-
						1.0	0.1	76	13.5		7.8		28.2		106.4		9.3		5.2		3		-				-			-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-	-			-	-		-	
						-	-	-	-		-		-		-		-		-		-		-				-			-	
					Bottom	3.3	0.1	72	13.5	13.5	7.9	7.9	28.2	28.2	103.9	103.5	9.1	9.1	5.0		9		-	-			-	-		-	
						3.3	0.1	72	13.5		7.9		28.3		103.1		9.0		5.1		8		-				-			-	
SR7	Fine	Moderate	18:05	16.4	Surface	1.0	0.2	94	15.5	15.5	7.9	7.9	27.5	27.5	94.0	94.0	7.9	7.9	4.6	4.8	6	6	-	-	823618	823766	-	-	-	-	-
						1.0	0.3	98	15.5		7.9		27.5		94.0		7.9		4.6		5		-				-			-	
					Middle	8.2	0.1	75	15.5	15.5	7.9	7.9	27.5	27.5	94.1	94.1	7.9		4.8		6		-	-			-	-		-	
						8.2	0.1	78	15.5		7.9		27.5		94.1		7.9		4.8		6		-				-			-	
					Bottom	15.4	0.1	70	15.5	15.5	7.9	7.9	27.4	27.4	95.0	95.0	8.0	8.0	5.0		6		-	-			-	-		-	
						15.4	0.1	75	15.5		7.9		27.4		95.0		8.0		5.0		7		-				-			-	
SR8	Fine	Moderate	16:58	4.3	Surface	1.0	-	-	14.5	14.5	8.0	8.0	27.9	27.9	99.5	99.5	8.6	8.6	8.1	8.5	8	8	-	-	820246	811418	-	-	-	-	-
						1.0	-	-	14.5		8.0		27.9		99.5		8.6		8.1		8		-				-			-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-	-			-	-		-	
						-	-	-	-		-		-		-		-		-		-		-				-			-	
					Bottom	3.3	-	-	14.4	14.4	8.0	8.0	27.9	27.9	99.7	99.7	8.6	8.6	8.8		10		-	-			-	-		-	
						3.3	-	-	14.4		8.0		27.9		99.7		8.6		8.8		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 06 February 18 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	Average	DA	Value	DA
C1	Fine	Moderate	11:23	8.2	Surface	1.0	0.6	47	13.4	13.4	7.9	7.9	28.9	28.9	97.3	97.3	8.5	8.5	16.2	18.0	13	13	73	75	815600	804229	<0.2	<0.2	<0.2	0.7	0.7
						1.0	0.7	49	13.4		7.9		28.9		97.3		8.5		16.4		12		73				<0.2			0.7	
					Middle	4.1	0.6	39	13.3	13.3	7.8	7.8	28.9	28.9	97.0	97.0	8.5		18.4		11		75				<0.2	<0.2		0.7	
						4.1	0.6	42	13.3		7.8		28.9		97.0		8.5		18.1		13		75				<0.2			0.6	
					Bottom	7.2	0.7	36	13.4	13.4	7.9	7.9	28.9	28.9	96.7	96.7	8.4	8.4	19.6		15		76				<0.2	<0.2		0.6	
						7.2	0.7	36	13.4		7.9		28.9		96.7		8.4		19.2		16		76				<0.2			0.6	
C2	Fine	Moderate	12:37	11.8	Surface	1.0	0.2	352	14.6	14.6	8.0	8.0	26.8	26.8	97.8	97.8	8.4	8.4	5.7	10.5	6	9	72	74	825696	806925	<0.2	<0.2	<0.2	0.7	0.7
						1.0	0.2	324	14.6		8.0		26.8		97.7		8.4		5.8		8		72				<0.2			0.7	
					Middle	5.9	0.4	355	14.6	14.6	8.0	8.0	27.5	27.5	96.7	96.7	8.3		10.3		8		73				<0.2	<0.2		0.7	
						5.9	0.5	327	14.6		8.0		27.5		96.7		8.3		10.3		10		74				<0.2			0.8	
					Bottom	10.8	0.4	356	14.6	14.6	8.0	8.0	28.3	28.3	96.5	96.5	8.3	8.3	15.4		10		75				<0.2	<0.2		0.7	
						10.8	0.4	357	14.6		8.0		28.3		96.5		8.3		15.4		9		75				<0.2			0.8	
C3	Fine	Moderate	10:38	11.0	Surface	1.0	0.5	261	15.3	15.3	7.9	7.9	28.2	28.2	93.7	93.7	7.9	7.9	4.3	7.0	6	7	73	75	822099	817816	<0.2	<0.2	<0.2	0.5	0.5
						1.0	0.6	266	15.3		7.9		28.2		93.7		7.9		4.3		7		73				<0.2			0.6	
					Middle	5.5	0.5	267	15.3	15.3	7.9	7.9	28.9	28.9	93.6	93.6	7.9		6.6		7		75				<0.2	<0.2		0.5	
						5.5	0.5	273	15.3		7.9		28.9		93.6		7.9		6.6		7		75				<0.2			0.5	
					Bottom	10.0	0.4	268	15.2	15.2	7.9	7.9	29.8	29.8	94.5	94.5	7.9	7.9	10.1		9		76				<0.2	<0.2		0.4	
						10.0	0.4	279	15.2		7.9		29.8		94.5		7.9		10.1		7		77				<0.2			0.5	
IM1	Fine	Moderate	11:40	7.4	Surface	1.0	0.4	14	13.9	13.9	8.0	8.0	28.9	28.9	98.2	98.2	8.5	8.5	9.6	13.6	9	10	73	75	818335	806483	<0.2	<0.2	<0.2	0.5	0.5
						1.0	0.5	14	13.9		8.0		28.9		98.2		8.5		9.6		8		73				<0.2			0.5	
					Middle	3.7	0.4	17	13.8	13.8	8.0	8.0	28.9	28.9	97.6	97.6	8.5		13.6		10		75				<0.2	<0.2		0.4	
						3.7	0.5	17	13.8		8.0		28.9		97.6		8.5		13.6		8		75				<0.2			0.5	
					Bottom	6.4	0.4	16	13.7	13.7	7.9	7.9	28.9	28.9	97.4	97.4	8.4	8.4	17.5		14		76				<0.2	<0.2		0.5	
						6.4	0.4	17	13.7		7.9		28.9		97.4		8.4		17.5		12		75				<0.2			0.5	
IM2	Fine	Moderate	11:47	8.4	Surface	1.0	0.5	15	13.9	13.9	7.9	7.9	28.9	28.9	98.3	98.3	8.5	8.5	10.4	15.7	9	11	72	74	818833	806200	<0.2	<0.2	<0.2	0.5	0.6
						1.0	0.5	15	13.9		7.9		28.9		98.3		8.5		10.5		7		72				<0.2			0.5	
					Middle	4.2	0.5	15	13.7	13.7	7.9	7.9	28.9	28.9	97.5	97.5	8.5		17.0		11		73				<0.2	<0.2		0.5	
						4.2	0.5	15	13.7		7.9		28.9		97.5		8.5		17.2		11		74				<0.2			0.6	
					Bottom	7.4	0.4	17	13.7	13.7	7.8	7.8	28.9	28.9	97.2	97.2	8.4	8.4	19.7		14		75				<0.2	<0.2		0.6	
						7.4	0.4	17	13.7		7.8		28.9		97.2		8.4		19.6		13		75				<0.2			0.6	
IM3	Fine	Moderate	11:53	8.2	Surface	1.0	0.4	29	13.8	13.8	8.1	8.1	28.9	28.9	98.2	98.2	8.5	8.5	9.9	16.5	13	15	73	75	819438	806016	<0.2	<0.2	<0.2	0.5	0.6
						1.0	0.4	29	13.8		8.1		28.9		98.2		8.5		9.9		13		73				<0.2			0.6	
					Middle	4.1	0.4	30	13.7	13.7	8.0	8.0	28.9	28.9	97.5	97.5	8.5		17.0		15		75				<0.2	<0.2		0.7	
						4.1	0.5	30	13.7		8.0		28.9		97.4		8.5		17.2		14		75				<0.2			0.6	
					Bottom	7.2	0.4	29	13.7	13.7	8.0	8.0	28.8	28.8	97.4	97.4	8.5	8.5	22.6		17		76				<0.2	<0.2		0.5	
						7.2	0.4	31	13.7		8.0		28.8		97.4		8.5		22.5		17		77				<0.2			0.6	
IM4	Fine	Moderate	12:01	7.7	Surface	1.0	0.4	22	13.9	13.9	7.9	7.9	28.9	28.9	98.7	98.7	8.5	8.5	10.2	16.4	11	14	72	73	819552	805068	<0.2	<0.2	<0.2	0.5	0.5
						1.0	0.5	23	13.9		7.9		28.9		98.7		8.5		10.2		12		72				<0.2			0.5	
					Middle	3.9	0.4	15	13.8	13.8	7.9	7.9	28.9	28.9	97.7	97.7	8.5		15.7		12		73				<0.2	<0.2		0.5	
						3.9	0.5	16	13.8		7.9		28.9		97.7		8.5		15.8		14		73				<0.2			0.5	
					Bottom	6.7	0.4	21	13.8	13.8	7.8	7.8	28.9	28.9	97.4	97.4	8.4	8.4	23.6		17		75				<0.2	<0.2		0.5	
						6.7	0.5	21	13.8		7.8		28.9		97.4		8.4		23.1		16		75				<0.2			0.4	
IM5	Fine	Moderate	12:11	7.0	Surface	1.0	0.5	20	13.8	13.8	8.0	8.0	28.9	28.9	98.2	98.2	8.5	8.5	13.4	17.7	13	15	72	74	820558	804945	<0.2	<0.2	<0.2	0.6	0.5
						1.0	0.5	20	13.8		8.0		28.9		98.2		8.5		13.5		13		72				<0.2			0.4	
					Middle	3.5	0.5	5	13.8	13.8	7.9	7.9	28.9	28.9	97.8	97.8	8.5		18.2		15		73				<0.2	<0.2		0.6	
						3.5	0.5	5	13.8		7.9		28.9		97.8		8.5		18.4		13		73				<0.2			0.5	
					Bottom	6.0	0.4	12	13.8	13.8	7.8	7.8	28.9	28.9	97.6	97.6	8.5	8.5	21.2		18		76				<0.2	<0.2		0.5	
						6.0	0.4	13	13.8		7.8		28.9		97.6		8.5		21.2		18		76				<0.2			0.5	
IM6	Fine	Moderate	12:19	6.7	Surface	1.0	0.3	43	13.6	13.6	7.9	7.9	28.6	28.6	98.0	98.0	8.5	8.5	11.4	11.2	9	10	73	75	821030	805830	<0.2	<0.2	<0.2	0.8	0.8
						1.0	0.3	46	13.6		7.9		28.6		98.0		8.5		11.3		8		73				<0.2			0.8	
					Middle	3.4	0.2	39	13.6	13.6	7.9	7.9	28.6	28.6	97.8	97.8	8.5		10.9		10		75				<0.2	<0.2		0.8	
						3.4	0.2	40	13.6		7.9		28.6		97.8		8.5		10.1		11		75				<0.2			0.7	
					Bottom	5.7	0.2	23	13.6	13.6	7.9	7.9	28.6	28.6	97.7	97.7	8.5	8.5	11.4		12		76				<0.2	<0.2		0.8	
						5.7	0.3	23	13.6		7.9		28.6		97.7		8.5		11.8		12		77				<0.2			0.7	
IM7	Fine	Moderate	12:29	8.3	Surface	1.0	0.3	46	13.6	13.6	7.9	7.9	28.7	28.7	98.1	98.1	8.5	8.5	13.4	16.3	17	19	74	75	821332	806864	<0.2	<0.2	<0.2	0.7	0.7
						1.0	0.3	50	13.6		7.9		28.7		98.1		8.5		13.5		18		74				<0.2			0.7	
					Middle	4.2	0.3	32	13.6	13.6	7.9	7.9	28.7	28.7	97.8	97.8	8.5		16.2		17		75				<0.2	<0.2		0.7	
						4.2	0.4	34	13.6		7.9		28.7		97.8		8.5		16.4		17		75				<0.2			0.6	
					Bottom	7.3	0.2	41	13.6	13.6	7.9	7.9	28.7	28.7	97.7	97.8	8.5	8.5	19.2		20		76				<0.2	<0.2		0.6	
						7.3	0.3	44	13.6		7.9		28.7		97.8		8.5		19.2		22		77				<0.2			0.6	
IM8	Fine	Moderate	12:08	8.1	Surface	1.0	0.2	11	13.9	13.9	8.2	8.2	27.2	27.2	99.2	99.2	8.7	8.7	16.7	18.5	13	20	73	74	821668	807848	0.3	0.3	0.3	0.7	0.7
						1.0	0.3	11	13.9		8.2		27.2		99.2		8.7		16.8		14		73				0.3			0.6	
					Middle	4.1	0.3	12	13.9	13.9	8.1	8.1	27.6	27.6	98.8	98.8	8.6		18.6		22		74				0.4	0.4		0.7	
						4.1	0.3	12	13.9		8.1		27.6		98.8		8.6		18.6		24		74				0.3			0.8	
					Bottom	7.1	0.2	6	13.8	13.8	8.1	8.1	27.9	27.9	98.3	98.3	8.6	8.6	19.9		23		75				0.4	0.4		0.8	
						7.1	0.2	6	13.8		8.1		27.9		98.3		8.6		20.1		24		75				0.3			0.7	

DA: Depth-Averaged

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

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

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 06 February 18 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	Average	DA	Value	DA
IM9	Fine	Moderate	11:59	7.2	Surface	1.0	0.2	343	14.0	14.0	8.2	8.2	27.9	27.9	97.8	97.8	8.5	8.5	15.5	15.4	12	16	73	74	822118	808811	0.3	0.3	**0.4**	0.6	0.7
						1.0	0.2	316	14.0		8.2		27.9		97.8		8.5		15.5		14		73				0.3			0.7	
					Middle	3.6	0.2	336	13.9	13.9	8.2	8.2	27.9	27.9	97.3	97.3	8.5		16.6		15		74				0.3	0.3		1.0	
						3.6	0.2	350	13.9		8.2		27.9		97.3		8.5		16.6		16		75				0.2			0.7	
					Bottom	6.2	0.2	333	13.9	13.9	8.1	8.1	27.9	27.9	97.0	97.0	8.4	8.4	14.1		18		75				0.5	0.6		0.6	
						6.2	0.2	339	13.9		8.1		27.9		97.0		8.4		14.1		20		76				0.6			0.6	
IM10	Fine	Moderate	11:50	7.8	Surface	1.0	0.6	324	14.1	14.1	8.0	8.0	27.9	27.9	97.1	97.1	8.4	8.4	8.6	10.7	9	12	73	75	822240	809818	<0.2	<0.2	<0.2	0.6	0.6
						1.0	0.6	326	14.1		8.0		27.9		97.0		8.4		8.6		11		73				<0.2			0.6	
					Middle	3.9	0.5	323	14.1	14.1	8.0	8.0	28.5	28.5	96.8	96.8	8.4		9.2		12		75				<0.2	<0.2		0.7	
						3.9	0.5	352	14.1		8.0		28.5		96.7		8.3		9.2		12		75				<0.2			0.7	
					Bottom	6.8	0.4	320	14.0	14.0	8.0	8.0	28.6	28.6	96.4	96.4	8.3	8.3	14.4		13		76				<0.2	<0.2		0.6	
						6.8	0.4	322	14.0		8.0		28.6		96.4		8.3		14.4		13		76				<0.2			0.6	
IM11	Fine	Moderate	11:35	7.2	Surface	1.0	0.5	295	14.1	14.1	8.0	8.0	28.1	28.1	97.1	97.1	8.4	8.4	11.2	12.8	9	11	73	74	821485	810571	<0.2	<0.2	<0.2	0.6	0.6
						1.0	0.6	305	14.1		8.0		28.1		97.1		8.4		11.2		10		73				<0.2			0.6	
					Middle	3.6	0.5	305	14.0	14.0	8.0	8.0	28.1	28.1	97.4	97.4	8.4		13.9		11		73				<0.2	<0.2		0.7	
						3.6	0.5	312	14.0		8.0		28.1		97.4		8.4		13.9		10		74				<0.2			0.6	
					Bottom	6.2	0.3	302	14.0	14.0	8.0	8.0	28.5	28.5	96.9	96.9	8.4	8.4	13.3		13		75				<0.2	<0.2		0.5	
						6.2	0.4	308	14.0		8.0		28.5		96.9		8.4		13.3		12		75				<0.2			0.7	
IM12	Fine	Moderate	11:28	7.1	Surface	1.0	0.6	280	14.7	14.7	8.0	8.0	28.0	28.0	94.2	94.2	8.0	8.0	16.8	18.6	13	16	73	74	821189	811496	<0.2	<0.2	<0.2	0.5	0.6
						1.0	0.6	282	14.7		8.0		28.0		94.2		8.0		16.8		11		73				<0.2			0.6	
					Middle	3.6	0.5	283	14.6	14.6	8.0	8.0	29.1	29.1	94.1	94.1	8.0		17.2		13		74				<0.2	<0.2		0.6	
						3.6	0.5	304	14.6		8.0		29.1		94.1		8.0		17.2		12		74				<0.2			0.6	
					Bottom	6.1	0.4	286	14.5	14.5	8.0	8.0	29.4	29.4	94.0	94.0	8.0	8.0	21.7		22		75				<0.2	<0.2		0.6	
						6.1	0.5	289	14.5		8.0		29.4		94.0		8.0		21.7		23		75				<0.2			0.5	
SR2	Fine	Moderate	11:02	4.3	Surface	1.0	0.2	146	14.6	14.6	8.0	8.0	28.2	28.2	96.3	96.3	8.2	8.2	7.4	6.4	7	9	73	74	821460	814195	<0.2	<0.2	<0.2	0.6	0.6
						1.0	0.2	146	14.6		8.0		28.2		96.3		8.2		7.4		8		73				<0.2			0.6	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-	-		-	
						-	-	-	-		-		-		-		-		-		-		-				-			-	
					Bottom	3.3	0.2	137	14.5	14.5	8.0	8.0	28.5	28.5	96.7	96.7	8.3	8.3	5.3		9		75				<0.2	<0.2		0.5	
						3.3	0.2	146	14.5		8.0		28.5		96.7		8.3		5.3		11		75				<0.2			0.6	
SR3	Fine	Moderate	12:15	8.9	Surface	1.0	0.3	35	13.9	13.9	8.1	8.1	27.3	27.3	100.0	100.0	8.7	8.7	14.3	18.8	14	24	-	-	822132	807594	-	-	-	-	-
						1.0	0.4	35	13.9		8.1		27.3		100.0		8.7		14.3		16		-				-			-	
					Middle	4.5	0.4	31	13.8	13.8	8.1	8.1	27.6	27.6	99.9	99.9	8.7		15.5		30		-				-	-		-	
						4.5	0.5	31	13.8		8.1		27.6		99.9		8.7		15.5		29		-				-			-	
					Bottom	7.9	0.4	35	13.8	13.8	8.1	8.1	27.7	27.7	97.5	97.5	8.5	8.5	26.6		29		-				-	-		-	
						7.9	0.5	38	13.8		8.1		27.7		97.4		8.5		26.6		28		-				-			-	
SR4A	Fine	Calm	11:01	8.4	Surface	1.0	0.3	254	13.2	13.2	8.0	8.0	28.6	28.6	97.2	97.2	8.5	8.5	7.0	7.3	9	9	-	-	817174	807792	-	-	-	-	-
						1.0	0.3	256	13.2		8.0		28.6		97.2		8.5		6.9		8		-				-			-	
					Middle	4.2	0.3	252	13.2	13.2	7.9	7.9	28.6	28.6	96.8	96.8	8.5		7.2		9		-				-	-		-	
						4.2	0.3	277	13.2		7.9		28.6		96.8		8.5		7.3		8		-				-			-	
					Bottom	7.4	0.2	251	13.2	13.2	7.9	7.9	28.6	28.6	96.6	96.6	8.5	8.5	7.6		10		-				-	-		-	
						7.4	0.2	273	13.2		7.9		28.7		96.5		8.5		7.9		8		-				-			-	
SR5A	Fine	Calm	10:45	4.9	Surface	1.0	0.3	314	13.0	13.0	7.9	7.9	28.5	28.5	98.4	98.4	8.7	8.7	6.1	6.7	8	8	-	-	816567	810699	-	-	-	-	-
						1.0	0.3	326	13.0		7.9		28.5		98.4		8.7		6.2		8		-				-			-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-	-		-	
						-	-	-	-		-		-		-		-		-		-		-				-			-	
					Bottom	3.9	0.3	311	13.1	13.1	7.8	7.8	28.5	28.5	97.6	97.5	8.6	8.6	7.1		8		-				-	-		-	
						3.9	0.3	317	13.1		7.8		28.5		97.4		8.6		7.5		8		-				-			-	
SR6	Fine	Calm	10:22	4.1	Surface	1.0	0.2	251	13.9	13.9	7.7	7.7	28.8	28.8	95.8	95.8	8.1	8.1	6.8	7.0	8	8	-	-	817909	814689	-	-	-	-	-
						1.0	0.2	262	13.9		7.7		28.8		95.8		8.1		6.8		8		-				-			-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-	-		-	
						-	-	-	-		-		-		-		-		-		-		-				-			-	
					Bottom	3.1	0.2	253	13.9	13.9	7.6	7.6	28.8	28.8	97.0	97.1	8.2	8.2	7.4		8		-				-	-		-	
						3.1	0.2	260	13.9		7.6		28.8		97.2		8.2		7.1		8		-				-			-	
SR7	Fine	Moderate	10:07	16.4	Surface	1.0	0.3	32	15.4	15.4	7.9	7.9	28.1	28.1	94.6	94.6	8.0	8.1	6.8	7.4	6	7	-	-	823649	823735	-	-	-	-	-
						1.0	0.3	32	15.4		7.9		28.1		94.6		8.0		6.8		7		-				-			-	
					Middle	8.2	0.3	22	15.4	15.4	8.0	8.0	28.2	28.2	96.6	96.6	8.1		7.1		7		-				-	-		-	
						8.2	0.4	22	15.4		8.0		28.2		96.6		8.1		7.1		7		-				-			-	
					Bottom	15.4	0.3	1	15.4	15.4	8.0	8.0	28.6	28.6	100.8	100.8	8.5	8.5	8.3		8		-				-	-		-	
						15.4	0.3	1	15.4		8.0		28.6		100.8		8.5		8.3		8		-				-			-	
SR8	Fine	Moderate	11:18	4.0	Surface	1.0	-	-	14.2	14.2	8.0	8.0	26.4	26.4	97.6	97.6	8.5	8.5	9.9	9.9	10	11	-	-	820246	811418	-	-	-	-	-
						1.0	-	-	14.2		8.0		26.4		97.6		8.5		9.9		10		-				-			-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-	-		-	
						-	-	-	-		-		-		-		-		-		-		-				-			-	
					Bottom	3.0	-	-	13.8	13.8	8.0	8.0	27.2	27.2	96.6	96.6	8.4	8.4	9.8		10		-				-	-		-	
						3.0	-	-	13.8		8.0		27.2		96.6		8.4		9.8		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 08 February 18 during Mid-Ebb Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
C1	Cloudy	Moderate	06:27	8.5	Surface	1.0	0.1	234	14.1	14.1	7.9	7.9	31.9	31.9	98.8	98.8	8.5	8.5	6.4	6.4	6	8	72	73	815616	804255	<0.2	<0.2	0.9	0.9
						1.0	0.1	245	14.1		7.9		31.9		98.7		8.5		6.5		6		72				<0.2		1.0	
					Middle	4.3	0.1	175	14.1	14.1	7.9	7.9	31.9	31.9	98.3	98.3	8.5		6.4		7		73				<0.2		0.8	
						4.3	0.1	180	14.1		7.9		31.9		98.3		8.5		6.3		5		73				<0.2		0.8	
					Bottom	7.5	0.1	226	14.0	14.0	7.9	7.9	31.9	31.9	97.8	97.8	8.4	8.4	6.3		10		75				<0.2		0.7	
						7.5	0.1	232	14.0		7.9		31.9		97.8		8.4		6.3		12		75				<0.2		0.9	
C2	Cloudy	Moderate	07:20	11.5	Surface	1.0	0.3	173	14.4	14.4	7.9	7.9	32.9	32.9	97.2	97.2	8.1	8.1	4.2	4.2	6	6	73	74	825690	806921	<0.2	<0.2	0.9	0.9
						1.0	0.3	186	14.4		7.9		32.9		97.2		8.1		4.2		6		73				<0.2		0.9	
					Middle	5.8	0.2	174	14.7	14.7	8.0	8.0	33.3	33.3	97.8	97.8	8.1		4.1		6		73				<0.2		0.9	
						5.8	0.2	189	14.7		8.0		33.3		97.8		8.1		4.1		6		74				<0.2		0.9	
					Bottom	10.5	0.1	179	14.6	14.6	7.9	7.9	33.3	33.4	97.8	97.9	8.1	8.1	4.2		6		75				<0.2		1.0	
						10.5	0.1	189	14.6		7.9		33.5		97.9		8.1		4.2		6		75				<0.2		0.8	
C3	Cloudy	Moderate	05:10	12.1	Surface	1.0	0.1	270	15.4	15.4	7.9	7.9	33.1	33.1	91.9	91.9	7.5	7.5	3.3	3.3	5	5	74	75	822096	817815	<0.2	<0.2	0.9	0.9
						1.0	0.1	290	15.4		7.9		33.1		91.9		7.5		3.5		6		73				<0.2		0.9	
					Middle	6.1	0.1	265	15.4	15.4	7.9	7.9	33.3	33.3	92.0	92.0	7.5		3.2		4		75				<0.2		0.8	
						6.1	0.1	280	15.4		7.9		33.3		92.0		7.5		3.2		4		75				<0.2		0.8	
					Bottom	11.1	0.1	270	15.4	15.4	7.9	7.9	33.9	33.9	93.0	93.0	7.6	7.6	3.1		5		77				<0.2		0.9	
						11.1	0.1	284	15.4		7.9		33.9		93.0		7.6		3.1		5		77				<0.2		0.8	
IM1	Cloudy	Moderate	06:45	7.2	Surface	1.0	0.1	89	13.7	13.7	7.9	7.9	31.8	31.8	98.2	98.2	8.5	8.5	6.9	6.9	6	6	72	74	818372	806465	<0.2	<0.2	0.9	0.8
						1.0	0.1	97	13.7		7.9		31.8		98.1		8.5		7.0		7		72				<0.2		0.8	
					Middle	3.6	0.1	176	13.7	13.7	7.9	7.9	31.8	31.8	97.8	97.7	8.5		6.8		6		73				<0.2		0.8	
						3.6	0.1	188	13.7		7.9		31.8		97.6		8.5		6.8		7		74				<0.2		0.8	
					Bottom	6.2	0.0	108	13.7	13.7	7.8	7.8	31.8	31.8	97.3	97.3	8.4	8.4	7.0		7		75				<0.2		0.8	
						6.2	0.0	111	13.7		7.8		31.8		97.2		8.4		7.0		6		76				<0.2		0.8	
IM2	Cloudy	Moderate	06:53	7.9	Surface	1.0	0.1	166	13.7	13.7	8.0	8.0	31.8	31.8	98.1	98.1	8.5	8.5	6.9	6.9	7	7	73	74	818874	806167	<0.2	<0.2	0.8	0.8
						1.0	0.1	168	13.7		8.0		31.8		98.1		8.5		7.3		5		73				<0.2		0.8	
					Middle	4.0	0.1	183	13.7	13.7	7.9	7.9	31.8	31.8	97.7	97.7	8.5		6.8		7		74				<0.2		0.7	
						4.0	0.1	187	13.7		7.9		31.8		97.6		8.5		6.8		5		73				<0.2		0.8	
					Bottom	6.9	0.0	184	13.7	13.7	7.9	7.9	31.8	31.8	97.2	97.2	8.4	8.4	6.6		10		75				<0.2		0.9	
						6.9	0.0	185	13.7		7.9		31.8		97.1		8.4		6.6		8		75				<0.2		0.7	
IM3	Cloudy	Moderate	06:59	8.0	Surface	1.0	0.1	175	13.7	13.7	8.0	8.0	32.3	32.3	98.5	98.5	8.5	8.5	6.5	6.5	5	5	73	74	819402	806046	<0.2	<0.2	0.6	0.6
						1.0	0.1	181	13.7		8.0		32.3		98.5		8.5		6.5		5		73				<0.2		0.7	
					Middle	4.0	0.0	161	13.7	13.7	8.0	8.0	32.3	32.3	98.2	98.2	8.5		6.5		6		73				<0.2		0.6	
						4.0	0.0	172	13.7		8.0		32.3		98.2		8.5		6.5		6		74				<0.2		0.6	
					Bottom	7.0	0.0	174	13.7	13.7	8.0	8.0	32.3	32.3	97.6	97.6	8.5	8.5	6.6		5		75				<0.2		0.7	
						7.0	0.0	178	13.7		8.0		32.3		97.6		8.5		6.5		5		75				<0.2		0.6	
IM4	Cloudy	Moderate	07:07	7.4	Surface	1.0	0.1	192	13.8	13.8	8.0	8.0	32.2	32.2	98.5	98.5	8.5	8.5	7.0	7.0	6	6	72	73	819543	805066	<0.2	<0.2	0.7	0.7
						1.0	0.1	201	13.8		8.0		32.2		98.4		8.5		6.5		6		72				<0.2		0.7	
					Middle	3.7	0.1	179	13.7	13.7	8.0	8.0	32.1	32.1	98.0	98.0	8.5		6.8		6		73				<0.2		0.7	
						3.7	0.1	193	13.7		8.0		32.1		98.0		8.5		6.8		5		73				<0.2		0.9	
					Bottom	6.4	0.1	188	13.7	13.7	8.0	8.0	32.1	32.1	97.4	97.4	8.4	8.4	7.4		6		75				<0.2		0.6	
						6.4	0.1	203	13.7		8.0		32.1		97.4		8.4		7.5		6		75				<0.2		0.6	
IM5	Cloudy	Moderate	07:18	6.4	Surface	1.0	0.1	197	13.7	13.7	7.9	7.9	32.2	32.2	98.3	98.3	8.5	8.5	7.4	7.4	5	5	72	74	820584	804915	<0.2	<0.2	0.6	0.6
						1.0	0.1	204	13.7		7.9		32.2		98.3		8.5		7.3		4		72				<0.2		0.5	
					Middle	3.2	0.2	205	13.7	13.7	7.8	7.8	32.1	32.1	98.0	98.0	8.5		7.5		5		73				<0.2		0.6	
						3.2	0.2	211	13.7		7.8		32.1		98.0		8.5		7.5		6		73				<0.2		0.6	
					Bottom	5.4	0.2	190	13.7	13.7	8.0	8.0	32.1	32.1	97.8	97.8	8.5	8.5	7.3		6		75				<0.2		0.6	
						5.4	0.2	207	13.7		8.0		32.1		97.7		8.5		7.3		6		76				<0.2		0.6	
IM6	Cloudy	Moderate	07:26	6.6	Surface	1.0	0.1	180	13.7	13.7	7.9	7.9	32.1	32.1	98.4	98.4	8.5	8.5	7.3	7.3	6	6	72	73	821073	805802	<0.2	<0.2	0.6	0.6
						1.0	0.1	195	13.7		7.9		32.1		98.4		8.5		6.8		5		72				<0.2		0.6	
					Middle	3.3	0.1	173	13.7	13.7	7.9	7.9	32.1	32.1	98.1	98.1	8.5		7.4		6		73				<0.2		0.6	
						3.3	0.1	187	13.7		7.9		32.1		98.1		8.5		7.5		5		73				<0.2		0.6	
					Bottom	5.6	0.1	151	13.7	13.7	7.9	7.9	32.0	32.0	97.9	97.9	8.5	8.5	7.7		5		75				<0.2		0.6	
						5.6	0.1	159	13.7		7.9		32.0		97.9		8.5		7.5		7		75				<0.2		0.6	
IM7	Cloudy	Moderate	07:34	8.0	Surface	1.0	0.1	118	13.7	13.7	8.0	8.0	32.1	32.1	98.4	98.4	8.5	8.5	6.9	6.9	5	5	72	74	821355	806855	<0.2	<0.2	0.7	0.6
						1.0	0.1	126	13.7		8.0		32.1		98.4		8.5		7.1		5		72				<0.2		0.6	
					Middle	4.0	0.1	150	13.7	13.7	8.0	8.0	32.1	32.1	98.1	98.1	8.5		6.8		5		73				<0.2		0.6	
						4.0	0.1	152	13.7		8.0		32.1		98.1		8.5		6.9		4		73				<0.2		0.6	
					Bottom	7.0	0.2	151	13.7	13.7	7.9	7.9	32.0	32.0	97.6	97.6	8.5	8.5	6.7		5		76				<0.2		0.6	
						7.0	0.2	152	13.7		7.9		32.0		97.6		8.5		6.7		4		76				<0.2		0.6	
IM8	Cloudy	Moderate	06:51	7.7	Surface	1.0	0.1	86	14.0	14.0	8.0	8.0	33.6	33.6	98.8	98.8	8.3	8.3	6.4	6.4	6	6	73	74	821720	807825	<0.2	<0.2	0.7	0.6
						1.0	0.2	94	14.0		8.0		33.6		98.8		8.3		5.9		6		73				<0.2		0.7	
					Middle	3.9	0.1	68	14.0	14.0	8.0	8.0	33.6	33.6	98.9	98.9	8.3		6.3		6		73				<0.2		0.6	
						3.9	0.1	70	14.0		8.0		33.6		98.9		8.3		6.3		6		74				<0.2		0.6	
					Bottom	6.7	0.1	83	14.0	14.0	8.0	8.0	33.6	33.6	99.2	99.2	8.3	8.3	7.1		6		75				<0.2		0.6	
						6.7	0.1	89	14.0		8.0		33.6		99.2		8.3		7.1		6		75				<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**

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Water Quality Monitoring

Water Quality Monitoring Results on 08 February 18 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	06:40	7.0	Surface	1.0	0.1	86	13.9	13.9	8.1	8.1	33.5	33.5	98.7	98.7	8.3	8.3	7.5	7.5	6	7	73	75	822110	808799	<0.2	<0.2	0.6	0.6
						1.0	0.2	93	13.9		8.1		33.5		98.7		8.3		7.5		5		73				<0.2		0.6	
					Middle	3.5	0.2	80	13.9	13.9	8.1	8.1	33.5	33.5	98.6	98.6	8.3		7.5		7		75				<0.2		0.6	
						3.5	0.2	87	13.9		8.1		33.5		98.6		8.3		7.5		5		76				<0.2		0.7	
					Bottom	6.0	0.1	69	13.9	13.9	8.1	8.1	33.6	33.6	98.3	98.3	8.3	8.3	7.4		9		75				<0.2		0.6	
						6.0	0.1	72	13.9		8.1		33.6		98.3		8.3		7.4		8		75				<0.2		0.6	
IM10	Cloudy	Moderate	06:32	7.3	Surface	1.0	0.1	103	14.2	14.2	8.0	8.0	33.5	33.5	98.3	98.3	8.2	8.2	5.4	5.6	5	4	73	75	822230	809822	<0.2	<0.2	0.6	0.6
						1.0	0.2	104	14.2		8.0		33.5		98.3		8.2		5.4		3		73				<0.2		0.6	
					Middle	3.7	0.2	99	14.2	14.2	8.0	8.0	33.5	33.5	98.4	98.4	8.2		5.5		4		75				<0.2		0.6	
						3.7	0.2	101	14.2		8.0		33.5		98.4		8.2		5.5		4		75				<0.2		0.6	
					Bottom	6.3	0.1	120	14.1	14.1	8.1	8.1	33.5	33.5	97.9	97.9	8.2	8.2	5.8		4		77				<0.2		0.6	
						6.3	0.1	128	14.1		8.1		33.5		97.9		8.2		5.8		5		76				<0.2		0.7	
IM11	Cloudy	Moderate	06:17	7.2	Surface	1.0	0.1	110	14.3	14.3	8.0	8.0	33.4	33.4	98.3	98.3	8.2	8.2	7.9	9.6	7	7	73	75	821502	810568	<0.2	<0.2	0.6	0.6
						1.0	0.1	120	14.3		8.0		33.4		98.3		8.2		7.9		7		73				<0.2		0.6	
					Middle	3.6	0.1	93	14.2	14.2	8.0	8.0	33.4	33.4	98.2	98.2	8.2		9.5		7		75				<0.2		0.5	
						3.6	0.1	100	14.2		8.0		33.4		98.2		8.2		9.5		6		75				<0.2		0.6	
					Bottom	6.2	0.1	62	14.1	14.1	8.1	8.1	33.5	33.5	97.7	97.7	8.2	8.2	11.5		6		77				<0.2		0.6	
						6.2	0.1	67	14.1		8.1		33.5		97.7		8.2		11.5		7		76				<0.2		0.7	
IM12	Cloudy	Moderate	06:00	8.4	Surface	1.0	0.1	152	14.8	14.8	8.0	8.0	33.2	33.2	96.3	96.3	8.0	8.0	4.7	4.9	4	4	73	75	821178	811547	<0.2	<0.2	0.5	0.6
						1.0	0.1	165	14.8		8.0		33.2		96.3		8.0		4.7		4		73				<0.2		0.6	
					Middle	4.2	0.1	145	14.8	14.8	8.0	8.0	33.2	33.2	95.2	95.2	7.9		4.9		6		75				<0.2		0.5	
						4.2	0.1	153	14.8		8.0		33.2		95.2		7.9		4.9		4		75				<0.2		0.6	
					Bottom	7.4	0.0	125	14.8	14.8	8.0	8.0	33.2	33.2	95.8	95.8	7.9	7.9	5.0		4		77				<0.2		0.6	
						7.4	0.0	126	14.8		8.0		33.2		95.8		7.9		5.0		4		76				<0.2		0.6	
SR2	Cloudy	Moderate	05:32	4.3	Surface	1.0	0.1	18	14.9	14.9	7.9	7.9	33.3	33.3	95.5	95.5	7.9	7.9	5.1	5.3	5	4	73	75	821489	814139	<0.2	<0.2	0.5	0.6
						1.0	0.1	19	14.9		7.9		33.3		95.5		7.9		5.1		3		73				<0.2		0.6	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.3	0.1	8	14.8	14.8	7.9	7.9	34.0	34.0	96.9	96.9	8.0	8.0	5.5		5		76				<0.2		0.5	
						3.3	0.1	8	14.8		7.9		34.0		96.9		8.0		5.5		4		76				<0.2		0.6	
SR3	Cloudy	Moderate	06:58	8.7	Surface	1.0	0.2	106	14.1	14.1	8.0	8.0	33.5	33.5	98.3	98.3	8.2	8.2	5.6	6.1	5	5	-	-	822134	807575	-	-	-	-
						1.0	0.2	116	14.1		8.0		33.5		98.3		8.2		5.6		6		-				-		-	
					Middle	4.4	0.1	116	14.1	14.1	8.0	8.0	33.5	33.5	98.3	98.3	8.2		6.1		5		-				-		-	
						4.4	0.1	124	14.1		8.0		33.5		98.3		8.2		6.1		5		-				-		-	
					Bottom	7.7	0.1	82	14.1	14.1	8.0	8.0	33.6	33.6	98.2	98.2	8.2	8.2	6.7		4		-				-		-	
						7.7	0.1	85	14.1		8.0		33.6		98.2		8.2		6.7		5		-				-		-	
SR4A	Cloudy	Calm	06:03	8.9	Surface	1.0	0.1	56	13.5	13.5	8.0	8.0	31.8	31.8	98.7	98.7	8.6	8.6	5.9	5.9	4	4	-	-	817205	807782	-	-	-	-
						1.0	0.2	56	13.5		8.0		31.8		98.6		8.6		5.9		4		-				-		-	
					Middle	4.5	0.2	70	13.6	13.6	8.0	8.0	31.8	31.8	98.3	98.3	8.6		5.9		5		-				-		-	
						4.5	0.2	75	13.6		8.0		31.8		98.3		8.6		5.9		4		-				-		-	
					Bottom	7.9	0.1	70	13.6	13.6	7.9	7.9	31.8	31.8	98.1	98.1	8.5	8.5	6.0		4		-				-		-	
						7.9	0.1	72	13.6		7.9		31.8		98.1		8.5		6.0		5		-				-		-	
SR5A	Cloudy	Calm	05:44	5.0	Surface	1.0	0.1	119	13.4	13.4	7.9	7.9	32.5	32.5	102.3	102.3	9.0	9.0	5.5	5.5	3	3	-	-	816594	810698	-	-	-	-
						1.0	0.1	122	13.4		7.9		32.5		102.3		9.0		5.5		3		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.0	0.1	119	13.4	13.4	7.8	7.8	32.5	32.5	101.9	101.9	8.9	8.9	5.5		4		-				-		-	
						4.0	0.1	129	13.4		7.8		32.5		101.9		8.9		5.5		3		-				-		-	
SR6	Cloudy	Calm	05:16	4.4	Surface	1.0	0.0	57	14.4	14.4	7.8	7.8	31.5	31.5	97.9	98.0	8.4	8.4	6.1	6.2	6	5	-	-	817905	814674	-	-	-	-
						1.0	0.0	62	14.4		7.9		31.5		98.1		8.4		6.2		5		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.4	0.0	56	14.4	14.4	7.8	7.8	31.5	31.5	100.0	100.3	8.6	8.6	6.5		4		-				-		-	
						3.4	0.0	59	14.4		7.8		31.5		100.6		8.6		6.1		5		-				-		-	
SR7	Cloudy	Moderate	04:33	16.2	Surface	1.0	0.0	255	15.4	15.4	7.9	7.9	33.1	33.1	92.6	92.6	7.6	7.6	4.5	3.7	2	3	-	-	823655	823768	-	-	-	-
						1.0	0.0	269	15.4		7.9		33.1		92.6		7.6		4.5		3		-				-		-	
					Middle	8.1	0.0	244	15.4	15.4	7.9	7.9	33.1	33.1	92.5	92.5	7.6		3.5		2		-				-		-	
						8.1	0.0	247	15.4		7.9		33.1		92.5		7.6		3.5		2		-				-		-	
					Bottom	15.2	0.1	237	15.4	15.4	7.9	7.9	33.1	33.1	94.6	94.6	7.7	7.7	3.2		4		-				-		-	
						15.2	0.1	250	15.4		7.9		33.1		94.6		7.7		3.2		2		-				-		-	
SR8	Cloudy	Moderate	05:51	4.3	Surface	1.0	-	-	14.3	14.3	8.0	8.0	33.2	33.2	97.5	97.5	8.1	8.1	6.5	7.1	5	5	-	-	820246	811418	-	-	-	-
						1.0	-	-	14.3		8.0		33.2		97.5		8.1		6.5		4		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.3	-	-	14.2	14.2	8.0	8.0	33.5	33.5	96.9	96.9	8.1	8.1	7.6		4		-				-		-	
						3.3	-	-	14.2		8.0		33.5		96.9		8.1		7.6		7		-				-		-	

DA: Depth-Averaged

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

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

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 08 February 18 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	12:20	8.6	Surface	1.0	0.4	56	14.1	14.1	8.1	8.1	32.5	32.5	101.0	101.0	8.5	8.5	6.2	7.5	4	5	73	75	815602	804237	<0.2	<0.2	0.5	0.5
						1.0	0.4	58	14.1		8.1		32.5		101.0		8.5		6.3		4		73				<0.2		0.5	
					Middle	4.3	0.3	45	14.1	14.1	8.1	8.1	32.5	32.5	100.4	100.4	8.5		7.3		5		75				<0.2		0.5	
						4.3	0.4	45	14.1		8.1		32.5		100.4		8.4		7.5		6		75				<0.2		0.5	
					Bottom	7.6	0.4	49	14.1	14.1	8.1	8.1	32.5	32.5	100.3	100.3	8.4	8.4	8.8		5		76				<0.2		0.5	
						7.6	0.4	50	14.1		8.1		32.5		100.3		8.4		8.9		5		76				<0.2		0.5	
C2	Cloudy	Moderate	11:05	11.3	Surface	1.0	0.1	317	14.6	14.6	8.0	8.0	31.7	31.7	97.9	97.9	8.2	8.2	3.9	4.2	3	3	73	74	825683	806958	<0.2	<0.2	1.0	1.1
						1.0	0.1	334	14.6		8.0		31.7		97.9		8.2		3.9		4		73				<0.2		1.0	
					Middle	5.7	0.2	323	14.6	14.6	8.0	8.0	32.0	32.0	97.9	97.9	8.2		4.2		2		74				<0.2		0.9	
						5.7	0.2	336	14.6		8.0		32.0		97.9		8.2		4.2		3		74				<0.2		0.9	
					Bottom	10.3	0.2	342	14.7	14.7	8.0	8.0	32.5	32.5	98.3	98.5	8.2	8.2	4.5		3		75				<0.2		0.9	
						10.3	0.2	315	14.7		8.0		32.6		98.6		8.2		4.3		4		75				<0.2		1.6	
C3	Cloudy	Moderate	13:03	12.5	Surface	1.0	0.4	269	15.5	15.5	7.9	7.9	32.7	32.7	94.7	94.7	7.7	7.8	3.4	3.3	<2	3	73	75	822121	817774	<0.2	<0.2	0.8	0.7
						1.0	0.4	271	15.5		7.9		32.7		94.7		7.7		3.4		<2		73				<0.2		0.7	
					Middle	6.3	0.4	277	15.5	15.5	7.9	7.9	32.6	32.6	95.4	95.4	7.8		3.3		4		75				<0.2		0.7	
						6.3	0.4	286	15.5		7.9		32.6		95.4		7.8		3.3		3		75				<0.2		0.6	
					Bottom	11.5	0.3	270	15.5	15.5	7.9	7.9	32.6	32.6	97.6	97.6	8.0	8.0	3.1		3		76				<0.2		0.7	
						11.5	0.3	287	15.5		7.9		32.6		97.6		8.0		3.1		4		77				<0.2		0.7	
IM1	Fine	Moderate	11:58	7.1	Surface	1.0	0.3	354	13.8	13.8	8.1	8.1	32.4	32.4	100.9	100.9	8.5	8.5	5.5	6.2	4	4	73	75	818344	806453	<0.2	<0.2	0.6	0.6
						1.0	0.3	326	13.8		8.1		32.4		100.9		8.5		5.6		4		73				<0.2		0.6	
					Middle	3.6	0.3	6	13.8	13.8	8.1	8.1	32.4	32.4	100.2	100.2	8.5		6.2		5		75				<0.2		0.6	
						3.6	0.3	6	13.8		8.1		32.4		100.2		8.5		6.3		3		75				<0.2		0.6	
					Bottom	6.1	0.2	353	13.7	13.7	8.1	8.1	32.4	32.4	99.8	99.8	8.5	8.5	6.8		6		77				<0.2		0.6	
						6.1	0.3	325	13.7		8.1		32.4		99.8		8.5		6.9		4		77				<0.2		0.6	
IM2	Fine	Moderate	11:52	8.1	Surface	1.0	0.3	20	13.9	13.9	8.1	8.1	32.4	32.4	100.4	100.4	8.5	8.5	6.0	7.1	4	4	73	75	818827	806206	<0.2	<0.2	0.6	0.6
						1.0	0.3	20	13.9		8.1		32.4		100.4		8.5		6.0		3		74				<0.2		0.6	
					Middle	4.1	0.3	0	13.8	13.8	8.1	8.1	32.4	32.4	99.7	99.7	8.4		7.0		4		75				<0.2		0.6	
						4.1	0.3	0	13.8		8.1		32.4		99.7		8.4		6.9		4		75				<0.2		0.5	
					Bottom	7.1	0.2	14	13.7	13.7	8.1	8.1	32.4	32.4	99.6	99.6	8.4	8.4	8.3		6		76				<0.2		0.6	
						7.1	0.2	15	13.7		8.1		32.4		99.6		8.4		8.3		4		76				<0.2		0.6	
IM3	Fine	Moderate	11:46	8.3	Surface	1.0	0.2	53	13.9	13.9	8.1	8.1	32.4	32.4	100.8	100.8	8.5	8.5	7.0	7.6	5	6	74	75	819383	806022	<0.2	<0.2	0.6	0.6
						1.0	0.2	53	13.9		8.1		32.4		100.8		8.5		7.0		6		74				<0.2		0.6	
					Middle	4.2	0.2	38	13.8	13.8	8.1	8.1	32.4	32.4	100.2	100.2	8.5		7.5		6		75				<0.2		0.5	
						4.2	0.2	41	13.8		8.1		32.4		100.1		8.5		7.7		5		75				<0.2		0.6	
					Bottom	7.3	0.2	28	13.7	13.7	8.1	8.1	32.4	32.4	99.8	99.8	8.5	8.5	8.3		7		76				<0.2		0.6	
						7.3	0.2	29	13.7		8.1		32.4		99.8		8.5		8.2		5		76				<0.2		0.6	
IM4	Fine	Moderate	11:38	7.4	Surface	1.0	0.2	45	13.9	13.9	8.1	8.1	32.5	32.5	100.8	100.8	8.5	8.5	7.6	9.2	6	6	73	75	819589	805060	<0.2	<0.2	0.6	0.6
						1.0	0.3	45	13.9		8.1		32.5		100.8		8.5		7.6		5		74				<0.2		0.6	
					Middle	3.7	0.3	54	13.8	13.8	8.1	8.1	32.5	32.5	100.3	100.3	8.5		8.3		5		75				<0.2		0.5	
						3.7	0.3	56	13.8		8.1		32.5		100.3		8.5		8.3		5		75				<0.2		0.6	
					Bottom	6.4	0.2	20	13.7	13.7	8.1	8.1	32.5	32.5	99.5	99.6	8.4	8.4	11.7		7		76				<0.2		0.6	
						6.4	0.2	20	13.7		8.1		32.5		99.6		8.4		11.7		6		76				<0.2		0.6	
IM5	Fine	Moderate	11:30	6.8	Surface	1.0	0.3	6	13.9	13.8	8.1	8.1	32.5	32.5	100.5	100.5	8.5	8.5	5.9	6.3	3	5	72	74	820574	804836	<0.2	<0.2	0.6	0.6
						1.0	0.3	6	13.8		8.1		32.5		100.4		8.5		6.0		3		72				<0.2		0.6	
					Middle	3.4	0.2	2	13.8	13.8	8.1	8.1	32.5	32.5	100.1	100.1	8.5		6.3		5		73				<0.2		0.6	
						3.4	0.2	2	13.8		8.1		32.5		100.0		8.5		6.3		7		74				<0.2		0.6	
					Bottom	5.8	0.3	4	13.8	13.8	8.1	8.1	32.5	32.5	99.7	99.7	8.5	8.5	6.5		6		76				<0.2		0.7	
						5.8	0.3	4	13.8		8.1		32.5		99.7		8.5		6.5		5		76				<0.2		0.6	
IM6	Fine	Moderate	11:18	6.5	Surface	1.0	0.2	313	14.0	14.0	8.1	8.1	32.3	32.3	100.2	100.3	8.5	8.5	5.5	7.1	4	4	72	73	821069	805803	<0.2	<0.2	0.8	0.7
						1.0	0.2	317	14.0		8.1		32.3		100.3		8.5		5.5		3		72				<0.2		0.8	
					Middle	3.3	0.3	349	13.9	13.9	8.1	8.1	32.4	32.4	100.0	100.0	8.5		6.4		3		73				<0.2		0.8	
						3.3	0.3	321	13.9		8.1		32.4		100.0		8.5		6.5		4		73				<0.2		0.7	
					Bottom	5.5	0.2	347	13.8	13.8	8.1	8.1	32.5	32.5	99.5	99.5	8.4	8.4	9.5		4		75				<0.2		0.6	
						5.5	0.3	319	13.8		8.1		32.5		99.5		8.4		9.4		4		75				<0.2		0.7	
IM7	Fine	Moderate	11:10	8.0	Surface	1.0	0.2	254	14.0	14.0	8.1	8.1	32.0	32.0	99.2	99.2	8.4	8.4	5.6	6.5	4	6	72	73	821338	806859	<0.2	<0.2	1.0	0.9
						1.0	0.2	273	14.0		8.1		32.0		99.2		8.4		5.7		3		72				<0.2		0.9	
					Middle	4.0	0.1	319	14.0	14.0	8.1	8.1	32.0	32.0	99.0	99.0	8.4		6.2		6		73				<0.2		0.8	
						4.0	0.1	335	14.0		8.1		32.0		99.0		8.4		6.3		6		73				<0.2		0.9	
					Bottom	7.0	0.2	318	13.9	13.9	8.1	8.1	32.1	32.1	98.9	98.9	8.4	8.4	7.7		8		75				<0.2		0.8	
						7.0	0.2	321	13.9		8.1		32.1		98.9		8.4		7.4		6		75				<0.2		0.9	
IM8	Cloudy	Moderate	11:30	8.0	Surface	1.0	0.1	315	14.4	14.4	8.0	8.0	32.1	32.1	100.7	100.7	8.4	8.5	4.6	4.9	6	5	73	74	821684	807836	<0.2	<0.2	0.9	0.9
						1.0	0.1	334	14.4		8.0		32.1		100.7		8.4		4.6		4		73				<0.2		0.8	
					Middle	4.0	0.1	346	14.2	14.2	8.0	8.0	32.1	32.1	100.5	100.5	8.5		5.1		6		74				<0.2		0.9	
						4.0	0.1	318	14.2		8.0		32.1		100.5		8.5		5.1		4		73				<0.2		0.8	
					Bottom	7.0	0.1	348	14.3	14.3	8.0	8.0	32.0	32.0	100.4	100.4	8.5	8.5	5.0		5		75				<0.2		0.9	
						7.0	0.1	357	14.3		8.0		32.0		100.4		8.5		5.0		5		75				<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**
Note: Access to IM5 was blocked by barge. The monitoring at IM5 was slightly shifted to the closest safe and accessible location temporarily.

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 08 February 18 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	11:38	6.8	Surface	1.0	0.2	302	14.1	14.1	8.0	8.0	32.4	32.4	101.7	101.7	8.6	8.6	5.6	5.9	4	6	73	74	822078	808822	<0.2	<0.2	0.7	0.7
						1.0	0.2	303	14.1		8.0		32.4		101.7		8.6		5.6		5		73				<0.2		0.6	
					Middle	3.4	0.2	311	14.1	14.1	8.0	8.0	32.4	32.4	101.6	101.6	8.6		5.9		6		74				<0.2		0.6	
						3.4	0.2	330	14.1		8.0		32.4		101.6		8.6		5.9		7		74				<0.2		0.8	
					Bottom	5.8	0.2	310	14.1	14.1	8.0	8.0	32.4	32.4	101.0	101.0	8.5	8.5	6.3		7		75				<0.2		0.8	
						5.8	0.2	330	14.1		8.0		32.4		101.0		8.5		6.3		6		75				<0.2		0.9	
IM10	Cloudy	Moderate	11:47	7.6	Surface	1.0	0.5	299	14.4	14.4	8.0	8.0	32.5	32.5	102.5	102.5	8.6	8.6	6.7	9.3	8	7	73	75	822260	809850	<0.2	<0.2	0.6	0.7
						1.0	0.5	325	14.4		8.0		32.5		102.5		8.6		6.7		8		73				<0.2		0.7	
					Middle	3.8	0.4	299	14.2	14.2	8.0	8.0	32.5	32.5	102.6	102.6	8.6		8.0		7		75				<0.2		0.7	
						3.8	0.4	324	14.2		8.0		32.5		102.6		8.6		8.0		6		75				<0.2		0.7	
					Bottom	6.6	0.3	308	14.2	14.2	8.0	8.0	32.5	32.5	102.5	102.5	8.6	8.6	13.2		8		75				<0.2		0.8	
						6.6	0.3	322	14.2		8.0		32.5		102.5		8.6		13.2		7		76				<0.2		0.7	
IM11	Cloudy	Moderate	12:02	7.4	Surface	1.0	0.4	286	14.8	14.8	8.0	8.0	32.5	32.5	100.8	100.9	8.4	8.4	4.4	5.2	4	5	73	74	821473	810538	<0.2	<0.2	0.7	0.7
						1.0	0.4	306	14.8		8.0		32.5		100.9		8.4		4.5		5		73				<0.2		0.7	
					Middle	3.7	0.4	286	14.5	14.5	8.0	8.0	32.5	32.5	100.6	100.6	8.4		5.4		5		74				<0.2		0.7	
						3.7	0.4	299	14.5		8.0		32.5		100.6		8.4		5.4		4		74				<0.2		0.7	
					Bottom	6.4	0.2	294	14.3	14.3	8.1	8.1	32.5	32.5	100.3	100.3	8.4	8.4	5.6		5		75				<0.2		0.6	
						6.4	0.2	314	14.3		8.1		32.5		100.3		8.4		5.6		7		75				<0.2		0.7	
IM12	Cloudy	Moderate	12:11	8.6	Surface	1.0	0.4	282	15.0	15.0	8.0	8.0	32.6	32.6	99.0	99.0	8.2	8.2	4.1	4.5	5	6	73	75	821135	811516	<0.2	<0.2	0.6	0.6
						1.0	0.4	283	15.0		8.0		32.6		99.0		8.2		4.1		4		73				<0.2		0.6	
					Middle	4.3	0.4	285	14.9	14.9	8.0	8.0	32.5	32.5	99.4	99.4	8.2		4.4		4		75				<0.2		0.6	
						4.3	0.4	302	14.9		8.0		32.5		99.4		8.2		4.4		5		75				<0.2		0.6	
					Bottom	7.6	0.3	276	14.6	14.6	8.0	8.0	32.5	32.5	100.1	100.1	8.3	8.3	5.1		7		77				<0.2		0.6	
						7.6	0.3	301	14.6		8.0		32.5		100.1		8.3		5.1		9		77				<0.2		0.7	
SR2	Cloudy	Moderate	12:40	3.6	Surface	1.0	0.1	135	15.1	15.1	7.9	7.9	32.1	32.1	98.7	98.7	8.2	8.2	6.3	5.6	6	6	73	74	821467	814181	<0.2	<0.2	0.7	0.7
						1.0	0.1	145	15.1		7.9		32.1		98.7		8.2		6.3		6		73				<0.2		0.7	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.6	0.1	144	15.1	15.1	7.9	7.9	32.2	32.2	100.3	100.3	8.3	8.3	4.9		5		75				<0.2		0.7	
						2.6	0.1	157	15.1		7.9		32.2		100.3		8.3		4.9		5		75				<0.2		0.7	
SR3	Cloudy	Moderate	11:25	8.6	Surface	1.0	0.0	32	14.4	14.4	8.0	8.0	31.6	31.6	100.3	100.3	8.4	8.4	4.5	4.7	5	5	-	-	822146	807563	-	-	-	-
						1.0	0.0	32	14.4		8.0		31.6		100.3		8.4		4.5		4		-				-		-	
					Middle	4.3	0.1	294	14.3	14.3	8.0	8.0	31.8	31.8	99.9	99.9	8.4		4.8		4		-				-		-	
						4.3	0.1	305	14.3		8.0		31.8		99.9		8.4		4.8		4		-				-		-	
					Bottom	7.6	0.1	359	14.2	14.2	8.0	8.0	32.1	32.1	99.4	99.4	8.4	8.4	4.9		6		-				-		-	
						7.6	0.1	330	14.2		8.0		32.1		99.4		8.4		4.9		5		-				-		-	
SR4A	Fine	Moderate	12:39	9.7	Surface	1.0	0.1	244	13.9	13.9	8.1	8.1	32.2	32.2	101.5	101.4	8.6	8.6	5.6	5.7	6	6	-	-	817198	807825	-	-	-	-
						1.0	0.1	257	13.9		8.1		32.2		101.2		8.6		5.7		6		-				-		-	
					Middle	4.9	0.1	242	13.6	13.6	8.1	8.1	32.3	32.3	99.5	99.5	8.5		5.6		6		-				-		-	
						4.9	0.1	260	13.6		8.1		32.3		99.5		8.5		5.6		5		-				-		-	
					Bottom	8.7	0.0	267	13.6	13.6	8.1	8.1	32.3	32.3	99.6	99.7	8.5	8.5	5.8		7		-				-		-	
						8.7	0.0	292	13.6		8.1		32.3		99.7		8.5		5.8		5		-				-		-	
SR5A	Fine	Moderate	12:57	5.0	Surface	1.0	0.1	283	13.8	13.8	8.1	8.1	31.9	31.9	105.0	104.9	8.9	8.9	5.3	5.5	5	6	-	-	816585	810678	-	-	-	-
						1.0	0.1	306	13.8		8.1		32.0		104.8		8.9		5.4		6		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.0	0.1	309	13.6	13.6	8.1	8.1	32.0	32.0	102.5	102.4	8.7	8.7	5.6		7		-				-		-	
						4.0	0.1	331	13.6		8.1		32.0		102.2		8.7		5.5		6		-				-		-	
SR6	Fine	Moderate	13:20	4.8	Surface	1.0	0.1	220	14.6	14.6	8.1	8.1	32.2	32.2	99.3	99.4	8.3	8.3	6.4	6.7	6	6	-	-	817889	814639	-	-	-	-
						1.0	0.1	237	14.6		8.1		32.2		99.4		8.3		6.5		7		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.8	0.1	233	14.5	14.5	8.1	8.1	32.2	32.2	99.7	99.8	8.3	8.3	6.9		5		-				-		-	
						3.8	0.1	237	14.5		8.1		32.2		99.8		8.3		7.1		5		-				-		-	
SR7	Cloudy	Moderate	13:38	17.2	Surface	1.0	0.1	11	15.5	15.5	7.9	7.9	32.1	32.1	92.6	92.6	7.6	7.6	4.0	4.0	4	4	-	-	823621	823734	-	-	-	-
						1.0	0.1	12	15.5		7.9		32.1		92.6		7.6		4.0		3		-				-		-	
					Middle	8.6	0.2	32	15.5	15.5	7.9	7.9	32.1	32.1	92.7	92.7	7.6		4.0		6		-				-		-	
						8.6	0.2	34	15.5		7.9		32.1		92.7		7.6		4.0		4		-				-		-	
					Bottom	16.2	0.1	6	15.5	15.5	7.9	7.9	32.0	32.0	93.2	93.2	7.7	7.7	4.0		5		-				-		-	
						16.2	0.2	6	15.5		7.9		32.0		93.2		7.7		4.0		4		-				-		-	
SR8	Cloudy	Moderate	12:22	4.3	Surface	1.0	-	-	14.9	14.9	8.0	8.0	32.5	32.5	101.7	101.7	8.4	8.4	6.2	6.2	8	9	-	-	820246	811418	-	-	-	-
						1.0	-	-	14.9		8.0		32.5		101.7		8.4		6.2		8		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.3	-	-	14.6	14.6	8.0	8.0	32.6	32.6	101.8	101.8	8.5	8.5	6.1		8		-				-		-	
						3.3	-	-	14.6		8.0		32.6		101.8		8.5		6.1		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 11 February 18 during Mid-Ebb Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
C1	Cloudy	Moderate	10:37	8.5	Surface	1.0	0.2	94	14.8	14.8	8.1	8.1	30.7	30.7	103.1	103.1	8.7	8.6	5.1	7.9	4	5	73	75	815615	804245	<0.2	<0.2	1.6	1.3
						1.0	0.2	102	14.8		8.1		30.7		103.1		8.7		5.1		4		74				<0.2		1.6	
					Middle	4.3	0.1	97	14.7	14.7	8.1	8.1	32.2	32.2	100.5	100.5	8.4		7.8		4		75				<0.2		1.5	
						4.3	0.1	102	14.7		8.1		32.2		100.5		8.4		7.8		4		74				<0.2		1.5	
					Bottom	7.5	0.1	123	14.6	14.6	8.1	8.1	32.4	32.4	100.4	100.4	8.4	8.4	10.7		6		77				<0.2		0.7	
						7.5	0.1	133	14.6		8.1		32.4		100.4		8.4		10.7		8		77				<0.2		0.7	
C2	Fine	Moderate	09:32	11.3	Surface	1.0	0.2	354	15.4	15.4	8.1	8.1	30.6	30.7	102.7	102.7	8.5	8.5	1.9	2.4	4	5	73	74	825657	806947	<0.2	<0.2	1.6	1.4
						1.0	0.2	358	15.4		8.1		30.7		102.6		8.5		2.0		5		73				<0.2		1.6	
					Middle	5.7	0.2	24	15.3	15.3	8.2	8.2	31.1	31.1	102.0	102.0	8.5		2.7		5		74				<0.2		1.4	
						5.7	0.2	24	15.3		8.2		31.1		102.0		8.5		2.7		6		74				<0.2		1.5	
					Bottom	10.3	0.1	328	15.3	15.3	8.2	8.2	31.0	31.0	102.4	102.5	8.5	8.5	2.7		5		76				<0.2		1.1	
						10.3	0.1	344	15.3		8.2		31.0		102.5		8.5		2.6		6		76				<0.2		1.2	
C3	Fine	Moderate	11:03	11.7	Surface	1.0	0.2	102	15.8	15.8	8.1	8.1	32.3	32.3	93.0	93.0	7.6	7.6	1.5	1.4	5	3	73	73	822125	817800	<0.2	<0.2	0.5	0.5
						1.0	0.2	111	15.8		8.1		32.3		93.0		7.6		1.5		3		73				<0.2		0.5	
					Middle	5.9	0.1	95	15.7	15.7	8.1	8.1	32.3	32.3	92.4	92.5	7.6		1.4		3		73				<0.2		0.5	
						5.9	0.1	98	15.7		8.1		32.3		92.5		7.6		1.4		3		73				<0.2		0.5	
					Bottom	10.7	0.1	90	15.6	15.6	8.1	8.1	32.3	32.3	93.7	93.8	7.7	7.7	1.4		3		74				<0.2		0.5	
						10.7	0.1	90	15.6		8.1		32.3		93.8		7.7		1.4		3		74				<0.2		0.5	
IM1	Cloudy	Moderate	10:19	7.1	Surface	1.0	0.1	92	14.9	14.9	8.1	8.1	30.9	30.9	106.2	106.2	8.9	8.9	5.0	5.3	5	5	72	75	818375	806465	<0.2	<0.2	1.4	1.5
						1.0	0.1	94	14.9		8.1		30.9		106.2		8.9		5.0		4		73				<0.2		1.5	
					Middle	3.6	0.1	143	14.8	14.8	8.1	8.1	30.9	30.9	104.6	104.6	8.8		5.4		5		75				<0.2		1.5	
						3.6	0.1	143	14.8		8.1		30.9		104.6		8.8		5.4		4		75				<0.2		1.5	
					Bottom	6.1	0.0	38	14.9	14.9	8.1	8.1	31.4	31.4	102.6	102.6	8.6	8.6	5.6		4		77				<0.2		1.5	
						6.1	0.0	38	14.9		8.1		31.4		102.6		8.6		5.6		6		77				<0.2		1.3	
IM2	Cloudy	Moderate	10:13	8.1	Surface	1.0	0.0	125	14.8	14.8	8.1	8.1	30.7	30.7	104.4	104.4	8.8	8.7	5.4	6.6	4	4	73	75	818844	806192	<0.2	<0.2	1.5	1.5
						1.0	0.0	135	14.8		8.1		30.7		104.4		8.8		5.4		4		72				<0.2		1.6	
					Middle	4.1	0.0	348	14.7	14.7	8.1	8.1	31.0	31.0	103.1	103.1	8.6		6.5		4		75				<0.2		1.5	
						4.1	0.0	320	14.7		8.1		31.0		103.1		8.6		6.5		5		76				<0.2		1.5	
					Bottom	7.1	0.1	59	14.7	14.7	8.1	8.1	31.8	31.8	102.3	102.3	8.5	8.5	7.8		5		76				<0.2		1.4	
						7.1	0.1	59	14.7		8.1		31.8		102.3		8.5		7.8		4		77				<0.2		1.5	
IM3	Cloudy	Moderate	10:07	8.2	Surface	1.0	0.1	5	14.8	14.8	8.1	8.1	30.8	30.8	105.0	105.0	8.8	8.8	4.9	5.7	4	6	73	74	819429	806046	<0.2	<0.2	1.7	1.6
						1.0	0.1	5	14.8		8.1		30.8		105.0		8.8		4.9		4		73				<0.2		1.6	
					Middle	4.1	0.2	17	14.7	14.7	8.1	8.1	30.8	30.8	103.4	103.4	8.7		5.5		6		74				<0.2		1.5	
						4.1	0.2	18	14.7		8.1		30.8		103.4		8.7		5.5		4		75				<0.2		1.7	
					Bottom	7.2	0.2	21	14.7	14.7	8.1	8.1	31.7	31.7	102.0	102.0	8.5	8.5	6.8		10		76				<0.2		1.6	
						7.2	0.2	22	14.7		8.1		31.7		102.0		8.5		6.8		8		75				<0.2		1.7	
IM4	Cloudy	Moderate	09:59	7.4	Surface	1.0	0.1	83	14.8	14.8	8.1	8.1	30.4	30.4	104.1	104.1	8.8	8.7	6.3	9.1	3	6	73	75	819555	805014	<0.2	<0.2	2.0	1.6
						1.0	0.1	87	14.8		8.1		30.4		104.1		8.8		6.3		5		73				<0.2		1.9	
					Middle	3.7	0.2	20	14.7	14.7	8.1	8.1	31.7	31.7	103.0	103.0	8.6		10.9		4		75				<0.2		1.9	
						3.7	0.2	20	14.7		8.1		31.7		103.0		8.6		10.9		5		75				<0.2		1.9	
					Bottom	6.4	0.2	65	14.7	14.7	8.1	8.1	31.7	31.7	102.3	102.3	8.5	8.5	10.0		9		76				<0.2		1.1	
						6.4	0.2	69	14.7		8.1		31.7		102.3		8.5		10.0		11		77				<0.2		1.0	
IM5	Cloudy	Moderate	09:49	7.3	Surface	1.0	0.1	50	14.8	14.8	8.1	8.1	30.7	30.7	103.7	103.7	8.7	8.7	5.7	6.0	6	6	73	74	820573	804896	<0.2	<0.2	1.9	1.9
						1.0	0.2	54	14.8		8.1		30.7		103.7		8.7		5.7		5		73				<0.2		1.9	
					Middle	3.7	0.1	278	14.8	14.8	8.1	8.1	31.5	31.5	102.9	102.9	8.6		6.4		5		74				<0.2		1.9	
						3.7	0.1	290	14.8		8.1		31.5		102.9		8.6		6.4		7		74				<0.2		1.9	
					Bottom	6.3	0.1	352	14.7	14.7	8.1	8.1	31.4	31.4	101.4	101.4	8.5	8.5	6.0		5		74				<0.2		1.9	
						6.3	0.1	324	14.7		8.1		31.4		101.4		8.5		6.0		5		76				<0.2		1.8	
IM6	Cloudy	Moderate	09:41	6.7	Surface	1.0	0.1	41	14.8	14.8	8.1	8.1	30.9	30.9	105.6	105.6	8.9	8.9	5.1	5.6	7	7	73	74	821070	805844	<0.2	<0.2	1.3	1.5
						1.0	0.1	44	14.8		8.1		30.9		105.6		8.9		5.1		7		73				<0.2		1.3	
					Middle	3.4	0.2	144	14.7	14.7	8.1	8.1	30.9	30.9	104.9	104.9	8.8		5.3		7		74				<0.2		1.4	
						3.4	0.2	147	14.7		8.1		30.9		104.9		8.8		5.3		6		74				<0.2		1.3	
					Bottom	5.7	0.1	176	14.7	14.7	8.1	8.1	31.1	31.1	103.6	103.6	8.7	8.7	6.4		8		75				<0.2		1.8	
						5.7	0.1	187	14.7		8.1		31.1		103.5		8.7		6.4		7		75				<0.2		2.0	
IM7	Cloudy	Moderate	09:33	8.2	Surface	1.0	0.1	69	14.8	14.8	8.2	8.2	31.2	31.2	105.7	105.7	8.8	8.8	5.6	5.9	7	6	73	74	821343	806846	<0.2	<0.2	1.3	1.6
						1.0	0.1	73	14.8		8.2		31.2		105.7		8.8		5.6		6		73				<0.2		1.5	
					Middle	4.1	0.1	337	14.8	14.8	8.2	8.2	31.3	31.3	104.7	104.7	8.8		6.0		6		74				<0.2		1.4	
						4.1	0.1	344	14.8		8.2		31.3		104.7		8.8		6.0		5		74				<0.2		1.5	
					Bottom	7.2	0.1	22	14.8	14.8	8.2	8.2	31.4	31.4	103.7	103.7	8.7	8.7	6.1		6		75				<0.2		2.1	
						7.2	0.1	23	14.8		8.2		31.4		103.7		8.7		6.1		5		75				<0.2		1.8	
IM8	Fine	Moderate	09:59	8.1	Surface	1.0	0.2	99	15.2	15.2	8.2	8.2	31.3	31.3	108.0	108.0	9.0	9.0	7.8	4.8	7	7	74	74	821717	807863	<0.2	<0.2	1.2	1.2
						1.0	0.2	101	15.2		8.2		31.3		107.9		9.0		7.8		6		74				<0.2		1.2	
					Middle	4.1	0.1	110	15.2	15.2	8.2	8.2	31.3	31.3	107.0	107.0	8.9		3.3		8		74				<0.2		1.2	
						4.1	0.1	110	15.1		8.2		31.3		106.9		8.9		3.4		8		74				<0.2		1.2	
					Bottom	7.1	0.2	51	15.1	15.1	8.2	8.2	31.3	31.3	105.5	105.5	8.8	8.8	3.3		7		75				<0.2		1.1	
						7.1	0.2	55	15.1		8.2		31.3		105.4		8.8		3.3		8		75				<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 11 February 18 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	10:07	7.2	Surface	1.0	0.2	107	15.2	15.2	8.3	8.3	30.8	30.8	105.5	105.5	8.8	8.8	5.2	5.2	8	10	74	74	822077	808797	<0.2	<0.2	1.5	1.5
						1.0	0.2	111	15.2		8.3		30.8		105.4		8.8		5.4		9		74				<0.2		1.4	
					Middle	3.6	0.1	62	15.2	15.2	8.2	8.2	31.0	31.0	104.4	104.3	8.7		5.4		11		74				<0.2		1.4	
						3.6	0.1	67	15.2		8.2		31.0		104.2		8.7		5.4		10		74				<0.2		1.3	
					Bottom	6.2	0.1	123	15.2	15.2	8.2	8.2	31.0	31.0	101.8	101.7	8.5	8.5	5.0		10		75				<0.2		1.5	
						6.2	0.1	132	15.2		8.2		31.0		101.5		8.4		5.0		10		75				<0.2		1.6	
IM10	Fine	Moderate	10:15	6.2	Surface	1.0	0.2	142	15.4	15.4	8.2	8.2	31.5	31.5	101.1	101.1	8.3	8.3	6.7	4.6	9	10	73	74	822210	809817	<0.2	<0.2	1.0	1.0
						1.0	0.2	148	15.4		8.2		31.5		101.1		8.3		6.7		9		73				<0.2		1.0	
					Middle	3.1	0.3	18	15.4	15.4	8.2	8.2	31.5	31.5	100.7	100.7	8.3		3.5		8		74				<0.2		1.0	
						3.1	0.4	18	15.4		8.2		31.5		100.7		8.3		3.5		7		74				<0.2		1.0	
					Bottom	5.2	0.1	18	15.4	15.4	8.2	8.2	31.5	31.5	100.7	100.7	8.3	8.3	3.5		12		75				<0.2		1.0	
						5.2	0.1	19	15.4		8.2		31.5		100.6		8.3		3.6		12		75				<0.2		1.0	
IM11	Fine	Moderate	10:29	7.6	Surface	1.0	0.2	146	15.5	15.5	8.2	8.2	31.5	31.5	101.6	101.6	8.4	8.4	3.0	3.0	5	6	73	74	821474	810524	<0.2	<0.2	1.0	1.0
						1.0	0.2	157	15.5		8.2		31.5		101.6		8.4		3.0		6		73				<0.2		1.1	
					Middle	3.8	0.1	211	15.5	15.5	8.2	8.2	31.5	31.5	101.3	101.3	8.4		3.0		6		74				<0.2		1.0	
						3.8	0.1	225	15.5		8.2		31.5		101.3		8.3		3.0		7		74				<0.2		0.9	
					Bottom	6.6	0.3	272	15.5	15.5	8.1	8.1	31.5	31.5	100.9	100.8	8.3	8.3	3.0		6		75				<0.2		0.9	
						6.6	0.3	285	15.5		8.1		31.5		100.7		8.3		3.0		6		75				<0.2		1.0	
IM12	Fine	Moderate	10:37	8.7	Surface	1.0	0.2	315	15.5	15.5	8.2	8.2	31.5	31.5	101.5	101.5	8.4	8.3	2.6	5.1	5	5	73	74	821137	811546	<0.2	<0.2	1.0	1.0
						1.0	0.2	318	15.5		8.2		31.5		101.4		8.4		2.6		5		73				<0.2		0.9	
					Middle	4.4	0.0	7	15.5	15.5	8.2	8.2	31.5	31.5	100.2	100.1	8.3		2.6		5		73				<0.2		0.9	
						4.4	0.0	7	15.5		8.2		31.6		100.0		8.2		2.5		6		74				<0.2		1.0	
					Bottom	7.7	0.2	164	15.5	15.5	8.2	8.1	31.7	31.7	99.4	99.5	8.2	8.2	10.1		5		75				<0.2		0.9	
						7.7	0.2	176	15.5		8.1		31.7		99.6		8.2		10.0		6		75				<0.2		1.0	
SR2	Fine	Moderate	10:47	4.5	Surface	1.0	0.2	17	15.5	15.5	8.2	8.2	31.5	31.5	102.9	102.8	8.5	8.5	3.2	3.1	6	8	73	74	821453	814151	<0.2	<0.2	1.0	1.0
						1.0	0.2	17	15.5		8.2		31.5		102.7		8.4		3.1		8		73				<0.2		1.0	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.5	0.2	11	15.5	15.5	8.2	8.2	31.6	31.6	102.7	102.7	8.4	8.4	2.9		9		74				<0.2		0.9	
						3.5	0.2	11	15.5		8.2		31.6		102.7		8.4		3.0		7		74				<0.2		0.9	
SR3	Fine	Moderate	09:52	8.3	Surface	1.0	0.1	101	15.2	15.2	8.2	8.2	30.9	30.9	107.4	107.4	8.9	8.9	2.7	3.8	5	7	-	-	822172	807589	-	-	-	-
						1.0	0.1	105	15.2		8.2		30.9		107.4		8.9		2.7		4		-				-		-	
					Middle	4.2	0.1	46	15.2	15.2	8.2	8.2	31.2	31.2	106.4	106.4	8.8		2.9		7		-				-		-	
						4.2	0.2	48	15.2		8.2		31.2		106.3		8.8		2.9		9		-				-		-	
					Bottom	7.3	0.1	21	15.1	15.1	8.2	8.2	31.3	31.3	105.8	105.8	8.8	8.8	5.6		8		-				-		-	
						7.3	0.1	22	15.1		8.2		31.3		105.7		8.8		5.8		7		-				-		-	
SR4A	Cloudy	Moderate	10:58	8.4	Surface	1.0	0.2	86	14.9	14.9	8.1	8.1	30.9	30.9	111.5	111.5	9.3	9.4	5.1	4.9	4	3	-	-	817188	807820	-	-	-	-
						1.0	0.2	87	14.9		8.1		30.9		111.5		9.3		5.1		2		-				-		-	
					Middle	4.2	0.2	85	14.9	14.9	8.2	8.2	31.6	31.6	112.3	112.3	9.4		4.9		4		-				-		-	
						4.2	0.2	85	14.9		8.2		31.6		112.3		9.4		4.9		3		-				-		-	
					Bottom	7.4	0.2	88	14.9	14.9	8.2	8.2	32.0	32.0	110.8	110.8	9.2	9.2	4.7		4		-				-		-	
						7.4	0.2	90	14.9		8.2		32.0		110.8		9.2		4.7		3		-				-		-	
SR5A	Cloudy	Moderate	11:14	3.7	Surface	1.0	0.0	19	14.9	14.9	8.2	8.2	31.9	31.9	113.3	113.3	9.4	9.4	4.9	4.9	4	5	-	-	816615	810700	-	-	-	-
						1.0	0.0	20	14.9		8.2		31.9		113.3		9.4		4.9		6		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.7	0.0	82	14.9	14.9	8.2	8.2	31.9	31.9	109.0	109.0	9.1	9.1	4.9		4		-				-		-	
						2.7	0.0	85	14.9		8.2		31.9		109.0		9.1		4.9		4		-				-		-	
SR6	Cloudy	Moderate	11:37	4.2	Surface	1.0	0.1	42	15.3	15.3	8.1	8.1	31.5	31.5	101.8	101.8	8.4	8.4	6.7	7.2	5	8	-	-	817897	814641	-	-	-	-
						1.0	0.1	44	15.3		8.1		31.5		101.8		8.4		6.7		5		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.2	0.1	37	15.3	15.3	8.1	8.1	31.5	31.5	101.7	101.7	8.4	8.4	7.6		12		-				-		-	
						3.2	0.1	37	15.3		8.1		31.5		101.7		8.4		7.6		10		-				-		-	
SR7	Fine	Moderate	11:26	19.5	Surface	1.0	0.1	141	15.6	15.6	8.1	8.1	32.3	32.3	92.4	92.4	7.5	7.6	1.7	1.6	4	4	-	-	823652	823760	-	-	-	-
						1.0	0.1	147	15.6		8.1		32.3		92.4		7.6		1.7		2		-				-		-	
					Middle	9.8	0.1	198	15.7	15.7	8.1	8.1	32.3	32.3	92.5	92.5	7.6		1.6		5		-				-		-	
						9.8	0.1	215	15.7		8.1		32.3		92.5		7.6		1.6		4		-				-		-	
					Bottom	18.5	0.1	221	15.7	15.7	8.1	8.1	32.3	32.3	93.1	93.2	7.6	7.6	1.5		4		-				-		-	
						18.5	0.1	224	15.7		8.1		32.3		93.2		7.6		1.5		5		-				-		-	
SR8	Fine	Moderate	10:47	3.9	Surface	1.0	-	-	15.5	15.5	8.2	8.2	31.7	31.6	101.6	102.8	8.5	8.6	3.2	3.3	5	5	-	-	820246	811418	-	-	-	-
						1.0	-	-	15.5		8.2		31.4		104.0		8.6		3.3		5		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.9	-	-	15.5	15.6	8.2	8.2	31.4	31.4	101.7	101.6	8.4	8.4	3.3		4		-				-		-	
						2.9	-	-	15.6		8.2		31.4		101.4		8.3		3.2		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 11 February 18 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	05:54	8.3	Surface	1.0	0.2	41	14.8	14.8	8.1	8.1	30.7	30.7	103.7	103.7	8.7	8.7	6.8	12.0	3	4	73	75	815612	804236	<0.2	<0.2	1.6	1.5
						1.0	0.2	44	14.8		8.1		30.7		103.7		8.7		6.8		4		73				<0.2		1.5	
					Middle	4.2	0.3	45	14.7	14.7	8.1	8.1	31.8	31.8	102.8	102.8	8.6		12.1		4		75				<0.2		1.6	
						4.2	0.3	47	14.7		8.1		31.8		102.8		8.6		12.1		3		75				<0.2		1.4	
					Bottom	7.3	0.3	48	14.7	14.7	8.1	8.1	32.0	32.0	102.1	102.1	8.5	8.5	17.2		6		75				<0.2		1.4	
						7.3	0.4	48	14.7		8.1		32.0		102.1		8.5		17.2		6		76				<0.2		1.4	
C2	Fine	Moderate	07:23	11.3	Surface	1.0	0.2	9	15.4	15.4	8.1	8.1	30.7	30.7	101.3	101.3	8.4	8.4	2.2	3.0	3	4	73	74	825663	806932	<0.2	<0.2	1.6	1.4
						1.0	0.3	9	15.4		8.1		30.7		101.3		8.4		2.1		4		73				<0.2		1.5	
					Middle	5.7	0.3	351	15.4	15.4	8.2	8.2	31.2	31.2	100.9	100.9	8.3		3.0		3		74				<0.2		1.3	
						5.7	0.3	323	15.4		8.2		31.3		100.8		8.3		3.1		5		74				<0.2		1.4	
					Bottom	10.3	0.2	334	15.4	15.4	8.2	8.2	31.5	31.4	100.3	100.3	8.3	8.3	3.8		4		75				<0.2		1.2	
						10.3	0.2	337	15.4		8.2		31.4		100.3		8.3		3.8		3		75				<0.2		1.2	
C3	Fine	Moderate	04:55	10.0	Surface	1.0	0.3	253	15.4	15.5	8.1	8.1	31.8	31.8	94.9	94.8	7.8	7.7	1.8	1.7	3	4	72	73	822100	817814	<0.2	<0.2	1.1	1.3
						1.0	0.3	273	15.5		8.1		31.8		94.6		7.8		1.8		2		72				<0.2		1.0	
					Middle	5.0	0.3	265	15.6	15.6	8.1	8.1	32.2	32.2	93.3	93.3	7.6		1.6		3		73				<0.2		1.0	
						5.0	0.3	286	15.6		8.1		32.2		93.3		7.6		1.6		2		73				<0.2		1.5	
					Bottom	9.0	0.3	261	15.6	15.6	8.1	8.1	32.2	32.2	94.4	94.5	7.7	7.7	1.7		6		74				<0.2		1.5	
						9.0	0.3	265	15.6		8.1		32.2		94.6		7.7		1.7		7		74				<0.2		1.5	
IM1	Cloudy	Moderate	06:12	6.8	Surface	1.0	0.3	17	14.8	14.8	8.2	8.2	31.2	31.2	104.3	104.3	8.7	8.7	6.4	6.4	3	5	73	75	818322	806448	<0.2	<0.2	1.3	1.2
						1.0	0.3	18	14.8		8.2		31.2		104.3		8.7		6.4		3		73				<0.2		1.2	
					Middle	3.4	0.3	15	14.8	14.8	8.2	8.2	31.2	31.2	103.6	103.6	8.7		6.4		4		75				<0.2		1.3	
						3.4	0.3	16	14.8		8.2		31.2		103.6		8.7		6.4		3		75				<0.2		1.3	
					Bottom	5.8	0.3	4	14.8	14.8	8.2	8.2	31.4	31.4	100.4	100.4	8.4	8.4	6.5		9		76				<0.2		1.2	
						5.8	0.4	4	14.8		8.2		31.4		100.4		8.4		6.5		8		77				<0.2		1.1	
IM2	Cloudy	Moderate	06:21	7.9	Surface	1.0	0.2	49	14.9	14.9	8.2	8.2	31.0	31.0	104.9	104.9	8.8	8.8	6.5	7.1	6	6	74	75	818829	806210	<0.2	<0.2	1.3	1.5
						1.0	0.2	51	14.9		8.2		31.0		104.9		8.8		6.5		6		73				<0.2		1.6	
					Middle	4.0	0.3	30	14.9	14.9	8.2	8.2	31.4	31.4	103.9	103.9	8.7		7.0		6		75				<0.2		1.4	
						4.0	0.4	31	14.9		8.2		31.4		103.9		8.7		7.0		5		75				<0.2		1.4	
					Bottom	6.9	0.3	13	14.9	14.9	8.1	8.1	31.8	31.8	102.2	102.2	8.5	8.5	7.7		6		76				<0.2		1.5	
						6.9	0.3	14	14.9		8.1		31.8		102.2		8.5		7.7		6		76				<0.2		1.8	
IM3	Cloudy	Moderate	06:29	7.6	Surface	1.0	0.2	28	14.8	14.8	8.1	8.1	30.8	30.8	104.8	104.8	8.8	8.8	6.5	8.5	6	6	73	74	819381	806035	<0.2	<0.2	1.6	1.5
						1.0	0.2	29	14.8		8.1		30.8		104.8		8.8		6.5		4		73				<0.2		1.8	
					Middle	3.8	0.3	11	14.9	14.9	8.1	8.1	31.1	31.1	104.2	104.2	8.7		7.5		7		75				<0.2		1.5	
						3.8	0.3	11	14.9		8.1		31.1		104.2		8.7		7.5		8		74				<0.2		1.4	
					Bottom	6.6	0.2	21	14.8	14.8	8.1	8.1	31.7	31.7	102.6	102.6	8.6	8.6	11.5		7		75				<0.2		1.5	
						6.6	0.2	22	14.8		8.1		31.7		102.6		8.6		11.5		6		76				<0.2		1.0	
IM4	Cloudy	Moderate	06:38	7.3	Surface	1.0	0.3	9	14.8	14.8	8.1	8.1	31.0	31.0	104.1	104.1	8.7	8.7	6.3	7.3	4	6	73	75	819590	805033	<0.2	<0.2	1.6	1.5
						1.0	0.3	9	14.8		8.1		31.0		104.1		8.7		6.3		5		73				<0.2		1.4	
					Middle	3.7	0.3	12	14.8	14.8	8.1	8.1	31.0	31.0	103.4	103.4	8.7		6.8		6		75				<0.2		1.6	
						3.7	0.3	12	14.8		8.1		31.0		103.4		8.7		6.8		7		75				<0.2		1.4	
					Bottom	6.3	0.2	19	14.7	14.7	8.1	8.1	31.7	31.7	102.2	102.2	8.5	8.5	8.7		7		76				<0.2		1.3	
						6.3	0.2	20	14.7		8.1		31.7		102.2		8.5		8.7		6		76				<0.2		1.4	
IM5	Cloudy	Moderate	06:55	6.4	Surface	1.0	0.4	3	15.1	15.1	8.2	8.2	30.7	30.7	104.8	104.8	8.7	8.7	3.4	4.7	7	7	73	74	820584	804904	<0.2	<0.2	1.5	1.5
						1.0	0.4	3	15.1		8.2		30.7		104.7		8.7		3.4		6		73				<0.2		1.6	
					Middle	3.2	0.3	13	15.1	15.1	8.2	8.2	31.1	31.1	103.7	103.6	8.6		4.5		5		74				<0.2		1.4	
						3.2	0.4	13	15.1		8.2		31.1		103.5		8.6		4.8		6		73				<0.2		1.5	
					Bottom	5.4	0.3	6	15.0	15.0	8.2	8.2	31.4	31.4	102.3	102.3	8.5	8.5	6.0		7		74				<0.2		1.3	
						5.4	0.3	6	14.9		8.2		31.5		102.2		8.5		5.9		9		74				<0.2		1.4	
IM6	Cloudy	Moderate	06:46	6.6	Surface	1.0	0.2	6	15.2	15.2	8.2	8.2	30.5	30.5	103.5	103.5	8.6	8.6	4.4	8.6	6	8	73	74	821046	805814	<0.2	<0.2	1.4	1.4
						1.0	0.2	6	15.2		8.2		30.5		103.5		8.6		4.4		7		73				<0.2		1.5	
					Middle	3.3	0.1	21	15.2	15.2	8.2	8.2	30.7	30.7	102.8	102.7	8.6		4.5		6		73				<0.2		1.4	
						3.3	0.1	21	15.2		8.2		30.7		102.6		8.6		4.6		5		74				<0.2		1.5	
					Bottom	5.6	0.1	12	15.2	15.2	8.1	8.1	30.7	30.7	101.7	101.7	8.5	8.5	16.1		10		74				<0.2		1.3	
						5.6	0.1	12	15.1		8.1		30.7		101.6		8.5		17.5		11		75				<0.2		1.4	
IM7	Cloudy	Moderate	06:36	8.0	Surface	1.0	0.5	244	15.2	15.2	8.2	8.2	30.6	30.6	104.6	104.7	8.7	8.7	3.3	3.7	5	6	72	73	821322	806848	<0.2	<0.2	1.3	1.4
						1.0	0.5	246	15.2		8.2		30.6		104.7		8.7		3.3		6		73				<0.2		1.3	
					Middle	4.0	0.4	251	15.2	15.2	8.2	8.2	30.7	30.7	104.7	104.7	8.7		3.8		5		73				<0.2		1.4	
						4.0	0.4	265	15.2		8.2		30.7		104.7		8.7		3.8		6		74				<0.2		1.4	
					Bottom	7.0	0.3	276	15.2	15.2	8.3	8.3	30.7	30.7	104.1	104.1	8.7	8.7	3.9		8		74				<0.2		1.3	
						7.0	0.4	301	15.2		8.3		30.7		104.0		8.7		3.9		6		74				<0.2		1.5	
IM8	Fine	Moderate	06:22	7.6	Surface	1.0	0.1	52	15.2	15.2	8.2	8.2	30.4	30.4	102.9	102.9	8.6	8.6	3.7	3.8	7	7	73	74	821699	807844	<0.2	<0.2	1.7	1.6
						1.0	0.1	53	15.2		8.2		30.4		102.9		8.6		3.6		7		74				<0.2		1.6	
					Middle	3.8	0.1	351	15.3	15.3	8.2	8.2	30.4	30.4	102.0	102.0	8.5		3.8		5		74				<0.2		1.6	
						3.8	0.1	323	15.3		8.2		30.4		101.9		8.5		3.8		6		74				<0.2		1.6	
					Bottom	6.6	0.1	354	15.3	15.3	8.2	8.2	30.5	30.5	101.3	101.3	8.4	8.4	3.9		10		75				<0.2		1.6	
						6.6	0.1	326	15.3		8.2		30.5		101.3		8.4		3.9		8		75				<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 11 February 18 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	06:14	6.6	Surface	1.0	0.2	325	15.3	15.3	8.2	8.2	30.7	30.7	104.1	104.1	8.6	8.6	4.7	5.9	6	10	73	74	822114	808803	<0.2	<0.2	1.6	1.5
						1.0	0.2	333	15.3		8.2		30.7		104.1		8.6		4.7		8		73				<0.2		1.5	
					Middle	3.3	0.2	335	15.3	15.3	8.2	8.2	30.7	30.7	103.8	103.8	8.6		6.4		11		74				<0.2		1.4	
						3.3	0.2	353	15.3		8.2		30.7		103.7		8.6		6.1		12		74				<0.2		1.4	
					Bottom	5.6	0.1	330	15.3	15.3	8.2	8.2	30.7	30.7	103.5	103.5	8.6	8.6	6.7		12		75				<0.2		1.4	
						5.6	0.2	350	15.3		8.2		30.7		103.4		8.6		6.7		10		75				<0.2		1.6	
IM10	Fine	Moderate	06:07	6.8	Surface	1.0	0.4	307	15.4	15.4	8.2	8.2	31.3	31.3	105.8	105.8	8.7	8.7	5.1	7.1	11	10	73	74	822224	809822	<0.2	<0.2	1.3	1.3
						1.0	0.4	308	15.4		8.2		31.3		105.7		8.7		5.4		9		73				<0.2		1.3	
					Middle	3.4	0.4	313	15.4	15.4	8.2	8.2	31.4	31.4	104.8	104.7	8.7		7.1		9		74				<0.2		1.2	
						3.4	0.4	316	15.4		8.2		31.4		104.6		8.6		7.6		9		74				<0.2		1.4	
					Bottom	5.8	0.3	329	15.4	15.4	8.2	8.2	31.4	31.4	103.4	103.3	8.5	8.5	8.5		10		75				<0.2		1.3	
						5.8	0.3	329	15.4		8.2		31.4		103.2		8.5		9.1		9		75				<0.2		1.1	
IM11	Fine	Moderate	05:51	7.4	Surface	1.0	0.4	292	15.5	15.5	8.2	8.2	31.5	31.5	106.1	106.1	8.7	8.7	4.5	7.7	8	11	73	74	821489	810533	<0.2	<0.2	1.2	1.1
						1.0	0.5	320	15.5		8.2		31.5		106.1		8.7		4.6		8		73				<0.2		1.1	
					Middle	3.7	0.4	286	15.6	15.6	8.2	8.2	31.6	31.6	106.0	106.0	8.7		7.8		10		74				<0.2		1.3	
						3.7	0.4	302	15.6		8.2		31.6		106.0		8.7		8.1		11		74				<0.2		1.1	
					Bottom	6.4	0.3	288	15.6	15.6	8.2	8.2	31.6	31.6	105.5	105.5	8.7	8.7	10.7		14		75				<0.2		1.0	
						6.4	0.3	292	15.6		8.2		31.6		105.4		8.7		10.5		13		75				<0.2		1.0	
IM12	Fine	Moderate	05:43	7.1	Surface	1.0	0.5	274	15.5	15.5	8.2	8.2	31.6	31.6	99.7	99.6	8.2	8.2	4.1	7.7	7	14	73	74	821181	811508	<0.2	<0.2	1.0	0.9
						1.0	0.5	276	15.5		8.2		31.6		99.5		8.2		4.1		5		73				<0.2		1.0	
					Middle	3.6	0.5	268	15.4	15.4	8.2	8.2	31.7	31.7	98.3	98.3	8.1		7.3		12		73				<0.2		1.0	
						3.6	0.5	275	15.4		8.2		31.7		98.3		8.1		7.5		12		73				<0.2		0.9	
					Bottom	6.1	0.4	270	15.4	15.4	8.2	8.2	31.7	31.7	98.6	98.7	8.1	8.1	11.8		25		74				<0.2		0.8	
						6.1	0.4	291	15.4		8.2		31.7		98.7		8.1		11.2		23		75				<0.2		0.8	
SR2	Fine	Moderate	05:16	4.0	Surface	1.0	0.1	19	15.4	15.4	8.2	8.2	31.6	31.6	98.3	98.3	8.1	8.1	3.2	3.3	5	6	72	73	821455	814162	<0.2	<0.2	0.9	1.0
						1.0	0.1	19	15.4		8.2		31.6		98.3		8.1		3.2		6		72				<0.2		0.9	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.0	0.1	29	15.4	15.4	8.2	8.2	31.6	31.6	98.2	98.2	8.1	8.1	3.3		6		73				<0.2		1.0	
						3.0	0.1	31	15.4		8.2		31.6		98.2		8.1		3.3		6		73				<0.2		1.0	
SR3	Fine	Moderate	06:27	8.6	Surface	1.0	0.3	18	15.2	15.2	8.2	8.2	30.4	30.4	102.5	102.5	8.6	8.5	3.7	8.2	6	6	-	-	822156	807583	-	-	-	-
						1.0	0.3	18	15.2		8.2		30.4		102.4		8.5		3.7		5		-				-		-	
					Middle	4.3	0.3	21	15.2	15.2	8.2	8.2	30.5	30.5	101.5	101.5	8.5		3.7		6		-				-		-	
						4.3	0.3	21	15.2		8.2		30.5		101.5		8.5		3.7		5		-				-		-	
					Bottom	7.6	0.3	10	15.2	15.2	8.2	8.2	30.6	30.6	101.1	101.1	8.4	8.4	16.7		6		-				-		-	
						7.6	0.3	10	15.1		8.2		30.7		101.1		8.4		17.5		6		-				-		-	
SR4A	Cloudy	Moderate	05:33	8.4	Surface	1.0	0.3	253	14.9	14.9	8.2	8.2	32.0	32.0	114.1	114.1	9.5	9.5	6.0	5.9	6	6	-	-	817191	807803	-	-	-	-
						1.0	0.3	270	14.9		8.2		32.0		114.1		9.5		6.0		7		-				-		-	
					Middle	4.2	0.3	248	14.9	14.9	8.2	8.2	32.0	32.0	112.8	112.8	9.4		5.8		5		-				-		-	
						4.2	0.3	271	14.9		8.2		32.0		112.8		9.4		5.8		6		-				-		-	
					Bottom	7.4	0.3	253	15.0	15.0	8.2	8.2	32.0	32.0	110.4	110.4	9.2	9.2	5.9		8		-				-		-	
						7.4	0.3	276	15.0		8.2		32.0		110.4		9.2		5.9		6		-				-		-	
SR5A	Cloudy	Moderate	05:18	4.0	Surface	1.0	0.2	291	14.8	14.8	8.2	8.2	31.9	31.9	109.9	109.9	9.1	9.1	6.4	6.9	8	8	-	-	816587	810686	-	-	-	-
						1.0	0.2	305	14.8		8.2		31.9		109.9		9.1		6.4		6		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.0	0.2	292	14.8	14.8	8.2	8.2	31.9	31.9	104.1	104.1	8.7	8.7	7.4		8		-				-		-	
						3.0	0.2	304	14.8		8.2		31.9		104.1		8.7		7.4		11		-				-		-	
SR6	Cloudy	Moderate	04:55	3.4	Surface	1.0	0.1	258	15.3	15.3	8.0	8.0	31.5	31.5	99.0	99.0	8.2	8.2	7.1	7.4	6	6	-	-	817924	814675	-	-	-	-
						1.0	0.1	276	15.3		8.0		31.5		99.0		8.2		7.1		5		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.4	0.1	265	15.3	15.3	8.0	8.0	31.5	31.5	99.6	99.6	8.2	8.2	7.7		6		-				-		-	
						2.4	0.1	278	15.3		8.0		31.5		99.6		8.2		7.7		6		-				-		-	
SR7	Fine	Moderate	04:34	21.0	Surface	1.0	0.2	55	15.7	15.7	8.1	8.1	32.3	32.3	91.6	91.6	7.5	7.5	1.6	1.6	4	6	-	-	823649	823744	-	-	-	-
						1.0	0.2	60	15.7		8.1		32.3		91.6		7.5		1.6		6		-				-		-	
					Middle	10.5	0.2	35	15.7	15.7	8.1	8.1	32.3	32.3	91.5	91.5	7.5		1.5		8		-				-		-	
						10.5	0.3	36	15.7		8.1		32.3		91.5		7.5		1.5		6		-				-		-	
					Bottom	20.0	0.2	32	15.6	15.6	8.1	8.1	32.3	32.3	91.9	91.9	7.5	7.5	1.7		6		-				-		-	
						20.0	0.2	35	15.6		8.1		32.3		91.9		7.5		1.6		7		-				-		-	
SR8	Fine	Calm	05:35	3.7	Surface	1.0	-	-	15.4	15.4	8.2	8.2	30.7	30.7	105.3	105.3	8.7	8.7	6.1	7.5	5	5	-	-	820246	811418	-	-	-	-
						1.0	-	-	15.4		8.2		30.7		105.3		8.7		6.4		4		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.7	-	-	15.4	15.4	8.2	8.2	30.7	30.7	104.9	104.9	8.7	8.7	8.6		5		-				-		-	
						2.7	-	-	15.4		8.2		30.7		104.9		8.7		8.7		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 13 February 18 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	11:32	8.2	Surface	1.0	0.1	32	15.2	15.2	8.1	8.1	32.7	32.7	102.9	102.9	8.5	8.5	6.7	7.2	5	7	73	74	815624	804244	<0.2	<0.2	0.6	0.6
						1.0	0.1	32	15.2		8.1		32.7		102.8		8.5		6.9		4		73				<0.2		0.5	
					Middle	4.1	0.1	76	15.0	15.0	8.1	8.1	32.7	32.7	102.1	102.1	8.4		7.2		9		75				<0.2		0.5	
						4.1	0.1	82	15.0		8.1		32.7		102.1		8.4		7.4		9		75				<0.2		0.6	
					Bottom	7.2	0.1	4	15.0	15.0	8.1	8.1	32.7	32.7	101.9	101.9	8.4	8.4	7.4		7		75				<0.2		0.6	
						7.2	0.1	4	15.0		8.1		32.7		101.9		8.4		7.5		9		75				<0.2		0.5	
C2	Fine	Moderate	10:28	11.9	Surface	1.0	0.1	18	15.4	15.4	8.3	8.3	31.4	31.4	98.1	98.1	8.1	8.1	0.9	1.1	6	8	72	73	825664	806924	<0.2	<0.2	1.1	1.2
						1.0	0.1	18	15.4		8.3		31.4		98.1		8.1		0.9		8		72				<0.2		1.1	
					Middle	6.0	0.1	27	15.3	15.3	8.3	8.3	31.4	31.4	97.5	97.5	8.1		1.0		6		73				<0.2		1.1	
						6.0	0.1	27	15.3		8.3		31.4		97.5		8.1		1.1		8		73				<0.2		1.2	
					Bottom	10.9	0.1	35	15.3	15.3	8.3	8.3	31.4	31.4	97.4	97.4	8.0	8.0	1.5		8		75				<0.2		1.2	
						10.9	0.1	37	15.3		8.3		31.4		97.4		8.0		1.5		9		75				<0.2		1.2	
C3	Fine	Moderate	12:16	12.0	Surface	1.0	0.4	95	15.8	15.8	8.3	8.3	32.0	32.0	96.6	96.6	7.9	7.9	0.2	1.0	4	6	73	75	822111	817791	<0.2	<0.2	1.0	1.0
						1.0	0.5	100	15.8		8.3		32.0		96.6		7.9		0.2		5		73				<0.2		1.0	
					Middle	6.0	0.3	94	15.6	15.6	8.3	8.3	32.2	32.2	95.8	95.8	7.8		1.1		5		75				<0.2		1.0	
						6.0	0.3	103	15.6		8.3		32.2		95.8		7.8		1.1		4		75				<0.2		0.9	
					Bottom	11.0	0.3	97	15.6	15.6	8.3	8.3	32.2	32.2	97.4	97.4	8.0	8.0	1.7		7		76				<0.2		1.0	
						11.0	0.3	101	15.6		8.3		32.2		97.4		8.0		1.6		8		77				<0.2		1.0	
IM1	Fine	Moderate	11:13	7.2	Surface	1.0	0.1	18	15.2	15.2	8.1	8.1	32.5	32.5	104.7	104.7	8.6	8.6	5.7	6.4	5	9	73	75	818372	806437	<0.2	<0.2	0.8	0.8
						1.0	0.2	19	15.2		8.1		32.5		104.7		8.6		5.7		6		73				<0.2		0.9	
					Middle	3.6	0.1	33	14.9	14.9	8.1	8.1	32.5	32.5	103.3	103.3	8.6		6.3		10		75				<0.2		0.8	
						3.6	0.1	33	14.9		8.1		32.5		103.3		8.6		6.3		12		75				<0.2		0.8	
					Bottom	6.2	0.1	18	14.9	14.9	8.1	8.1	32.5	32.5	103.0	103.0	8.5	8.5	7.0		11		75				<0.2		0.6	
						6.2	0.1	18	14.9		8.1		32.5		103.0		8.5		7.1		10		76				<0.2		0.6	
IM2	Fine	Moderate	11:08	8.1	Surface	1.0	0.2	57	15.2	15.2	8.1	8.1	32.4	32.4	105.0	105.0	8.7	8.7	5.4	6.5	8	9	73	75	818829	806200	<0.2	<0.2	0.7	0.7
						1.0	0.2	57	15.2		8.1		32.4		104.9		8.7		5.5		7		74				<0.2		0.7	
					Middle	4.1	0.1	40	14.9	14.9	8.1	8.1	32.5	32.5	103.7	103.7	8.6		6.5		8		75				<0.2		0.7	
						4.1	0.2	40	14.9		8.1		32.5		103.6		8.6		6.7		9		75				<0.2		0.6	
					Bottom	7.1	0.1	37	14.9	14.9	8.1	8.1	32.5	32.5	103.0	103.0	8.5	8.5	7.5		10		77				<0.2		0.6	
						7.1	0.1	38	14.9		8.1		32.5		103.0		8.5		7.5		9		77				<0.2		0.7	
IM3	Fine	Moderate	11:03	8.4	Surface	1.0	0.1	76	15.1	15.1	8.1	8.1	32.4	32.4	104.7	104.7	8.6	8.6	5.9	7.0	5	6	73	75	819432	806017	<0.2	<0.2	0.7	0.7
						1.0	0.1	81	15.1		8.1		32.4		104.6		8.6		6.0		6		73				<0.2		0.7	
					Middle	4.2	0.1	57	14.9	14.9	8.1	8.1	32.5	32.5	103.5	103.5	8.6		6.9		5		75				<0.2		0.7	
						4.2	0.1	59	14.9		8.1		32.5		103.5		8.6		7.1		5		76				<0.2		0.6	
					Bottom	7.4	0.1	5	14.9	14.9	8.1	8.1	32.5	32.5	103.0	103.0	8.5	8.5	8.1		7		75				<0.2		0.6	
						7.4	0.1	5	14.9		8.1		32.5		103.0		8.5		8.2		5		76				<0.2		0.6	
IM4	Fine	Moderate	10:56	7.7	Surface	1.0	0.1	339	15.1	15.0	8.1	8.1	32.4	32.4	105.1	105.1	8.7	8.7	5.5	5.6	6	8	73	75	819591	805051	<0.2	<0.2	0.8	0.7
						1.0	0.1	312	15.0		8.1		32.4		105.1		8.7		5.5		5		73				<0.2		0.7	
					Middle	3.9	0.2	355	14.9	14.9	8.1	8.1	32.4	32.4	103.9	103.9	8.6		5.6		8		75				<0.2		0.7	
						3.9	0.2	327	14.9		8.1		32.4		103.9		8.6		5.5		8		75				<0.2		0.8	
					Bottom	6.7	0.1	351	14.9	14.9	8.1	8.1	32.4	32.4	103.3	103.3	8.6	8.6	5.8		10		75				<0.2		0.7	
						6.7	0.1	323	14.9		8.1		32.4		103.3		8.6		5.9		9		76				<0.2		0.7	
IM5	Fine	Moderate	10:47	6.8	Surface	1.0	0.1	45	14.9	14.9	8.1	8.1	32.3	32.3	104.7	104.7	8.7	8.7	6.3	7.0	8	10	74	75	820567	804922	<0.2	<0.2	0.8	0.8
						1.0	0.1	45	14.9		8.1		32.3		104.7		8.7		6.3		10		73				<0.2		0.7	
					Middle	3.4	0.1	24	14.9	14.9	8.1	8.1	32.3	32.3	103.9	103.9	8.6		7.0		10		75				<0.2		0.9	
						3.4	0.1	24	14.9		8.1		32.3		103.8		8.6		7.0		10		75				<0.2		0.8	
					Bottom	5.8	0.1	31	14.9	14.9	8.1	8.1	32.3	32.3	103.2	103.2	8.6	8.6	7.5		10		75				<0.2		0.7	
						5.8	0.1	33	14.9		8.1		32.3		103.2		8.6		7.6		10		76				<0.2		0.7	
IM6	Fine	Moderate	10:38	6.9	Surface	1.0	0.1	76	15.1	15.1	8.2	8.2	32.0	32.0	106.6	106.6	8.8	8.8	5.4	5.8	7	9	73	75	821051	805812	<0.2	<0.2	0.9	0.9
						1.0	0.1	77	15.1		8.2		32.0		106.6		8.8		5.4		8		73				<0.2		0.9	
					Middle	3.5	0.1	75	14.9	14.9	8.2	8.2	32.1	32.1	105.7	105.6	8.8		5.5		8		75				<0.2		0.9	
						3.5	0.1	78	14.9		8.2		32.1		105.5		8.8		5.6		8		75				<0.2		0.8	
					Bottom	5.9	0.1	65	14.8	14.8	8.2	8.2	32.1	32.1	104.3	104.3	8.7	8.7	6.4		11		76				<0.2		1.0	
						5.9	0.1	70	14.8		8.2		32.1		104.3		8.7		6.4		13		76				<0.2		1.0	
IM7	Fine	Moderate	10:30	8.2	Surface	1.0	0.1	83	15.1	15.1	8.2	8.2	32.0	32.0	105.6	105.7	8.7	8.8	5.5	6.2	10	11	73	75	821348	806809	<0.2	<0.2	1.0	1.0
						1.0	0.1	85	15.1		8.2		32.0		105.7		8.8		5.5		9		73				<0.2		1.0	
					Middle	4.1	0.2	39	14.9	14.9	8.2	8.2	32.0	32.0	105.4	105.4	8.8		6.9		12		75				<0.2		0.9	
						4.1	0.2	41	14.9		8.2		32.0		105.4		8.8		6.9		11		75				<0.2		1.0	
					Bottom	7.2	0.1	13	14.9	14.9	8.2	8.2	32.1	32.1	104.3	104.3	8.7	8.7	6.3		13		76				<0.2		1.0	
						7.2	0.2	13	14.9		8.2		32.1		104.3		8.7		6.3		12		76				<0.2		0.9	
IM8	Fine	Moderate	10:53	8.6	Surface	1.0	0.2	68	15.2	15.2	8.4	8.4	31.6	31.6	103.9	103.9	8.6	8.6	3.1	3.6	3	10	73	74	821686	807825	<0.2	<0.2	1.0	1.1
						1.0	0.2	72	15.2		8.4		31.6		103.9		8.6		3.2		4		73				<0.2		1.2	
					Middle	4.3	0.1	80	15.1	15.1	8.4	8.4	31.7	31.7	102.9	102.9	8.5		3.3		10		74				<0.2		1.1	
						4.3	0.1	80	15.1		8.4		31.7		102.9		8.5		3.4		9		74				<0.2		1.1	
					Bottom	7.6	0.1	79	15.1	15.1	8.4	8.4	31.6	31.6	101.4	101.4	8.4	8.4	4.4		15		74				<0.2		1.0	
						7.6	0.1	86	15.1		8.4		31.6		101.4		8.4		4.4		16		75				<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 13 February 18 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	11:00	7.1	Surface	1.0	0.2	79	15.3	15.3	8.4	8.4	31.7	31.7	102.7	102.6	8.5	8.5	3.1	3.5	9	10	73	74	822071	808793	<0.2	<0.2	1.1	1.3
						1.0	0.2	84	15.3		8.4		31.7		102.6		8.5		3.1		9		73				<0.2		1.4	
					Middle	3.6	0.2	83	15.2	15.2	8.4	8.4	31.7	31.7	102.0	101.9	8.4		3.4		10		74				<0.2		1.1	
						3.6	0.2	84	15.2		8.4		31.8		101.9		8.4		3.4		10		74				<0.2		1.2	
					Bottom	6.1	0.2	78	15.2	15.2	8.4	8.4	31.8	31.8	101.4	101.3	8.4	8.4	4.0		10		74				<0.2		1.3	
						6.1	0.2	80	15.2		8.4		31.8		101.3		8.4		4.0		10		75				<0.2		1.4	
IM10	Fine	Moderate	11:09	6.9	Surface	1.0	0.1	83	15.4	15.4	8.3	8.3	31.7	31.7	103.7	103.7	8.5	8.5	0.9	1.5	5	7	73	74	822218	809861	<0.2	<0.2	1.1	1.2
						1.0	0.1	91	15.4		8.3		31.7		103.7		8.5		1.0		6		73				<0.2		1.2	
					Middle	3.5	0.1	81	15.4	15.4	8.3	8.3	31.7	31.7	102.9	102.9	8.5		1.7		7		74				<0.2		0.9	
						3.5	0.1	86	15.4		8.3		31.7		102.9		8.5		1.6		6		74				<0.2		1.2	
					Bottom	5.9	0.1	90	15.4	15.4	8.3	8.3	31.7	31.7	102.1	102.1	8.4	8.4	2.0		9		75				<0.2		1.4	
						5.9	0.1	98	15.4		8.3		31.7		102.1		8.4		2.0		8		76				<0.2		1.2	
IM11	Fine	Moderate	11:20	8.2	Surface	1.0	0.2	92	15.5	15.5	8.3	8.3	31.6	31.6	104.0	104.0	8.5	8.5	1.8	2.2	6	8	73	75	821478	810559	<0.2	<0.2	1.3	1.2
						1.0	0.3	96	15.5		8.3		31.6		104.0		8.5		1.9		5		73				<0.2		1.2	
					Middle	4.1	0.2	100	15.4	15.4	8.3	8.3	31.7	31.7	102.6	102.5	8.5		1.9		8		75				<0.2		1.2	
						4.1	0.2	108	15.4		8.3		31.7		102.5		8.4		2.0		8		76				<0.2		1.2	
					Bottom	7.2	0.2	97	15.3	15.3	8.3	8.3	31.7	31.7	101.9	101.9	8.4	8.4	2.9		10		76				<0.2		1.2	
						7.2	0.2	106	15.3		8.3		31.7		102.0		8.4		2.9		9		76				<0.2		1.2	
IM12	Fine	Moderate	11:28	8.9	Surface	1.0	0.1	123	15.7	15.7	8.3	8.3	31.7	31.7	104.1	104.1	8.5	8.5	1.3	1.5	8	8	73	74	821163	811530	<0.2	<0.2	1.2	1.2
						1.0	0.2	130	15.7		8.3		31.7		104.1		8.5		1.4		7		73				<0.2		1.1	
					Middle	4.5	0.1	132	15.4	15.4	8.4	8.4	31.7	31.7	102.9	102.8	8.5		1.2		8		74				<0.2		1.1	
						4.5	0.1	132	15.4		8.4		31.7		102.8		8.5		1.3		8		75				<0.2		1.2	
					Bottom	7.9	0.2	97	15.3	15.3	8.3	8.3	31.7	31.7	102.0	101.9	8.4	8.4	1.8		8		75				<0.2		1.2	
						7.9	0.2	105	15.3		8.3		31.7		101.9		8.4		1.7		7		76				<0.2		1.3	
SR2	Fine	Moderate	11:55	4.1	Surface	1.0	0.1	64	15.5	15.5	8.3	8.3	31.8	31.8	101.5	101.4	8.3	8.3	2.6	3.5	8	8	73	74	821441	814155	<0.2	<0.2	1.3	1.3
						1.0	0.1	67	15.5		8.3		31.8		101.4		8.3		2.7		9		74				<0.2		1.2	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.1	0.1	82	15.5	15.5	8.3	8.3	31.8	31.7	101.7	101.7	8.3	8.4	4.2		7		75				<0.2		1.3	
						3.1	0.1	85	15.5		8.3		31.7		101.8		8.4		4.4		7		75				<0.2		1.2	
SR3	Fine	Moderate	10:48	9.1	Surface	1.0	0.2	57	15.3	15.3	8.3	8.3	31.7	31.7	102.0	101.9	8.4	8.4	1.2	1.3	6	9	-	-	822139	807579	-	-	-	-
						1.0	0.2	58	15.3		8.3		31.7		101.9		8.4		1.2		7		-				-		-	
					Middle	4.6	0.2	45	15.2	15.2	8.4	8.4	31.7	31.7	101.3	101.3	8.4		1.2		7		-				-		-	
						4.6	0.2	45	15.2		8.4		31.8		101.3		8.4		1.2		8		-				-		-	
					Bottom	8.1	0.2	43	15.2	15.2	8.4	8.4	31.8	31.8	101.0	101.0	8.3	8.3	1.4		12		-				-		-	
						8.1	0.2	46	15.2		8.4		31.8		101.0		8.3		1.5		13		-				-		-	
SR4A	Fine	Calm	11:51	8.6	Surface	1.0	0.2	71	15.2	15.2	8.1	8.1	32.4	32.4	105.3	105.3	8.7	8.7	4.6	4.8	11	11	-	-	817180	807816	-	-	-	-
						1.0	0.3	74	15.2		8.1		32.5		105.2		8.7		4.6		11		-				-		-	
					Middle	4.3	0.2	87	15.1	15.1	8.1	8.1	32.5	32.5	104.3	104.3	8.6		4.7		11		-				-		-	
						4.3	0.2	87	15.0		8.1		32.5		104.2		8.6		4.8		12		-				-		-	
					Bottom	7.6	0.1	88	15.0	15.0	8.1	8.1	32.5	32.5	103.4	103.4	8.5	8.5	4.9		12		-				-		-	
						7.6	0.1	89	15.0		8.1		32.5		103.4		8.5		4.9		11		-				-		-	
SR5A	Fine	Calm	12:07	5.1	Surface	1.0	0.1	131	15.3	15.3	8.2	8.2	31.9	31.9	111.2	111.2	9.2	9.2	4.9	4.9	6	7	-	-	816590	810701	-	-	-	-
						1.0	0.1	141	15.3		8.2		31.9		111.1		9.2		4.8		8		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.1	0.1	136	15.2	15.2	8.2	8.2	31.9	31.9	109.0	109.0	9.0	9.0	5.0		8		-				-		-	
						4.1	0.1	138	15.2		8.2		31.9		108.9		9.0		5.0		7		-				-		-	
SR6	Fine	Calm	12:33	4.1	Surface	1.0	0.1	43	16.2	16.2	8.2	8.2	31.9	31.9	116.4	116.3	9.4	9.4	5.0	5.1	9	11	-	-	817883	814669	-	-	-	-
						1.0	0.1	46	16.2		8.2		31.9		116.2		9.4		5.1		9		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.1	0.1	42	15.5	15.5	8.2	8.2	31.9	31.9	113.3	113.3	9.3	9.3	5.1		12		-				-		-	
						3.1	0.1	44	15.5		8.2		31.9		113.2		9.3		5.1		13		-				-		-	
SR7	Fine	Moderate	12:54	16.4	Surface	1.0	0.4	62	15.6	15.6	8.3	8.3	32.2	32.2	94.9	94.8	7.8	7.8	0.2	0.9	6	8	-	-	823653	823746	-	-	-	-
						1.0	0.4	66	15.6		8.3		32.2		94.8		7.8		0.2		6		-				-		-	
					Middle	8.2	0.3	49	15.6	15.6	8.3	8.3	32.2	32.2	94.8	94.8	7.8		1.0		7		-				-		-	
						8.2	0.3	51	15.6		8.3		32.2		94.8		7.8		1.1		8		-				-		-	
					Bottom	15.4	0.3	30	15.6	15.6	8.3	8.3	32.2	32.2	95.5	95.5	7.8	7.8	1.5		11		-				-		-	
						15.4	0.3	30	15.6		8.3		32.2		95.6		7.8		1.5		10		-				-		-	
SR8	Fine	Moderate	11:38	4.3	Surface	1.0	-	-	15.8	15.8	8.3	8.4	31.7	31.7	104.5	104.4	8.5	8.5	2.0	1.7	8	10	-	-	820246	811418	-	-	-	-
						1.0	-	-	15.8		8.4		31.8		104.4		8.5		1.9		9		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.3	-	-	15.7	15.7	8.3	8.3	31.6	31.6	104.5	104.4	8.5	8.5	1.4		11		-				-		-	
						3.3	-	-	15.8		8.3		31.6		104.4		8.5		1.4		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 13 February 18 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
C1	Cloudy	Moderate	06:56	8.2	Surface	1.0	0.4	51	14.9	14.9	8.1	8.1	32.5	32.5	102.2	102.2	8.5	8.5	8.9	11.2	9	10	73	75	815593	804245	<0.2	<0.2	0.7	0.7
						1.0	0.4	54	14.9		8.1		32.5		102.2		8.5		9.1		10		73				<0.2		0.7	
					Middle	4.1	0.4	50	14.9	14.9	8.1	8.1	32.5	32.5	102.1	102.1	8.5		11.8		10		75				<0.2		0.6	
						4.1	0.4	54	14.9		8.1		32.5		102.1		8.5		12.0		9		75				<0.2		0.7	
					Bottom	7.2	0.3	51	14.9	14.9	8.1	8.1	32.5	32.5	101.8	101.8	8.4	8.4	12.7		12		75				<0.2		0.8	
						7.2	0.3	52	14.9		8.1		32.5		101.8		8.4		12.8		10		76				<0.2		0.7	
C2	Fine	Moderate	07:49	11.3	Surface	1.0	0.4	336	15.4	15.4	8.3	8.3	31.3	31.3	97.6	97.5	8.1	8.1	1.4	2.1	5	8	72	73	825668	806942	<0.2	<0.2	1.4	1.4
						1.0	0.4	359	15.4		8.3		31.3		97.5		8.1		1.4		6		72				<0.2		1.5	
					Middle	5.7	0.4	348	15.4	15.4	8.3	8.3	31.4	31.4	98.1	98.1	8.1		2.1		8		73				<0.2		1.4	
						5.7	0.4	354	15.4		8.3		31.4		98.1		8.1		2.2		9		73				<0.2		1.5	
					Bottom	10.3	0.3	355	15.4	15.4	8.3	8.3	31.4	31.4	99.3	99.3	8.2	8.2	2.7		12		74				<0.2		1.2	
						10.3	0.3	327	15.4		8.3		31.4		99.4		8.2		2.8		10		75				<0.2		1.2	
C3	Fine	Moderate	05:51	11.0	Surface	1.0	0.3	248	12.6	12.6	7.8	7.8	31.9	31.9	94.3	94.2	10.0	10.0	4.8	6.1	5	4	73	75	822131	817808	<0.2	<0.2	0.9	0.9
						1.0	0.3	255	12.6		7.8		31.9		94.2		10.0		4.9		4		73				<0.2		0.9	
					Middle	5.5	0.3	252	12.5	12.5	7.8	7.8	31.9	31.9	94.3	94.3	10.0		3.8		4		74				<0.2		1.0	
						5.5	0.3	252	12.5		7.8		31.9		94.3		10.0		3.9		2		74				<0.2		1.0	
					Bottom	10.0	0.3	258	12.4	12.4	7.7	7.7	31.9	31.9	94.1	94.1	10.0	10.0	9.7		5		76				<0.2		0.9	
						10.0	0.3	281	12.4		7.7		31.9		94.1		10.0		9.7		4		77				<0.2		0.9	
IM1	Cloudy	Moderate	07:14	7.4	Surface	1.0	0.4	1	14.8	14.8	8.2	8.2	32.0	32.0	104.9	104.9	8.7	8.7	7.0	8.0	6	7	73	75	818355	806477	<0.2	<0.2	0.9	0.9
						1.0	0.4	1	14.8		8.2		32.0		104.8		8.7		7.2		6		73				<0.2		0.9	
					Middle	3.7	0.4	357	14.8	14.8	8.2	8.2	32.0	32.0	104.5	104.5	8.7		8.1		6		75				<0.2		0.8	
						3.7	0.4	328	14.8		8.2		32.0		104.4		8.7		8.3		5		75				<0.2		0.8	
					Bottom	6.4	0.3	356	14.8	14.8	8.2	8.2	32.0	32.0	104.0	104.0	8.7	8.7	8.6		9		76				<0.2		0.9	
						6.4	0.4	328	14.8		8.2		32.0		104.0		8.7		8.5		10		76				<0.2		0.9	
IM2	Cloudy	Moderate	07:18	7.9	Surface	1.0	0.4	9	14.9	14.9	8.2	8.2	31.9	31.9	103.8	103.8	8.6	8.6	7.0	9.4	11	11	73	75	818852	806214	<0.2	<0.2	0.9	0.9
						1.0	0.4	9	14.9		8.2		31.9		103.8		8.6		7.2		10		73				<0.2		0.9	
					Middle	4.0	0.4	6	14.9	14.9	8.2	8.2	31.9	31.9	103.5	103.5	8.6		8.3		10		75				<0.2		0.9	
						4.0	0.4	6	14.9		8.2		31.9		103.5		8.6		8.5		10		75				<0.2		0.9	
					Bottom	6.9	0.4	2	14.9	14.9	8.2	8.2	31.9	31.9	102.9	102.9	8.6	8.6	12.3		12		75				<0.2		1.0	
						6.9	0.4	2	14.9		8.2		31.9		102.9		8.6		12.8		10		76				<0.2		1.0	
IM3	Cloudy	Moderate	07:23	7.8	Surface	1.0	0.4	12	14.9	14.9	8.2	8.2	31.9	31.9	102.4	102.4	8.5	8.5	5.9	6.7	7	9	73	75	819418	806042	<0.2	<0.2	0.9	0.9
						1.0	0.4	12	14.9		8.2		31.9		102.4		8.5		5.9		8		73				<0.2		0.9	
					Middle	3.9	0.4	10	15.0	15.0	8.2	8.2	32.0	32.0	102.6	102.6	8.5		6.6		10		75				<0.2		0.9	
						3.9	0.4	10	15.0		8.2		32.0		102.6		8.5		6.8		11		76				<0.2		0.9	
					Bottom	6.8	0.3	17	14.9	14.9	8.2	8.2	32.1	32.1	102.4	102.4	8.5	8.5	7.3		9		75				<0.2		0.9	
						6.8	0.3	17	14.9		8.2		32.1		102.4		8.5		7.4		10		75				<0.2		0.9	
IM4	Cloudy	Moderate	07:32	7.3	Surface	1.0	0.4	29	14.8	14.8	8.1	8.1	31.9	31.9	103.9	103.9	8.6	8.6	6.5	11.1	6	9	73	75	819589	805018	<0.2	<0.2	0.9	1.0
						1.0	0.4	29	14.8		8.1		31.9		103.9		8.6		6.6		6		73				<0.2		1.0	
					Middle	3.7	0.4	33	14.9	14.9	8.1	8.1	32.0	32.0	103.8	103.8	8.6		9.7		8		75				<0.2		0.9	
						3.7	0.4	36	14.9		8.1		32.0		103.8		8.6		9.8		10		75				<0.2		1.0	
					Bottom	6.3	0.3	34	14.9	14.9	8.1	8.1	32.0	32.0	102.9	102.9	8.6	8.6	17.5		12		75				<0.2		1.0	
						6.3	0.3	34	14.9		8.1		32.0		102.9		8.6		16.6		11		76				<0.2		0.9	
IM5	Cloudy	Moderate	07:41	6.7	Surface	1.0	0.3	358	15.1	15.1	8.1	8.1	32.0	32.0	99.5	99.5	8.2	8.2	8.4	8.8	7	8	73	75	820488	804988	<0.2	<0.2	0.9	0.9
						1.0	0.3	329	15.1		8.1		32.0		99.5		8.2		8.4		6		73				<0.2		0.9	
					Middle	3.4	0.3	347	15.1	15.1	8.1	8.1	32.0	32.0	99.5	99.6	8.2		9.9		6		75				<0.2		0.9	
						3.4	0.3	358	15.1		8.1		32.0		99.6		8.2		10.1		7		75				<0.2		0.9	
					Bottom	5.7	0.3	341	15.1	15.1	8.1	8.1	32.0	32.0	100.0	100.0	8.3	8.3	8.0		11		77				<0.2		1.0	
						5.7	0.3	348	15.1		8.1		32.0		100.0		8.3		8.0		12		77				<0.2		1.0	
IM6	Cloudy	Moderate	07:50	6.6	Surface	1.0	0.2	18	14.9	14.9	8.2	8.2	32.2	32.2	103.7	103.8	8.6	8.6	6.6	7.0	7	7	73	75	821061	805801	<0.2	<0.2	0.8	0.8
						1.0	0.2	18	14.9		8.2		32.2		103.8		8.6		6.6		7		73				<0.2		0.7	
					Middle	3.3	0.2	17	14.9	14.9	8.2	8.2	32.2	32.2	103.5	103.5	8.6		7.4		6		75				<0.2		0.8	
						3.3	0.2	18	14.9		8.2		32.2		103.5		8.6		7.4		6		76				<0.2		0.8	
					Bottom	5.6	0.3	358	14.9	14.9	8.2	8.2	32.2	32.2	103.1	103.1	8.6	8.6	6.9		8		75				<0.2		0.8	
						5.6	0.3	329	14.9		8.2		32.2		103.1		8.6		7.0		8		75				<0.2		0.8	
IM7	Cloudy	Moderate	07:58	7.9	Surface	1.0	0.3	33	14.9	14.9	8.2	8.2	32.2	32.2	103.9	103.9	8.6	8.6	9.2	10.4	5	9	73	75	821358	806856	<0.2	<0.2	0.7	0.8
						1.0	0.3	33	14.9		8.2		32.2		103.9		8.6		9.8		4		73				<0.2		0.8	
					Middle	4.0	0.3	28	14.9	14.9	8.2	8.2	32.2	32.2	103.5	103.5	8.6		10.7		10		75				<0.2		0.7	
						4.0	0.3	29	14.9		8.2		32.2		103.5		8.6		10.6		12		75				<0.2		0.8	
					Bottom	6.9	0.2	25	14.9	14.9	8.2	8.2	32.2	32.2	102.9	102.9	8.5	8.5	11.1		12		76				<0.2		0.8	
						6.9	0.2	25	14.9		8.2		32.2		102.9		8.5		11.0		13		77				<0.2		0.7	
IM8	Fine	Moderate	07:23	7.7	Surface	1.0	0.2	27	15.3	15.3	8.3	8.3	31.7	31.7	96.9	96.9	8.0	8.0	3.1	4.3	8	9	73	74	821674	807846	<0.2	<0.2	1.3	1.2
						1.0	0.2	27	15.3		8.3		31.7		96.9		8.0		3.1		9		73				<0.2		1.3	
					Middle	3.9	0.2	24	15.3	15.3	8.3	8.3	31.7	31.7	97.0	96.9	8.0		3.7		10		74				<0.2		1.2	
						3.9	0.2	25	15.3		8.3		31.7		96.9		8.0		3.6		9		74				<0.2		1.2	
					Bottom	6.7	0.2	31	15.3	15.3	8.3	8.3	31.7	31.7	91.8	91.8	7.6	7.6	6.3		9		74				<0.2		1.2	
						6.7	0.2	32	15.3		8.3		31.7		91.8		7.6		6.3		9		75				<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**

Note: Access to IM5 was blocked by floating object. The monitoring at IM5 was slightly shifted to the closest safe and accessible location temporarily.

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

Water Quality Monitoring

Water Quality Monitoring Results on 13 February 18 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	07:14	6.8	Surface	1.0	0.2	345	15.6	15.6	7.8	7.8	31.6	31.6	95.5	95.4	9.9	9.9	4.2	4.6	5	6	72	74	822103	808787	<0.2	<0.2	1.2	1.1
						1.0	0.2	317	15.6		7.8		31.6		95.4		9.9		4.2		4		73				<0.2		1.2	
					Middle	3.4	0.1	333	15.6	15.6	7.8	7.8	31.6	31.7	95.6	95.6	9.9		4.2		6		74				<0.2		1.1	
						3.4	0.1	354	15.6		7.8		31.8		95.6		9.9		4.7		6		75				<0.2		1.1	
					Bottom	5.8	0.1	345	15.5	15.5	7.8	7.8	31.8	31.9	95.4	95.4	9.9	9.9	5.2		7		76				<0.2		1.0	
						5.8	0.1	358	15.5		7.8		31.9		95.4		9.9		5.2		8		74				<0.2		0.9	
IM10	Fine	Moderate	07:05	6.9	Surface	1.0	0.4	320	15.3	15.3	7.8	7.8	32.0	32.0	95.2	95.2	10.0	10.0	5.3	6.8	4	6	73	74	822231	809864	<0.2	<0.2	1.2	1.2
						1.0	0.4	329	15.3		7.8		32.0		95.3		10.0		5.4		4		73				<0.2		1.2	
					Middle	3.5	0.4	320	15.9	15.9	7.8	7.8	32.0	32.0	95.0	95.0	10.0		7.3		7		74				<0.2		1.2	
						3.5	0.4	324	15.9		7.8		32.0		95.0		10.0		7.2		6		75				<0.2		1.2	
					Bottom	5.9	0.3	323	15.8	15.8	7.7	7.7	32.0	32.0	95.0	95.0	10.0	10.0	7.7		8		76				<0.2		1.2	
						5.9	0.3	324	15.8		7.7		32.0		95.0		10.0		7.7		9		75				<0.2		1.1	
IM11	Fine	Moderate	06:49	7.5	Surface	1.0	0.4	299	15.1	15.1	7.8	7.8	32.0	32.0	94.8	94.7	9.9	10.0	6.3	7.1	7	7	72	73	821502	810515	<0.2	<0.2	1.0	1.0
						1.0	0.4	304	15.1		7.8		32.0		94.7		9.9		6.6		7		72				<0.2		0.9	
					Middle	3.8	0.4	297	15.0	15.0	7.8	7.8	32.1	32.1	94.9	94.9	10.0		6.3		6		73				<0.2		1.0	
						3.8	0.5	313	15.0		7.8		32.1		94.9		10.0		6.3		7		73				<0.2		1.0	
					Bottom	6.5	0.5	295	15.0	15.0	7.8	7.8	32.1	32.1	94.7	94.6	10.0	10.0	8.0		7		74				<0.2		0.9	
						6.5	0.5	322	15.0		7.8		32.1		94.6		10.0		9.2		7		75				<0.2		0.9	
IM12	Fine	Moderate	06:42	7.0	Surface	1.0	0.6	280	15.1	14.9	7.8	7.8	31.5	31.5	94.7	94.7	10.0	10.0	6.3	6.5	6	7	73	74	821173	811506	<0.2	<0.2	1.3	1.3
						1.0	0.6	286	14.8		7.8		31.5		94.7		10.0		6.1		6		73				<0.2		1.2	
					Middle	3.5	0.6	282	14.7	14.7	7.8	7.8	31.4	31.4	94.0	94.0	10.0		6.6		6		74				<0.2		1.3	
						3.5	0.6	306	14.7		7.8		31.4		94.0		10.0		6.3		7		74				<0.2		1.2	
					Bottom	6.0	0.5	282	14.6	14.6	7.8	7.8	31.4	31.5	94.1	94.1	10.0	10.0	6.9		9		76				<0.2		1.4	
						6.0	0.5	294	14.6		7.8		31.5		94.1		10.0		6.8		7		76				<0.2		1.2	
SR2	Fine	Moderate	06:12	3.6	Surface	1.0	0.2	135	12.3	12.3	7.8	7.8	31.7	31.7	93.9	93.9	10.0	10.0	4.0	4.1	6	8	73	74	821470	814180	<0.2	<0.2	1.3	1.1
						1.0	0.2	138	12.3		7.8		31.8		93.9		10.0		4.0		6		73				<0.2		1.1	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.6	0.2	132	12.3	12.3	7.7	7.7	31.9	31.9	93.8	93.7	10.0	10.0	4.2		10		75				<0.2		1.0	
						2.6	0.2	142	12.3		7.7		31.9		93.7		10.0		4.2		11		75				<0.2		1.1	
SR3	Fine	Moderate	07:29	8.7	Surface	1.0	0.2	18	15.3	15.3	8.3	8.3	31.5	31.5	98.7	98.6	8.1	8.1	1.7	5.0	6	6	-	-	822151	807568	-	-	-	-
						1.0	0.2	19	15.3		8.3		31.5		98.6		8.1		1.5		5		-				-		-	
					Middle	4.4	0.3	19	15.3	15.3	8.3	8.3	31.6	31.6	98.4	98.4	8.1		6.2		5		-				-		-	
						4.4	0.3	19	15.3		8.3		31.6		98.4		8.1		6.4		5		-				-		-	
					Bottom	7.7	0.3	22	15.3	15.3	8.4	8.4	31.7	31.7	99.5	99.5	8.2	8.2	7.2		7		-				-		-	
						7.7	0.3	23	15.3		8.4		31.7		99.6		8.2		7.3		6		-				-		-	
SR4A	Cloudy	Calm	06:34	8.1	Surface	1.0	0.2	243	15.1	15.1	8.2	8.2	31.8	31.8	110.1	110.1	9.1	9.1	5.8	5.8	5	6	-	-	817186	807831	-	-	-	-
						1.0	0.3	253	15.1		8.2		31.8		110.1		9.1		5.7		5		-				-		-	
					Middle	4.1	0.2	245	15.1	15.1	8.2	8.2	31.8	31.8	108.4	108.4	9.0		6.2		6		-				-		-	
						4.1	0.2	250	15.1		8.2		31.8		108.4		9.0		5.9		6		-				-		-	
					Bottom	7.1	0.2	257	15.0	15.0	8.2	8.2	31.9	31.9	106.5	106.5	8.8	8.8	5.6		7		-				-		-	
						7.1	0.2	258	15.0		8.2		31.9		106.5		8.8		5.6		5		-				-		-	
SR5A	Cloudy	Calm	06:18	4.7	Surface	1.0	0.3	323	15.1	15.1	8.2	8.2	31.8	31.8	111.4	111.4	9.2	9.2	5.6	5.7	4	5	-	-	816581	810677	-	-	-	-
						1.0	0.3	344	15.1		8.2		31.8		111.3		9.2		5.6		6		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.7	0.3	328	15.1	15.1	8.2	8.2	31.8	31.8	108.5	108.5	9.0	9.0	5.7		6		-				-		-	
						3.7	0.3	330	15.1		8.2		31.8		108.4		9.0		5.8		5		-				-		-	
SR6	Cloudy	Calm	05:56	3.8	Surface	1.0	0.2	246	15.3	15.3	8.1	8.1	31.6	31.6	102.8	102.8	8.5	8.5	6.4	6.7	5	6	-	-	817913	814658	-	-	-	-
						1.0	0.2	251	15.3		8.1		31.6		102.7		8.5		6.4		6		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.8	0.1	243	15.3	15.3	8.1	8.1	31.6	31.6	103.1	103.2	8.5	8.5	6.9		8		-				-		-	
						2.8	0.2	243	15.3		8.1		31.6		103.2		8.5		6.9		6		-				-		-	
SR7	Fine	Moderate	05:21	15.9	Surface	1.0	0.3	37	13.8	13.8	7.8	7.8	31.9	31.9	94.2	94.2	9.8	9.8	5.4	6.3	5	4	-	-	823639	823754	-	-	-	-
						1.0	0.3	37	13.8		7.8		31.9		94.2		9.8		5.6		4		-				-		-	
					Middle	8.0	0.3	25	13.7	13.7	7.8	7.8	31.9	31.9	94.3	94.3	9.8		6.2		4		-				-		-	
						8.0	0.3	26	13.7		7.8		31.9		94.4		9.8		6.3		4		-				-		-	
					Bottom	14.9	0.3	41	13.6	13.6	7.8	7.8	31.9	31.9	94.1	94.1	9.8	9.8	7.1		3		-				-		-	
						14.9	0.4	44	13.6		7.8		31.9		94.1		9.8		7.2		4		-				-		-	
SR8	Fine	Moderate	06:32	4.0	Surface	1.0	-	-	14.4	14.4	7.7	7.7	31.5	31.5	94.0	94.0	10.0	10.0	6.9	6.7	4	4	-	-	820246	811418	-	-	-	-
						1.0	-	-	14.4		7.7		31.5		94.1		10.0		6.4		4		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.0	-	-	14.4	14.4	7.7	7.7	31.5	31.5	94.0	94.0	10.0	10.0	6.9		5		-				-		-	
						3.0	-	-	14.4		7.7		31.6		94.1		10.0		6.4		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 15 February 18 during Mid-Ebb Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
C1	Sunny	Moderate	12:36	8.3	Surface	1.0	0.1	178	15.7	15.7	8.1	8.1	30.1	30.1	111.1	111.1	9.2	9.0	5.2	6.2	5	6	73	75	815643	804239	<0.2	<0.2	1.5	1.6
						1.0	0.1	184	15.7		8.1		30.1		111.1		9.2		5.2		6		73				<0.2		1.6	
					Middle	4.2	0.2	171	15.4	15.4	8.1	8.1	31.5	31.5	107.1	107.1	8.8		6.7		7		75				<0.2		1.6	
						4.2	0.2	186	15.4		8.1		31.5		107.1		8.8		6.7		6		75				<0.2		1.6	
					Bottom	7.3	0.2	196	15.4	15.4	8.1	8.1	31.5	31.5	108.0	108.0	8.9	8.9	6.8		7		77				<0.2		1.7	
						7.3	0.2	203	15.4		8.1		31.5		108.0		8.9		6.8		6		77				<0.2		1.7	
C2	Fine	Moderate	11:30	11.7	Surface	1.0	0.1	148	15.9	15.9	8.3	8.3	29.7	29.7	101.8	101.8	8.4	8.4	3.6	7.1	7	7	72	74	825693	806930	<0.2	<0.2	2.6	2.7
						1.0	0.1	153	15.9		8.3		29.7		101.8		8.4		3.8		8		73				<0.2		2.7	
					Middle	5.9	0.1	147	15.8	15.8	8.3	8.3	30.0	30.0	100.7	100.8	8.3		7.0		8		73				<0.2		2.7	
						5.9	0.1	153	15.8		8.3		30.0		100.8		8.3		7.7		8		73				<0.2		2.7	
					Bottom	10.7	0.2	127	15.8	15.8	8.3	8.3	30.7	30.7	98.5	98.5	8.1	8.1	10.3		6		76				<0.2		2.7	
						10.7	0.2	134	15.8		8.3		30.7		98.5		8.1		10.3		7		76				<0.2		2.5	
C3	Fine	Moderate	13:16	11.7	Surface	1.0	0.4	78	15.9	15.9	8.4	8.4	31.7	31.7	103.7	103.7	8.5	8.4	2.4	2.5	4	5	73	75	822080	817808	<0.2	<0.2	2.4	2.5
						1.0	0.4	82	15.9		8.4		31.7		103.6		8.4		2.5		6		73				<0.2		2.5	
					Middle	5.9	0.3	80	15.8	15.8	8.3	8.3	31.8	31.8	101.1	101.1	8.3		2.9		5		75				<0.2		2.5	
						5.9	0.3	85	15.8		8.3		31.8		101.1		8.3		2.8		6		76				<0.2		2.6	
					Bottom	10.7	0.3	102	15.8	15.8	8.3	8.3	31.9	31.9	101.8	102.1	8.3	8.4	2.1		4		77				<0.2		2.6	
						10.7	0.3	109	15.8		8.3		31.9		102.4		8.4		2.0		4		77				<0.2		2.3	
IM1	Sunny	Moderate	12:17	7.2	Surface	1.0	0.1	105	15.7	15.7	8.1	8.1	30.8	30.8	111.3	111.3	9.2	9.2	5.5	5.9	4	6	73	75	818343	806452	<0.2	<0.2	1.6	1.5
						1.0	0.1	113	15.7		8.1		30.8		111.3		9.2		5.5		4		73				<0.2		1.5	
					Middle	3.6	0.0	181	15.6	15.6	8.1	8.1	31.4	31.4	110.1	110.1	9.1		5.7		8		74				<0.2		1.5	
						3.6	0.0	181	15.6		8.1		31.4		110.1		9.1		5.7		7		74				<0.2		1.4	
					Bottom	6.2	0.1	244	15.6	15.6	8.1	8.1	31.5	31.5	109.7	109.7	9.0	9.0	6.5		6		77				<0.2		1.4	
						6.2	0.1	257	15.6		8.1		31.5		109.7		9.0		6.5		6		77				<0.2		1.6	
IM2	Sunny	Moderate	12:12	7.1	Surface	1.0	0.1	53	15.6	15.6	8.1	8.1	30.9	30.9	110.6	110.6	9.1	9.1	6.0	6.0	6	6	73	75	818881	806193	<0.2	<0.2	1.6	1.6
						1.0	0.1	54	15.6		8.1		30.9		110.6		9.1		6.0		6		73				<0.2		1.5	
					Middle	3.6	0.1	283	15.6	15.6	8.1	8.1	31.6	31.6	109.6	109.6	9.0		5.8		6		75				<0.2		1.6	
						3.6	0.1	289	15.6		8.1		31.6		109.6		9.0		5.8		7		75				<0.2		1.5	
					Bottom	6.1	0.1	253	15.6	15.6	8.1	8.1	31.7	31.7	109.4	109.4	9.0	9.0	6.3		7		76				<0.2		1.6	
						6.1	0.1	276	15.6		8.1		31.7		109.4		9.0		6.3		5		77				<0.2		1.5	
IM3	Sunny	Moderate	12:06	8.1	Surface	1.0	0.1	92	15.5	15.5	8.1	8.1	31.0	31.0	110.2	110.2	9.1	9.0	6.0	6.8	6	5	74	74	819394	806015	<0.2	<0.2	1.7	1.5
						1.0	0.1	98	15.5		8.1		31.0		110.2		9.1		6.0		6		73				<0.2		1.5	
					Middle	4.1	0.1	191	15.5	15.5	8.1	8.1	31.6	31.6	108.5	108.5	8.9		7.0		4		73				<0.2		1.3	
						4.1	0.1	192	15.5		8.1		31.6		108.5		8.9		7.0		4		73				<0.2		1.4	
					Bottom	7.1	0.1	201	15.5	15.5	8.1	8.1	31.7	31.7	108.4	108.4	8.9	8.9	7.4		5		77				<0.2		1.4	
						7.1	0.1	214	15.5		8.1		31.7		108.4		8.9		7.4		5		76				<0.2		1.7	
IM4	Sunny	Moderate	11:58	8.2	Surface	1.0	0.1	34	15.5	15.5	8.1	8.1	31.2	31.2	109.6	109.6	9.0	8.9	5.7	5.8	3	7	73	75	819543	805030	<0.2	<0.2	1.4	1.4
						1.0	0.1	36	15.5		8.1		31.2		109.6		9.0		5.7		4		73				<0.2		1.3	
					Middle	4.1	0.0	35	15.5	15.5	8.1	8.1	31.5	31.5	107.3	107.3	8.8		5.9		7		74				<0.2		1.4	
						4.1	0.0	36	15.5		8.1		31.5		107.3		8.8		5.9		6		75				<0.2		1.5	
					Bottom	7.2	0.1	216	15.5	15.5	8.1	8.1	31.6	31.6	105.4	105.4	8.7	8.7	5.9		10		76				<0.2		1.4	
						7.2	0.1	217	15.5		8.1		31.6		105.4		8.7		5.9		11		76				<0.2		1.5	
IM5	Fine	Moderate	11:47	6.9	Surface	1.0	0.1	125	15.9	15.9	8.1	8.1	31.0	31.0	112.4	112.4	9.2	9.2	7.1	9.4	7	8	73	75	820591	804914	<0.2	<0.2	1.6	1.5
						1.0	0.1	125	15.9		8.1		31.0		112.4		9.2		7.1		9		73				<0.2		1.4	
					Middle	3.5	0.0	17	15.6	15.6	8.1	8.1	31.4	31.4	110.2	110.2	9.1		8.2		8		75				<0.2		1.5	
						3.5	0.0	18	15.6		8.1		31.4		110.2		9.1		8.2		7		76				<0.2		1.6	
					Bottom	5.9	0.0	42	15.5	15.5	8.1	8.1	31.6	31.6	106.4	106.4	8.8	8.8	13.0		7		77				<0.2		1.3	
						5.9	0.0	43	15.5		8.1		31.6		106.4		8.8		13.0		7		76				<0.2		1.4	
IM6	Fine	Moderate	11:38	6.6	Surface	1.0	0.0	29	15.7	15.7	8.1	8.1	31.6	31.6	108.6	108.6	8.9	8.9	6.2	6.0	7	8	73	74	821060	805813	<0.2	<0.2	1.1	1.3
						1.0	0.0	29	15.7		8.1		31.6		108.6		8.9		6.2		7		73				<0.2		1.3	
					Middle	3.3	0.0	219	15.6	15.6	8.1	8.1	31.7	31.7	107.2	107.2	8.8		5.9		8		74				<0.2		1.1	
						3.3	0.0	239	15.6		8.1		31.7		107.2		8.8		5.9		7		74				<0.2		1.2	
					Bottom	5.6	0.0	243	15.6	15.6	8.1	8.1	31.7	31.7	104.6	104.6	8.6	8.6	6.0		8		76				<0.2		1.4	
						5.6	0.0	264	15.6		8.1		31.7		104.6		8.6		6.0		10		75				<0.2		1.5	
IM7	Fine	Moderate	11:27	8.2	Surface	1.0	0.2	127	15.7	15.7	8.0	8.0	31.4	31.4	105.7	105.7	8.7	8.7	6.5	6.6	12	12	73	74	821346	806815	<0.2	<0.2	1.5	1.4
						1.0	0.2	131	15.7		8.0		31.4		105.7		8.7		6.5		12		72				<0.2		1.3	
					Middle	4.1	0.2	105	15.6	15.6	8.0	8.0	31.4	31.4	104.5	104.5	8.6		6.5		12		74				<0.2		1.4	
						4.1	0.2	115	15.6		8.0		31.4		104.5		8.6		6.5		13		74				<0.2		1.3	
					Bottom	7.2	0.2	105	15.6	15.6	8.0	8.0	31.4	31.4	101.8	101.8	8.4	8.4	6.7		12		75				<0.2		1.4	
						7.2	0.2	112	15.6		8.0		31.4		101.8		8.4		6.7		12		75				<0.2		1.4	
IM8	Fine	Moderate	11:54	7.9	Surface	1.0	0.3	105	16.1	16.1	8.3	8.3	29.1	29.1	105.9	106.0	8.7	8.6	2.2	2.5	7	7	73	74	821721	807855	<0.2	<0.2	2.5	2.5
						1.0	0.3	110	16.1		8.3		29.1		106.1		8.8		2.2		6		73				<0.2		2.7	
					Middle	4.0	0.2	109	15.8	15.8	8.4	8.4	31.3	31.3	104.1	104.1	8.5		2.7		7		74				<0.2		2.4	
						4.0	0.2	110	15.8		8.4		31.3		104.1		8.5		2.7		7		74				<0.2		2.4	
					Bottom	6.9	0.2	81	15.8	15.8	8.4	8.4	31.4	31.4	104.2	104.2	8.5	8.5	2.7		8		75				<0.2		2.4	
						6.9	0.2	83	15.8		8.4		31.4		104.2		8.5		2.7		8		75				<0.2		2.5	

DA: Depth-Averaged

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

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

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 15 February 18 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	12:02	7.0	Surface	1.0	0.4	81	16.1	16.1	8.3	8.3	30.3	30.3	105.4	105.5	8.7	8.7	5.2	8.7	6	11	73	74	822065	808830	<0.2	<0.2	2.5	2.7
						1.0	0.4	84	16.1		8.3		30.3		105.5		8.7		5.3		8		73				<0.2		2.8	
					Middle	3.5	0.4	74	15.9	15.9	8.4	8.4	31.3	31.3	104.7	104.7	8.6		10.3		9		74				<0.2		2.8	
						3.5	0.4	79	15.9		8.4		31.3		104.7		8.6		10.6		10		74				<0.2		2.8	
					Bottom	6.0	0.3	73	15.9	15.9	8.4	8.4	31.3	31.3	104.6	104.6	8.6	8.6	10.7		16		75				<0.2		2.6	
						6.0	0.3	78	15.9		8.4		31.3		104.5		8.6		9.8		14		75				<0.2		2.5	
IM10	Fine	Moderate	12:10	7.2	Surface	1.0	0.4	87	16.0	16.0	8.4	8.4	30.3	30.3	105.5	105.5	8.7	8.7	2.9	3.4	5	7	73	74	822234	809848	<0.2	<0.2	2.3	2.4
						1.0	0.5	88	16.0		8.4		30.3		105.4		8.7		3.1		5		73				<0.2		2.5	
					Middle	3.6	0.4	92	15.9	15.9	8.4	8.4	31.0	31.0	104.5	104.6	8.6		4.1		6		74				<0.2		2.5	
						3.6	0.4	94	15.9		8.4		31.0		104.6		8.6		4.2		4		74				<0.2		2.2	
					Bottom	6.2	0.3	89	15.9	15.9	8.4	8.4	31.1	31.1	114.0	114.0	9.3	9.3	3.1		9		75				<0.2		2.4	
						6.2	0.3	93	15.9		8.4		31.1		114.0		9.3		3.1		10		76				<0.2		2.4	
IM11	Fine	Moderate	12:22	7.4	Surface	1.0	0.3	110	15.8	15.8	8.4	8.4	30.6	30.6	104.6	104.6	8.6	8.6	3.0	4.5	8	9	73	75	821500	810560	<0.2	<0.2	2.7	2.7
						1.0	0.3	112	15.8		8.4		30.6		104.6		8.6		3.1		7		73				<0.2		2.8	
					Middle	3.7	0.3	106	15.9	15.9	8.4	8.4	31.1	31.1	104.3	104.3	8.5		4.1		9		75				<0.2		2.7	
						3.7	0.3	112	15.9		8.4		31.1		104.2		8.5		4.2		10		75				<0.2		2.7	
					Bottom	6.4	0.3	101	15.9	15.9	8.4	8.4	31.2	31.2	104.0	104.1	8.5	8.5	5.8		10		76				<0.2		2.7	
						6.4	0.3	106	15.9		8.4		31.2		104.1		8.5		6.5		9		76				<0.2		2.5	
IM12	Fine	Moderate	12:33	8.6	Surface	1.0	0.4	92	16.1	16.1	8.4	8.4	30.5	30.6	105.6	105.6	8.6	8.6	3.5	2.7	7	7	73	75	821140	811511	<0.2	<0.2	2.8	2.7
						1.0	0.5	92	16.1		8.4		30.6		105.5		8.6		3.3		8		73				<0.2		2.8	
					Middle	4.3	0.3	88	15.9	15.9	8.4	8.3	31.2	31.2	104.8	104.8	8.6		2.0		6		75				<0.2		2.5	
						4.3	0.3	90	15.9		8.3		31.2		104.8		8.6		2.0		7		75				<0.2		2.7	
					Bottom	7.6	0.2	84	15.8	15.8	8.3	8.3	31.5	31.5	104.5	104.5	8.6	8.6	2.6		8		76				<0.2		2.7	
						7.6	0.2	90	15.8		8.3		31.5		104.4		8.5		2.7		8		76				<0.2		2.7	
SR2	Fine	Moderate	12:57	3.9	Surface	1.0	0.3	101	16.2	16.2	8.3	8.3	31.1	31.2	107.2	107.2	8.7	8.7	2.6	2.4	8	9	73	75	821491	814168	<0.2	<0.2	3.0	2.8
						1.0	0.3	106	16.2		8.3		31.2		107.2		8.7		2.6		8		74				<0.2		2.7	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.9	0.2	102	16.0	16.0	8.4	8.4	31.5	31.5	106.5	106.4	8.7	8.7	2.3		9		76				<0.2		2.8	
						2.9	0.3	111	16.0		8.4		31.6		106.3		8.7		2.1		9		76				<0.2		2.6	
SR3	Fine	Moderate	11:49	8.7	Surface	1.0	0.3	122	15.9	15.9	8.3	8.3	29.6	29.6	104.1	104.1	8.6	8.6	9.5	9.5	5	6	-	-	822157	807551	-	-	-	-
						1.0	0.3	132	15.9		8.3		29.6		104.1		8.6		9.5		4		-				-		-	
					Middle	4.4	0.3	79	15.9	15.9	8.3	8.3	31.2	31.2	104.1	104.1	8.5		9.5		4		-				-		-	
						4.4	0.3	81	15.9		8.3		31.2		104.1		8.5		9.5		6		-				-		-	
					Bottom	7.7	0.3	70	15.8	15.8	8.3	8.3	31.3	31.3	104.2	104.2	8.5	8.5	9.5		10		-				-		-	
						7.7	0.3	73	15.8		8.3		31.3		104.2		8.5		9.5		8		-				-		-	
SR4A	Sunny	Moderate	12:55	7.9	Surface	1.0	0.3	80	15.9	15.9	8.1	8.1	30.6	30.6	112.6	112.6	9.3	9.2	5.4	5.8	6	5	-	-	817172	807789	-	-	-	-
						1.0	0.3	80	15.9		8.1		30.6		112.6		9.3		5.4		6		-				-		-	
					Middle	4.0	0.2	67	15.7	15.7	8.1	8.1	31.2	31.2	110.7	110.7	9.1		5.9		4		-				-		-	
						4.0	0.2	68	15.7		8.1		31.2		110.7		9.1		5.9		5		-				-		-	
					Bottom	6.9	0.1	93	15.7	15.7	8.1	8.1	31.4	31.4	110.4	110.4	9.1	9.1	6.1		5		-				-		-	
						6.9	0.1	96	15.7		8.1		31.4		110.4		9.1		6.1		5		-				-		-	
SR5A	Sunny	Moderate	13:10	4.3	Surface	1.0	0.0	95	16.1	16.1	8.1	8.1	32.0	32.0	110.0	110.0	8.9	8.9	5.2	5.3	4	5	-	-	816620	810709	-	-	-	-
						1.0	0.0	101	16.1		8.1		32.0		110.0		8.9		5.2		4		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.3	0.1	5	16.1	16.1	8.1	8.1	32.1	32.1	108.9	108.9	8.8	8.8	5.3		7		-				-		-	
						3.3	0.1	5	16.1		8.1		32.1		108.9		8.8		5.3		6		-				-		-	
SR6	Sunny	Moderate	13:32	3.2	Surface	1.0	0.1	38	16.7	16.7	8.1	8.1	32.0	32.0	109.0	109.0	8.7	8.7	4.8	4.9	7	7	-	-	817899	814674	-	-	-	-
						1.0	0.1	40	16.7		8.1		32.0		109.0		8.7		4.8		7		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.2	0.1	39	16.4	16.4	8.1	8.1	32.1	32.1	107.2	107.2	8.6	8.6	4.9		6		-				-		-	
						2.2	0.1	39	16.4		8.1		32.1		107.2		8.6		4.9		6		-				-		-	
SR7	Sunny	Moderate	13:45	20.0	Surface	1.0	0.3	96	15.8	15.8	8.3	8.3	32.0	32.0	97.4	97.4	8.0	8.0	2.0	2.3	5	7	-	-	823660	823756	-	-	-	-
						1.0	0.3	104	15.8		8.3		32.0		97.4		8.0		2.0		6		-				-		-	
					Middle	10.0	0.3	103	15.8	15.8	8.3	8.3	32.0	32.0	97.5	97.6	8.0		2.5		6		-				-		-	
						10.0	0.3	108	15.8		8.3		32.0		97.7		8.0		2.6		5		-				-		-	
					Bottom	19.0	0.1	117	15.8	15.8	8.3	8.3	32.0	32.0	98.5	98.7	8.0	8.1	2.5		9		-				-		-	
						19.0	0.2	120	15.8		8.3		32.0		98.9		8.1		2.4		10		-				-		-	
SR8	Fine	Moderate	12:42	4.0	Surface	1.0	-	-	16.2	16.1	8.3	8.3	31.2	31.3	105.8	105.8	8.6	8.6	3.7	4.6	8	9	-	-	820246	811418	-	-	-	-
						1.0	-	-	16.1		8.3		31.3		105.7		8.6		3.9		7		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.0	-	-	15.9	15.9	8.3	8.3	31.3	31.3	105.1	105.1	8.6	8.6	5.1		9		-				-		-	
						3.0	-	-	15.9		8.3		31.3		105.0		8.6		5.7		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 15 February 18 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	07:41	6.9	Surface	1.0	0.6	15	15.6	15.6	8.1	8.1	31.8	31.8	106.6	106.6	8.8	8.8	17.9	32.2	11	12	72	74	815602	804218	<0.2	<0.2	1.0	1.0
						1.0	0.6	15	15.6		8.1		31.8		106.6		8.8		17.9		11		72				<0.2		1.0	
					Middle	3.5	0.6	13	15.5	15.5	8.1	8.1	31.8	31.8	106.0	106.0	8.7		27.6		11		73				<0.2		1.0	
						3.5	0.6	13	15.5		8.1		31.8		106.0		8.7		27.6		11		73				<0.2		1.1	
					Bottom	5.9	0.6	7	15.5	15.5	8.1	8.1	31.8	31.8	104.6	104.6	8.6	8.6	51.0		12		75				<0.2		0.9	
						5.9	0.6	7	15.5		8.1		31.8		104.6		8.6		51.0		14		76				<0.2		0.9	
C2	Fine	Moderate	08:31	11.5	Surface	1.0	0.4	338	15.8	15.8	8.3	8.3	29.1	29.2	98.6	98.6	8.2	8.2	4.7	8.4	6	6	72	74	825708	806929	<0.2	<0.2	2.4	2.4
						1.0	0.4	347	15.8		8.3		29.2		98.5		8.2		4.8		7		73				<0.2		2.1	
					Middle	5.8	0.5	343	15.8	15.8	8.3	8.3	30.1	30.1	97.9	97.9	8.1		8.6		6		74				<0.2		2.6	
						5.8	0.5	316	15.8		8.3		30.1		97.9		8.1		8.8		7		74				<0.2		2.3	
					Bottom	10.5	0.4	350	15.8	15.8	8.3	8.3	30.1	30.1	97.2	97.2	8.0	8.0	11.9		5		75				<0.2		2.6	
						10.5	0.4	322	15.8		8.3		30.1		97.2		8.0		11.8		6		75				<0.2		2.4	
C3	Fine	Moderate	06:39	11.0	Surface	1.0	0.4	271	15.8	15.8	8.3	8.3	31.6	31.6	103.4	103.5	8.5	8.5	2.1	2.7	5	7	72	74	822123	817828	<0.2	<0.2	2.3	2.2
						1.0	0.4	277	15.8		8.3		31.6		103.5		8.5		2.2		4		72				<0.2		2.2	
					Middle	5.5	0.4	270	15.8	15.8	8.4	8.4	31.7	31.7	102.6	102.6	8.4		2.8		5		74				<0.2		2.1	
						5.5	0.5	283	15.8		8.4		31.7		102.6		8.4		2.8		5		75				<0.2		2.1	
					Bottom	10.0	0.4	278	15.8	15.8	8.4	8.4	31.8	31.8	101.4	101.4	8.3	8.3	3.2		12		76				<0.2		2.2	
						10.0	0.5	280	15.8		8.4		31.8		101.3		8.3		3.1		11		76				<0.2		2.3	
IM1	Fine	Moderate	07:59	7.8	Surface	1.0	0.6	21	15.6	15.6	8.1	8.1	31.5	31.5	104.9	104.9	8.6	8.6	7.6	9.3	7	8	73	75	818351	806430	<0.2	<0.2	1.1	1.2
						1.0	0.6	22	15.6		8.1		31.5		104.9		8.6		7.6		7		73				<0.2		1.2	
					Middle	3.9	0.5	27	15.6	15.6	8.1	8.1	31.5	31.5	104.6	104.6	8.6		8.5		7		75				<0.2		1.2	
						3.9	0.6	29	15.6		8.1		31.5		104.6		8.6		8.5		7		75				<0.2		1.4	
					Bottom	6.8	0.4	14	15.6	15.6	8.1	8.1	31.7	31.7	103.4	103.4	8.5	8.5	11.8		9		76				<0.2		1.2	
						6.8	0.4	15	15.6		8.1		31.7		103.4		8.5		11.8		8		77				<0.2		1.2	
IM2	Fine	Moderate	08:04	7.8	Surface	1.0	0.5	31	15.5	15.5	8.1	8.1	31.3	31.3	104.1	104.1	8.6	8.6	9.0	13.0	7	8	73	75	818841	806167	<0.2	<0.2	1.6	1.5
						1.0	0.5	31	15.5		8.1		31.3		104.1		8.6		9.0		5		73				<0.2		1.6	
					Middle	3.9	0.4	25	15.5	15.5	8.2	8.2	31.6	31.6	103.3	103.3	8.5		13.3		7		75				<0.2		1.5	
						3.9	0.5	26	15.5		8.2		31.6		103.3		8.5		13.3		8		75				<0.2		1.4	
					Bottom	6.8	0.4	24	15.5	15.5	8.2	8.2	31.6	31.6	101.9	101.9	8.4	8.4	16.8		10		76				<0.2		1.4	
						6.8	0.4	24	15.5		8.2		31.6		101.9		8.4		16.8		10		75				<0.2		1.4	
IM3	Fine	Moderate	08:11	7.7	Surface	1.0	0.5	25	15.5	15.5	8.1	8.1	31.1	31.1	103.3	103.3	8.5	8.5	8.6	10.8	7	7	73	74	819391	806012	<0.2	<0.2	1.5	1.5
						1.0	0.5	27	15.5		8.1		31.1		103.3		8.5		8.7		8		73				<0.2		1.6	
					Middle	3.9	0.4	36	15.5	15.5	8.1	8.1	31.3	31.3	102.7	102.7	8.5		10.7		6		74				<0.2		1.5	
						3.9	0.5	38	15.5		8.1		31.3		102.7		8.5		10.8		6		73				<0.2		1.5	
					Bottom	6.7	0.4	39	15.5	15.5	8.1	8.1	31.4	31.4	101.8	101.8	8.4	8.4	12.9		6		76				<0.2		1.4	
						6.7	0.4	42	15.5		8.1		31.4		101.8		8.4		13.0		7		76				<0.2		1.6	
IM4	Fine	Moderate	08:18	7.2	Surface	1.0	0.6	1	15.5	15.5	8.1	8.1	31.2	31.2	103.7	103.7	8.5	8.5	10.1	15.1	6	6	73	74	819577	805010	<0.2	<0.2	1.5	1.5
						1.0	0.6	1	15.5		8.1		31.2		103.7		8.5		10.1		5		73				<0.2		1.7	
					Middle	3.6	0.5	7	15.6	15.6	8.1	8.1	31.5	31.5	102.7	102.7	8.4		17.8		6		73				<0.2		1.4	
						3.6	0.6	7	15.6		8.1		31.5		102.7		8.4		17.8		7		73				<0.2		1.6	
					Bottom	6.2	0.4	355	15.6	15.6	8.1	8.1	31.6	31.6	101.0	101.0	8.3	8.3	17.5		8		75				<0.2		1.4	
						6.2	0.4	327	15.6		8.1		31.6		101.0		8.3		17.5		6		75				<0.2		1.5	
IM5	Fine	Moderate	08:28	6.5	Surface	1.0	0.4	11	15.5	15.5	8.1	8.1	31.2	31.2	103.1	103.1	8.5	8.5	12.1	12.4	12	13	73	74	820541	804948	<0.2	<0.2	1.4	1.4
						1.0	0.4	11	15.5		8.1		31.2		103.1		8.5		12.1		12		73				<0.2		1.4	
					Middle	3.3	0.4	9	15.5	15.5	8.0	8.0	31.2	31.2	102.6	102.6	8.5		12.3		13		73				<0.2		1.3	
						3.3	0.4	9	15.5		8.0		31.2		102.6		8.5		12.3		12		74				<0.2		1.3	
					Bottom	5.5	0.3	13	15.5	15.5	8.0	8.0	31.2	31.2	101.7	101.7	8.4	8.4	12.8		13		75				<0.2		1.6	
						5.5	0.3	13	15.5		8.0		31.2		101.7		8.4		12.8		13		76				<0.2		1.4	
IM6	Fine	Moderate	08:36	6.7	Surface	1.0	0.3	43	15.5	15.5	8.1	8.1	31.2	31.2	102.7	102.7	8.5	8.5	8.7	8.9	8	8	74	74	821085	805800	<0.2	<0.2	1.4	1.4
						1.0	0.3	45	15.5		8.1		31.2		102.7		8.5		8.7		8		73				<0.2		1.4	
					Middle	3.4	0.3	36	15.6	15.6	8.1	8.1	31.3	31.3	101.9	101.9	8.4		8.6		8		74				<0.2		1.4	
						3.4	0.3	37	15.6		8.1		31.3		101.9		8.4		8.6		8		73				<0.2		1.4	
					Bottom	5.7	0.3	23	15.6	15.6	8.1	8.1	31.4	31.4	101.0	101.0	8.3	8.3	9.3		9		75				<0.2		1.3	
						5.7	0.3	24	15.6		8.1		31.4		101.0		8.3		9.3		9		76				<0.2		1.4	
IM7	Fine	Moderate	08:44	8.1	Surface	1.0	0.3	44	15.6	15.6	8.1	8.1	30.5	30.5	105.8	105.8	8.8	8.8	8.8	10.2	5	6	72	74	821354	806848	<0.2	<0.2	1.9	2.0
						1.0	0.3	45	15.6		8.1		30.5		105.8		8.8		8.8		5		73				<0.2		2.0	
					Middle	4.1	0.4	32	15.7	15.7	8.1	8.1	31.6	31.6	105.9	105.9	8.7		10.0		7		74				<0.2		2.0	
						4.1	0.4	32	15.7		8.1		31.6		105.9		8.7		10.0		7		73				<0.2		1.9	
					Bottom	7.1	0.3	34	15.7	15.7	8.1	8.1	31.7	31.7	103.1	103.1	8.4	8.4	11.7		6		76				<0.2		2.2	
						7.1	0.3	35	15.7		8.1		31.7		103.0		8.4		11.6		7		75				<0.2		2.1	
IM8	Fine	Moderate	08:05	7.6	Surface	1.0	0.1	68	15.7	15.7	8.3	8.3	28.9	28.9	100.5	100.5	8.4	8.4	5.3	6.7	6	7	73	75	821714	807810	<0.2	<0.2	2.1	2.3
						1.0	0.1	68	15.7		8.3		28.9		100.4		8.4		5.3		6		73				<0.2		2.2	
					Middle	3.8	0.2	25	15.7	15.7	8.3	8.3	29.6	29.6	100.5	100.5	8.3		6.4		6		75				<0.2		2.5	
						3.8	0.3	26	15.7		8.3		29.7		100.5		8.3		6.4		6		74				<0.2		2.2	
					Bottom	6.6	0.4	14	15.7	15.7	8.3	8.3	30.3	30.3	100.3	100.3	8.3	8.3	8.3		9		76				<0.2		2.3	
						6.6	0.4	15	15.7		8.3		30.3		100.3		8.3		8.3		9		76				<0.2		2.3	

DA: Depth-Averaged

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

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

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 15 February 18 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	07:57	6.5	Surface	1.0	0.2	3	15.7	15.7	8.3	8.3	29.2	29.2	100.3	100.3	8.3	8.3	4.5	5.5	6	7	73	74	822095	808791	<0.2	<0.2	2.2	2.3
						1.0	0.2	3	15.7		8.3		29.2		100.3		8.3		4.6		5		73				<0.2		2.4	
					Middle	3.3	0.2	354	15.7	15.7	8.3	8.3	29.3	29.3	100.2	100.2	8.3		5.9		8		74				<0.2		2.4	
						3.3	0.2	326	15.7		8.3		29.3		100.2		8.3		6.0		6		74				<0.2		2.4	
					Bottom	5.5	0.2	342	15.7	15.7	8.3	8.3	29.4	29.4	100.3	100.3	8.3	8.3	5.8		8		76				<0.2		2.2	
						5.5	0.2	346	15.7		8.3		29.4		100.3		8.3		6.0		7		76				<0.2		2.1	
IM10	Fine	Moderate	07:49	6.1	Surface	1.0	0.5	324	15.8	15.8	8.3	8.3	30.3	30.3	100.2	100.2	8.3	8.3	11.9	17.2	11	15	73	71	822228	809810	<0.2	<0.2	2.2	2.4
						1.0	0.5	348	15.8		8.3		30.3		100.1		8.3		11.4		13		72				<0.2		2.4	
					Middle	3.1	0.5	316	15.8	15.8	8.3	8.3	30.4	30.4	100.2	100.2	8.3		19.0		16		74				<0.2		2.7	
						3.1	0.5	345	15.8		8.3		30.4		100.2		8.3		19.3		16		74				<0.2		2.4	
					Bottom	5.1	0.5	317	15.8	15.8	8.3	8.3	30.4	30.4	100.2	100.2	8.3	8.3	20.7		17		65				<0.2		2.4	
						5.1	0.5	328	15.8		8.3		30.4		100.2		8.3		20.9		17		65				<0.2		2.4	
IM11	Fine	Moderate	07:34	7.2	Surface	1.0	0.5	302	15.8	15.8	8.3	8.3	30.6	30.6	101.0	101.0	8.3	8.3	6.1	7.7	8	9	72	74	821507	810551	<0.2	<0.2	2.5	2.3
						1.0	0.5	304	15.8		8.3		30.6		101.0		8.3		6.2		7		72				<0.2		2.3	
					Middle	3.6	0.4	299	15.8	15.8	8.3	8.3	30.8	30.8	101.0	101.0	8.3		8.8		8		73				<0.2		2.2	
						3.6	0.4	328	15.8		8.3		30.8		100.9		8.3		8.8		9		74				<0.2		2.3	
					Bottom	6.2	0.4	298	15.8	15.8	8.3	8.3	30.8	30.8	100.6	100.6	8.3	8.3	8.1		10		75				<0.2		2.3	
						6.2	0.4	322	15.8		8.3		30.8		100.5		8.3		8.0		9		76				<0.2		2.3	
IM12	Fine	Moderate	07:26	7.1	Surface	1.0	0.6	284	15.8	15.8	8.3	8.3	30.7	30.7	102.5	102.5	8.4	8.4	2.6	2.8	5	6	72	74	821166	811525	<0.2	<0.2	2.2	2.3
						1.0	0.6	292	15.8		8.3		30.7		102.5		8.4		2.4		5		72				<0.2		2.3	
					Middle	3.6	0.6	277	15.8	15.8	8.3	8.3	31.2	31.2	102.5	102.0	8.4		3.1		6		74				<0.2		2.2	
						3.6	0.6	282	15.8		8.3		31.2		101.5		8.3		3.0		4		74				<0.2		2.4	
					Bottom	6.1	0.6	282	15.8	15.8	8.3	8.3	31.5	31.5	101.5	101.5	8.3	8.3	2.8		9		75				<0.2		2.2	
						6.1	0.6	294	15.8		8.3		31.4		101.5		8.3		2.8		9		75				<0.2		2.4	
SR2	Fine	Moderate	07:02	3.9	Surface	1.0	0.4	319	15.8	15.8	8.3	8.3	31.6	31.6	101.5	101.5	8.3	8.3	5.1	4.0	11	12	73	74	821457	814137	<0.2	<0.2	2.3	2.4
						1.0	0.5	326	15.8		8.3		31.6		101.5		8.3		5.0		12		73				<0.2		2.4	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.9	0.4	318	15.8	15.7	8.3	8.3	31.6	31.6	99.9	99.9	8.2	8.2	2.9		12		75				<0.2		2.5	
						2.9	0.4	336	15.7		8.3		31.6		99.8		8.2		2.9		12		75				<0.2		2.4	
SR3	Fine	Moderate	08:10	8.5	Surface	1.0	0.3	19	15.8	15.8	8.3	8.3	28.6	28.6	100.3	100.3	8.4	8.4	5.6	4.9	5	6	-	-	822125	807548	-	-	-	-
						1.0	0.3	19	15.8		8.3		28.6		100.3		8.4		5.6		6		-				-		-	
					Middle	4.3	0.3	12	15.8	15.8	8.3	8.3	28.6	28.6	100.3	100.3	8.4		5.3		6		-				-		-	
						4.3	0.4	12	15.8		8.3		28.6		100.3		8.4		5.4		6		-				-		-	
					Bottom	7.5	0.3	10	15.8	15.8	8.3	8.3	29.1	29.1	100.2	100.2	8.3	8.3	3.6		6		-				-		-	
						7.5	0.3	10	15.8		8.3		29.1		100.2		8.3		3.6		6		-				-		-	
SR4A	Fine	Moderate	07:20	7.4	Surface	1.0	0.3	241	15.8	15.8	8.1	8.1	32.0	32.0	105.6	105.6	8.6	8.6	5.8	5.7	5	5	-	-	817218	807826	-	-	-	-
						1.0	0.3	249	15.8		8.1		32.0		105.6		8.6		5.8		5		-				-		-	
					Middle	3.7	0.2	243	15.8	15.8	8.1	8.1	32.0	32.0	104.9	104.9	8.6		5.7		4		-				-		-	
						3.7	0.3	263	15.8		8.1		32.0		104.9		8.6		5.7		6		-				-		-	
					Bottom	6.4	0.1	227	15.8	15.8	8.1	8.1	32.0	32.0	103.5	103.5	8.5	8.5	5.7		5		-				-		-	
						6.4	0.2	233	15.8		8.1		32.0		103.5		8.5		5.7		6		-				-		-	
SR5A	Fine	Moderate	07:03	4.3	Surface	1.0	0.3	295	15.7	15.7	8.1	8.1	32.1	32.1	105.0	105.0	8.6	8.6	5.4	5.6	6	8	-	-	816588	810669	-	-	-	-
						1.0	0.3	302	15.7		8.1		32.1		105.0		8.6		5.4		7		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.3	0.3	298	15.7	15.7	8.1	8.1	32.1	32.1	104.3	104.3	8.5	8.5	5.7		9		-				-		-	
						3.3	0.3	299	15.7		8.1		32.1		104.3		8.5		5.7		9		-				-		-	
SR6	Fine	Moderate	06:37	3.4	Surface	1.0	0.2	269	15.6	15.6	8.0	8.0	31.7	31.7	101.9	101.9	8.4	8.4	6.3	6.7	6	6	-	-	817887	814673	-	-	-	-
						1.0	0.2	271	15.6		8.0		31.7		101.9		8.4		6.3		6		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.4	0.2	267	15.6	15.6	8.0	8.0	31.7	31.7	99.8	99.8	8.2	8.2	7.1		6		-				-		-	
						2.4	0.2	269	15.6		8.0		31.7		99.8		8.2		7.1		4		-				-		-	
SR7	Fine	Moderate	06:09	15.8	Surface	1.0	0.1	135	15.8	15.8	8.3	8.3	31.8	31.8	102.4	102.4	8.4	8.4	1.3	3.7	5	6	-	-	823633	823718	-	-	-	-
						1.0	0.1	138	15.8		8.3		31.8		102.4		8.4		1.4		5		-				-		-	
					Middle	7.9	0.1	119	15.8	15.8	8.3	8.3	31.8	31.8	101.7	101.7	8.3		4.5		6		-				-		-	
						7.9	0.1	127	15.8		8.3		31.8		101.7		8.3		4.5		6		-				-		-	
					Bottom	14.8	0.1	132	15.8	15.8	8.3	8.3	31.8	31.8	101.0	100.9	8.3	8.3	5.2		5		-				-		-	
						14.8	0.1	136	15.8		8.3		31.8		100.8		8.2		5.2		6		-				-		-	
SR8	Fine	Moderate	07:18	4.0	Surface	1.0	-	-	16.0	16.0	8.3	8.3	30.5	30.5	100.6	100.6	8.3	8.3	5.1	4.5	9	9	-	-	820246	811418	-	-	-	-
						1.0	-	-	16.0		8.3		30.5		100.6		8.3		5.0		8		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.0	-	-	16.0	16.0	8.3	8.3	30.6	30.6	100.6	100.7	8.3	8.3	3.9		9		-				-		-	
						3.0	-	-	16.0		8.3		30.6		100.7		8.3		3.8		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 18 February 18 during Mid-Ebb Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
C1	Cloudy	Moderate	14:09	8.8	Surface	1.0	0.2	190	16.0	16.0	8.1	8.1	31.3	31.3	104.6	104.6	8.5	8.4	6.3	7.7	5	6	73	75	815604	804245	<0.2	<0.2	1.2	0.8
						1.0	0.2	203	16.0		8.1		31.4		104.5		8.5		6.3		5		73				<0.2		1.1	
					Middle	4.4	0.3	208	15.7	15.7	8.1	8.1	32.0	32.0	100.3	100.3	8.2		8.3		6		75				<0.2		0.7	
						4.4	0.3	220	15.7		8.1		32.0		100.3		8.2		8.3		5		75				<0.2		0.6	
					Bottom	7.8	0.2	221	15.7	15.7	8.1	8.1	32.1	32.1	99.0	99.0	8.1	8.1	8.6		8		76				<0.2		0.6	
						7.8	0.2	234	15.7		8.1		32.1		99.0		8.1		8.6		8		76				<0.2		0.6	
C2	Cloudy	Calm	12:58	12.2	Surface	1.0	0.1	150	16.6	16.6	8.3	8.3	29.2	29.2	103.0	103.0	8.4	8.4	5.9	6.7	6	7	73	74	825685	806930	<0.2	<0.2	1.9	2.0
						1.0	0.1	153	16.6		8.3		29.2		103.0		8.4		6.0		7		73				<0.2		2.2	
					Middle	6.1	0.1	98	16.6	16.6	8.3	8.3	29.4	29.4	102.6	102.6	8.4		8.8		6		73				<0.2		2.0	
						6.1	0.1	98	16.6		8.3		29.4		102.6		8.4		8.8		7		74				<0.2		2.0	
					Bottom	11.2	0.3	68	16.5	16.5	8.3	8.3	29.9	29.9	102.2	102.2	8.3	8.3	5.3		7		74				<0.2		2.0	
						11.2	0.4	73	16.5		8.3		29.9		102.1		8.3		5.3		7		74				<0.2		1.9	
C3	Cloudy	Moderate	14:42	12.0	Surface	1.0	0.5	70	16.5	16.5	8.1	8.1	30.9	30.9	101.0	101.0	8.2	8.1	2.6	2.5	5	7	74	74	822118	817797	<0.2	<0.2	1.4	1.3
						1.0	0.5	74	16.5		8.1		30.9		101.0		8.2		2.6		6		74				<0.2		1.3	
					Middle	6.0	0.4	87	16.4	16.4	8.1	8.1	31.2	31.2	98.0	98.0	7.9		2.5		6		74				<0.2		1.2	
						6.0	0.4	94	16.4		8.1		31.2		98.0		7.9		2.5		10		74				<0.2		1.1	
					Bottom	11.0	0.3	99	16.3	16.3	8.0	8.0	31.4	31.4	97.5	97.5	7.9	7.9	2.3		10		75				<0.2		1.2	
						11.0	0.4	106	16.3		8.0		31.4		97.5		7.9		2.4		6		75				<0.2		1.4	
IM1	Cloudy	Moderate	13:51	7.5	Surface	1.0	0.1	110	16.1	16.1	8.1	8.1	31.4	31.4	107.5	107.5	8.8	8.7	6.9	7.5	6	10	72	74	818323	806429	<0.2	<0.2	0.8	0.9
						1.0	0.1	112	16.1		8.1		31.4		107.4		8.7		7.0		6		72				<0.2		0.9	
					Middle	3.8	0.0	37	16.0	16.0	8.1	8.1	31.4	31.4	105.7	105.7	8.6		6.6		8		73				<0.2		0.8	
						3.8	0.0	39	16.0		8.1		31.4		105.6		8.6		6.6		10		74				<0.2		0.9	
					Bottom	6.5	0.1	152	16.0	16.0	8.1	8.1	31.5	31.5	102.9	102.9	8.4	8.4	8.7		14		75				<0.2		1.0	
						6.5	0.1	157	16.0		8.1		31.5		102.8		8.4		8.9		16		75				<0.2		0.9	
IM2	Cloudy	Moderate	13:46	8.5	Surface	1.0	0.1	32	15.9	15.9	8.1	8.1	31.6	31.6	105.1	105.0	8.6	8.5	7.2	7.8	8	9	71	73	818827	806200	<0.2	<0.2	0.9	0.8
						1.0	0.1	32	15.9		8.1		31.6		104.9		8.6		7.2		8		71				<0.2		0.8	
					Middle	4.3	0.1	1	15.8	15.8	8.1	8.1	31.7	31.7	103.0	103.0	8.4		7.8		9		73				<0.2		0.8	
						4.3	0.1	1	15.8		8.1		31.7		102.9		8.4		7.7		8		73				<0.2		0.7	
					Bottom	7.5	0.0	190	15.8	15.8	8.1	8.1	31.7	31.7	101.6	101.5	8.3	8.3	8.4		11		75				<0.2		0.8	
						7.5	0.0	199	15.8		8.1		31.7		101.4		8.3		8.6		11		75				<0.2		0.8	
IM3	Cloudy	Moderate	13:38	8.4	Surface	1.0	0.2	51	15.9	15.9	8.1	8.1	31.5	31.5	105.5	105.4	8.6	8.5	7.6	8.6	6	9	72	74	819437	806003	<0.2	<0.2	0.9	0.8
						1.0	0.2	54	15.9		8.1		31.5		105.3		8.6		7.8		6		72				<0.2		0.8	
					Middle	4.2	0.1	36	15.7	15.7	8.1	8.1	31.8	31.8	101.9	101.9	8.3		9.2		9		73				<0.2		0.8	
						4.2	0.1	36	15.7		8.1		31.8		101.9		8.3		9.2		10		73				<0.2		0.8	
					Bottom	7.4	0.0	191	15.7	15.7	8.1	8.1	31.8	31.8	101.0	101.0	8.3	8.3	9.0		12		75				<0.2		0.7	
						7.4	0.0	203	15.7		8.1		31.8		101.0		8.3		9.0		12		76				<0.2		0.8	
IM4	Cloudy	Moderate	13:31	7.9	Surface	1.0	0.2	65	15.9	15.9	8.1	8.1	31.6	31.6	105.1	105.1	8.6	8.5	7.0	7.8	7	8	72	74	819570	805058	<0.2	<0.2	0.8	0.8
						1.0	0.2	67	15.9		8.1		31.6		105.1		8.6		7.0		8		72				<0.2		0.8	
					Middle	4.0	0.1	105	15.8	15.8	8.1	8.1	31.6	31.6	102.8	102.7	8.4		7.9		7		73				<0.2		1.0	
						4.0	0.1	111	15.8		8.1		31.6		102.5		8.4		7.8		8		73				<0.2		0.8	
					Bottom	6.9	0.1	101	15.7	15.7	8.1	8.1	31.7	31.7	100.1	99.9	8.2	8.2	8.4		8		76				<0.2		0.8	
						6.9	0.1	110	15.7		8.1		31.7		99.7		8.2		8.4		7		76				<0.2		0.8	
IM5	Cloudy	Moderate	13:23	7.3	Surface	1.0	0.1	95	16.1	16.1	8.1	8.1	31.0	31.0	106.7	106.6	8.7	8.6	7.4	8.4	6	11	74	75	820570	804910	<0.2	<0.2	1.0	1.0
						1.0	0.1	98	16.1		8.1		31.0		106.4		8.7		7.4		7		74				<0.2		1.0	
					Middle	3.7	0.1	98	15.8	15.8	8.1	8.1	31.2	31.2	103.9	103.8	8.5		8.8		10		75				<0.2		1.1	
						3.7	0.1	106	15.8		8.1		31.3		103.7		8.5		8.8		10		75				<0.2		1.1	
					Bottom	6.3	0.0	205	15.8	15.8	8.1	8.1	31.4	31.4	102.0	102.0	8.4	8.4	9.1		15		76				<0.2		0.9	
						6.3	0.0	221	15.8		8.1		31.4		102.0		8.4		9.0		15		76				<0.2		0.8	
IM6	Cloudy	Moderate	13:15	7.1	Surface	1.0	0.1	57	15.9	15.9	8.1	8.1	31.3	31.3	106.0	106.0	8.7	8.6	8.8	10.5	12	13	72	73	821062	805821	<0.2	<0.2	0.9	0.9
						1.0	0.1	61	15.9		8.1		31.3		105.9		8.7		8.8		13		72				<0.2		1.0	
					Middle	3.6	0.2	64	15.9	15.9	8.1	8.1	31.3	31.3	104.1	104.0	8.5		10.5		14		73				<0.2		0.9	
						3.6	0.2	64	15.9		8.1		31.3		103.9		8.5		10.4		14		73				<0.2		0.9	
					Bottom	6.1	0.1	74	15.8	15.8	8.1	8.1	31.4	31.4	101.5	101.5	8.3	8.3	12.1		14		75				<0.2		1.0	
						6.1	0.1	80	15.8		8.1		31.4		101.4		8.3		12.2		13		75				<0.2		0.8	
IM7	Cloudy	Moderate	13:06	8.7	Surface	1.0	0.3	70	16.0	16.0	8.1	8.1	31.1	31.1	105.9	105.9	8.7	8.5	8.2	9.6	8	9	73	74	821349	806842	<0.2	<0.2	1.0	1.0
						1.0	0.3	74	16.0		8.1		31.1		105.8		8.6		8.2		8		73				<0.2		1.1	
					Middle	4.4	0.2	62	15.9	15.9	8.1	8.1	31.4	31.4	103.0	103.0	8.4		9.7		8		74				<0.2		1.0	
						4.4	0.3	63	15.9		8.1		31.4		102.9		8.4		9.7		9		74				<0.2		0.9	
					Bottom	7.7	0.2	45	15.9	15.9	8.1	8.1	31.4	31.4	101.4	101.3	8.3	8.3	10.9		11		75				<0.2		1.0	
						7.7	0.2	45	15.9		8.1		31.4		101.2		8.3		11.0		11		76				<0.2		1.0	
IM8	Cloudy	Moderate	13:22	8.5	Surface	1.0	0.3	86	16.3	16.3	8.1	8.1	30.7	30.7	104.6	104.6	8.5	8.5	5.8	6.2	7	9	73	73	821701	807811	<0.2	<0.2	1.1	1.2
						1.0	0.4	90	16.3		8.1		30.7		104.6		8.5		5.8		9		73				<0.2		1.1	
					Middle	4.3	0.3	58	16.1	16.1	8.1	8.1	31.2	31.2	103.4	103.4	8.4		6.6		8		70				<0.2		1.2	
						4.3	0.3	58	16.1		8.1		31.2		103.4		8.4		6.6		8		74				<0.2		1.3	
					Bottom	7.5	0.2	57	16.1	16.1	8.1	8.1	31.2	31.2	103.0	103.0	8.4	8.4	6.1		10		74				<0.2		1.1	
						7.5	0.3	57	16.1		8.1		31.2		103.0		8.4		6.1		9		74				<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**

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Water Quality Monitoring

Water Quality Monitoring Results on 18 February 18 during Mid-Ebb Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
IM9	Cloudy	Moderate	13:29	7.5	Surface	1.0	0.4	75	16.4	16.4	8.1	8.1	30.8	30.8	106.3	106.3	8.6	8.6	5.1	9.0	5	7	74	74	822092	808782	<0.2	<0.2	1.1	1.1
						1.0	0.5	82	16.4		8.1		30.8		106.3		8.6		5.2		5		74				<0.2		1.1	
					Middle	3.8	0.4	75	16.2	16.2	8.1	8.1	30.9	30.9	104.1	104.1	8.5		8.7		6		74				<0.2		1.1	
						3.8	0.4	76	16.2		8.1		30.9		104.1		8.5		8.7		7		74				<0.2		1.1	
					Bottom	6.5	0.3	83	16.2	16.2	8.1	8.1	30.9	30.9	103.8	103.8	8.5	8.5	13.0		10		75				<0.2		1.2	
						6.5	0.3	91	16.2		8.1		30.9		103.8		8.5		13.0		8		75				<0.2		1.1	
IM10	Cloudy	Moderate	13:37	8.6	Surface	1.0	0.4	100	16.5	16.5	8.1	8.1	30.3	30.3	104.5	104.5	8.5	8.5	4.4	5.9	6	7	73	74	822233	809862	<0.2	<0.2	1.3	1.4
						1.0	0.4	106	16.5		8.1		30.3		104.5		8.5		4.4		8		73				<0.2		1.5	
					Middle	4.3	0.4	93	16.3	16.3	8.1	8.1	30.7	30.7	103.2	103.2	8.4		7.0		7		73				<0.2		1.5	
						4.3	0.4	93	16.3		8.1		30.7		103.2		8.4		7.0		8		74				<0.2		1.3	
					Bottom	7.6	0.4	99	16.3	16.3	8.1	8.1	30.7	30.7	103.2	103.2	8.4	8.4	6.3		8		74				<0.2		1.4	
						7.6	0.4	99	16.3		8.1		30.7		103.2		8.4		6.3		6		74				<0.2		1.4	
IM11	Cloudy	Moderate	13:51	8.4	Surface	1.0	0.4	111	16.5	16.5	8.1	8.1	30.2	30.2	104.2	104.2	8.5	8.5	5.3	8.7	4	6	73	74	821491	810572	<0.2	<0.2	1.6	1.6
						1.0	0.4	117	16.5		8.1		30.2		104.2		8.5		5.3		4		73				<0.2		1.7	
					Middle	4.2	0.4	104	16.4	16.4	8.1	8.1	30.6	30.6	103.6	103.6	8.4		8.0		7		73				<0.2		1.6	
						4.2	0.4	111	16.4		8.1		30.6		103.6		8.4		8.0		7		74				<0.2		1.5	
					Bottom	7.4	0.3	101	16.4	16.4	8.1	8.1	30.6	30.6	103.5	103.5	8.4	8.4	12.9		5		74				<0.2		1.7	
						7.4	0.3	105	16.4		8.1		30.6		103.5		8.4		12.9		7		75				<0.2		1.5	
IM12	Cloudy	Moderate	13:57	9.0	Surface	1.0	0.5	90	16.6	16.6	8.1	8.1	30.2	30.2	105.2	105.2	8.5	8.5	2.3	3.2	5	5	73	74	821189	811490	<0.2	<0.2	2.1	1.8
						1.0	0.6	93	16.6		8.1		30.2		105.2		8.5		2.3		4		73				<0.2		2.0	
					Middle	4.5	0.5	92	16.5	16.5	8.1	8.1	30.5	30.5	103.6	103.6	8.4		3.1		4		74				<0.2		1.7	
						4.5	0.5	93	16.5		8.1		30.5		103.6		8.4		3.1		6		74				<0.2		1.7	
					Bottom	8.0	0.4	94	16.4	16.4	8.1	8.1	30.7	30.7	103.3	103.3	8.4	8.4	4.2		4		75				<0.2		1.8	
						8.0	0.4	102	16.4		8.1		30.7		103.3		8.4		4.2		4		75				<0.2		1.7	
SR2	Cloudy	Moderate	14:21	4.0	Surface	1.0	0.4	81	16.5	16.5	8.1	8.1	30.7	30.7	104.7	104.7	8.5	8.5	3.0	3.2	4	5	73	74	821461	814159	<0.2	<0.2	1.3	1.3
						1.0	0.4	83	16.5		8.1		30.7		104.7		8.5		3.0		5		73				<0.2		1.2	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.0	0.4	82	16.6	16.6	8.1	8.1	30.7	30.7	104.4	104.4	8.5	8.5	3.4		5		74				<0.2		1.3	
						3.0	0.4	83	16.6		8.1		30.7		104.4		8.5		3.4		7		74				<0.2		1.2	
SR3	Cloudy	Moderate	13:17	9.2	Surface	1.0	0.4	91	16.4	16.4	8.3	8.3	30.6	30.6	104.4	104.5	8.5	8.5	7.6	8.0	6	9	-	-	822122	807579	-	-	-	-
						1.0	0.4	93	16.4		8.3		30.6		104.5		8.5		7.6		7		-				-		-	
					Middle	4.6	0.3	82	16.3	16.3	8.3	8.3	30.7	30.7	103.4	103.4	8.4		8.4		9		-				-		-	
						4.6	0.3	88	16.3		8.3		30.7		103.4		8.4		8.4		8		-				-		-	
					Bottom	8.2	0.2	48	16.2	16.2	8.3	8.3	30.9	30.9	102.8	102.8	8.4	8.4	7.9		12		-				-		-	
						8.2	0.2	52	16.2		8.3		30.9		102.8		8.4		7.9		11		-				-		-	
SR4A	Cloudy	Moderate	14:30	8.5	Surface	1.0	0.3	72	16.0	16.0	8.1	8.1	31.5	31.5	104.8	104.8	8.5	8.5	6.8	7.4	6	7	-	-	817168	807832	-	-	-	-
						1.0	0.4	78	16.0		8.1		31.5		104.8		8.5		6.8		6		-				-		-	
					Middle	4.3	0.3	74	15.9	15.9	8.1	8.1	31.5	31.5	102.8	102.7	8.4		7.9		8		-				-		-	
						4.3	0.3	75	15.9		8.1		31.5		102.6		8.4		8.0		7		-				-		-	
					Bottom	7.5	0.3	65	15.9	15.9	8.1	8.1	31.5	31.5	101.0	100.9	8.3	8.3	7.4		9		-				-		-	
						7.5	0.3	68	15.9		8.1		31.5		100.8		8.2		7.4		8		-				-		-	
SR5A	Cloudy	Moderate	14:46	3.3	Surface	1.0	0.0	346	16.8	16.8	8.1	8.1	31.1	31.1	106.9	106.8	8.6	8.6	5.3	5.4	5	6	-	-	816618	810693	-	-	-	-
						1.0	0.0	349	16.8		8.1		31.1		106.7		8.6		5.3		6		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.3	0.0	340	16.8	16.8	8.1	8.1	31.1	31.1	104.6	104.6	8.4	8.4	5.6		6		-				-		-	
						2.3	0.0	352	16.8		8.1		31.1		104.5		8.4		5.4		7		-				-		-	
SR6	Cloudy	Moderate	15:10	3.9	Surface	1.0	0.1	63	16.9	16.9	8.1	8.1	31.0	31.0	106.6	106.5	8.6	8.6	6.5	6.6	6	8	-	-	817913	814656	-	-	-	-
						1.0	0.1	67	16.9		8.1		31.0		106.4		8.5		6.5		7		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.9	0.1	39	16.9	16.9	8.1	8.1	31.0	31.0	104.3	104.2	8.4	8.4	6.7		10		-				-		-	
						2.9	0.1	41	16.9		8.1		31.0		104.0		8.4		6.5		10		-				-		-	
SR7	Cloudy	Moderate	15:09	19.0	Surface	1.0	0.5	87	16.5	16.5	8.1	8.1	31.3	31.3	99.8	99.8	8.1	8.1	2.5	2.7	4	4	-	-	823607	823763	-	-	-	-
						1.0	0.5	91	16.5		8.1		31.3		99.8		8.1		2.5		5		-				-		-	
					Middle	9.5	0.3	85	16.4	16.4	8.1	8.1	31.4	31.4	98.8	98.8	8.0		2.8		3		-				-		-	
						9.5	0.3	85	16.4		8.1		31.4		98.8		8.0		2.8		4		-				-		-	
					Bottom	18.0	0.2	22	16.3	16.3	8.1	8.1	31.4	31.4	98.8	98.8	8.0	8.0	2.9		4		-				-		-	
						18.0	0.2	23	16.3		8.1		31.4		98.8		8.0		2.9		4		-				-		-	
SR8	Cloudy	Moderate	14:06	3.7	Surface	1.0	-	-	16.9	16.9	8.1	8.1	30.6	30.6	104.6	104.6	8.4	8.4	4.4	6.4	6	6	-	-	820246	811418	-	-	-	-
						1.0	-	-	16.9		8.1		30.6		104.6		8.4		4.4		7		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.7	-	-	16.5	16.5	8.1	8.1	30.7	30.7	102.7	102.7	8.3	8.3	8.3		6		-				-		-	
						2.7	-	-	16.5		8.1		30.7		102.7		8.3		8.3		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 18 February 18 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
C1	Cloudy	Moderate	09:48	8.5	Surface	1.0	0.5	41	15.7	15.7	8.1	8.1	31.7	31.7	102.8	102.8	8.4	8.4	19.1	20.2	12	13	73	75	815618	804256	<0.2	<0.2	0.8	0.8
						1.0	0.5	45	15.7		8.1		31.7		102.7		8.4		19.2		14		73				<0.2		0.8	
					Middle	4.3	0.5	30	15.7	15.7	8.1	8.1	31.8	31.8	102.1	102.1	8.4		19.5		13		74				<0.2		0.8	
						4.3	0.5	32	15.7		8.1		31.8		102.1		8.4		19.5		14		75				<0.2		0.8	
					Bottom	7.5	0.5	30	15.7	15.7	8.1	8.1	31.8	31.8	101.6	101.7	8.3	8.3	21.9		14		76				<0.2		0.9	
						7.5	0.5	32	15.7		8.1		31.8		101.7		8.3		21.9		13		76				<0.2		0.9	
C2	Cloudy	Moderate	10:32	12.0	Surface	1.0	0.4	350	16.6	16.6	8.3	8.3	29.1	29.1	100.2	100.2	8.2	8.2	5.6	8.0	6	7	73	74	825674	806928	<0.2	<0.2	2.3	2.3
						1.0	0.4	358	16.6		8.3		29.1		100.2		8.2		5.6		5		73				<0.2		2.2	
					Middle	6.0	0.4	351	16.5	16.5	8.3	8.3	29.1	29.1	99.6	99.6	8.2		6.4		7		74				<0.2		2.3	
						6.0	0.4	323	16.5		8.3		29.1		99.5		8.2		6.4		6		74				<0.2		2.3	
					Bottom	11.0	0.3	7	16.5	16.5	8.3	8.3	29.2	29.2	99.3	99.3	8.1	8.1	11.9		10		74				<0.2		2.2	
						11.0	0.3	7	16.5		8.3		29.2		99.3		8.1		11.9		9		75				<0.2		2.2	
C3	Cloudy	Moderate	08:37	11.5	Surface	1.0	0.5	269	16.4	16.4	8.1	8.1	30.9	30.9	100.3	100.3	8.1	8.1	2.6	2.7	4	5	74	75	822081	817811	<0.2	<0.2	1.2	1.3
						1.0	0.6	272	16.4		8.1		30.9		100.3		8.1		2.6		4		74				<0.2		1.2	
					Middle	5.8	0.5	268	16.4	16.4	8.1	8.1	31.1	31.1	99.3	99.3	8.1		3.1		5		75				<0.2		1.2	
						5.8	0.5	286	16.4		8.1		31.1		99.3		8.1		3.1		4		74				<0.2		1.4	
					Bottom	10.5	0.4	269	16.4	16.4	8.1	8.1	31.1	31.1	99.2	99.2	8.0	8.0	2.5		6		75				<0.2		1.3	
						10.5	0.4	282	16.4		8.1		31.1		99.2		8.0		2.5		5		76				<0.2		1.3	
IM1	Cloudy	Moderate	10:03	7.5	Surface	1.0	0.6	25	16.0	16.0	8.1	8.1	31.0	31.0	103.6	103.6	8.5	8.4	7.3	9.2	5	6	72	74	818374	806481	<0.2	<0.2	1.1	1.1
						1.0	0.7	25	16.0		8.1		31.0		103.5		8.5		7.3		7		72				<0.2		1.1	
					Middle	3.8	0.5	24	15.9	15.9	8.1	8.1	31.2	31.2	101.0	100.9	8.3		9.1		5		73				<0.2		1.1	
						3.8	0.6	25	15.9		8.1		31.2		100.7		8.2		9.4		6		74				<0.2		1.2	
					Bottom	6.5	0.4	356	15.8	15.8	8.1	8.1	31.5	31.5	98.7	98.7	8.1	8.1	11.1		6		75				<0.2		1.1	
						6.5	0.4	328	15.8		8.1		31.5		98.7		8.1		11.2		8		75				<0.2		1.2	
IM2	Cloudy	Moderate	10:08	8.4	Surface	1.0	0.6	28	16.0	16.0	8.1	8.1	31.1	31.1	104.3	104.3	8.5	8.4	8.3	13.8	4	5	72	73	818852	806220	<0.2	<0.2	1.1	1.2
						1.0	0.6	29	16.0		8.1		31.1		104.3		8.5		8.3		6		72				<0.2		1.1	
					Middle	4.2	0.5	19	15.8	15.8	8.1	8.1	31.3	31.3	101.8	101.8	8.3		13.3		5		73				<0.2		1.2	
						4.2	0.5	20	15.8		8.1		31.3		101.7		8.3		13.6		5		73				<0.2		1.2	
					Bottom	7.4	0.5	19	15.8	15.8	8.1	8.1	31.3	31.3	99.8	99.8	8.2	8.2	19.7		6		75				<0.2		1.3	
						7.4	0.6	19	15.8		8.1		31.3		99.7		8.2		19.8		5		75				<0.2		1.2	
IM3	Cloudy	Moderate	10:14	8.5	Surface	1.0	0.4	34	16.0	16.0	8.1	8.1	31.0	31.0	104.4	104.4	8.5	8.5	12.5	16.4	12	12	72	73	819390	806009	<0.2	<0.2	1.2	1.1
						1.0	0.5	34	16.0		8.1		31.0		104.4		8.5		12.6		11		72				<0.2		1.2	
					Middle	4.3	0.4	35	16.0	16.0	8.1	8.1	31.1	31.1	103.6	103.6	8.5		15.9		12		73				<0.2		1.1	
						4.3	0.4	36	16.0		8.1		31.1		103.6		8.5		15.8		13		73				<0.2		1.1	
					Bottom	7.5	0.3	19	15.9	15.9	8.1	8.1	31.1	31.1	101.6	101.5	8.3	8.3	20.8		12		75				<0.2		1.0	
						7.5	0.3	19	15.9		8.1		31.1		101.4		8.3		20.8		13		75				<0.2		1.1	
IM4	Cloudy	Moderate	10:22	7.8	Surface	1.0	0.5	13	16.0	16.0	8.1	8.1	30.9	30.9	105.4	105.4	8.6	8.6	14.3	17.4	10	11	72	74	819545	805058	<0.2	<0.2	1.0	1.2
						1.0	0.5	13	16.0		8.1		30.9		105.3		8.6		14.3		10		72				<0.2		1.1	
					Middle	3.9	0.5	14	16.0	16.0	8.1	8.1	31.0	31.0	104.3	104.3	8.5		16.6		12		73				<0.2		1.2	
						3.9	0.5	15	16.0		8.1		31.0		104.3		8.5		16.6		11		73				<0.2		1.2	
					Bottom	6.8	0.4	16	16.0	16.0	8.1	8.1	30.9	30.9	102.0	102.0	8.4	8.4	21.3		13		75				<0.2		1.2	
						6.8	0.5	17	16.0		8.1		30.9		101.9		8.3		21.3		12		76				<0.2		1.2	
IM5	Cloudy	Moderate	10:30	7.1	Surface	1.0	0.5	13	16.1	16.1	8.1	8.1	30.8	30.8	106.7	106.7	8.7	8.7	13.4	16.5	9	12	72	73	820549	804947	<0.2	<0.2	1.2	1.2
						1.0	0.6	13	16.1		8.1		30.8		106.6		8.7		13.5		10		72				<0.2		1.1	
					Middle	3.6	0.5	20	16.1	16.1	8.1	8.1	30.8	30.8	105.2	105.2	8.6		17.9		13		73				<0.2		1.2	
						3.6	0.5	20	16.1		8.1		30.8		105.1		8.6		17.9		12		73				<0.2		1.1	
					Bottom	6.1	0.5	14	16.1	16.1	8.1	8.1	30.8	30.8	102.7	102.7	8.4	8.4	18.1		14		75				<0.2		1.2	
						6.1	0.5	14	16.1		8.1		30.8		102.6		8.4		18.1		13		75				<0.2		1.1	
IM6	Cloudy	Moderate	10:37	7.0	Surface	1.0	0.4	15	16.2	16.2	8.1	8.1	30.7	30.7	103.4	103.4	8.4	8.4	8.8	9.9	10	12	73	75	821059	805814	<0.2	<0.2	1.3	1.3
						1.0	0.4	15	16.2		8.1		30.7		103.4		8.4		9.0		12		73				<0.2		1.3	
					Middle	3.5	0.4	25	16.2	16.2	8.1	8.1	30.7	30.7	102.0	102.0	8.3		9.3		12		75				<0.2		1.1	
						3.5	0.4	25	16.2		8.1		30.7		102.0		8.3		9.4		11		76				<0.2		1.4	
					Bottom	6.0	0.3	21	16.1	16.1	8.1	8.1	30.9	30.9	99.5	99.5	8.1	8.1	11.5		14		76				<0.2		1.2	
						6.0	0.3	21	16.1		8.1		30.9		99.5		8.1		11.6		15		76				<0.2		1.2	
IM7	Cloudy	Moderate	10:11	8.3	Surface	1.0	0.4	34	16.1	16.1	8.1	8.1	30.8	30.8	103.6	103.6	8.5	8.5	8.7	8.8	10	12	73	74	821348	806834	<0.2	<0.2	1.2	1.2
						1.0	0.4	35	16.1		8.1		30.8		103.6		8.5		8.8		10		73				<0.2		1.2	
					Middle	4.2	0.4	32	16.1	16.1	8.1	8.1	30.8	30.8	102.3	102.3	8.4		8.7		13		74				<0.2		1.1	
						4.2	0.4	33	16.1		8.1		30.8		102.3		8.4		8.7		13		73				<0.2		1.1	
					Bottom	7.3	0.3	37	16.1	16.1	8.1	8.1	30.9	30.9	100.8	100.8	8.2	8.2	8.9		14		75				<0.2		1.2	
						7.3	0.3	39	16.1		8.1		30.9		100.8		8.2		8.9		14		75				<0.2		1.4	
IM8	Cloudy	Moderate	09:57	8.3	Surface	1.0	0.2	28	16.5	16.5	8.1	8.1	30.0	30.0	101.6	101.6	8.3	8.3	5.7	7.5	9	10	73	74	821709	807810	<0.2	<0.2	1.4	1.5
						1.0	0.2	29	16.5		8.1		30.0		101.6		8.3		5.7		8		74				<0.2		1.6	
					Middle	4.2	0.2	23	16.5	16.5	8.1	8.1	30.0	30.0	100.9	100.9	8.2		8.5		10		74				<0.2		1.5	
						4.2	0.2	24	16.5		8.1		30.0		100.9		8.2		8.5		10		74				<0.2		1.6	
					Bottom	7.3	0.3	23	16.4	16.4	8.1	8.1	30.2	30.2	100.0	100.0	8.1	8.1	8.2		11		75				<0.2		1.4	
						7.3	0.3	23	16.4		8.1		30.2		100.0		8.1		8.2		10		75				<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 18 February 18 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	09:49	8.1	Surface	1.0	0.0	166	16.5	16.5	8.1	8.1	29.4	29.4	100.6	100.6	8.2	8.2	9.1	12.1	10	9	74	75	822113	808788	<0.2	<0.2	1.4	1.4
						1.0	0.0	169	16.5		8.1		29.4		100.6		8.2		9.3		9		74				<0.2		1.4	
					Middle	4.1	0.1	251	16.5	16.5	8.1	8.1	29.4	29.4	100.1	100.1	8.2		9.8		9		75				<0.2		1.4	
						4.1	0.1	271	16.5		8.1		29.4		100.1		8.2		9.8		9		75				<0.2		1.4	
					Bottom	7.1	0.1	299	16.5	16.5	8.1	8.1	29.6	29.6	99.8	99.8	8.1	8.2	17.0		9		75				<0.2		1.3	
						7.1	0.1	306	16.5		8.1		29.6		99.8		8.2		17.7		9		76				<0.2		1.5	
IM10	Cloudy	Moderate	09:42	7.5	Surface	1.0	0.5	315	16.4	16.4	8.1	8.1	30.6	30.6	102.8	102.8	8.4	8.3	13.5	14.2	15	15	73	74	822221	809836	<0.2	<0.2	1.2	1.2
						1.0	0.5	339	16.4		8.1		30.6		102.8		8.4		13.5		14		73				<0.2		1.1	
					Middle	3.8	0.5	313	16.4	16.4	8.1	8.1	30.6	30.6	101.3	101.3	8.2		16.4		16		74				<0.2		1.1	
						3.8	0.5	340	16.4		8.1		30.6		101.3		8.2		16.4		16		74				<0.2		1.1	
					Bottom	6.5	0.4	319	16.4	16.4	8.1	8.1	30.6	30.6	100.6	100.6	8.2	8.2	12.8		15		75				<0.2		1.2	
						6.5	0.4	341	16.4		8.1		30.6		100.6		8.2		12.8		14		75				<0.2		1.2	
IM11	Cloudy	Moderate	09:28	8.2	Surface	1.0	0.4	305	16.4	16.4	8.1	8.1	30.8	30.8	102.8	102.8	8.4	8.4	11.5	17.9	14	14	73	74	821498	810545	<0.2	<0.2	1.2	1.2
						1.0	0.4	309	16.4		8.1		30.8		102.8		8.4		11.4		14		73				<0.2		1.2	
					Middle	4.1	0.4	297	16.4	16.4	8.1	8.1	30.8	30.8	102.5	102.5	8.3		16.6		14		74				<0.2		1.2	
						4.1	0.4	313	16.4		8.1		30.8		102.5		8.3		16.9		14		74				<0.2		1.1	
					Bottom	7.2	0.4	306	16.4	16.4	8.1	8.1	30.8	30.8	102.0	102.0	8.3	8.3	25.4		13		75				<0.2		1.2	
						7.2	0.4	320	16.4		8.1		30.8		102.0		8.3		25.8		12		76				<0.2		1.1	
IM12	Cloudy	Moderate	09:21	8.4	Surface	1.0	0.5	271	16.3	16.3	8.1	8.1	30.9	30.9	102.1	102.1	8.3	8.3	10.9	17.2	8	21	73	74	821146	811505	<0.2	<0.2	1.1	1.1
						1.0	0.5	276	16.3		8.1		30.9		102.1		8.3		10.9		9		74				<0.2		1.1	
					Middle	4.2	0.4	270	16.3	16.3	8.1	8.1	30.9	30.9	102.0	102.0	8.3		15.2		21		74				<0.2		1.1	
						4.2	0.5	278	16.3		8.1		30.9		102.0		8.3		15.2		19		74				<0.2		1.1	
					Bottom	7.4	0.4	271	16.3	16.3	8.1	8.1	30.9	30.9	101.3	101.3	8.2	8.2	25.6		34		75				<0.2		1.1	
						7.4	0.5	274	16.3		8.1		30.9		101.3		8.2		25.6		36		75				<0.2		1.1	
SR2	Cloudy	Moderate	08:58	3.1	Surface	1.0	0.2	80	16.3	16.3	8.1	8.1	30.8	30.8	101.8	101.8	8.3	8.3	7.3	7.4	11	11	73	74	821478	814162	<0.2	<0.2	1.0	1.1
						1.0	0.2	84	16.3		8.1		30.8		101.8		8.3		7.3		11		73				<0.2		1.2	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.1	0.2	71	16.3	16.3	8.1	8.1	30.8	30.8	101.4	101.4	8.3	8.3	7.5		11		74				<0.2		1.1	
						2.1	0.2	74	16.3		8.1		30.8		101.4		8.3		7.5		12		74				<0.2		1.1	
SR3	Cloudy	Moderate	10:03	9.2	Surface	1.0	0.3	27	16.5	16.5	8.1	8.1	29.6	29.6	100.9	101.0	8.2	8.2	7.1	15.8	8	16	-	-	822138	807564	-	-	-	-
						1.0	0.3	27	16.5		8.1		29.6		101.0		8.2		7.2		8		-				-		-	
					Middle	4.6	0.4	16	16.5	16.5	8.1	8.1	30.0	30.0	100.9	100.9	8.2		14.5		7		-				-		-	
						4.6	0.4	17	16.5		8.1		30.0		100.9		8.2		14.5		9		-				-		-	
					Bottom	8.2	0.4	11	16.3	16.3	8.1	8.1	30.5	30.5	100.5	100.5	8.2	8.2	25.5		34		-				-		-	
						8.2	0.5	11	16.3		8.1		30.5		100.5		8.2		26.0		31		-				-		-	
SR4A	Cloudy	Calm	09:25	8.6	Surface	1.0	0.1	233	16.5	16.5	8.0	8.0	31.2	31.2	102.3	102.3	8.3	8.2	5.9	5.8	6	6	-	-	817196	807836	-	-	-	-
						1.0	0.1	242	16.5		8.0		31.2		102.3		8.3		6.2		6		-				-		-	
					Middle	4.3	0.0	177	16.4	16.4	8.0	8.0	31.2	31.2	100.6	100.6	8.2		5.5		5		-				-		-	
						4.3	0.0	187	16.4		8.0		31.2		100.5		8.1		5.6		6		-				-		-	
					Bottom	7.6	0.0	271	16.4	16.4	8.0	8.0	31.2	31.2	99.6	99.6	8.1	8.1	5.9		6		-				-		-	
						7.6	0.0	277	16.4		8.0		31.2		99.6		8.1		5.9		7		-				-		-	
SR5A	Cloudy	Calm	09:09	3.1	Surface	1.0	0.1	270	16.6	16.6	8.0	8.0	31.2	31.2	100.8	100.8	8.1	8.1	5.4	5.5	6	5	-	-	816565	810704	-	-	-	-
						1.0	0.1	284	16.6		8.0		31.2		100.8		8.1		5.4		5		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.1	0.1	272	16.6	16.6	8.0	8.0	31.2	31.2	98.9	98.7	8.0	8.0	5.6		5		-				-		-	
						2.1	0.1	281	16.6		8.0		31.2		98.5		8.0		5.4		5		-				-		-	
SR6	Cloudy	Calm	08:45	4.1	Surface	1.0	0.1	242	16.3	16.3	8.0	8.0	31.5	31.5	101.5	101.5	8.2	8.2	5.5	6.0	6	7	-	-	817919	814661	-	-	-	-
						1.0	0.1	242	16.3		8.0		31.5		101.5		8.2		5.5		7		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.1	0.1	237	16.3	16.3	8.0	8.0	31.5	31.5	100.5	100.4	8.2	8.2	6.4		8		-				-		-	
						3.1	0.1	247	16.3		8.0		31.5		100.3		8.1		6.7		7		-				-		-	
SR7	Cloudy	Moderate	08:09	19.5	Surface	1.0	0.2	13	16.4	16.4	8.1	8.1	31.2	31.2	97.8	97.8	7.9	7.9	2.2	2.9	6	5	-	-	823608	823719	-	-	-	-
						1.0	0.2	13	16.4		8.1		31.2		97.8		7.9		2.2		5		-				-		-	
					Middle	9.8	0.1	35	16.3	16.3	8.1	8.1	31.3	31.3	97.0	97.0	7.9		2.9		4		-				-		-	
						9.8	0.1	37	16.3		8.1		31.3		97.0		7.9		3.0		5		-				-		-	
					Bottom	18.5	0.2	44	16.3	16.3	8.1	8.1	31.3	31.3	96.4	96.5	7.8	7.8	3.5		6		-				-		-	
						18.5	0.2	46	16.3		8.1		31.3		96.6		7.8		3.8		4		-				-		-	
SR8	Cloudy	Calm	09:13	4.2	Surface	1.0	-	-	16.5	16.5	8.1	8.1	30.3	30.3	100.6	100.6	8.2	8.2	3.9	4.3	6	7	-	-	820246	811418	-	-	-	-
						1.0	-	-	16.5		8.1		30.3		100.6		8.2		3.9		7		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.2	-	-	16.5	16.5	8.1	8.1	30.3	30.3	99.7	99.7	8.1	8.1	4.6		7		-				-		-	
						3.2	-	-	16.5		8.1		30.3		99.6		8.1		4.7		7		-				-		-	

DA: Depth-Averaged

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

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

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 20 February 18 during Mid-Ebb Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
C1	Cloudy	Moderate	15:08	8.4	Surface	1.0	0.2	206	16.7	16.7	8.2	8.2	31.0	31.0	112.7	112.7	9.1	9.0	5.7	6.4	4	4	73	74	815599	804270	<0.2	<0.2	1.2	1.1
						1.0	0.2	212	16.7		8.2		31.0		112.7		9.1		5.7		5		73				<0.2		1.3	
					Middle	4.2	0.2	208	16.3	16.3	8.2	8.2	31.6	31.6	108.9	108.9	8.8		6.4		4		74				<0.2		1.1	
						4.2	0.2	219	16.3		8.2		31.6		108.9		8.8		6.4		4		74				<0.2		1.1	
					Bottom	7.4	0.2	222	16.0	16.0	8.1	8.1	32.2	32.2	104.1	104.1	8.4	8.4	7.2		5		75				<0.2		0.8	
						7.4	0.2	243	16.0		8.1		32.2		104.1		8.4		7.2		4		75				<0.2		0.8	
C2	Foggy	Moderate	14:10	11.8	Surface	1.0	0.1	18	17.3	17.3	8.1	8.1	29.1	29.1	106.8	106.8	8.6	8.6	9.1	9.5	4	5	72	74	825698	806953	<0.2	<0.2	2.1	2.2
						1.0	0.1	19	17.3		8.1		29.1		106.8		8.6		9.1		6		72				<0.2		2.3	
					Middle	5.9	0.1	27	17.1	17.1	8.1	8.1	29.6	29.6	105.6	105.6	8.5		10.3		4		73				<0.2		2.3	
						5.9	0.1	29	17.1		8.1		29.6		105.6		8.5		10.3		4		74				<0.2		2.2	
					Bottom	10.8	0.1	35	17.0	17.0	8.1	8.1	30.0	30.0	105.2	105.2	8.5	8.5	9.0		4		75				<0.2		2.3	
						10.8	0.1	36	17.0		8.1		30.0		105.2		8.5		9.0		5		75				<0.2		2.2	
C3	Cloudy	Moderate	15:51	12.0	Surface	1.0	0.4	63	17.1	17.1	8.1	8.1	30.4	30.4	104.4	104.4	8.4	8.3	2.9	2.8	7	7	73	75	822132	817824	<0.2	<0.2	2.2	2.4
						1.0	0.4	68	17.1		8.1		30.4		104.4		8.4		2.9		7		72				<0.2		2.2	
					Middle	6.0	0.3	86	16.8	16.8	8.1	8.1	30.8	30.8	101.0	101.0	8.1		2.6		6		75				<0.2		2.2	
						6.0	0.3	88	16.8		8.1		30.8		101.0		8.1		2.6		8		74				<0.2		2.4	
					Bottom	11.0	0.3	88	16.6	16.6	8.0	8.0	31.1	31.1	99.3	99.3	8.0	8.0	2.8		6		76				<0.2		2.5	
						11.0	0.3	94	16.6		8.0		31.1		99.3		8.0		2.8		6		77				<0.2		2.8	
IM1	Cloudy	Moderate	14:50	7.4	Surface	1.0	0.1	119	17.2	17.2	8.2	8.2	31.2	31.2	112.7	112.7	9.0	9.0	6.7	7.2	3	4	73	74	818339	806433	<0.2	<0.2	1.0	1.0
						1.0	0.1	122	17.2		8.2		31.2		112.7		9.0		6.7		4		73				<0.2		1.1	
					Middle	3.7	0.1	104	16.7	16.7	8.2	8.2	31.3	31.3	110.4	110.4	8.9		6.8		4		73				<0.2		1.0	
						3.7	0.1	107	16.7		8.2		31.3		110.4		8.9		6.8		5		74				<0.2		1.0	
					Bottom	6.4	0.1	133	16.4	16.4	8.2	8.2	31.3	31.3	107.1	107.1	8.7	8.7	8.1		4		74				<0.2		1.0	
						6.4	0.1	139	16.4		8.2		31.3		107.1		8.7		8.1		5		74				<0.2		0.9	
IM2	Cloudy	Moderate	14:45	8.4	Surface	1.0	0.1	157	16.7	16.7	8.2	8.2	31.3	31.3	111.0	111.0	8.9	8.9	7.5	8.7	6	6	73	73	818875	806182	<0.2	<0.2	0.9	1.0
						1.0	0.1	164	16.7		8.2		31.3		111.0		8.9		7.5		5		73				<0.2		1.0	
					Middle	4.2	0.1	189	16.4	16.4	8.2	8.2	31.3	31.3	108.1	108.1	8.8		8.6		6		73				<0.2		0.9	
						4.2	0.1	207	16.4		8.2		31.3		108.1		8.8		8.6		5		73				<0.2		1.0	
					Bottom	7.4	0.1	132	16.3	16.3	8.2	8.2	31.4	31.4	106.1	106.1	8.6	8.6	10.0		6		74				<0.2		1.0	
						7.4	0.1	142	16.3		8.2		31.4		106.1		8.6		10.0		6		74				<0.2		1.0	
IM3	Cloudy	Moderate	14:39	8.6	Surface	1.0	0.1	173	16.6	16.6	8.2	8.2	31.2	31.2	110.8	110.8	8.9	8.9	8.4	9.6	6	6	73	74	819433	806002	<0.2	<0.2	1.1	1.0
						1.0	0.1	185	16.6		8.2		31.2		110.8		8.9		8.4		5		73				<0.2		1.1	
					Middle	4.3	0.0	274	16.3	16.3	8.2	8.2	31.3	31.3	108.1	108.1	8.8		10.8		6		73				<0.2		1.0	
						4.3	0.0	287	16.3		8.2		31.3		108.1		8.8		10.8		6		74				<0.2		1.0	
					Bottom	7.6	0.1	232	16.3	16.3	8.2	8.2	31.4	31.4	106.0	106.0	8.6	8.6	9.5		8		74				<0.2		0.8	
						7.6	0.1	249	16.3		8.2		31.4		106.0		8.6		9.5		7		74				<0.2		0.9	
IM4	Cloudy	Moderate	14:31	7.8	Surface	1.0	0.1	165	16.8	16.8	8.2	8.2	30.9	30.9	113.5	113.5	9.1	9.0	6.7	8.2	5	6	73	74	819575	805052	<0.2	<0.2	1.2	1.1
						1.0	0.1	168	16.8		8.2		30.9		113.5		9.1		6.7		5		73				<0.2		1.4	
					Middle	3.9	0.0	131	16.3	16.3	8.2	8.2	31.2	31.2	108.7	108.7	8.8		8.8		5		74				<0.2		1.0	
						3.9	0.0	140	16.3		8.2		31.2		108.7		8.8		8.8		6		74				<0.2		1.1	
					Bottom	6.8	0.1	35	16.3	16.3	8.2	8.2	31.3	31.3	107.1	107.1	8.7	8.7	9.1		6		75				<0.2		1.0	
						6.8	0.1	35	16.3		8.2		31.3		107.1		8.7		9.1		7		75				<0.2		0.9	
IM5	Cloudy	Moderate	14:22	7.1	Surface	1.0	0.0	128	17.0	17.0	8.2	8.2	31.0	31.0	112.1	112.1	9.0	9.0	7.5	7.8	3	5	73	74	820560	804910	<0.2	<0.2	1.2	1.1
						1.0	0.0	137	17.0		8.2		31.0		112.1		9.0		7.5		4		73				<0.2		1.2	
					Middle	3.6	0.1	155	16.5	16.5	8.2	8.2	31.0	31.0	110.2	110.2	8.9		8.2		4		74				<0.2		1.0	
						3.6	0.1	158	16.5		8.2		31.0		110.2		8.9		8.2		6		74				<0.2		1.2	
					Bottom	6.1	0.1	205	16.5	16.5	8.2	8.2	31.0	31.0	108.3	108.3	8.8	8.8	7.7		6		74				<0.2		1.0	
						6.1	0.1	220	16.5		8.2		31.0		108.3		8.8		7.7		7		74				<0.2		1.1	
IM6	Cloudy	Moderate	14:14	7.1	Surface	1.0	0.1	89	16.7	16.7	8.2	8.2	31.1	31.1	113.4	113.4	9.1	9.1	8.7	8.4	4	5	73	74	821064	805839	<0.2	<0.2	1.1	1.1
						1.0	0.1	93	16.7		8.2		31.1		113.4		9.1		8.7		3		73				<0.2		1.0	
					Middle	3.6	0.1	79	16.6	16.6	8.2	8.2	31.1	31.1	111.2	111.2	9.0		7.8		4		74				<0.2		1.1	
						3.6	0.1	83	16.6		8.2		31.1		111.2		9.0		7.8		6		74				<0.2		1.0	
					Bottom	6.1	0.1	99	16.5	16.5	8.2	8.2	31.1	31.1	108.5	108.5	8.8	8.8	8.7		7		74				<0.2		1.0	
						6.1	0.1	107	16.5		8.2		31.1		108.5		8.8		8.7		8		74				<0.2		1.2	
IM7	Cloudy	Moderate	14:08	8.7	Surface	1.0	0.3	88	16.7	16.7	8.2	8.2	30.6	30.6	113.9	113.9	9.2	9.2	8.8	10.3	4	8	72	73	821374	806840	<0.2	<0.2	1.3	1.3
						1.0	0.3	89	16.7		8.2		30.6		113.9		9.2		8.8		4		72				<0.2		1.4	
					Middle	4.4	0.2	98	16.7	16.7	8.2	8.2	30.6	30.6	112.3	112.3	9.1		10.1		10		73				<0.2		1.4	
						4.4	0.2	103	16.7		8.2		30.6		112.3		9.1		10.1		9		73				<0.2		1.3	
					Bottom	7.7	0.2	85	16.6	16.6	8.2	8.2	30.7	30.7	110.3	110.3	8.9	8.9	11.9		10		74				<0.2		1.3	
						7.7	0.2	91	16.6		8.2		30.7		110.3		8.9		11.9		10		74				<0.2		1.3	
IM8	Foggy	Moderate	14:33	8.4	Surface	1.0	0.3	165	17.3	17.3	8.1	8.1	29.1	29.1	109.7	109.7	8.9	8.9	6.7	6.9	5	4	72	73	821680	807815	<0.2	<0.2	2.5	2.4
						1.0	0.4	172	17.3		8.1		29.1		109.7		8.9		6.7		4		73				<0.2		2.6	
					Middle	4.2	0.3	98	16.9	16.9	8.1	8.1	30.4	30.4	110.2	110.2	8.9		6.7		3		72				<0.2		2.4	
						4.2	0.3	99	16.9		8.1		30.4		110.2		8.9		6.7		4		73				<0.2		2.2	
					Bottom	7.4	0.3	77	16.9	16.9	8.1	8.1	30.5	30.5	109.9	109.9	8.9	8.9	7.4		3		74				<0.2		2.3	
						7.4	0.3	78	16.9		8.1		30.5		109.9		8.9		7.4		4		75				<0.2		2.3	

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

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 20 February 18 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	Foggy	Moderate	14:41	7.1	Surface	1.0	0.4	93	17.1	17.1	8.1	8.1	29.8	29.8	111.8	111.8	9.0	9.0	6.6	8.4	4	5	72	74	822082	808833	<0.2	<0.2	2.5	2.5
						1.0	0.5	96	17.1		8.1		29.8		111.8		9.0		6.6		5		73				<0.2		2.4	
					Middle	3.6	0.4	75	17.0	17.0	8.1	8.1	30.3	30.3	110.3	110.3	8.9		8.6		5		75				<0.2		2.6	
						3.6	0.4	75	17.0		8.1		30.3		110.3		8.9		8.6		4		73				<0.2		2.4	
					Bottom	6.1	0.3	56	16.9	16.9	8.1	8.1	30.4	30.4	108.1	108.1	8.7	8.7	10.1		6		74				<0.2		2.4	
						6.1	0.3	56	16.9		8.1		30.4		108.1		8.7		10.1		4		75				<0.2		2.7	
IM10	Foggy	Moderate	14:48	7.0	Surface	1.0	0.4	87	17.1	17.1	8.1	8.1	30.1	30.1	112.3	112.3	9.0	8.9	5.9	7.7	3	5	72	74	822247	809828	<0.2	<0.2	2.5	2.6
						1.0	0.4	95	17.1		8.1		30.1		112.3		9.0		5.9		4		72				<0.2		2.7	
					Middle	3.5	0.4	83	17.0	17.0	8.1	8.1	30.2	30.2	109.1	109.1	8.8		8.0		5		74				<0.2		2.6	
						3.5	0.4	85	17.0		8.1		30.2		109.1		8.8		8.0		7		74				<0.2		2.6	
					Bottom	6.0	0.3	93	17.0	17.0	8.1	8.1	30.2	30.2	106.9	106.9	8.6	8.6	9.3		7		74				<0.2		2.6	
						6.0	0.3	100	17.0		8.1		30.2		106.9		8.6		9.3		6		75				<0.2		2.5	
IM11	Foggy	Moderate	15:01	7.3	Surface	1.0	0.3	148	17.2	17.2	8.1	8.1	30.0	30.0	112.0	112.0	9.0	9.0	7.4	6.8	6	5	72	75	821516	810533	<0.2	<0.2	2.0	2.1
						1.0	0.3	160	17.2		8.1		30.0		112.0		9.0		7.4		5		73				<0.2		2.1	
					Middle	3.7	0.3	135	17.1	17.1	8.1	8.1	30.1	30.1	110.4	110.4	8.9		6.3		5		76				<0.2		2.0	
						3.7	0.3	138	17.1		8.1		30.1		110.4		8.9		6.3		6		77				<0.2		2.3	
					Bottom	6.3	0.2	124	17.1	17.1	8.1	8.1	30.3	30.3	109.6	109.6	8.8	8.8	6.7		5		75				<0.2		2.2	
						6.3	0.2	130	17.1		8.1		30.3		109.6		8.8		6.7		5		75				<0.2		2.2	
IM12	Foggy	Moderate	15:08	8.8	Surface	1.0	0.4	109	17.5	17.5	8.1	8.1	29.6	29.6	111.9	111.9	9.0	9.0	4.9	6.2	4	4	73	74	821185	811530	<0.2	<0.2	2.0	2.1
						1.0	0.4	119	17.5		8.1		29.6		111.9		9.0		4.9		5		73				<0.2		2.1	
					Middle	4.4	0.4	86	17.1	17.1	8.1	8.1	30.1	30.1	110.4	110.4	8.9		6.6		4		73				<0.2		2.0	
						4.4	0.4	91	17.1		8.1		30.1		110.4		8.9		6.6		3		74				<0.2		2.1	
					Bottom	7.8	0.3	87	17.1	17.1	8.1	8.1	30.1	30.1	110.3	110.3	8.9	8.9	7.1		3		75				<0.2		2.1	
						7.8	0.3	90	17.1		8.1		30.1		110.3		8.9		7.1		4		76				<0.2		2.3	
SR2	Cloudy	Moderate	15:31	4.1	Surface	1.0	0.4	95	17.2	17.2	8.1	8.1	29.8	29.8	111.8	111.8	9.0	9.0	2.8	5.9	4	6	72	74	821454	814166	<0.2	<0.2	2.3	2.5
						1.0	0.4	103	17.2		8.1		29.8		111.8		9.0		2.8		4		73				<0.2		2.2	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.1	0.3	93	17.2	17.2	8.1	8.1	29.9	29.9	111.2	111.2	8.9	8.9	9.0		7		75				<0.2		2.8	
						3.1	0.3	99	17.2		8.1		29.9		111.2		8.9		9.0		8		75				<0.2		2.6	
SR3	Foggy	Moderate	14:29	8.9	Surface	1.0	0.2	148	17.2	17.2	8.1	8.1	29.1	29.1	109.4	109.5	8.9	8.9	6.5	6.7	6	5	-	-	822158	807562	-	-	-	-
						1.0	0.2	157	17.2		8.1		29.1		109.5		8.9		6.6		5		-				-		-	
					Middle	4.5	0.1	110	17.0	17.0	8.1	8.1	29.9	29.9	108.7	108.7	8.8		6.7		5		-				-		-	
						4.5	0.1	113	17.0		8.1		29.9		108.7		8.8		6.4		5		-				-		-	
					Bottom	7.9	0.1	228	16.8	16.8	8.1	8.1	30.3	30.3	107.1	107.1	8.7	8.7	6.9		5		-				-		-	
						7.9	0.1	248	16.8		8.1		30.3		107.1		8.7		6.9		6		-				-		-	
SR4A	Cloudy	Calm	15:29	8.2	Surface	1.0	0.2	81	17.0	17.0	8.2	8.2	31.2	31.2	116.7	116.7	9.4	9.4	6.2	6.9	4	5	-	-	817190	807794	-	-	-	-
						1.0	0.2	82	17.0		8.2		31.2		116.7		9.4		6.2		5		-				-		-	
					Middle	4.1	0.2	78	16.8	16.8	8.2	8.2	31.2	31.2	115.4	115.4	9.3		6.4		4		-				-		-	
						4.1	0.3	82	16.8		8.2		31.2		115.4		9.3		6.4		6		-				-		-	
					Bottom	7.2	0.2	80	16.6	16.6	8.2	8.2	31.3	31.3	111.7	111.7	9.0	9.0	8.0		4		-				-		-	
						7.2	0.2	83	16.6		8.2		31.3		111.7		9.0		8.0		6		-				-		-	
SR5A	Cloudy	Calm	15:46	5.0	Surface	1.0	0.1	73	17.6	17.6	8.2	8.2	31.1	31.1	112.4	112.4	8.9	8.9	8.8	9.7	5	6	-	-	816601	810674	-	-	-	-
						1.0	0.1	76	17.6		8.2		31.1		112.3		8.9		8.8		4		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.0	0.1	116	17.4	17.4	8.2	8.2	31.1	31.1	108.0	108.0	8.6	8.6	10.5		6		-				-		-	
						4.0	0.1	123	17.4		8.2		31.1		108.0		8.6		10.5		7		-				-		-	
SR6	Cloudy	Calm	16:09	4.0	Surface	1.0	0.1	75	17.8	17.8	8.2	8.2	31.0	31.0	116.0	116.0	9.2	9.2	5.4	5.8	3	3	-	-	817877	814660	-	-	-	-
						1.0	0.1	82	17.8		8.2		31.0		116.0		9.2		5.4		3		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.0	0.1	69	17.6	17.6	8.2	8.2	31.1	31.1	112.6	112.6	8.9	8.9	6.2		4		-				-		-	
						3.0	0.1	70	17.6		8.2		31.1		112.6		8.9		6.2		3		-				-		-	
SR7	Cloudy	Moderate	16:20	16.3	Surface	1.0	0.5	84	17.3	17.3	8.1	8.1	30.7	30.7	106.5	106.5	8.5	8.4	1.4	2.0	4	5	-	-	823609	823759	-	-	-	-
						1.0	0.5	89	17.3		8.1		30.7		106.4		8.5		1.5		6		-				-		-	
					Middle	8.2	0.3	82	17.0	17.0	8.1	8.1	30.8	30.8	103.6	103.6	8.3		1.8		5		-				-		-	
						8.2	0.4	85	17.0		8.1		30.8		103.6		8.3		1.8		4		-				-		-	
					Bottom	15.3	0.2	59	16.8	16.8	8.1	8.1	30.8	30.8	101.0	101.0	8.1	8.1	2.6		4		-				-		-	
						15.3	0.2	59	16.8		8.1		30.8		101.0		8.1		2.6		4		-				-		-	
SR8	Foggy	Moderate	15:16	4.3	Surface	1.0	-	-	17.7	17.7	8.1	8.1	29.9	29.9	110.1	110.1	8.8	8.8	5.2	5.6	3	4	-	-	820246	811418	-	-	-	-
						1.0	-	-	17.7		8.1		29.9		110.1		8.8		5.2		4		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.3	-	-	17.2	17.2	8.1	8.1	30.1	30.1	106.8	106.8	8.6	8.6	5.9		5		-				-		-	
						3.3	-	-	17.2		8.1		30.1		106.8		8.6		5.9		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 20 February 18 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	Calm	09:58	8.3	Surface	1.0	0.5	41	16.4	16.4	8.2	8.2	31.0	31.0	109.5	109.5	8.9	8.9	10.7	16.5	5	4	73	74	815614	804242	<0.2	<0.2	1.0	1.1
						1.0	0.5	41	16.4		8.2		31.0		109.5		8.9		10.7		4		74				<0.2		1.0	
					Middle	4.2	0.4	42	16.4	16.4	8.1	8.1	31.2	31.2	108.3	108.3	8.8		18.2		3		74				<0.2		1.2	
						4.2	0.5	42	16.4		8.1		31.2		108.3		8.8		18.3		4		74				<0.2		1.2	
					Bottom	7.3	0.4	38	16.3	16.3	8.1	8.1	31.5	31.5	105.3	105.3	8.5	8.5	20.3		5		75				<0.2		1.1	
						7.3	0.4	40	16.3		8.1		31.5		105.3		8.5		20.6		5		75				<0.2		1.1	
C2	Foggy	Moderate	10:51	12.0	Surface	1.0	0.5	337	17.3	17.3	8.0	8.0	27.9	27.9	105.2	105.2	8.5	8.5	4.5	7.4	3	2	72	73	825691	806946	<0.2	<0.2	4.6	4.5
						1.0	0.6	310	17.3		8.0		27.9		105.2		8.5		4.5		2		72				<0.2		4.6	
					Middle	6.0	0.5	353	17.0	17.0	8.0	8.0	28.5	28.5	103.5	103.5	8.4		6.1		2		73				<0.2		4.7	
						6.0	0.6	359	17.0		8.0		28.5		103.5		8.4		6.1		3		73				<0.2		4.5	
					Bottom	11.0	0.4	354	16.9	16.9	8.0	8.0	28.6	28.6	103.4	103.4	8.4	8.4	11.5		2		74				<0.2		4.2	
						11.0	0.4	326	16.9		8.0		28.6		103.4		8.4		11.5		2		75				<0.2		4.5	
C3	Cloudy	Moderate	09:04	11.4	Surface	1.0	0.6	259	16.9	16.9	8.1	8.1	30.1	30.1	105.2	105.2	8.5	8.5	3.7	5.8	4	5	72	74	822128	817801	<0.2	<0.2	2.8	2.1
						1.0	0.6	268	16.9		8.1		30.1		105.2		8.5		3.7		6		72				<0.2		2.3	
					Middle	5.7	0.6	267	16.9	16.9	8.1	8.1	30.4	30.4	104.3	104.3	8.4		5.4		4		74				<0.2		2.2	
						5.7	0.6	278	16.9		8.1		30.4		104.3		8.4		5.4		4		74				<0.2		1.9	
					Bottom	10.4	0.5	271	16.8	16.8	8.1	8.1	30.5	30.5	103.6	103.6	8.4	8.4	8.4		4		77				<0.2		1.8	
						10.4	0.5	279	16.8		8.1		30.5		103.6		8.4		8.4		5		76				<0.2		1.6	
IM1	Cloudy	Moderate	10:17	7.5	Surface	1.0	0.7	9	16.6	16.6	8.2	8.2	30.7	30.7	110.2	110.2	8.9	8.9	8.2	9.9	5	7	73	74	818350	806462	<0.2	<0.2	1.6	1.4
						1.0	0.7	9	16.6		8.2		30.7		110.2		8.9		8.2		5		73				<0.2		1.5	
					Middle	3.8	0.7	8	16.5	16.5	8.2	8.2	30.8	30.8	109.0	109.0	8.8		9.3		4		74				<0.2		1.4	
						3.8	0.7	8	16.5		8.2		30.8		109.0		8.8		9.3		6		74				<0.2		1.5	
					Bottom	6.5	0.6	7	16.5	16.5	8.2	8.2	30.9	30.9	107.0	107.0	8.7	8.7	12.3		9		74				<0.2		1.3	
						6.5	0.6	7	16.5		8.2		30.9		106.9		8.7		12.2		10		74				<0.2		1.2	
IM2	Cloudy	Moderate	10:22	8.2	Surface	1.0	0.5	22	16.6	16.6	8.1	8.1	30.4	30.4	108.6	108.6	8.8	8.8	12.7	20.7	11	16	73	74	818833	806221	<0.2	<0.2	1.5	1.5
						1.0	0.5	22	16.6		8.1		30.4		108.6		8.8		12.9		12		73				<0.2		1.5	
					Middle	4.1	0.5	20	16.6	16.6	8.1	8.1	30.4	30.4	108.1	108.1	8.8		20.1		14		74				<0.2		1.5	
						4.1	0.5	20	16.6		8.1		30.4		108.1		8.8		20.1		15		74				<0.2		1.6	
					Bottom	7.2	0.4	19	16.6	16.6	8.1	8.1	30.4	30.4	107.1	107.1	8.7	8.7	29.3		20		74				<0.2		1.6	
						7.2	0.5	19	16.6		8.1		30.4		107.1		8.7		29.1		22		75				<0.2		1.5	
IM3	Cloudy	Moderate	10:30	8.3	Surface	1.0	0.3	10	16.7	16.7	8.1	8.1	30.3	30.3	110.1	110.1	8.9	8.9	9.3	12.3	8	10	73	74	819405	805993	<0.2	<0.2	1.7	1.6
						1.0	0.3	10	16.7		8.1		30.3		110.1		8.9		9.3		8		73				<0.2		1.5	
					Middle	4.2	0.3	26	16.7	16.7	8.1	8.1	30.3	30.3	109.5	109.5	8.9		11.1		10		74				<0.2		1.7	
						4.2	0.3	27	16.7		8.1		30.3		109.5		8.9		11.2		10		74				<0.2		1.5	
					Bottom	7.3	0.3	36	16.6	16.6	8.1	8.1	30.3	30.3	107.6	107.6	8.7	8.7	16.2		11		75				<0.2		1.6	
						7.3	0.3	39	16.6		8.1		30.3		107.6		8.7		16.7		12		75				<0.2		1.5	
IM4	Cloudy	Moderate	10:37	7.6	Surface	1.0	0.5	19	16.6	16.6	8.2	8.2	30.5	30.5	110.7	110.7	9.0	9.0	8.2	16.8	5	9	74	75	819563	805031	<0.2	<0.2	1.4	1.4
						1.0	0.5	20	16.6		8.2		30.5		110.7		9.0		8.2		5		74				<0.2		1.4	
					Middle	3.8	0.4	14	16.6	16.6	8.2	8.2	30.5	30.5	109.5	109.5	8.9		14.3		7		75				<0.2		1.4	
						3.8	0.4	14	16.6		8.2		30.5		109.5		8.9		14.3		9		75				<0.2		1.3	
					Bottom	6.6	0.4	12	16.6	16.6	8.2	8.2	30.5	30.5	108.4	108.4	8.8	8.8	27.7		13		75				<0.2		1.4	
						6.6	0.5	12	16.6		8.2		30.5		108.3		8.8		27.9		13		75				<0.2		1.4	
IM5	Cloudy	Moderate	10:46	7.0	Surface	1.0	0.6	13	16.8	16.8	8.2	8.2	30.1	30.1	111.3	111.3	9.0	9.0	11.3	15.0	7	12	73	74	820542	804925	<0.2	<0.2	1.6	1.6
						1.0	0.6	13	16.8		8.2		30.1		111.3		9.0		11.3		6		73				<0.2		1.7	
					Middle	3.5	0.6	15	16.7	16.7	8.2	8.2	30.3	30.3	110.6	110.6	9.0		13.4		9		74				<0.2		1.7	
						3.5	0.7	16	16.7		8.2		30.3		110.6		9.0		13.4		10		75				<0.2		1.7	
					Bottom	6.0	0.5	17	16.7	16.7	8.2	8.2	30.3	30.3	109.0	109.0	8.8	8.8	20.4		19		75				<0.2		1.6	
						6.0	0.6	17	16.7		8.2		30.3		109.0		8.8		20.4		20		75				<0.2		1.5	
IM6	Cloudy	Moderate	10:54	6.7	Surface	1.0	0.4	29	16.7	16.7	8.1	8.1	30.0	30.0	108.2	108.2	8.8	8.8	7.8	8.0	7	8	73	74	821063	805829	<0.2	<0.2	1.7	1.7
						1.0	0.4	31	16.7		8.1		30.0		108.2		8.8		7.8		7		74				<0.2		1.8	
					Middle	3.4	0.4	32	16.7	16.7	8.1	8.1	30.1	30.1	107.9	107.9	8.8		7.7		8		74				<0.2		1.6	
						3.4	0.4	32	16.7		8.1		30.1		107.9		8.8		7.7		9		74				<0.2		1.7	
					Bottom	5.7	0.3	33	16.7	16.7	8.1	8.1	30.2	30.2	107.0	107.0	8.7	8.7	8.4		9		75				<0.2		1.7	
						5.7	0.3	33	16.7		8.1		30.2		107.0		8.7		8.4		8		75				<0.2		1.6	
IM7	Cloudy	Moderate	11:02	8.4	Surface	1.0	0.5	27	16.7	16.7	8.2	8.2	30.4	30.4	109.6	109.6	8.9	8.9	7.0	8.0	5	8	71	73	821369	806809	<0.2	<0.2	1.8	1.5
						1.0	0.5	29	16.7		8.2		30.4		109.6		8.9		7.0		7		71				<0.2		1.8	
					Middle	4.2	0.5	23	16.6	16.6	8.2	8.2	30.5	30.5	109.0	109.0	8.8		7.6		9		73				<0.2		1.5	
						4.2	0.5	23	16.6		8.2		30.5		109.0		8.8		7.6		8		73				<0.2		1.4	
					Bottom	7.4	0.3	22	16.6	16.6	8.2	8.2	30.9	30.9	108.1	108.1	8.7	8.7	9.5		9		74				<0.2		1.4	
						7.4	0.4	23	16.6		8.2		30.9		108.1		8.7		9.5		7		74				<0.2		1.3	
IM8	Foggy	Moderate	10:27	8.1	Surface	1.0	0.3	5	17.0	17.0	8.1	8.1	29.3	29.3	104.7	104.7	8.5	8.5	7.0	8.2	9	8	72	74	821690	807843	<0.2	<0.2	2.6	2.9
						1.0	0.3	5	17.0		8.1		29.3		104.7		8.5		7.0		7		73				<0.2		2.8	
					Middle	4.1	0.3	19	17.0	17.0	8.1	8.1	29.3	29.3	104.0	104.0	8.4		8.4		8		73				<0.2		2.6	
						4.1	0.3	19	17.0		8.1		29.3		104.0		8.4		8.4		10		74				<0.2		2.9	
					Bottom	7.1	0.4	15	17.0	17.0	8.1	8.1	29.4	29.4	104.9	104.9	8.5	8.5	9.1		8		75				<0.2		3.1	
						7.1	0.4	16	17.0		8.1		29.4		104.9		8.5		9.1		8		74				<0.2		3.2	

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

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

Water Quality Monitoring

Water Quality Monitoring Results on 20 February 18 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	Foggy	Moderate	10:20	7.0	Surface	1.0	0.2	351	17.1	17.1	8.1	8.1	28.6	28.6	104.4	104.4	8.5	8.5	9.1	9.7	10	10	73	74	822089	808800	<0.2	<0.2	2.4	**3.8**
						1.0	0.2	358	17.1		8.1		28.6		104.4		8.5		9.1		10		72				<0.2		2.7	
					Middle	3.5	0.1	357	17.1	17.1	8.0	8.0	28.6	28.6	103.7	103.7	8.4		10.0		10		75				<0.2		4.1	
						3.5	0.1	328	17.1		8.0		28.6		103.7		8.4		10.0		11		74				<0.2		4.1	
					Bottom	6.0	0.2	339	17.1	17.1	8.0	8.0	28.6	28.6	103.7	103.7	8.4	8.4	10.0		10		75				<0.2		4.8	
						6.0	0.2	312	17.1		8.0		28.6		103.7		8.4		10.0		11		75				<0.2		4.7	
IM10	Foggy	Moderate	10:12	6.5	Surface	1.0	0.5	321	17.0	17.0	8.1	8.1	29.8	29.8	107.0	107.0	8.6	8.6	9.1	11.0	10	10	72	75	822268	809830	<0.2	<0.2	2.5	3.1
						1.0	0.6	349	17.0		8.1		29.8		107.0		8.6		9.1		10		73				<0.2		2.3	
					Middle	3.3	0.6	324	17.0	17.0	8.1	8.1	29.8	29.8	106.5	106.5	8.6		10.2		9		74				<0.2		2.4	
						3.3	0.7	355	17.0		8.1		29.8		106.4		8.6		10.2		9		75				<0.2		3.7	
					Bottom	5.5	0.5	319	17.0	17.0	8.1	8.1	29.8	29.8	105.2	105.2	8.5	8.5	13.7		9		76				<0.2		3.8	
						5.5	0.6	335	17.0		8.1		29.8		105.2		8.5		13.7		11		77				<0.2		3.9	
IM11	Foggy	Moderate	09:57	7.0	Surface	1.0	0.6	295	17.1	17.1	8.1	8.1	30.0	30.0	107.0	107.0	8.6	8.6	9.9	13.9	7	6	72	75	821516	810564	<0.2	<0.2	2.4	3.1
						1.0	0.7	309	17.1		8.1		30.0		107.0		8.6		9.9		6		73				<0.2		2.5	
					Middle	3.5	0.5	291	17.1	17.1	8.1	8.1	30.0	30.0	106.1	106.1	8.5		14.9		6		75				<0.2		2.4	
						3.5	0.5	296	17.1		8.1		30.0		106.1		8.5		14.9		6		74				<0.2		3.9	
					Bottom	6.0	0.4	294	17.1	17.1	8.1	8.1	30.1	30.1	104.7	104.7	8.4	8.4	17.0		7		76				<0.2		3.6	
						6.0	0.5	300	17.1		8.1		30.1		104.7		8.4		17.0		5		77				<0.2		4.0	
IM12	Foggy	Moderate	09:50	8.5	Surface	1.0	0.7	275	17.1	17.1	8.1	8.1	30.3	30.3	107.3	107.3	8.6	8.6	11.4	15.6	8	9	72	73	821178	811499	<0.2	<0.2	2.4	2.3
						1.0	0.7	288	17.1		8.1		30.3		107.3		8.6		11.4		7		73				<0.2		2.3	
					Middle	4.3	0.7	276	17.1	17.1	8.1	8.1	30.3	30.3	106.5	106.5	8.6		16.6		9		73				<0.2		2.2	
						4.3	0.7	279	17.1		8.1		30.3		106.5		8.6		16.6		10		73				<0.2		2.4	
					Bottom	7.5	0.6	279	17.1	17.1	8.1	8.1	30.3	30.3	104.8	104.8	8.4	8.4	18.7		10		74				<0.2		2.3	
						7.5	0.6	293	17.1		8.1		30.3		104.8		8.4		18.7		8		75				<0.2		2.1	
SR2	Foggy	Moderate	09:25	4.3	Surface	1.0	0.3	88	17.0	17.0	8.1	8.1	30.0	30.0	105.6	105.6	8.5	8.5	7.3	8.2	6	6	73	74	821438	814170	<0.2	<0.2	1.9	1.9
						1.0	0.3	96	17.0		8.1		30.0		105.6		8.5		7.3		4		72				<0.2		1.8	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.3	0.3	86	17.0	17.0	8.1	8.1	30.0	30.0	103.9	103.9	8.4	8.4	9.0		6		75				<0.2		2.0	
						3.3	0.3	90	17.0		8.1		30.0		103.9		8.4		9.0		7		75				<0.2		1.7	
SR3	Foggy	Moderate	10:33	8.6	Surface	1.0	0.4	22	17.0	17.0	8.0	8.0	28.6	28.6	103.1	103.1	8.4	8.4	9.3	10.0	6	6	-	-	822127	807549	-	-	-	-
						1.0	0.5	22	17.0		8.0		28.6		103.1		8.4		9.3		6		-				-		-	
					Middle	4.3	0.4	18	17.0	17.0	8.0	8.0	28.8	28.8	103.1	103.1	8.4		10.8		6		-				-		-	
						4.3	0.4	18	17.0		8.0		28.8		103.1		8.4		10.8		5		-				-		-	
					Bottom	7.6	0.5	11	17.0	17.0	8.0	8.0	29.0	29.0	103.7	103.7	8.4	8.4	10.0		5		-				-		-	
						7.6	0.5	11	17.0		8.0		29.0		103.7		8.4		10.0		5		-				-		-	
SR4A	Cloudy	Calm	09:37	8.8	Surface	1.0	0.3	252	17.0	17.0	8.1	8.1	31.2	31.2	108.3	108.3	8.7	8.7	7.0	6.9	5	5	-	-	817211	807821	-	-	-	-
						1.0	0.3	258	17.0		8.1		31.2		108.3		8.7		7.0		5		-				-		-	
					Middle	4.4	0.2	255	17.0	17.0	8.1	8.1	31.2	31.2	107.8	107.8	8.6		6.4		5		-				-		-	
						4.4	0.2	266	17.0		8.1		31.2		107.8		8.6		6.3		4		-				-		-	
					Bottom	7.8	0.2	258	17.0	17.0	8.1	8.1	31.2	31.2	107.2	107.2	8.6	8.6	7.4		7		-				-		-	
						7.8	0.2	262	17.0		8.1		31.2		107.2		8.6		7.4		5		-				-		-	
SR5A	Cloudy	Calm	09:23	4.6	Surface	1.0	0.4	302	17.1	17.1	8.1	8.1	31.1	31.1	107.3	107.3	8.6	8.6	6.9	7.3	5	7	-	-	816584	810715	-	-	-	-
						1.0	0.4	310	17.1		8.1		31.1		107.3		8.6		6.9		7		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.6	0.4	309	17.1	17.1	8.1	8.1	31.1	31.1	106.4	106.4	8.5	8.5	7.6		8		-				-		-	
						3.6	0.4	314	17.1		8.1		31.1		106.4		8.5		7.6		8		-				-		-	
SR6	Cloudy	Calm	09:01	3.8	Surface	1.0	0.2	250	16.9	16.9	8.0	8.0	30.6	30.6	108.0	108.0	8.7	8.7	7.4	7.4	5	5	-	-	817888	814646	-	-	-	-
						1.0	0.2	257	16.9		8.0		30.6		108.0		8.7		7.4		5		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.8	0.2	252	16.9	16.9	8.0	8.0	30.6	30.6	105.5	105.5	8.5	8.5	7.3		4		-				-		-	
						2.8	0.2	262	16.9		8.0		30.6		105.5		8.5		7.3		6		-				-		-	
SR7	Cloudy	Moderate	08:24	16.6	Surface	1.0	0.3	6	16.9	16.9	8.0	8.0	30.4	30.4	102.6	102.6	8.3	8.2	3.0	2.7	2	5	-	-	823625	823754	-	-	-	-
						1.0	0.4	6	16.9		8.0		30.4		102.6		8.3		3.0		3		-				-		-	
					Middle	8.3	0.3	24	16.8	16.8	8.0	8.0	30.6	30.6	100.3	100.3	8.1		2.2		5		-				-		-	
						8.3	0.3	25	16.8		8.0		30.6		100.3		8.1		2.2		7		-				-		-	
					Bottom	15.6	0.3	49	16.7	16.7	8.0	8.0	30.8	30.8	98.9	98.9	8.0	8.0	2.8		5		-				-		-	
						15.6	0.3	53	16.7		8.0		30.8		98.9		8.0		2.8		5		-				-		-	
SR8	Foggy	Moderate	09:42	4.0	Surface	1.0	-	-	17.4	17.4	8.0	8.0	29.1	29.1	104.5	104.4	8.4	8.4	6.1	6.2	5	5	-	-	820246	811418	-	-	-	-
						1.0	-	-	17.4		8.0		29.1		104.2		8.4		6.5		4		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.0	-	-	17.2	17.2	8.0	8.0	29.3	29.3	102.5	102.5	8.3	8.3	6.0		5		-				-		-	
						3.0	-	-	17.2		8.0		29.3		102.5		8.3		6.0		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 22 February 18 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	Rainy	Moderate	16:49	8.5	Surface	1.0	0.2	205	16.2	16.2	8.1	8.1	32.1	32.1	104.1	104.1	8.4	8.4	5.4	5.5	8	8	72	75	815612	804234	<0.2	<0.2	0.8	0.8
						1.0	0.2	217	16.2		8.1		32.1		104.1		8.4		5.4		7		73				<0.2		0.8	
					Middle	4.3	0.3	217	16.2	16.2	8.1	8.1	32.1	32.1	103.6	103.6	8.4		5.4		7		75				<0.2		0.9	
						4.3	0.3	227	16.2		8.1		32.1		103.6		8.4		5.4		8		75				<0.2		0.8	
					Bottom	7.5	0.3	209	16.3	16.3	8.1	8.1	32.2	32.2	102.7	102.7	8.3	8.3	5.6		8		76				<0.2		0.8	
						7.5	0.3	224	16.3		8.1		32.2		102.7		8.3		5.6		8		77				<0.2		0.8	
C2	Cloudy	Moderate	15:47	11.4	Surface	1.0	0.2	167	17.1	17.1	8.0	8.0	28.9	28.9	101.8	101.8	8.2	8.2	4.5	9.3	7	7	72	73	825687	806955	<0.2	<0.2	2.2	2.2
						1.0	0.2	176	17.1		8.0		28.9		101.8		8.3		4.6		7		72				<0.2		2.4	
					Middle	5.7	0.1	117	17.0	17.0	8.1	8.1	29.6	29.6	101.8	101.7	8.2		11.7		6		73				<0.2		2.1	
						5.7	0.2	122	17.0		8.1		29.6		101.6		8.2		12.0		6		73				<0.2		2.4	
					Bottom	10.4	0.2	71	17.0	17.0	8.1	8.1	29.7	29.7	101.6	101.5	8.2	8.2	11.3		8		75				<0.2		1.9	
						10.4	0.2	74	17.0		8.1		29.7		101.4		8.2		11.5		8		75				<0.2		2.2	
C3	Rainy	Moderate	17:42	11.6	Surface	1.0	0.4	79	16.9	16.9	8.1	8.1	30.5	30.5	97.8	97.7	7.9	7.9	1.5	1.5	5	5	72	74	822095	817821	<0.2	<0.2	1.4	1.4
						1.0	0.5	82	16.9		8.1		30.5		97.6		7.9		1.7		6		72				<0.2		1.5	
					Middle	5.8	0.3	81	16.8	16.8	8.0	8.0	30.9	30.9	96.6	96.7	7.8		1.1		4		73				<0.2		1.4	
						5.8	0.3	86	16.8		8.0		30.9		96.7		7.8		1.1		4		74				<0.2		1.4	
					Bottom	10.6	0.2	101	16.8	16.8	8.0	8.0	31.0	31.0	97.4	97.6	7.8	7.9	1.8		6		76				<0.2		1.1	
						10.6	0.2	109	16.8		8.0		31.0		97.7		7.9		1.8		4		77				<0.2		1.4	
IM1	Rainy	Moderate	16:31	7.3	Surface	1.0	0.0	279	16.2	16.2	8.1	8.1	31.7	31.7	104.5	104.5	8.5	8.5	6.8	6.8	7	7	73	75	818359	806442	<0.2	<0.2	1.0	1.0
						1.0	0.0	288	16.2		8.1		31.7		104.5		8.5		6.8		7		73				<0.2		1.0	
					Middle	3.7	0.1	177	16.3	16.3	8.1	8.1	31.7	31.7	103.5	103.5	8.4		6.7		7		74				<0.2		1.0	
						3.7	0.1	178	16.3		8.1		31.7		103.5		8.4		6.7		6		74				<0.2		1.0	
					Bottom	6.3	0.1	103	16.2	16.2	8.1	8.1	31.7	31.7	102.1	102.1	8.3	8.3	6.8		7		76				<0.2		0.9	
						6.3	0.1	112	16.2		8.1		31.7		102.1		8.3		6.8		6		77				<0.2		1.0	
IM2	Rainy	Moderate	16:26	8.6	Surface	1.0	0.1	203	16.3	16.3	8.1	8.1	31.7	31.7	104.6	104.6	8.5	8.5	6.5	7.0	8	8	73	75	818824	806171	<0.2	<0.2	1.1	1.0
						1.0	0.1	208	16.3		8.1		31.7		104.6		8.5		6.6		6		73				<0.2		0.9	
					Middle	4.3	0.1	269	16.3	16.3	8.1	8.1	31.7	31.7	104.1	104.1	8.4		7.1		9		74				<0.2		0.9	
						4.3	0.1	279	16.3		8.1		31.7		104.1		8.4		7.1		8		75				<0.2		0.9	
					Bottom	7.6	0.1	74	16.3	16.3	8.1	8.1	31.7	31.7	103.3	103.3	8.4	8.4	7.4		7		76				<0.2		1.3	
						7.6	0.1	74	16.3		8.1		31.7		103.3		8.4		7.4		7		77				<0.2		1.1	
IM3	Rainy	Moderate	16:19	8.7	Surface	1.0	0.1	160	16.3	16.3	8.1	8.1	31.7	31.7	104.3	104.3	8.5	8.5	6.5	6.5	7	7	73	74	819396	806038	<0.2	<0.2	0.9	0.9
						1.0	0.1	170	16.3		8.1		31.7		104.3		8.5		6.5		7		73				<0.2		0.9	
					Middle	4.4	0.0	150	16.3	16.3	8.1	8.1	31.7	31.7	103.6	103.6	8.4		6.5		7		74				<0.2		1.0	
						4.4	0.0	155	16.3		8.1		31.7		103.6		8.4		6.5		6		74				<0.2		1.0	
					Bottom	7.7	0.2	170	16.3	16.3	8.1	8.1	31.7	31.7	102.6	102.6	8.3	8.3	6.5		8		76				<0.2		0.8	
						7.7	0.2	172	16.3		8.1		31.7		102.6		8.3		6.5		8		76				<0.2		0.8	
IM4	Cloudy	Moderate	16:13	8.9	Surface	1.0	0.1	38	16.3	16.3	8.1	8.1	31.7	31.7	104.7	104.7	8.5	8.5	6.9	7.3	7	7	73	75	819591	805023	<0.2	<0.2	1.0	0.9
						1.0	0.1	39	16.3		8.1		31.7		104.7		8.5		6.9		6		73				<0.2		0.9	
					Middle	4.5	0.0	179	16.3	16.3	8.1	8.1	31.7	31.7	104.1	104.1	8.4		7.8		7		75				<0.2		0.9	
						4.5	0.0	188	16.3		8.1		31.7		104.1		8.4		7.8		7		75				<0.2		0.9	
					Bottom	7.9	0.0	209	16.3	16.3	8.1	8.1	31.7	31.7	103.0	103.0	8.3	8.3	7.2		8		75				<0.2		0.8	
						7.9	0.0	217	16.3		8.1		31.7		103.0		8.3		7.2		7		76				<0.2		0.8	
IM5	Cloudy	Moderate	16:04	7.0	Surface	1.0	0.0	127	16.3	16.3	8.1	8.1	31.6	31.6	104.3	104.3	8.5	8.5	8.3	10.1	8	8	73	75	820611	804869	<0.2	<0.2	1.0	0.9
						1.0	0.0	129	16.3		8.1		31.6		104.3		8.5		8.3		8		73				<0.2		0.9	
					Middle	3.5	0.1	218	16.3	16.3	8.1	8.1	31.6	31.6	103.9	103.9	8.4		10.5		7		74				<0.2		0.9	
						3.5	0.1	233	16.3		8.1		31.6		103.9		8.4		10.5		8		76				<0.2		1.0	
					Bottom	6.0	0.1	182	16.3	16.3	8.1	8.1	31.6	31.6	103.2	103.2	8.4	8.4	11.5		7		78				<0.2		0.9	
						6.0	0.1	189	16.3		8.1		31.6		103.2		8.4		11.5		8		76				<0.2		0.9	
IM6	Cloudy	Moderate	15:54	7.3	Surface	1.0	0.1	111	16.3	16.3	8.1	8.1	31.5	31.5	104.9	104.9	8.5	8.5	7.6	8.1	8	8	73	74	821032	805813	<0.2	<0.2	1.1	1.0
						1.0	0.1	112	16.3		8.1		31.5		104.9		8.5		7.6		8		72				<0.2		1.0	
					Middle	3.7	0.1	82	16.3	16.3	8.1	8.1	31.5	31.5	104.1	104.1	8.4		8.0		8		74				<0.2		1.0	
						3.7	0.1	83	16.3		8.1		31.5		104.1		8.4		8.0		8		74				<0.2		1.0	
					Bottom	6.3	0.1	38	16.3	16.3	8.1	8.1	31.5	31.5	102.5	102.5	8.3	8.3	8.8		8		75				<0.2		0.9	
						6.3	0.1	38	16.3		8.1		31.5		102.5		8.3		8.8		10		75				<0.2		0.8	
IM7	Cloudy	Moderate	15:47	8.8	Surface	1.0	0.2	155	16.4	16.4	8.1	8.1	30.9	30.9	106.0	106.0	8.6	8.6	8.9	8.2	8	8	73	74	821336	806844	<0.2	<0.2	1.2	1.2
						1.0	0.2	162	16.4		8.1		30.9		106.0		8.6		8.9		7		72				<0.2		1.4	
					Middle	4.4	0.1	96	16.4	16.4	8.1	8.1	31.0	31.0	105.6	105.6	8.6		8.1		7		73				<0.2		1.2	
						4.4	0.1	97	16.4		8.1		31.0		105.6		8.6		8.1		9		74				<0.2		1.2	
					Bottom	7.8	0.2	72	16.4	16.4	8.1	8.1	31.0	31.0	105.1	105.1	8.5	8.5	7.7		10		75				<0.2		1.1	
						7.8	0.2	77	16.4		8.1		31.0		105.1		8.5		7.7		11		74				<0.2		1.1	
IM8	Cloudy	Moderate	16:16	8.4	Surface	1.0	0.3	123	16.9	16.9	8.1	8.1	29.7	29.7	103.5	103.6	8.4	8.4	4.2	4.7	6	6	71	73	821671	807819	<0.2	<0.2	1.5	1.5
						1.0	0.3	123	16.9		8.1		29.7		103.6		8.4		4.0		6		72				<0.2		1.5	
					Middle	4.2	0.2	78	16.7	16.7	8.1	8.1	30.8	30.8	103.4	103.4	8.4		4.7		6		73				<0.2		2.0	
						4.2	0.2	78	16.7		8.1		30.8		103.4		8.4		4.7		6		73				<0.2		1.9	
					Bottom	7.4	0.2	58	16.7	16.7	8.1	8.1	30.9	30.9	102.9	102.9	8.3	8.3	5.2		6		75				<0.2		1.1	
						7.4	0.2	60	16.7		8.1		30.9		102.9		8.3		5.2		8		75				<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**

Note: Access to IM5 was blocked by floating object. The monitoring at IM5 was slightly shifted to the closest safe and accessible location temporarily.

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

Water Quality Monitoring

Water Quality Monitoring Results on 22 February 18 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	16:25	7.5	Surface	1.0	0.3	95	16.9	16.9	8.1	8.1	29.9	29.9	103.9	103.9	8.4	8.4	3.9	4.9	5	6	73	74	822111	808791	<0.2	<0.2	1.6	1.3
						1.0	0.3	96	16.9		8.1		29.9		103.9		8.4		4.1		5		73				<0.2		1.5	
					Middle	3.8	0.4	91	16.8	16.8	8.1	8.1	30.5	30.5	103.6	103.6	8.4		4.9		5		74				<0.2		1.3	
						3.8	0.4	99	16.8		8.1		30.5		103.5		8.4		4.8		7		74				<0.2		1.4	
					Bottom	6.5	0.3	66	16.7	16.7	8.1	8.1	30.8	30.8	102.8	102.8	8.3	8.3	5.7		6		75				<0.2		1.1	
						6.5	0.4	69	16.7		8.1		30.8		102.7		8.3		6.1		7		75				<0.2		1.1	
IM10	Cloudy	Moderate	16:34	8.4	Surface	1.0	0.3	90	17.1	17.1	8.1	8.1	30.0	30.0	103.0	103.1	8.3	8.3	3.2	5.4	4	6	73	74	822228	809827	<0.2	<0.2	1.5	1.4
						1.0	0.3	93	17.1		8.1		30.0		103.1		8.3		3.5		6		73				<0.2		1.6	
					Middle	4.2	0.3	93	16.9	16.9	8.1	8.1	30.3	30.3	102.8	102.9	8.3		4.6		5		74				<0.2		1.5	
						4.2	0.4	94	16.9		8.1		30.3		102.9		8.3		4.8		6		74				<0.2		1.5	
					Bottom	7.4	0.3	87	16.7	16.7	8.1	8.1	30.9	30.9	102.2	102.2	8.2	8.2	8.0		7		75				<0.2		1.1	
						7.4	0.3	88	16.7		8.1		30.9		102.2		8.2		8.0		9		75				<0.2		1.1	
IM11	Cloudy	Moderate	16:46	8.0	Surface	1.0	0.3	101	17.0	17.0	8.1	8.1	29.6	29.6	102.4	102.4	8.3	8.3	3.1	4.7	4	12	72	74	821512	810571	<0.2	<0.2	1.5	1.5
						1.0	0.3	106	17.0		8.1		29.6		102.3		8.3		3.3		5		72				<0.2		1.6	
					Middle	4.0	0.3	97	17.1	17.1	8.1	8.1	30.1	30.1	102.3	102.4	8.2		5.3		16		73				<0.2		1.5	
						4.0	0.3	105	17.1		8.1		30.1		102.5		8.3		5.4		15		74				<0.2		1.5	
					Bottom	7.0	0.3	74	16.8	16.8	8.1	8.1	30.5	30.5	102.2	102.3	8.3	8.3	5.6		17		75				<0.2		1.3	
						7.0	0.3	74	16.8		8.1		30.5		102.3		8.3		5.6		16		76				<0.2		1.4	
IM12	Cloudy	Moderate	16:55	9.1	Surface	1.0	0.5	110	17.0	17.0	8.1	8.1	29.6	29.6	102.2	102.2	8.3	8.3	4.1	5.9	9	11	72	73	821156	811520	<0.2	<0.2	1.4	1.5
						1.0	0.5	119	17.0		8.1		29.6		102.2		8.3		4.0		8		72				<0.2		1.5	
					Middle	4.6	0.4	98	17.1	17.1	8.1	8.1	29.8	29.8	101.6	101.6	8.2		6.3		9		73				<0.2		1.5	
						4.6	0.4	98	17.1		8.1		29.8		101.5		8.2		6.4		10		73				<0.2		1.6	
					Bottom	8.1	0.3	105	17.1	17.1	8.1	8.1	30.1	30.1	101.3	101.3	8.2	8.2	7.3		14		75				<0.2		1.3	
						8.1	0.3	108	17.1		8.1		30.1		101.2		8.2		7.3		15		75				<0.2		1.4	
SR2	Rainy	Moderate	17:21	4.2	Surface	1.0	0.3	96	17.1	17.1	8.1	8.1	30.2	30.2	99.7	99.7	8.0	8.0	5.1	5.1	7	8	73	74	821468	814174	<0.2	<0.2	1.6	1.5
						1.0	0.3	103	17.1		8.1		30.2		99.7		8.0		5.4		7		74				<0.2		1.6	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.2	0.3	96	17.1	17.1	8.1	8.1	30.1	30.1	100.3	100.4	8.1	8.1	4.9		9		75				<0.2		1.4	
						3.2	0.3	101	17.1		8.1		30.1		100.5		8.1		4.9		7		75				<0.2		1.4	
SR3	Cloudy	Moderate	16:11	9.0	Surface	1.0	0.2	146	17.0	17.0	8.1	8.1	29.4	29.4	103.3	103.3	8.4	8.4	4.3	5.0	5	8	-	-	822127	807552	-	-	-	-
						1.0	0.2	150	17.0		8.1		29.4		103.3		8.4		4.3		6		-				-		-	
					Middle	4.5	0.2	78	16.8	16.8	8.1	8.1	30.4	30.3	103.5	103.6	8.4		4.8		6		-				-		-	
						4.5	0.3	85	16.8		8.1		30.3		103.7		8.4		4.4		7		-				-		-	
					Bottom	8.0	0.2	47	16.7	16.7	8.1	8.1	30.8	30.8	102.6	102.7	8.3	8.3	6.1		12		-				-		-	
						8.0	0.3	49	16.7		8.1		30.8		102.7		8.3		6.2		11		-				-		-	
SR4A	Rainy	Moderate	17:11	8.4	Surface	1.0	0.2	70	16.3	16.3	8.1	8.1	31.7	31.7	103.8	103.8	8.4	8.4	8.2	7.6	11	10	-	-	817166	807811	-	-	-	-
						1.0	0.2	75	16.3		8.1		31.7		103.8		8.4		8.2		11		-				-		-	
					Middle	4.2	0.2	70	16.3	16.3	8.1	8.1	31.7	31.7	103.4	103.4	8.4		7.6		10		-				-		-	
						4.2	0.2	73	16.3		8.1		31.7		103.4		8.4		7.6		11		-				-		-	
					Bottom	7.4	0.1	70	16.3	16.3	8.1	8.1	31.7	31.7	102.7	102.7	8.3	8.3	7.0		9		-				-		-	
						7.4	0.1	74	16.3		8.1		31.7		102.6		8.3		7.0		9		-				-		-	
SR5A	Rainy	Calm	17:27	4.2	Surface	1.0	0.1	151	16.9	16.9	8.1	8.1	31.2	31.2	102.6	102.6	8.2	8.2	6.8	7.1	7	7	-	-	816596	810698	-	-	-	-
						1.0	0.1	160	16.9		8.1		31.2		102.6		8.2		6.8		6		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.2	0.1	122	16.8	16.8	8.1	8.1	31.2	31.2	102.4	102.4	8.2	8.2	7.4		8		-				-		-	
						3.2	0.1	127	16.8		8.1		31.2		102.4		8.2		7.4		8		-				-		-	
SR6	Rainy	Calm	17:48	4.3	Surface	1.0	0.1	36	17.0	17.0	8.1	8.1	30.5	30.5	100.7	100.7	8.1	8.1	7.9	8.1	6	7	-	-	817904	814656	-	-	-	-
						1.0	0.1	37	17.0		8.1		30.5		100.7		8.1		7.9		7		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.3	0.1	43	16.9	16.9	8.1	8.1	30.5	30.5	101.2	101.2	8.2	8.2	8.3		7		-				-		-	
						3.3	0.1	43	16.9		8.1		30.5		101.2		8.2		8.3		8		-				-		-	
SR7	Rainy	Moderate	18:12	18.1	Surface	1.0	0.4	109	16.7	16.7	8.0	8.0	31.0	31.0	95.9	96.0	7.7	7.7	1.3	2.9	4	4	-	-	823660	823739	-	-	-	-
						1.0	0.4	116	16.7		8.0		31.0		96.0		7.7		1.3		2		-				-		-	
					Middle	9.1	0.3	100	16.7	16.7	8.0	8.0	31.1	31.1	95.4	95.4	7.7		2.1		4		-				-		-	
						9.1	0.3	106	16.7		8.0		31.1		95.4		7.7		2.4		4		-				-		-	
					Bottom	17.1	0.2	93	16.7	16.7	8.0	8.0	31.0	31.0	95.8	95.8	7.7	7.7	5.0		5		-				-		-	
						17.1	0.2	97	16.7		8.0		31.0		95.7		7.7		5.3		5		-				-		-	
SR8	Rainy	Moderate	17:04	3.5	Surface	1.0	-	-	17.2	17.2	8.1	8.1	29.7	29.7	101.3	101.3	8.2	8.2	4.4	4.7	12	14	-	-	820246	811418	-	-	-	-
						1.0	-	-	17.2		8.1		29.7		101.2		8.2		4.7		12		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.5	-	-	17.2	17.2	8.1	8.1	29.8	29.8	101.3	101.4	8.2	8.2	4.9		14		-				-		-	
						2.5	-	-	17.2		8.1		29.8		101.4		8.2		4.6		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 22 February 18 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	10:14	8.4	Surface	1.0	0.3	33	16.5	16.5	8.1	8.1	31.1	31.1	105.7	105.7	8.6	8.6	5.5	7.4	8	8	72	73	815639	804271	<0.2	<0.2	1.1	1.0
						1.0	0.3	33	16.5		8.1		31.1		105.7		8.6		5.5		8		72				<0.2		1.1	
					Middle	4.2	0.4	39	16.4	16.4	8.1	8.1	31.5	31.5	105.0	105.0	8.5		6.0		6		73				<0.2		0.8	
						4.2	0.4	39	16.4		8.1		31.5		105.0		8.5		6.0		6		73				<0.2		1.1	
					Bottom	7.4	0.5	35	16.3	16.3	8.1	8.1	31.8	31.8	103.2	103.2	8.3	8.3	10.7		9		75				<0.2		0.9	
						7.4	0.5	37	16.3		8.1		31.8		103.2		8.3		10.7		8		75				<0.2		0.8	
C2	Cloudy	Moderate	11:36	11.5	Surface	1.0	0.3	338	17.3	17.3	8.0	8.0	28.3	28.3	100.5	100.6	8.2	8.2	5.3	7.9	6	7	72	74	825702	806920	<0.2	<0.2	2.5	2.4
						1.0	0.3	344	17.3		8.0		28.3		100.6		8.2		5.7		6		72				<0.2		2.6	
					Middle	5.8	0.4	348	17.3	17.3	8.0	8.0	28.7	28.7	99.9	99.9	8.1		5.5		7		73				<0.2		2.5	
						5.8	0.4	354	17.3		8.0		28.7		99.9		8.1		5.5		6		74				<0.2		2.5	
					Bottom	10.5	0.4	350	17.2	17.2	8.0	8.0	29.5	29.5	99.6	99.6	8.0	8.0	12.8		8		77				<0.2		2.2	
						10.5	0.4	355	17.2		8.0		29.5		99.6		8.0		12.4		8		77				<0.2		2.0	
C3	Rainy	Moderate	09:36	11.3	Surface	1.0	0.4	265	17.1	17.1	8.1	8.1	30.1	30.1	100.1	100.1	8.1	8.1	2.0	1.9	8	8	72	73	822082	817797	<0.2	<0.2	1.7	1.5
						1.0	0.4	274	17.1		8.1		30.1		100.1		8.1		1.9		7		72				<0.2		1.7	
					Middle	5.7	0.5	267	17.1	17.1	8.0	8.0	30.4	30.4	99.1	99.1	8.0		2.5		6		73				<0.2		1.6	
						5.7	0.5	292	17.1		8.0		30.4		99.1		8.0		2.6		8		73				<0.2		1.5	
					Bottom	10.3	0.4	266	17.0	17.0	8.0	8.0	30.6	30.6	99.0	99.0	8.0	8.0	1.2		8		75				<0.2		1.4	
						10.3	0.4	292	17.0		8.0		30.6		99.0		8.0		1.2		9		75				<0.2		1.2	
IM1	Cloudy	Moderate	10:32	7.4	Surface	1.0	0.4	9	16.6	16.6	8.2	8.2	31.3	31.3	105.4	105.4	8.5	8.5	7.4	11.1	6	8	73	75	818357	806453	<0.2	<0.2	1.1	1.1
						1.0	0.4	9	16.6		8.2		31.3		105.4		8.5		7.4		6		73				<0.2		1.1	
					Middle	3.7	0.4	13	16.5	16.5	8.1	8.1	31.6	31.6	104.2	104.2	8.4		12.0		8		75				<0.2		1.1	
						3.7	0.5	13	16.5		8.1		31.6		104.2		8.4		12.0		7		75				<0.2		1.2	
					Bottom	6.4	0.4	3	16.5	16.5	8.1	8.1	31.6	31.6	102.8	102.8	8.3	8.3	13.9		10		76				<0.2		1.0	
						6.4	0.4	3	16.5		8.1		31.6		102.8		8.3		13.9		10		77				<0.2		1.0	
IM2	Cloudy	Moderate	10:39	8.4	Surface	1.0	0.4	8	16.7	16.7	8.2	8.2	30.6	30.6	105.3	105.3	8.5	8.5	6.1	10.4	7	10	73	74	818845	806176	<0.2	<0.2	1.3	1.2
						1.0	0.4	8	16.7		8.2		30.6		105.3		8.5		6.1		7		73				<0.2		1.2	
					Middle	4.2	0.4	15	16.5	16.5	8.2	8.2	31.3	31.3	104.9	104.9	8.5		11.0		8		74				<0.2		1.1	
						4.2	0.4	16	16.5		8.2		31.3		104.9		8.5		11.0		9		75				<0.2		1.2	
					Bottom	7.4	0.3	10	16.5	16.5	8.1	8.1	31.4	31.4	104.1	104.1	8.4	8.4	14.1		13		76				<0.2		1.1	
						7.4	0.3	10	16.5		8.1		31.4		104.1		8.4		14.1		13		75				<0.2		1.1	
IM3	Cloudy	Moderate	10:46	8.3	Surface	1.0	0.3	13	16.7	16.7	8.2	8.2	30.4	30.4	105.0	105.0	8.5	8.5	7.0	10.2	7	7	72	74	819387	806002	<0.2	<0.2	1.7	1.5
						1.0	0.3	13	16.7		8.2		30.4		105.0		8.5		7.0		6		73				<0.2		1.6	
					Middle	4.2	0.3	20	16.6	16.6	8.2	8.2	31.1	31.1	104.5	104.5	8.4		8.7		5		74				<0.2		1.5	
						4.2	0.3	21	16.6		8.2		31.1		104.5		8.4		8.7		6		73				<0.2		1.7	
					Bottom	7.3	0.3	12	16.5	16.5	8.1	8.1	31.3	31.3	103.5	103.5	8.4	8.4	14.8		8		75				<0.2		1.2	
						7.3	0.4	12	16.5		8.1		31.3		103.5		8.4		14.8		9		76				<0.2		1.4	
IM4	Cloudy	Moderate	10:54	7.7	Surface	1.0	0.3	352	16.7	16.7	8.2	8.2	30.2	30.2	104.9	104.9	8.5	8.5	6.6	15.6	6	8	73	75	819570	805039	<0.2	<0.2	1.5	1.5
						1.0	0.3	324	16.7		8.2		30.2		104.9		8.5		6.6		8		73				<0.2		1.4	
					Middle	3.9	0.4	7	16.6	16.6	8.1	8.1	30.9	30.9	104.4	104.4	8.5		10.1		8		75				<0.2		1.5	
						3.9	0.5	7	16.6		8.1		30.9		104.4		8.5		10.1		9		75				<0.2		1.5	
					Bottom	6.7	0.4	12	16.5	16.5	8.1	8.1	31.4	31.4	103.6	103.6	8.4	8.4	30.2		9		75				<0.2		1.4	
						6.7	0.4	12	16.5		8.1		31.4		103.6		8.4		30.2		10		76				<0.2		1.4	
IM5	Cloudy	Moderate	11:04	6.9	Surface	1.0	0.4	14	16.7	16.7	8.1	8.1	30.2	30.2	104.2	104.2	8.4	8.4	7.0	10.3	6	7	72	74	820587	804877	<0.2	<0.2	1.5	1.5
						1.0	0.4	14	16.7		8.1		30.2		104.2		8.4		7.0		8		73				<0.2		1.6	
					Middle	3.5	0.4	14	16.7	16.7	8.1	8.1	30.3	30.3	104.1	104.1	8.4		7.8		7		73				<0.2		1.5	
						3.5	0.4	14	16.7		8.1		30.3		104.1		8.4		7.8		6		74				<0.2		1.5	
					Bottom	5.9	0.4	4	16.5	16.5	8.1	8.1	31.1	31.1	103.0	103.0	8.3	8.3	16.1		7		76				<0.2		1.3	
						5.9	0.4	4	16.5		8.1		31.1		103.0		8.3		16.1		8		76				<0.2		1.4	
IM6	Cloudy	Moderate	11:14	7.0	Surface	1.0	0.2	45	16.8	16.8	8.2	8.2	30.0	30.0	103.9	103.9	8.4	8.4	8.5	9.2	6	7	73	74	821077	805809	<0.2	<0.2	1.7	1.7
						1.0	0.2	48	16.8		8.2		30.0		103.9		8.4		8.5		6		73				<0.2		1.7	
					Middle	3.5	0.2	22	16.8	16.8	8.2	8.2	30.2	30.2	103.7	103.7	8.4		9.0		8		73				<0.2		1.6	
						3.5	0.3	23	16.8		8.2		30.2		103.7		8.4		9.0		7		73				<0.2		1.7	
					Bottom	6.0	0.2	345	16.6	16.6	8.2	8.2	30.9	30.9	103.0	103.0	8.3	8.3	10.0		7		74				<0.2		1.6	
						6.0	0.3	353	16.6		8.2		30.9		103.0		8.3		10.0		7		75				<0.2		1.6	
IM7	Cloudy	Moderate	11:22	8.4	Surface	1.0	0.2	58	17.0	17.0	8.1	8.1	29.5	29.5	104.0	104.0	8.4	8.4	5.4	6.1	5	5	72	74	821324	806815	<0.2	<0.2	1.6	1.9
						1.0	0.2	58	17.0		8.1		29.5		104.0		8.4		5.4		4		73				<0.2		1.6	
					Middle	4.2	0.3	13	16.8	16.8	8.2	8.2	30.1	30.1	103.7	103.7	8.4		6.0		5		74				<0.2		2.0	
						4.2	0.3	13	16.8		8.2		30.1		103.7		8.4		6.0		5		73				<0.2		1.9	
					Bottom	7.4	0.3	10	16.7	16.7	8.2	8.2	30.7	30.7	103.1	103.1	8.3	8.3	7.0		6		76				<0.2		2.0	
						7.4	0.3	10	16.7		8.2		30.7		103.1		8.3		7.0		7		75				<0.2		2.0	
IM8	Cloudy	Moderate	11:06	8.1	Surface	1.0	0.2	24	17.1	17.1	8.2	8.2	29.3	29.3	101.6	101.6	8.2	8.2	5.3	6.8	6	5	73	74	821710	807867	<0.2	<0.2	1.7	1.8
						1.0	0.2	26	17.1		8.2		29.3		101.6		8.2		4.9		5		73				<0.2		1.7	
					Middle	4.1	0.3	5	17.1	17.1	8.2	8.2	29.3	29.3	101.3	101.3	8.2		4.4		6		73				<0.2		1.9	
						4.1	0.3	5	17.1		8.2		29.3		101.2		8.2		4.4		4		74				<0.2		1.8	
					Bottom	7.1	0.2	19	17.1	17.1	8.2	8.2	29.3	29.3	99.5	99.5	8.0	8.0	11.0		4		75				<0.2		1.8	
						7.1	0.2	19	17.1		8.2		29.3		99.5		8.0		11.0		6		75				<0.2		1.8	

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**

Note: Access to IM5 was blocked by floating object. The monitoring at IM5 was slightly shifted to the closest safe and accessible location temporarily.

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 22 February 18 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
IM9	Cloudy	Moderate	10:56	7.1	Surface	1.0	0.2	316	17.2	17.2	8.1	8.1	29.4	29.4	101.9	101.9	8.2	8.2	3.6	3.5	4	4	72	74	822085	808805	<0.2	<0.2	1.8	1.7
						1.0	0.2	338	17.2		8.1		29.4		101.9		8.2		3.5		3		72				<0.2		1.6	
					Middle	3.6	0.2	327	17.2	17.2	8.1	8.1	29.4	29.4	101.7	101.7	8.2		3.8		3		73				<0.2		1.7	
						3.6	0.2	338	17.2		8.1		29.4		101.7		8.2		3.9		4		74				<0.2		1.7	
					Bottom	6.1	0.2	333	17.2	17.2	8.1	8.1	29.4	29.4	101.3	101.4	8.2	8.2	3.2		5		75				<0.2		1.6	
						6.1	0.2	355	17.2		8.1		29.4		101.4		8.2		3.2		5		75				<0.2		1.8	
IM10	Cloudy	Moderate	10:48	6.6	Surface	1.0	0.6	307	17.1	17.1	8.1	8.1	29.5	29.5	102.3	102.3	8.3	8.3	2.7	4.2	3	4	73	74	822259	809850	<0.2	<0.2	1.6	1.6
						1.0	0.6	324	17.1		8.1		29.5		102.2		8.3		2.7		3		74				<0.2		1.7	
					Middle	3.3	0.6	309	17.1	17.1	8.1	8.1	29.5	29.5	101.7	101.8	8.2		4.4		5		74				<0.2		1.7	
						3.3	0.6	317	17.1		8.1		29.5		101.8		8.2		4.5		3		74				<0.2		1.5	
					Bottom	5.6	0.5	318	17.1	17.1	8.1	8.1	29.8	29.8	101.0	101.0	8.1	8.1	5.3		4		75				<0.2		1.7	
						5.6	0.5	335	17.1		8.1		29.8		101.0		8.1		5.3		4		76				<0.2		1.5	
IM11	Cloudy	Moderate	10:33	7.9	Surface	1.0	0.5	296	17.1	17.1	8.1	8.1	29.3	29.4	102.0	102.0	8.2	8.2	5.1	6.7	2	5	73	75	821472	810555	<0.2	<0.2	1.8	1.6
						1.0	0.6	304	17.1		8.1		29.4		101.9		8.2		5.7		3		73				<0.2		1.8	
					Middle	4.0	0.5	293	17.1	17.1	8.1	8.1	30.0	30.0	101.5	101.5	8.2		7.9		5		75				<0.2		1.4	
						4.0	0.5	305	17.1		8.1		30.0		101.5		8.2		8.0		4		75				<0.2		1.6	
					Bottom	6.9	0.4	299	17.1	17.1	8.1	8.1	30.0	30.0	100.9	100.9	8.1	8.1	6.8		8		76				<0.2		1.6	
						6.9	0.4	306	17.1		8.1		30.0		100.9		8.1		6.8		9		76				<0.2		1.4	
IM12	Cloudy	Moderate	10:27	7.1	Surface	1.0	0.6	276	17.1	17.1	8.1	8.1	29.3	29.3	101.9	101.9	8.2	8.2	4.2	9.5	3	8	73	75	821190	811548	<0.2	<0.2	1.9	1.7
						1.0	0.6	293	17.1		8.1		29.3		101.9		8.2		4.3		4		73				<0.2		1.9	
					Middle	3.6	0.6	278	17.2	17.2	8.1	8.1	30.0	30.0	101.4	101.4	8.1		7.7		7		75				<0.2		1.8	
						3.6	0.6	303	17.2		8.1		30.0		101.4		8.1		7.7		7		75				<0.2		1.8	
					Bottom	6.1	0.5	280	17.3	17.3	8.1	8.1	30.2	30.2	101.0	101.1	8.1	8.1	16.5		13		77				<0.2		1.4	
						6.1	0.5	304	17.3		8.1		30.2		101.1		8.1		16.5		12		77				<0.2		1.3	
SR2	Rainy	Moderate	09:58	4.6	Surface	1.0	0.1	349	17.1	17.1	8.1	8.1	30.0	30.0	100.1	100.2	8.1	8.1	4.4	4.9	5	6	73	75	821434	814195	<0.2	<0.2	1.4	1.6
						1.0	0.1	350	17.1		8.1		30.0		100.2		8.1		4.5		7		73				<0.2		1.7	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.6	0.1	349	17.1	17.1	8.1	8.1	30.0	30.0	100.0	100.0	8.0	8.0	5.4		7		76				<0.2		1.5	
						3.6	0.1	321	17.1		8.1		30.0		100.0		8.0		5.4		6		76				<0.2		1.6	
SR3	Cloudy	Moderate	11:13	9.2	Surface	1.0	0.1	359	17.3	17.3	8.0	8.0	28.4	28.4	101.9	101.9	8.3	8.3	2.9	3.2	4	4	-	-	822136	807589	-	-	-	-
						1.0	0.1	330	17.3		8.0		28.4		101.9		8.3		2.8		4		-				-		-	
					Middle	4.6	0.2	352	17.3	17.3	8.0	8.0	29.0	29.0	101.4	101.4	8.2		3.0		4		-				-		-	
						4.6	0.2	324	17.3		8.0		29.0		101.4		8.2		3.0		4		-				-		-	
					Bottom	8.2	0.3	1	17.3	17.3	8.0	8.0	29.1	29.1	101.1	101.1	8.2	8.2	3.9		4		-				-		-	
						8.2	0.3	1	17.3		8.0		29.1		101.1		8.2		3.4		4		-				-		-	
SR4A	Cloudy	Calm	09:52	8.8	Surface	1.0	0.3	237	16.9	16.9	8.1	8.1	31.3	31.3	102.8	102.8	8.2	8.2	7.6	8.2	7	7	-	-	817190	807816	-	-	-	-
						1.0	0.3	249	16.9		8.1		31.3		102.8		8.2		7.6		7		-				-		-	
					Middle	4.4	0.2	240	16.9	16.9	8.1	8.1	31.3	31.3	102.3	102.3	8.2		8.3		6		-				-		-	
						4.4	0.2	259	16.9		8.1		31.3		102.3		8.2		8.3		6		-				-		-	
					Bottom	7.8	0.2	244	16.9	16.9	8.1	8.1	31.4	31.4	102.0	102.0	8.2	8.2	8.6		8		-				-		-	
						7.8	0.2	259	16.9		8.1		31.4		102.0		8.2		8.6		9		-				-		-	
SR5A	Cloudy	Calm	09:36	3.3	Surface	1.0	0.2	296	17.1	17.1	8.1	8.1	31.2	31.2	102.2	102.2	8.2	8.2	7.8	7.8	7	7	-	-	816578	810726	-	-	-	-
						1.0	0.2	310	17.1		8.1		31.2		102.2		8.2		7.8		6		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.3	0.2	299	17.1	17.1	8.1	8.1	31.2	31.2	101.8	101.8	8.1	8.1	7.8		6		-				-		-	
						2.3	0.2	323	17.1		8.1		31.2		101.7		8.1		7.9		8		-				-		-	
SR6	Cloudy	Calm	09:11	4.3	Surface	1.0	0.1	268	17.0	17.0	8.0	8.0	30.1	30.1	100.7	100.7	8.1	8.1	6.9	6.9	6	6	-	-	817923	814654	-	-	-	-
						1.0	0.1	291	17.0		8.0		30.1		100.7		8.1		6.9		6		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.3	0.1	268	17.0	17.0	8.0	8.0	30.1	30.1	100.9	100.9	8.1	8.1	6.8		6		-				-		-	
						3.3	0.1	271	17.0		8.0		30.1		100.9		8.1		6.8		6		-				-		-	
SR7	Rainy	Moderate	09:10	21.6	Surface	1.0	0.1	150	17.0	17.0	8.0	8.0	30.4	30.4	99.2	99.2	8.0	7.9	1.3	1.4	2	4	-	-	823627	823737	-	-	-	-
						1.0	0.1	161	17.0		8.0		30.4		99.2		8.0		1.4		4		-				-		-	
					Middle	10.8	0.1	204	17.0	17.0	8.0	8.0	30.6	30.6	97.5	97.5	7.9		1.5		3		-				-		-	
						10.8	0.1	219	17.0		8.0		30.6		97.5		7.8		1.5		4		-				-		-	
					Bottom	20.6	0.1	158	16.9	16.9	8.0	8.0	30.8	30.8	96.6	96.6	7.8	7.8	1.3		4		-				-		-	
						20.6	0.1	159	16.9		8.0		30.8		96.6		7.8		1.3		4		-				-		-	
SR8	Cloudy	Calm	10:15	4.1	Surface	1.0	-	-	17.3	17.3	8.1	8.1	29.3	29.3	101.2	101.2	8.2	8.2	3.9	5.3	5	5	-	-	820246	811418	-	-	-	-
						1.0	-	-	17.3		8.1		29.3		101.2		8.2		3.9		6		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.1	-	-	17.2	17.2	8.1	8.1	29.4	29.4	100.8	100.8	8.1	8.1	6.6		4		-				-		-	
						3.1	-	-	17.2		8.1		29.4		100.8		8.1		6.6		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 24 February 18 during Mid-Ebb Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
C1	Cloudy	Moderate	07:17	8.2	Surface	1.0	0.2	226	16.4	16.4	8.1	8.1	32.5	32.5	102.4	102.4	8.2	8.2	5.0	5.2	4	5	73	75	815603	804233	<0.2	<0.2	0.6	0.6
						1.0	0.2	241	16.4		8.1		32.5		102.3		8.2		4.9		4		73				<0.2		0.6	
					Middle	4.1	0.2	224	16.4	16.4	8.1	8.1	32.5	32.5	101.6	101.6	8.2		5.4		6		75				<0.2		0.5	
						4.1	0.2	233	16.4		8.1		32.5		101.6		8.2		5.5		4		75				<0.2		0.6	
					Bottom	7.2	0.2	221	16.4	16.4	8.1	8.1	32.6	32.6	100.5	100.5	8.1	8.1	5.3		5		76				<0.2		0.7	
						7.2	0.2	240	16.4		8.1		32.6		100.5		8.1		5.3		5		76				<0.2		0.6	
C2	Cloudy	Moderate	07:50	11.3	Surface	1.0	0.4	164	16.9	16.9	8.0	8.0	29.9	29.9	96.1	96.1	7.8	7.7	3.2	2.3	4	6	72	74	825668	806967	<0.2	<0.2	1.6	1.3
						1.0	0.5	164	16.9		8.0		29.9		96.1		7.8		3.2		4		72				<0.2		1.5	
					Middle	5.7	0.2	168	16.8	16.8	8.0	8.0	30.6	30.6	94.6	94.6	7.6		1.3		6		73				<0.2		1.2	
						5.7	0.2	174	16.8		8.0		30.6		94.6		7.6		1.3		4		73				<0.2		1.2	
					Bottom	10.3	0.2	158	16.8	16.8	8.0	8.0	30.8	30.8	94.3	94.3	7.6	7.6	2.5		8		75				<0.2		1.1	
						10.3	0.2	158	16.8		8.0		30.8		94.3		7.6		2.5		7		76				<0.2		1.3	
C3	Cloudy	Moderate	05:57	12.4	Surface	1.0	0.2	79	16.7	16.7	8.0	8.0	31.0	31.0	93.2	93.2	7.5	7.5	1.5	1.9	2	5	74	75	822121	817797	<0.2	<0.2	1.0	1.0
						1.0	0.3	84	16.7		8.0		31.0		93.2		7.5		1.5		3		73				<0.2		1.0	
					Middle	6.2	0.2	73	16.7	16.7	8.0	8.0	31.3	31.3	92.3	92.3	7.4		2.6		6		75				<0.2		1.0	
						6.2	0.2	77	16.7		8.0		31.3		92.3		7.4		2.6		4		75				<0.2		0.9	
					Bottom	11.4	0.2	84	16.6	16.6	8.0	8.0	31.5	31.5	92.4	92.4	7.4	7.4	1.5		7		76				<0.2		0.8	
						11.4	0.2	90	16.6		8.0		31.5		92.4		7.4		1.5		7		77				<0.2		1.0	
IM1	Cloudy	Moderate	07:39	7.0	Surface	1.0	0.2	189	16.3	16.3	8.1	8.1	32.0	32.0	102.1	102.1	8.3	8.3	5.7	5.5	5	6	73	75	818338	806440	<0.2	<0.2	0.7	0.7
						1.0	0.2	200	16.3		8.1		32.0		102.1		8.3		5.7		5		73				<0.2		0.6	
					Middle	3.5	0.2	176	16.3	16.3	8.1	8.1	32.1	32.1	101.5	101.5	8.2		4.9		5		75				<0.2		0.6	
						3.5	0.2	186	16.3		8.1		32.1		101.5		8.2		4.9		6		75				<0.2		0.6	
					Bottom	6.0	0.1	159	16.3	16.3	8.1	8.1	32.4	32.4	100.2	100.2	8.1	8.1	5.8		7		77				<0.2		0.7	
						6.0	0.1	160	16.3		8.1		32.4		100.2		8.1		5.8		7		77				<0.2		0.7	
IM2	Cloudy	Moderate	07:45	7.7	Surface	1.0	0.2	198	16.2	16.2	8.2	8.2	31.7	31.7	102.0	102.0	8.3	8.3	5.6	5.7	7	8	73	75	818854	806214	<0.2	<0.2	0.8	0.8
						1.0	0.3	203	16.2		8.2		31.7		102.0		8.3		5.6		5		73				<0.2		0.8	
					Middle	3.9	0.2	177	16.2	16.2	8.2	8.2	32.0	32.0	101.4	101.4	8.2		6.6		6		75				<0.2		0.8	
						3.9	0.2	178	16.2		8.2		32.0		101.4		8.2		6.7		7		75				<0.2		0.8	
					Bottom	6.7	0.2	178	16.3	16.2	8.1	8.1	32.0	32.0	99.9	99.9	8.1	8.1	4.9		11		77				<0.2		0.7	
						6.7	0.2	188	16.2		8.1		32.0		99.9		8.1		4.9		12		77				<0.2		0.6	
IM3	Cloudy	Moderate	07:51	7.6	Surface	1.0	0.2	195	16.2	16.2	8.2	8.2	31.4	31.4	102.3	102.3	8.3	8.3	4.9	5.0	7	6	73	75	819409	806036	<0.2	<0.2	0.9	0.8
						1.0	0.2	210	16.2		8.2		31.4		102.3		8.3		4.9		5		75				<0.2		1.0	
					Middle	3.8	0.2	219	16.2	16.2	8.2	8.2	31.7	31.7	101.7	101.7	8.2		5.0		6		75				<0.2		0.8	
						3.8	0.2	226	16.2		8.2		31.7		101.7		8.2		5.0		6		75				<0.2		0.8	
					Bottom	6.6	0.2	191	16.2	16.2	8.2	8.2	32.0	32.0	100.5	100.5	8.1	8.1	4.9		6		77				<0.2		0.8	
						6.6	0.2	201	16.2		8.2		32.0		100.5		8.1		5.0		6		77				<0.2		0.7	
IM4	Cloudy	Moderate	07:58	7.1	Surface	1.0	0.3	195	16.2	16.2	8.2	8.2	31.4	31.4	102.4	102.4	8.3	8.3	4.8	5.1	4	5	73	75	819559	805027	<0.2	<0.2	0.8	0.8
						1.0	0.3	197	16.2		8.2		31.4		102.4		8.3		4.8		6		73				<0.2		0.9	
					Middle	3.6	0.2	201	16.2	16.2	8.2	8.2	31.5	31.5	101.7	101.7	8.3		5.0		5		75				<0.2		0.9	
						3.6	0.3	218	16.2		8.2		31.5		101.7		8.3		5.0		4		75				<0.2		0.8	
					Bottom	6.1	0.2	183	16.2	16.2	8.2	8.2	31.8	31.8	100.8	100.8	8.2	8.2	5.3		6		77				<0.2		0.8	
						6.1	0.2	186	16.2		8.2		31.8		100.7		8.2		5.4		6		77				<0.2		0.8	
IM5	Cloudy	Moderate	08:14	6.6	Surface	1.0	0.3	190	16.5	16.5	8.1	8.1	30.3	30.3	101.0	101.0	8.2	8.2	4.2	4.6	5	6	73	75	820480.15	804736.84	<0.2	<0.2	1.4	1.3
						1.0	0.4	194	16.5		8.1		30.3		101.0		8.2		4.2		6		73				<0.2		1.4	
					Middle	3.3	0.2	180	16.5	16.5	8.1	8.1	30.5	30.5	100.7	100.7	8.2		4.5		6		75				<0.2		1.5	
						3.3	0.2	186	16.5		8.1		30.5		100.7		8.2		4.5		7		75				<0.2		1.3	
					Bottom	5.6	0.1	193	16.3	16.3	8.2	8.2	31.4	31.4	100.2	100.2	8.1	8.1	5.2		5		77				<0.2		1.0	
						5.6	0.1	194	16.3		8.2		31.4		100.1		8.1		5.2		5		77				<0.2		1.0	
IM6	Cloudy	Moderate	08:15	6.3	Surface	1.0	0.3	185	16.5	16.5	8.1	8.1	30.3	30.3	101.4	101.4	8.2	8.3	4.1	4.8	5	6	73	75	821084	805843	<0.2	<0.2	1.5	1.3
						1.0	0.3	199	16.5		8.1		30.3		101.4		8.2		4.1		5		73				<0.2		1.4	
					Middle	3.2	0.2	187	16.5	16.5	8.1	8.1	30.4	30.4	101.7	101.7	8.3		4.6		7		75				<0.2		1.3	
						3.2	0.2	195	16.5		8.1		30.4		101.7		8.3		4.6		5		75				<0.2		1.3	
					Bottom	5.3	0.1	183	16.3	16.3	8.2	8.2	31.3	31.3	101.1	101.1	8.2	8.2	5.7		7		77				<0.2		1.1	
						5.3	0.1	190	16.3		8.2		31.3		101.1		8.2		5.7		8		77				<0.2		1.0	
IM7	Cloudy	Moderate	08:26	7.5	Surface	1.0	0.3	213	16.6	16.6	8.1	8.1	30.2	30.2	100.4	100.5	8.2	8.2	4.0	4.6	5	5	73	75	821324	806805	<0.2	<0.2	1.5	1.4
						1.0	0.3	223	16.6		8.1		30.2		100.5		8.2		4.0		5		73				<0.2		1.5	
					Middle	3.8	0.2	205	16.6	16.6	8.1	8.1	30.4	30.4	100.6	100.6	8.2		4.6		5		75				<0.2		1.5	
						3.8	0.2	216	16.6		8.1		30.4		100.6		8.2		4.6		4		75				<0.2		1.5	
					Bottom	6.5	0.1	170	16.3	16.3	8.2	8.2	31.2	31.2	100.1	100.1	8.1	8.1	5.1		5		77				<0.2		1.2	
						6.5	0.1	186	16.3		8.2		31.2		100.1		8.1		5.1		4		77				<0.2		1.2	
IM8	Cloudy	Moderate	07:23	7.9	Surface	1.0	0.2	210	16.8	16.8	8.1	8.1	30.1	30.1	99.4	99.4	8.1	8.1	3.6	3.6	5	5	73	74	821714	807857	<0.2	<0.2	1.4	1.3
						1.0	0.2	219	16.8		8.1		30.1		99.4		8.1		3.6		5		73				<0.2		1.4	
					Middle	4.0	0.1	248	16.7	16.7	8.1	8.1	30.3	30.3	99.4	99.4	8.1		3.6		4		74				<0.2		1.3	
						4.0	0.1	270	16.7		8.1		30.3		99.4		8.1		3.6		6		73				<0.2		1.3	
					Bottom	6.9	0.0	262	16.6	16.6	8.1	8.1	30.7	30.7	98.4	98.4	8.0	8.0	3.5		4		75				<0.2		1.0	
						6.9	0.0	284	16.6		8.1		30.7		98.4		8.0		3.5		4		75				<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**

Note: Access to IM5 was blocked by floating object. The monitoring at IM5 was slightly shifted to the closest safe and accessible location temporarily.

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 24 February 18 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	07:14	7.0	Surface	1.0	0.1	208	16.7	16.7	8.1	8.1	30.1	30.1	99.2	99.2	8.1	8.1	3.5	3.8	4	5	73	74	822105	808820	<0.2	<0.2	1.3	1.3
						1.0	0.1	209	16.7		8.1		30.1		99.2		8.1		3.5		4		72				<0.2		1.4	
					Middle	3.5	0.1	207	16.7	16.7	8.1	8.1	30.2	30.2	98.7	98.7	8.0		3.1		5		73				<0.2		1.3	
						3.5	0.1	221	16.7		8.1		30.2		98.7		8.0		3.1		5		74				<0.2		1.3	
					Bottom	6.0	0.1	89	16.6	16.6	8.1	8.1	30.5	30.5	96.3	96.3	7.8	7.8	4.8		5		74				<0.2		1.2	
						6.0	0.1	97	16.6		8.1		30.5		96.3		7.8		4.8		6		75				<0.2		1.2	
IM10	Cloudy	Moderate	07:07	7.9	Surface	1.0	0.2	132	16.7	16.7	8.1	8.1	30.2	30.2	99.9	99.9	8.1	8.1	5.2	4.7	5	4	72	74	822255	809823	<0.2	<0.2	1.2	1.2
						1.0	0.2	143	16.7		8.1		30.2		99.9		8.1		5.2		4		73				<0.2		1.3	
					Middle	4.0	0.2	105	16.7	16.7	8.1	8.1	30.3	30.3	99.6	99.6	8.1		4.7		3		74				<0.2		1.3	
						4.0	0.3	112	16.7		8.1		30.3		99.6		8.1		4.7		5		74				<0.2		1.2	
					Bottom	6.9	0.2	96	16.6	16.6	8.1	8.1	30.9	30.9	98.8	98.8	8.0	8.0	4.3		5		75				<0.2		1.2	
						6.9	0.2	104	16.6		8.1		30.9		98.8		8.0		4.3		4		76				<0.2		1.2	
IM11	Cloudy	Moderate	06:53	8.0	Surface	1.0	0.1	170	16.6	16.6	8.1	8.1	30.4	30.4	98.4	98.4	8.0	8.0	4.2	4.3	5	7	73	75	821502	810569	<0.2	<0.2	1.2	1.1
						1.0	0.1	173	16.6		8.1		30.4		98.4		8.0		4.2		6		73				<0.2		1.1	
					Middle	4.0	0.2	122	16.7	16.7	8.1	8.1	30.5	30.5	98.4	98.4	8.0		4.2		8		76				<0.2		1.2	
						4.0	0.2	126	16.7		8.1		30.5		98.4		8.0		4.2		8		77				<0.2		1.1	
					Bottom	7.0	0.1	142	16.7	16.7	8.1	8.1	30.6	30.6	98.0	98.0	7.9	7.9	4.4		8		76				<0.2		1.0	
						7.0	0.1	142	16.7		8.1		30.6		98.0		7.9		4.4		8		76				<0.2		1.1	
IM12	Cloudy	Moderate	06:45	8.7	Surface	1.0	0.2	80	16.6	16.6	8.1	8.1	30.4	30.4	97.9	97.9	7.9	7.8	3.3	5.1	5	4	72	74	821182	811515	<0.2	<0.2	1.0	1.1
						1.0	0.2	81	16.6		8.1		30.4		97.9		7.9		3.3		4		73				<0.2		1.2	
					Middle	4.4	0.1	87	16.7	16.7	8.1	8.1	30.6	30.6	95.8	95.8	7.7		4.3		5		74				<0.2		1.1	
						4.4	0.1	87	16.7		8.1		30.6		95.8		7.7		4.3		3		75				<0.2		1.2	
					Bottom	7.7	0.1	104	16.7	16.7	8.1	8.1	30.6	30.6	95.8	95.8	7.7	7.7	7.8		4		75				<0.2		1.1	
						7.7	0.1	107	16.7		8.1		30.6		95.8		7.7		7.8		4		76				<0.2		1.0	
SR2	Cloudy	Moderate	06:19	4.0	Surface	1.0	0.2	72	16.8	16.8	8.0	8.0	30.5	30.5	95.5	95.5	7.7	7.7	4.3	3.5	6	6	73	75	821463	814187	<0.2	<0.2	1.1	1.1
						1.0	0.2	76	16.8		8.0		30.5		95.5		7.7		4.3		6		72				<0.2		1.1	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.0	0.1	85	16.8	16.8	8.0	8.0	30.6	30.6	94.9	94.9	7.7	7.7	2.7		6		77				<0.2		1.1	
						3.0	0.2	92	16.8		8.0		30.6		94.9		7.7		2.7		6		76				<0.2		1.2	
SR3	Cloudy	Moderate	07:30	8.6	Surface	1.0	0.3	167	16.9	16.9	8.1	8.1	30.0	30.0	99.1	99.1	8.0	8.0	2.1	2.4	3	4	-	-	822145	807554	-	-	-	-
						1.0	0.3	180	16.9		8.1		30.0		99.1		8.0		2.1		3		-				-		-	
					Middle	4.3	0.2	181	16.7	16.7	8.1	8.1	30.5	30.5	98.3	98.3	8.0		2.4		3		-				-		-	
						4.3	0.2	190	16.7		8.1		30.5		98.3		8.0		2.4		4		-				-		-	
					Bottom	7.6	0.1	168	16.6	16.6	8.1	8.1	31.0	31.0	97.1	97.1	7.8	7.8	2.8		6		-				-		-	
						7.6	0.1	183	16.6		8.1		31.0		97.1		7.8		2.8		5		-				-		-	
SR4A	Cloudy	Moderate	06:56	8.3	Surface	1.0	0.2	237	16.3	16.3	8.1	8.1	32.2	32.2	101.7	101.8	8.2	8.2	6.4	5.9	6	6	-	-	817191	807835	-	-	-	-
						1.0	0.2	252	16.3		8.1		32.2		101.8		8.2		6.4		8		-				-		-	
					Middle	4.2	0.1	247	16.3	16.3	8.1	8.1	32.3	32.3	101.2	101.2	8.2		5.8		6		-				-		-	
						4.2	0.1	270	16.3		8.1		32.3		101.2		8.2		5.9		6		-				-		-	
					Bottom	7.3	0.1	263	16.3	16.3	8.1	8.1	32.3	32.3	100.1	100.1	8.1	8.1	5.5		6		-				-		-	
						7.3	0.2	284	16.3		8.1		32.3		100.0		8.1		5.5		6		-				-		-	
SR5A	Cloudy	Moderate	06:37	4.1	Surface	1.0	0.0	273	16.6	16.6	8.1	8.1	30.9	30.9	96.2	96.2	7.8	7.8	4.8	4.9	5	7	-	-	816589	810724	-	-	-	-
						1.0	0.0	292	16.6		8.1		30.9		96.2		7.8		4.8		7		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.1	0.0	275	16.5	16.5	8.1	8.1	31.0	31.0	96.5	96.6	7.8	7.8	4.9		8		-				-		-	
						3.1	0.0	289	16.5		8.1		31.0		96.6		7.8		4.9		9		-				-		-	
SR6	Cloudy	Moderate	06:12	4.0	Surface	1.0	0.0	109	16.6	16.6	8.0	8.0	30.5	30.5	96.7	96.7	7.8	7.9	4.6	4.8	6	6	-	-	817872	814669	-	-	-	-
						1.0	0.0	115	16.6		8.0		30.5		96.7		7.9		4.6		4		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.0	0.0	117	16.5	16.5	8.0	8.0	30.6	30.6	98.9	98.9	8.0	8.0	4.9		8		-				-		-	
						3.0	0.0	119	16.5		8.0		30.6		98.9		8.0		4.9		7		-				-		-	
SR7	Cloudy	Moderate	05:19	16.8	Surface	1.0	0.3	74	16.6	16.6	8.0	8.0	31.5	31.5	92.1	92.1	7.4	7.4	1.3	2.0	4	4	-	-	823641	823759	-	-	-	-
						1.0	0.3	79	16.6		8.0		31.5		92.1		7.4		1.3		2		-				-		-	
					Middle	8.4	0.2	82	16.6	16.6	8.0	8.0	31.6	31.6	91.7	91.8	7.4		1.2		5		-				-		-	
						8.4	0.2	86	16.6		8.0		31.6		91.9		7.4		1.1		4		-				-		-	
					Bottom	15.8	0.4	160	16.6	16.6	7.9	7.9	31.6	31.6	91.9	91.9	7.4	7.4	3.5		5		-				-		-	
						15.8	0.4	171	16.6		7.9		31.6		91.9		7.4		3.5		4		-				-		-	
SR8	Cloudy	Moderate	06:36	4.2	Surface	1.0	-	-	16.7	16.7	8.1	8.1	30.5	30.5	97.0	97.0	7.8	7.8	3.8	3.7	8	8	-	-	820246	811418	-	-	-	-
						1.0	-	-	16.7		8.1		30.5		97.0		7.8		3.8		8		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.2	-	-	16.7	16.7	8.1	8.1	30.6	30.6	95.7	95.7	7.7	7.7	3.6		8		-				-		-	
						3.2	-	-	16.7		8.1		30.6		95.7		7.7		3.6		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 February 18 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	12:04	8.3	Surface	1.0	0.3	37	16.6	16.6	8.2	8.2	32.3	32.3	106.4	106.4	8.5	8.5	4.2	5.1	6	7	73	75	815633	804227	<0.2	<0.2	0.5	0.6
						1.0	0.4	38	16.6		8.2		32.3		106.4		8.5		4.2		6		73				<0.2		0.6	
					Middle	4.2	0.4	23	16.5	16.5	8.2	8.2	32.4	32.4	104.8	104.8	8.4		4.8		9		75				<0.2		0.5	
						4.2	0.4	25	16.5		8.2		32.4		104.8		8.4		4.8		8		75				<0.2		0.6	
					Bottom	7.3	0.3	31	16.4	16.4	8.2	8.2	32.5	32.5	103.0	103.0	8.3	8.3	6.4		8		77				<0.2		0.6	
						7.3	0.3	31	16.4		8.2		32.5		103.0		8.3		6.4		7		77				<0.2		0.6	
C2	Cloudy	Moderate	10:55	11.5	Surface	1.0	0.2	188	17.1	17.1	8.0	8.0	29.0	29.0	98.0	98.0	8.0	7.9	2.8	2.9	7	7	72	73	825661	806957	<0.2	<0.2	2.1	1.6
						1.0	0.2	204	17.1		8.0		29.0		98.0		8.0		2.8		7		72				<0.2		2.0	
					Middle	5.8	0.1	266	16.9	16.9	8.0	8.0	30.0	30.0	96.7	96.7	7.8		1.8		7		73				<0.2		1.6	
						5.8	0.1	272	16.9		8.0		30.0		96.7		7.8		1.8		6		73				<0.2		1.6	
					Bottom	10.5	0.3	350	16.8	16.8	8.0	8.0	30.6	30.6	96.0	96.0	7.7	7.7	4.1		8		75				<0.2		1.3	
						10.5	0.3	322	16.8		8.0		30.6		96.0		7.7		4.1		7		75				<0.2		1.1	
C3	Cloudy	Moderate	12:44	11.7	Surface	1.0	0.4	269	16.8	16.8	8.0	8.0	30.9	30.9	93.9	93.9	7.6	7.6	2.0	1.9	4	7	73	75	822102	817788	<0.2	<0.2	1.0	0.9
						1.0	0.4	273	16.8		8.0		30.9		93.9		7.6		2.0		6		73				<0.2		1.0	
					Middle	5.9	0.3	281	16.6	16.6	8.0	8.0	31.3	31.3	92.4	92.4	7.5		1.2		4		75				<0.2		0.8	
						5.9	0.4	289	16.6		8.0		31.3		92.4		7.5		1.2		5		75				<0.2		0.9	
					Bottom	10.7	0.4	290	16.6	16.6	8.0	8.0	31.4	31.4	93.1	93.1	7.5	7.5	2.4		10		77				<0.2		0.8	
						10.7	0.4	304	16.6		8.0		31.4		93.1		7.5		2.4		10		77				<0.2		0.8	
IM1	Fine	Moderate	11:40	7.0	Surface	1.0	0.2	2	16.5	16.4	8.2	8.2	31.7	31.7	105.5	105.5	8.5	8.5	4.3	4.7	6	8	73	75	818340	806470	<0.2	<0.2	1.0	0.8
						1.0	0.2	2	16.4		8.2		31.7		105.5		8.5		4.3		4		74				<0.2		1.0	
					Middle	3.5	0.2	358	16.3	16.3	8.2	8.2	32.0	32.0	104.2	104.2	8.4		4.6		7		75				<0.2		0.8	
						3.5	0.2	329	16.3		8.2		32.0		104.1		8.4		4.7		9		75				<0.2		0.7	
					Bottom	6.0	0.2	5	16.3	16.3	8.2	8.2	32.2	32.2	103.1	103.1	8.3	8.3	5.0		9		77				<0.2		0.7	
						6.0	0.2	5	16.3		8.2		32.2		103.1		8.3		5.1		10		77				<0.2		0.8	
IM2	Fine	Moderate	11:35	8.1	Surface	1.0	0.2	331	16.7	16.7	8.2	8.2	30.7	30.7	104.4	104.4	8.4	8.4	4.6	5.7	5	7	73	75	818855	806180	<0.2	<0.2	1.3	1.0
						1.0	0.2	305	16.7		8.2		30.7		104.4		8.4		4.6		6		74				<0.2		1.3	
					Middle	4.1	0.3	10	16.3	16.3	8.2	8.2	31.8	31.8	102.3	102.3	8.3		5.2		6		75				<0.2		0.8	
						4.1	0.3	10	16.3		8.2		31.8		102.3		8.3		5.2		8		76				<0.2		1.0	
					Bottom	7.1	0.2	5	16.3	16.3	8.1	8.1	32.2	32.2	101.4	101.4	8.2	8.2	7.3		9		77				<0.2		0.9	
						7.1	0.2	5	16.3		8.1		32.2		101.4		8.2		7.2		8		77				<0.2		0.9	
IM3	Fine	Moderate	11:29	8.0	Surface	1.0	0.1	23	16.7	16.7	8.2	8.2	30.8	30.8	104.2	104.2	8.4	8.4	4.1	4.6	5	6	73	75	819401	805990	<0.2	<0.2	1.3	1.1
						1.0	0.1	23	16.7		8.2		30.8		104.2		8.4		4.2		4		74				<0.2		1.5	
					Middle	4.0	0.2	18	16.3	16.3	8.2	8.2	31.6	31.6	103.3	103.3	8.4		4.7		6		75				<0.2		0.9	
						4.0	0.2	19	16.3		8.2		31.6		103.3		8.4		4.7		6		76				<0.2		1.0	
					Bottom	7.0	0.2	358	16.2	16.2	8.2	8.2	31.7	31.7	102.5	102.5	8.3	8.3	4.8		9		77				<0.2		1.0	
						7.0	0.2	329	16.3		8.2		31.7		102.5		8.3		4.9		8		77				<0.2		1.0	
IM4	Fine	Moderate	11:21	7.3	Surface	1.0	0.2	345	16.6	16.6	8.2	8.2	30.7	30.7	104.8	104.9	8.5	8.5	4.8	5.1	5	6	73	75	819590	805027	<0.2	<0.2	1.3	1.1
						1.0	0.2	353	16.6		8.2		30.7		104.9		8.5		4.9		6		73				<0.2		1.4	
					Middle	3.7	0.2	331	16.3	16.3	8.2	8.2	31.5	31.5	104.2	104.2	8.4		4.3		6		75				<0.2		0.9	
						3.7	0.2	359	16.3		8.2		31.5		104.2		8.4		4.3		6		76				<0.2		1.2	
					Bottom	6.3	0.2	353	16.2	16.2	8.2	8.2	31.9	31.9	101.8	101.8	8.2	8.2	6.0		6		77				<0.2		0.9	
						6.3	0.2	325	16.2		8.2		31.9		101.7		8.2		6.0		8		77				<0.2		0.8	
IM5	Fine	Moderate	11:09	6.5	Surface	1.0	0.1	324	16.7	16.7	8.1	8.1	30.3	30.3	103.3	103.3	8.4	8.4	4.3	5.5	7	8	73	76	820592.916	804937.87	<0.2	<0.2	1.4	1.4
						1.0	0.1	327	16.7		8.1		30.3		103.3		8.4		4.3		6		74				<0.2		1.5	
					Middle	3.3	0.2	349	16.5	16.5	8.2	8.2	30.8	30.8	102.6	102.6	8.3		4.8		8		75				<0.2		1.3	
						3.3	0.2	321	16.5		8.2		30.8		102.6		8.3		4.9		9		76				<0.2		1.4	
					Bottom	5.5	0.2	354	16.3	16.3	8.2	8.2	31.3	31.3	101.1	101.1	8.2	8.2	7.2		8		78				<0.2		1.4	
						5.5	0.2	326	16.3		8.2		31.3		101.0		8.2		7.2		8		77				<0.2		1.5	
IM6	Fine	Moderate	11:01	6.4	Surface	1.0	0.2	300	16.8	16.8	8.1	8.1	30.3	30.3	102.4	102.4	8.3	8.3	3.7	4.2	5	6	74	75	821083	805804	<0.2	<0.2	1.5	1.3
						1.0	0.2	315	16.8		8.1		30.3		102.4		8.3		3.7		5		73				<0.2		1.5	
					Middle	3.2	0.3	316	16.6	16.6	8.1	8.1	30.5	30.5	101.7	101.7	8.2		4.0		4		75				<0.2		1.3	
						3.2	0.3	317	16.6		8.1		30.5		101.6		8.2		4.0		5		75				<0.2		1.3	
					Bottom	5.4	0.2	329	16.4	16.4	8.2	8.2	31.1	31.1	100.5	100.5	8.2	8.2	5.0		9		77				<0.2		1.2	
						5.4	0.2	346	16.4		8.2		31.1		100.5		8.2		5.0		9		78				<0.2		1.0	
IM7	Fine	Moderate	10:54	7.7	Surface	1.0	0.2	248	16.7	16.7	8.1	8.1	30.3	30.3	102.0	102.0	8.3	8.3	3.9	4.1	4	4	73	75	821360	806863	<0.2	<0.2	1.6	1.6
						1.0	0.2	267	16.7		8.1		30.3		101.9		8.3		3.9		3		73				<0.2		1.6	
					Middle	3.9	0.2	269	16.7	16.7	8.1	8.1	30.3	30.3	101.3	101.3	8.2		4.0		5		75				<0.2		1.5	
						3.9	0.3	271	16.7		8.1		30.3		101.3		8.2		4.0		4		76				<0.2		1.6	
					Bottom	6.7	0.1	305	16.5	16.5	8.1	8.1	30.7	30.7	100.4	100.4	8.1	8.1	4.3		4		77				<0.2		1.7	
						6.7	0.1	324	16.5		8.1		30.7		100.4		8.1		4.3		4		77				<0.2		1.5	
IM8	Cloudy	Moderate	11:19	8.0	Surface	1.0	0.0	332	17.1	17.1	8.0	8.0	29.7	29.7	100.3	100.3	8.1	8.1	2.0	2.2	3	4	73	74	821669	807811	<0.2	<0.2	1.6	1.5
						1.0	0.0	305	17.1		8.0		29.7		100.3		8.1		2.0		3		72				<0.2		1.5	
					Middle	4.0	0.1	105	17.0	17.0	8.0	8.0	29.8	29.8	99.6	99.5	8.0		2.3		5		75				<0.2		1.6	
						4.0	0.1	106	17.0		8.0		29.8		99.4		8.0		2.6		5		75				<0.2		1.5	
					Bottom	7.0	0.1	130	16.9	16.9	8.1	8.1	29.9	29.9	98.1	98.1	7.9	7.9	2.2		4		75				<0.2		1.5	
						7.0	0.1	136	16.9		8.1		29.9		98.1		7.9		2.2		5		76				<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 24 February 18 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	11:28	7.1	Surface	1.0	0.2	239	17.1	17.1	8.1	8.1	29.9	29.9	98.7	98.7	8.0	8.0	3.6	3.6	5	5	73	74	822111	808839	<0.2	<0.2	1.4	1.4
						1.0	0.2	258	17.1		8.1		29.9		98.7		8.0		3.6		4		73				<0.2		1.4	
					Middle	3.6	0.2	272	17.0	17.0	8.1	8.1	30.0	30.0	98.8	98.8	8.0		3.6		4		74				<0.2		1.5	
						3.6	0.2	281	17.0		8.1		30.0		98.8		8.0		3.6		4		74				<0.2		1.4	
					Bottom	6.1	0.1	284	16.9	16.9	8.1	8.1	30.2	30.2	98.6	98.6	8.0	8.0	3.7		5		75				<0.2		1.4	
						6.1	0.2	291	16.9		8.1		30.2		98.6		8.0		3.7		6		75				<0.2		1.5	
IM10	Cloudy	Moderate	11:37	6.7	Surface	1.0	0.3	318	16.9	16.9	8.1	8.1	30.2	30.2	100.7	100.7	8.1	8.1	4.4	3.7	6	6	72	75	822214	809861	<0.2	<0.2	1.3	1.3
						1.0	0.3	323	16.9		8.1		30.2		100.7		8.1		4.4		4		73				<0.2		1.4	
					Middle	3.4	0.3	315	16.9	16.9	8.1	8.1	30.2	30.2	99.8	99.8	8.1		2.8		7		75				<0.2		1.3	
						3.4	0.3	340	16.9		8.1		30.2		99.8		8.1		2.9		5		75				<0.2		1.3	
					Bottom	5.7	0.2	317	16.8	16.8	8.1	8.1	30.3	30.3	97.7	97.7	7.9	7.9	3.9		5		76				<0.2		1.3	
						5.7	0.2	322	16.8		8.1		30.3		97.7		7.9		3.9		6		77				<0.2		1.2	
IM11	Cloudy	Moderate	11:49	7.5	Surface	1.0	0.3	283	17.0	17.0	8.1	8.1	30.3	30.3	102.1	102.1	8.2	8.2	3.3	4.9	2	3	74	75	821493	810560	<0.2	<0.2	1.3	1.2
						1.0	0.3	296	17.0		8.1		30.3		102.1		8.2		3.3		3		73				<0.2		1.2	
					Middle	3.8	0.3	286	16.8	16.8	8.1	8.1	30.3	30.3	100.3	100.3	8.1		5.6		2		75				<0.2		1.4	
						3.8	0.3	298	16.8		8.1		30.3		100.3		8.1		5.6		4		76				<0.2		1.2	
					Bottom	6.5	0.3	295	16.7	16.7	8.1	8.1	30.4	30.4	99.3	99.3	8.0	8.0	5.7		5		75				<0.2		1.2	
						6.5	0.3	308	16.7		8.1		30.4		99.3		8.0		5.7		3		76				<0.2		1.1	
IM12	Cloudy	Moderate	11:57	8.5	Surface	1.0	0.3	279	16.8	16.8	8.1	8.1	30.4	30.4	95.9	95.9	7.8	7.8	4.5	4.9	5	6	73	74	821153	811492	<0.2	<0.2	1.2	1.2
						1.0	0.3	281	16.8		8.1		30.4		95.9		7.8		4.5		3		73				<0.2		1.2	
					Middle	4.3	0.3	276	16.7	16.7	8.1	8.1	30.5	30.5	96.0	96.0	7.8		5.2		7		73				<0.2		1.2	
						4.3	0.3	303	16.7		8.1		30.5		96.0		7.8		5.2		6		74				<0.2		1.2	
					Bottom	7.5	0.2	285	16.8	16.8	8.1	8.1	30.5	30.5	95.7	95.7	7.7	7.7	5.0		7		75				<0.2		1.3	
						7.5	0.2	300	16.8		8.1		30.5		95.7		7.7		5.0		7		75				<0.2		1.2	
SR2	Cloudy	Moderate	12:23	4.3	Surface	1.0	0.4	83	16.9	16.9	8.0	8.0	30.7	30.7	97.3	97.3	7.8	7.8	1.8	1.7	6	5	73	75	821464	814193	<0.2	<0.2	1.0	1.1
						1.0	0.4	89	16.9		8.0		30.7		97.3		7.8		1.8		4		74				<0.2		1.1	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.3	0.3	85	16.9	16.9	8.0	8.0	30.7	30.7	97.4	97.4	7.8	7.8	1.6		4		76				<0.2		1.1	
						3.3	0.3	89	16.9		8.0		30.7		97.4		7.8		1.6		4		77				<0.2		1.1	
SR3	Cloudy	Moderate	11:13	8.6	Surface	1.0	0.2	198	17.2	17.2	8.0	8.0	29.6	29.6	100.1	100.1	8.1	8.1	3.2	2.8	3	4	-	-	822169	807599	-	-	-	-
						1.0	0.2	217	17.2		8.0		29.6		100.1		8.1		3.2		4		-				-		-	
					Middle	4.3	0.1	196	16.9	16.9	8.0	8.0	29.9	29.9	99.2	99.2	8.0		2.7		3		-				-		-	
						4.3	0.1	203	16.9		8.0		29.9		99.2		8.0		2.7		4		-				-		-	
					Bottom	7.6	0.1	261	16.8	16.8	8.1	8.1	30.2	30.2	98.6	98.6	8.0	8.0	2.6		4		-				-		-	
						7.6	0.1	279	16.8		8.1		30.2		98.6		8.0		2.6		6		-				-		-	
SR4A	Fine	Moderate	12:25	8.3	Surface	1.0	0.2	240	16.7	16.7	8.1	8.1	31.4	31.4	100.6	100.6	8.1	8.1	4.7	4.8	4	5	-	-	817198	807822	-	-	-	-
						1.0	0.2	258	16.7		8.1		31.4		100.6		8.1		4.7		6		-				-		-	
					Middle	4.2	0.1	264	16.4	16.4	8.1	8.1	31.6	31.6	100.0	100.0	8.1		4.8		6		-				-		-	
						4.2	0.1	286	16.4		8.1		31.6		99.9		8.1		4.8		4		-				-		-	
					Bottom	7.3	0.1	268	16.3	16.3	8.1	8.1	32.0	32.0	99.3	99.3	8.0	8.0	4.8		6		-				-		-	
						7.3	0.1	291	16.3		8.1		32.0		99.3		8.0		4.8		5		-				-		-	
SR5A	Fine	Moderate	12:43	4.5	Surface	1.0	0.2	295	16.9	16.9	8.1	8.1	30.8	30.8	97.8	97.8	7.9	7.9	6.2	6.6	5	5	-	-	816587	810688	-	-	-	-
						1.0	0.2	317	16.9		8.1		30.8		97.7		7.9		6.2		5		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.5	0.1	303	16.8	16.8	8.1	8.1	30.9	30.9	97.8	97.8	7.9	7.9	6.9		4		-				-		-	
						3.5	0.1	304	16.8		8.1		30.9		97.8		7.9		6.9		5		-				-		-	
SR6	Fine	Moderate	13:10	4.1	Surface	1.0	0.1	223	16.7	16.7	8.1	8.1	30.9	30.9	98.6	98.6	8.0	8.0	6.1	6.2	5	5	-	-	817916	814656	-	-	-	-
						1.0	0.1	233	16.7		8.1		30.9		98.6		8.0		6.1		5		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.1	0.1	238	16.7	16.7	8.1	8.1	30.9	30.9	98.6	98.6	8.0	8.0	6.3		5		-				-		-	
						3.1	0.1	241	16.7		8.1		30.9		98.6		8.0		6.3		6		-				-		-	
SR7	Cloudy	Moderate	13:17	16.8	Surface	1.0	0.1	87	16.7	16.7	8.0	8.0	31.4	31.4	92.5	92.5	7.4	7.4	0.9	1.1	2	3	-	-	823637	823736	-	-	-	-
						1.0	0.1	91	16.7		8.0		31.4		92.5		7.4		0.9		3		-				-		-	
					Middle	8.4	0.2	61	16.6	16.6	8.0	8.0	31.5	31.5	91.8	91.8	7.4		0.9		4		-				-		-	
						8.4	0.2	66	16.6		8.0		31.5		91.8		7.4		0.9		3		-				-		-	
					Bottom	15.8	0.4	51	16.6	16.6	8.0	8.0	31.5	31.5	91.7	91.7	7.4	7.4	1.5		4		-				-		-	
						15.8	0.4	55	16.6		8.0		31.5		91.7		7.4		1.5		4		-				-		-	
SR8	Cloudy	Moderate	12:05	4.0	Surface	1.0	-	-	17.3	17.3	8.1	8.1	30.4	30.4	98.2	98.2	7.9	7.9	4.1	4.5	5	5	-	-	820246	811418	-	-	-	-
						1.0	-	-	17.3		8.1		30.4		98.2		7.9		4.1		3		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.0	-	-	17.0	17.0	8.1	8.1	30.4	30.4	97.5	97.5	7.9	7.9	4.9		6		-				-		-	
						3.0	-	-	17.0		8.1		30.4		97.5		7.9		4.9		4		-				-		-	

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

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

Water Quality Monitoring

Water Quality Monitoring Results on 27 February 18 during Mid-Ebb Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
C1	Cloudy	Moderate	10:41	8.6	Surface	1.0	0.1	70	16.9	16.9	8.2	8.2	32.2	32.2	103.2	103.2	8.2	8.1	7.4	7.9	6	6	73	75	815638	804220	<0.2	<0.2	1.4	1.5
						1.0	0.2	71	16.9		8.2		32.3		103.1		8.2		7.5		5		73				<0.2		1.4	
					Middle	4.3	0.1	100	16.8	16.8	8.1	8.1	32.6	32.6	101.0	101.0	8.0		7.7		7		75				<0.2		1.4	
						4.3	0.1	108	16.8		8.1		32.6		101.0		8.0		7.7		6		75				<0.2		1.5	
					Bottom	7.6	0.1	166	16.8	16.8	8.1	8.1	32.7	32.7	99.9	99.9	8.0	8.0	8.5		6		77				<0.2		1.5	
						7.6	0.1	181	16.8		8.1		32.7		99.9		8.0		8.5		7		77				<0.2		1.5	
C2	Cloudy	Moderate	09:39	11.9	Surface	1.0	0.2	69	17.3	17.3	8.0	8.0	29.7	29.7	97.8	97.8	7.9	7.9	6.2	7.8	5	5	73	74	825704	806961	<0.2	<0.2	1.8	1.9
						1.0	0.2	72	17.3		8.0		29.7		97.8		7.9		6.2		6		73				<0.2		2.0	
					Middle	6.0	0.1	86	17.3	17.3	8.0	8.0	29.7	29.7	97.1	97.1	7.8		7.8		6		75				<0.2		1.9	
						6.0	0.2	89	17.3		8.0		29.7		97.1		7.8		7.8		5		75				<0.2		1.7	
					Bottom	10.9	0.1	100	17.3	17.3	8.0	8.0	29.9	29.9	95.3	95.3	7.7	7.7	9.3		6		73				<0.2		1.7	
						10.9	0.1	101	17.3		8.0		29.9		95.3		7.7		9.3		4		74				<0.2		2.0	
C3	Cloudy	Moderate	11:27	11.7	Surface	1.0	0.3	94	17.2	17.2	8.0	8.0	31.2	31.2	93.2	93.2	7.4	7.4	2.2	1.5	3	3	73	75	822081	817800	<0.2	<0.2	1.1	1.1
						1.0	0.4	95	17.2		8.0		31.2		93.2		7.4		2.3		2		73				<0.2		1.2	
					Middle	5.9	0.4	88	17.1	17.1	8.0	8.0	31.3	31.3	92.0	92.0	7.4		1.7		4		75				<0.2		1.1	
						5.9	0.4	91	17.1		8.0		31.3		92.0		7.4		1.7		2		75				<0.2		1.1	
					Bottom	10.7	0.2	90	17.0	17.0	8.0	8.0	31.4	31.4	91.4	91.4	7.3	7.3	0.5		4		76				<0.2		1.0	
						10.7	0.2	96	17.0		8.0		31.4		91.4		7.3		0.5		3		77				<0.2		1.0	
IM1	Cloudy	Moderate	10:21	7.5	Surface	1.0	0.0	229	17.0	17.0	8.2	8.2	32.2	32.2	104.1	104.1	8.3	8.3	6.0	8.1	5	8	73	75	818373	806454	<0.2	<0.2	1.3	2.4
						1.0	0.0	246	17.0		8.2		32.2		104.0		8.3		6.0		5		73				<0.2		1.5	
					Middle	3.8	0.1	23	16.9	16.9	8.2	8.2	32.4	32.4	102.7	102.7	8.2		7.6		7		75				<0.2		1.6	
						3.8	0.1	25	16.9		8.2		32.4		102.7		8.2		7.6		9		75				<0.2		1.7	
					Bottom	6.5	0.1	41	16.9	16.9	8.2	8.2	32.6	32.6	101.2	101.2	8.1	8.1	10.7		11		77				<0.2		6.3	
						6.5	0.1	43	16.9		8.2		32.6		101.2		8.1		10.8		12		77				<0.2		1.8	
IM2	Cloudy	Moderate	10:15	8.5	Surface	1.0	0.1	332	17.0	17.0	8.2	8.2	32.3	32.3	103.6	103.6	8.2	8.2	7.1	8.3	4	5	73	75	818856	806215	<0.2	<0.2	1.6	1.6
						1.0	0.1	351	17.0		8.2		32.3		103.6		8.2		7.2		5		73				<0.2		1.5	
					Middle	4.3	0.1	58	16.9	16.9	8.2	8.2	32.5	32.5	101.8	101.8	8.1		8.4		5		75				<0.2		1.5	
						4.3	0.1	58	16.9		8.2		32.5		101.8		8.1		8.4		5		75				<0.2		1.6	
					Bottom	7.5	0.1	18	16.9	16.9	8.2	8.2	32.5	32.5	100.3	100.3	8.0	8.0	9.2		6		77				<0.2		1.7	
						7.5	0.1	19	16.9		8.2		32.5		100.3		8.0		9.2		7		77				<0.2		1.6	
IM3	Cloudy	Moderate	10:08	8.4	Surface	1.0	0.1	41	17.0	17.0	8.2	8.2	32.6	32.6	103.0	103.0	8.2	8.2	8.4	8.8	6	7	73	75	819383	806008	<0.2	<0.2	1.4	1.6
						1.0	0.1	42	17.0		8.2		32.6		102.9		8.2		8.4		5		73				<0.2		1.5	
					Middle	4.2	0.1	19	16.9	16.9	8.2	8.2	32.6	32.6	101.8	101.8	8.1		8.8		7		75				<0.2		1.6	
						4.2	0.1	19	16.9		8.2		32.6		101.8		8.1		8.8		7		75				<0.2		1.7	
					Bottom	7.4	0.1	24	16.9	16.9	8.2	8.2	32.6	32.6	100.5	100.5	8.0	8.0	9.3		8		77				<0.2		1.6	
						7.4	0.1	24	16.9		8.2		32.6		100.5		8.0		9.3		9		77				<0.2		1.8	
IM4	Cloudy	Moderate	10:01	7.8	Surface	1.0	0.2	51	16.9	16.9	8.2	8.2	32.4	32.4	103.2	103.2	8.2	8.2	7.8	9.2	7	7	73	75	819548	805016	<0.2	<0.2	1.5	1.5
						1.0	0.2	51	16.9		8.2		32.4		103.2		8.2		7.9		6		73				<0.2		1.5	
					Middle	3.9	0.1	25	16.9	16.9	8.2	8.2	32.4	32.4	102.2	102.2	8.1		8.9		6		75				<0.2		1.5	
						3.9	0.1	27	16.9		8.2		32.4		102.1		8.1		8.9		7		75				<0.2		1.4	
					Bottom	6.8	0.1	29	16.9	16.9	8.2	8.2	32.6	32.6	100.6	100.6	8.0	8.0	10.8		8		77				<0.2		1.6	
						6.8	0.1	31	16.9		8.2		32.6		100.6		8.0		10.8		10		77				<0.2		1.5	
IM5	Cloudy	Moderate	09:51	7.0	Surface	1.0	0.1	19	16.9	16.9	8.2	8.2	32.3	32.3	103.4	103.4	8.2	8.2	7.6	7.5	6	7	73	75	820550	804923	<0.2	<0.2	1.4	1.5
						1.0	0.1	20	16.9		8.2		32.3		103.4		8.2		7.6		7		73				<0.2		1.4	
					Middle	3.5	0.2	14	16.9	16.9	8.2	8.2	32.3	32.3	102.8	102.8	8.2		7.5		8		75				<0.2		1.6	
						3.5	0.2	15	16.9		8.2		32.3		102.8		8.2		7.4		6		75				<0.2		1.5	
					Bottom	6.0	0.1	19	16.9	16.9	8.2	8.2	32.3	32.3	101.9	101.9	8.1	8.1	7.4		7		77				<0.2		1.5	
						6.0	0.1	20	16.9		8.2		32.3		101.9		8.1		7.4		8		77				<0.2		1.6	
IM6	Cloudy	Moderate	09:42	7.0	Surface	1.0	0.1	82	17.0	17.0	8.2	8.2	31.7	31.7	103.4	103.4	8.3	8.2	8.6	8.7	8	8	73	75	821077	805844	<0.2	<0.2	1.6	1.5
						1.0	0.1	82	17.0		8.2		31.7		103.4		8.3		8.6		7		73				<0.2		1.5	
					Middle	3.5	0.1	102	16.9	16.9	8.2	8.2	32.1	32.1	102.2	102.2	8.2		8.6		8		75				<0.2		1.5	
						3.5	0.1	109	16.9		8.2		32.1		102.1		8.1		8.6		7		75				<0.2		1.5	
					Bottom	6.0	0.2	73	16.9	16.9	8.2	8.2	32.1	32.1	100.6	100.5	8.0	8.0	9.0		9		77				<0.2		1.6	
						6.0	0.2	77	16.9		8.2		32.1		100.3		8.0		9.0		10		77				<0.2		1.5	
IM7	Cloudy	Moderate	09:36	8.5	Surface	1.0	0.2	50	17.0	17.0	8.2	8.2	31.6	31.6	103.7	103.7	8.3	8.3	7.3	7.4	4	6	73	75	821322	806851	<0.2	<0.2	1.6	1.6
						1.0	0.2	50	17.0		8.2		31.6		103.7		8.3		7.3		6		73				<0.2		1.7	
					Middle	4.3	0.2	59	17.0	17.0	8.2	8.2	31.6	31.6	102.9	102.9	8.2		7.4		7		75				<0.2		1.7	
						4.3	0.2	63	17.0		8.2		31.6		102.9		8.2		7.1		6		75				<0.2		1.4	
					Bottom	7.5	0.2	67	17.0	17.0	8.2	8.2	31.5	31.5	101.4	101.4	8.1	8.1	7.5		7		77				<0.2		1.5	
						7.5	0.2	73	17.0		8.2		31.5		101.3		8.1		7.5		8		77				<0.2		1.6	
IM8	Cloudy	Moderate	10:06	8.1	Surface	1.0	0.2	88	17.3	17.3	8.1	8.1	31.1	31.1	100.7	100.7	8.0	8.0	6.2	7.3	6	9	73	74	821690	807816	<0.2	<0.2	1.0	1.1
						1.0	0.2	91	17.3		8.1		31.1		100.7		8.0		6.2		7		73				<0.2		1.1	
					Middle	4.1	0.2	62	17.2	17.2	8.1	8.1	31.2	31.2	99.2	99.2	7.9		7.1		8		73				<0.2		1.1	
						4.1	0.2	65	17.2		8.1		31.2		99.2		7.9		7.1		7		73				<0.2		1.2	
					Bottom	7.1	0.2	52	17.2	17.2	8.1	8.1	31.2	31.2	96.8	96.8	7.7	7.7	8.6		14		75				<0.2		1.1	
						7.1	0.2	54	17.2		8.1		31.2		96.8		7.7		8.6		13		75				<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 27 February 18 during Mid-Ebb Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
IM9	Cloudy	Moderate	10:14	7.8	Surface	1.0	0.2	69	17.3	17.3	8.2	8.2	31.1	31.1	100.7	100.7	8.0	8.0	5.5	7.8	5	5	73	74	822081	808837	<0.2	<0.2	1.3	1.1
						1.0	0.3	69	17.3		8.2		31.1		100.7		8.0		5.5		3		73				<0.2		1.0	
					Middle	3.9	0.3	77	17.2	17.2	8.2	8.2	31.2	31.2	99.5	99.5	7.9		6.6		4		74				<0.2		1.1	
						3.9	0.3	82	17.2		8.2		31.2		99.4		7.9		6.6		6		74				<0.2		1.2	
					Bottom	6.8	0.2	79	17.2	17.2	8.2	8.2	31.2	31.2	98.4	98.4	7.8	7.8	11.2		6		75				<0.2		1.1	
						6.8	0.2	84	17.2		8.2		31.2		98.4		7.8		11.2		5		75				<0.2		1.1	
IM10	Cloudy	Moderate	10:22	7.2	Surface	1.0	0.3	95	17.2	17.2	8.1	8.1	30.9	30.9	97.1	97.1	7.8	7.8	4.1	4.2	5	4	73	74	822264	809833	<0.2	<0.2	1.3	1.2
						1.0	0.3	101	17.2		8.1		30.9		97.1		7.8		4.1		4		73				<0.2		1.3	
					Middle	3.6	0.3	101	17.2	17.2	8.1	8.1	30.9	30.9	96.6	96.6	7.7		4.5		3		73				<0.2		1.2	
						3.6	0.3	102	17.2		8.1		30.9		96.6		7.7		4.5		4		74				<0.2		1.2	
					Bottom	6.2	0.2	100	17.3	17.3	8.1	8.1	31.0	31.0	95.5	95.5	7.6	7.6	4.0		4		75				<0.2		1.2	
						6.2	0.2	102	17.3		8.1		31.0		95.5		7.6		4.0		4		75				<0.2		1.2	
IM11	Cloudy	Moderate	10:35	8.2	Surface	1.0	0.2	107	17.3	17.3	8.1	8.1	30.8	30.8	98.6	98.6	7.9	7.9	3.2	3.9	4	4	73	75	821521	810532	<0.2	<0.2	1.2	1.2
						1.0	0.2	108	17.3		8.1		30.8		98.6		7.9		3.2		4		73				<0.2		1.3	
					Middle	4.1	0.1	112	17.2	17.2	8.1	8.1	30.8	30.8	97.4	97.4	7.8		4.3		4		75				<0.2		1.3	
						4.1	0.1	120	17.2		8.1		30.8		97.4		7.8		4.3		3		75				<0.2		1.1	
					Bottom	7.2	0.1	123	17.2	17.2	8.1	8.1	31.0	31.0	95.8	95.8	7.7	7.7	4.3		6		76				<0.2		1.2	
						7.2	0.1	128	17.2		8.1		31.0		95.8		7.7		4.3		5		78				<0.2		1.2	
IM12	Cloudy	Moderate	10:42	8.8	Surface	1.0	0.3	101	17.3	17.3	8.1	8.1	30.8	30.8	98.4	98.4	7.9	7.9	4.9	6.5	6	5	73	75	821170	811541	<0.2	<0.2	1.2	1.2
						1.0	0.4	103	17.3		8.1		30.8		98.4		7.9		4.9		5		73				<0.2		1.3	
					Middle	4.4	0.3	102	17.3	17.3	8.1	8.1	30.9	30.9	97.7	97.7	7.8		5.6		5		75				<0.2		1.2	
						4.4	0.4	106	17.3		8.1		30.9		97.7		7.8		5.6		5		75				<0.2		1.2	
					Bottom	7.8	0.2	105	17.3	17.3	8.1	8.1	31.1	31.1	96.3	96.3	7.7	7.7	8.9		4		77				<0.2		1.1	
						7.8	0.2	107	17.3		8.1		31.1		96.3		7.7		8.9		4		77				<0.2		1.1	
SR2	Cloudy	Moderate	11:07	4.0	Surface	1.0	0.2	101	17.2	17.2	8.0	8.0	31.0	31.0	93.8	93.8	7.5	7.5	4.4	3.2	4	4	73	74	821445	814181	<0.2	<0.2	1.0	1.0
						1.0	0.2	104	17.2		8.0		31.0		93.8		7.5		4.4		5		73				<0.2		1.0	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.0	0.2	104	17.2	17.2	8.0	8.0	31.0	31.0	93.6	93.7	7.5	7.5	1.9		4		75				<0.2		1.1	
						3.0	0.2	113	17.2		8.0		31.0		93.7		7.5		1.9		4		75				<0.2		1.0	
SR3	Cloudy	Moderate	10:01	8.9	Surface	1.0	0.2	54	17.3	17.3	8.1	8.1	31.0	31.0	100.0	100.0	8.0	8.0	5.5	5.9	5	7	-	-	822127	807592	-	-	-	-
						1.0	0.2	55	17.3		8.1		31.0		100.0		8.0		5.5		5		-				-		-	
					Middle	4.5	0.3	62	17.2	17.2	8.1	8.1	31.1	31.1	98.7	98.7	7.9		5.6		9		-				-		-	
						4.5	0.3	68	17.2		8.1		31.1		98.7		7.9		5.6		8		-				-		-	
					Bottom	7.9	0.2	65	17.2	17.2	8.1	8.1	31.2	31.2	97.4	97.4	7.8	7.8	6.5		8		-				-		-	
						7.9	0.2	65	17.2		8.1		31.2		97.4		7.8		6.5		8		-				-		-	
SR4A	Cloudy	Moderate	11:01	8.3	Surface	1.0	0.3	57	17.0	17.0	8.2	8.2	32.2	32.2	103.3	103.3	8.2	8.2	5.7	6.0	5	6	-	-	817182	807829	-	-	-	-
						1.0	0.3	60	17.0		8.2		32.2		103.3		8.2		5.7		5		-				-		-	
					Middle	4.2	0.3	63	17.0	17.0	8.2	8.2	32.3	32.3	102.3	102.3	8.2		6.5		6		-				-		-	
						4.2	0.3	68	17.0		8.2		32.3		102.3		8.2		6.5		5		-				-		-	
					Bottom	7.3	0.2	55	16.9	16.9	8.2	8.2	32.3	32.3	101.0	101.0	8.0	8.0	5.9		8		-				-		-	
						7.3	0.2	56	16.9		8.2		32.3		101.0		8.0		5.9		9		-				-		-	
SR5A	Cloudy	Moderate	11:17	5.2	Surface	1.0	0.1	56	17.2	17.2	8.1	8.1	31.4	31.4	95.7	95.7	7.6	7.6	5.5	6.0	4	4	-	-	816575	810666	-	-	-	-
						1.0	0.1	56	17.2		8.1		31.4		95.7		7.6		5.6		4		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.2	0.1	45	17.1	17.1	8.1	8.1	31.4	31.4	95.6	95.7	7.6	7.6	6.5		4		-				-		-	
						4.2	0.1	47	17.1		8.1		31.4		95.7		7.6		6.5		4		-				-		-	
SR6	Cloudy	Moderate	11:39	3.9	Surface	1.0	0.1	105	17.3	17.3	8.1	8.1	31.3	31.3	94.4	94.4	7.5	7.5	5.2	5.2	3	5	-	-	817900	814643	-	-	-	-
						1.0	0.1	115	17.3		8.1		31.3		94.3		7.5		5.2		5		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.9	0.1	95	17.2	17.2	8.1	8.1	31.4	31.4	94.5	94.5	7.5	7.5	5.2		5		-				-		-	
						2.9	0.1	97	17.2		8.1		31.4		94.5		7.5		5.2		6		-				-		-	
SR7	Cloudy	Moderate	11:57	16.4	Surface	1.0	0.4	62	17.1	17.1	8.0	8.0	31.4	31.4	91.6	91.6	7.3	7.3	1.7	1.5	3	3	-	-	823643	823733	-	-	-	-
						1.0	0.5	67	17.1		8.0		31.4		91.6		7.3		1.7		4		-				-		-	
					Middle	8.2	0.3	49	17.0	17.0	8.0	8.0	31.4	31.4	90.6	90.6	7.3		1.4		2		-				-		-	
						8.2	0.3	50	17.0		8.0		31.4		90.6		7.3		1.4		3		-				-		-	
					Bottom	15.4	0.3	30	16.9	16.9	8.0	8.0	31.5	31.5	90.3	90.3	7.2	7.2	1.4		2		-				-		-	
						15.4	0.3	30	16.9		8.0		31.5		90.3		7.2		1.4		2		-				-		-	
SR8	Cloudy	Moderate	10:50	3.8	Surface	1.0	-	-	17.3	17.3	8.1	8.1	31.1	31.1	95.1	95.1	7.6	7.6	5.4	5.6	5	5	-	-	820246	811418	-	-	-	-
						1.0	-	-	17.3		8.1		31.1		95.1		7.6		5.4		4		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.8	-	-	17.4	17.4	8.1	8.1	31.0	31.0	92.7	92.7	7.4	7.4	5.7		4		-				-		-	
						2.8	-	-	17.4		8.1		31.0		92.7		7.4		5.7		6		-				-		-	

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

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

Water Quality Monitoring

Water Quality Monitoring Results on 27 February 18 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
C1	Cloudy	Moderate	06:14	8.4	Surface	1.0	0.3	48	16.9	16.9	8.1	8.1	32.5	32.5	102.9	102.9	8.2	8.2	10.7	13.5	8	10	73	75	815615	804242	<0.2	<0.2	1.0	1.0
						1.0	0.3	49	16.9		8.1		32.5		102.9		8.2		10.7		9		73				<0.2		1.0	
					Middle	4.2	0.4	51	16.9	16.9	8.1	8.1	32.5	32.5	102.2	102.2	8.1		14.0		10		75				<0.2		1.0	
						4.2	0.4	52	16.9		8.1		32.5		102.2		8.1		14.1		8		75				<0.2		1.1	
					Bottom	7.4	0.4	53	16.9	16.9	8.1	8.1	32.5	32.5	101.2	101.2	8.1	8.1	15.7		14		77				<0.2		1.0	
						7.4	0.4	54	16.9		8.1		32.5		101.2		8.1		15.7		13		77				<0.2		1.1	
C2	Cloudy	Moderate	06:55	11.8	Surface	1.0	0.3	336	17.4	17.4	8.0	8.0	29.8	29.8	97.0	97.0	7.8	7.8	8.0	7.9	7	9	73	74	825658	806971	<0.2	<0.2	1.9	1.7
						1.0	0.3	309	17.4		8.0		29.8		97.0		7.8		8.0		7		72				<0.2		1.8	
					Middle	5.9	0.3	341	17.4	17.4	8.0	8.0	29.9	29.9	96.4	96.4	7.7		7.8		10		73				<0.2		1.7	
						5.9	0.3	350	17.4		8.0		29.9		96.4		7.7		7.8		9		73				<0.2		1.7	
					Bottom	10.8	0.2	351	17.4	17.4	8.0	8.0	30.0	30.0	95.7	95.7	7.7	7.7	7.9		9		75				<0.2		1.6	
						10.8	0.3	323	17.4		8.0		30.0		95.7		7.7		7.9		10		75				<0.2		1.7	
C3	Cloudy	Moderate	05:00	11.3	Surface	1.0	0.5	265	17.1	17.1	8.0	8.0	31.2	31.2	93.3	93.3	7.5	7.5	3.6	4.1	5	5	73	75	822118	817786	<0.2	<0.2	1.1	1.0
						1.0	0.5	281	17.1		8.0		31.2		93.3		7.5		3.6		3		73				<0.2		1.0	
					Middle	5.7	0.4	263	17.1	17.1	8.0	8.0	31.2	31.2	92.9	92.9	7.4		4.8		3		75				<0.2		1.0	
						5.7	0.4	272	17.1		8.0		31.2		92.9		7.4		4.8		4		75				<0.2		1.1	
					Bottom	10.3	0.3	265	17.1	17.1	8.0	8.0	31.2	31.2	93.0	93.0	7.4	7.4	3.8		6		77				<0.2		1.0	
						10.3	0.3	271	17.1		8.0		31.2		93.0		7.4		3.8		7		77				<0.2		0.9	
IM1	Cloudy	Moderate	06:31	7.3	Surface	1.0	0.4	354	17.0	17.0	8.2	8.2	31.7	31.7	103.3	103.3	8.3	8.3	8.9	9.5	10	10	74	76	818375	806482	<0.2	<0.2	1.2	1.3
						1.0	0.4	326	17.0		8.2		31.7		103.3		8.3		8.9		10		74				<0.2		1.3	
					Middle	3.7	0.4	0	17.0	17.0	8.2	8.2	31.8	31.8	102.4	102.4	8.2		9.7		10		75				<0.2		1.1	
						3.7	0.4	0	17.0		8.2		31.8		102.4		8.2		9.7		9		76				<0.2		1.2	
					Bottom	6.3	0.3	357	17.0	17.0	8.2	8.2	31.8	31.8	100.6	100.6	8.0	8.0	9.9		9		77				<0.2		1.5	
						6.3	0.4	328	17.0		8.2		31.8		100.5		8.0		9.9		10		77				<0.2		1.2	
IM2	Cloudy	Moderate	06:36	8.0	Surface	1.0	0.4	31	17.0	17.0	8.2	8.2	31.5	31.5	103.1	103.1	8.2	8.2	11.1	14.2	10	12	74	76	818852	806189	<0.2	<0.2	1.4	1.3
						1.0	0.4	31	17.0		8.2		31.5		103.1		8.2		11.2		11		73				<0.2		1.4	
					Middle	4.0	0.4	33	17.0	17.0	8.2	8.2	31.5	31.5	102.5	102.5	8.2		13.0		12		75				<0.2		1.4	
						4.0	0.4	35	17.0		8.2		31.5		102.5		8.2		13.1		12		76				<0.2		1.2	
					Bottom	7.0	0.3	29	17.0	17.0	8.2	8.2	31.5	31.5	100.3	100.3	8.0	8.0	18.4		13		77				<0.2		1.2	
						7.0	0.3	30	17.0		8.2		31.5		100.2		8.0		18.4		14		78				<0.2		1.2	
IM3	Cloudy	Moderate	06:42	8.1	Surface	1.0	0.4	35	16.9	16.9	8.2	8.2	31.4	31.4	101.2	101.2	8.1	8.1	10.2	9.3	12	12	74	76	819417	806021	<0.2	<0.2	1.1	1.0
						1.0	0.4	35	16.9		8.2		31.4		101.2		8.1		10.3		11		74				<0.2		1.0	
					Middle	4.1	0.4	32	17.0	17.0	8.2	8.2	31.5	31.5	100.5	100.5	8.0		8.7		11		76				<0.2		1.0	
						4.1	0.4	34	17.0		8.2		31.5		100.5		8.0		8.8		11		76				<0.2		1.0	
					Bottom	7.1	0.2	39	17.0	17.0	8.2	8.2	32.1	32.1	99.2	99.2	7.9	7.9	8.9		13		77				<0.2		1.0	
						7.1	0.2	41	17.0		8.2		32.1		99.2		7.9		9.0		12		78				<0.2		1.0	
IM4	Cloudy	Moderate	06:50	7.6	Surface	1.0	0.4	1	16.9	16.9	8.2	8.2	31.4	31.4	102.0	102.0	8.2	8.2	11.3	13.9	14	13	73	76	819547	805057	<0.2	<0.2	1.2	1.1
						1.0	0.4	1	16.9		8.2		31.4		102.0		8.2		11.4		13		74				<0.2		1.2	
					Middle	3.8	0.4	3	17.0	17.0	8.2	8.2	31.4	31.4	101.4	101.4	8.1		13.2		14		76				<0.2		1.1	
						3.8	0.4	3	17.0		8.2		31.4		101.4		8.1		13.2		14		75				<0.2		1.1	
					Bottom	6.6	0.3	3	17.0	17.0	8.2	8.2	31.6	31.6	99.9	99.9	8.0	8.0	17.1		12		77				<0.2		1.2	
						6.6	0.3	3	17.0		8.2		31.6		99.9		8.0		17.1		12		78				<0.2		1.0	
IM5	Cloudy	Moderate	07:00	6.7	Surface	1.0	0.4	7	16.9	16.9	8.2	8.2	31.2	31.2	100.1	100.1	8.0	8.0	8.6	8.4	9	9	74	76	820575	804920	<0.2	<0.2	1.3	1.3
						1.0	0.4	7	16.9		8.2		31.2		100.1		8.0		8.4		8		74				<0.2		1.4	
					Middle	3.4	0.4	4	16.9	16.9	8.2	8.2	31.3	31.3	99.8	99.8	8.0		8.4		7		76				<0.2		1.3	
						3.4	0.4	4	16.9		8.2		31.3		99.8		8.0		8.4		8		76				<0.2		1.2	
					Bottom	5.7	0.3	356	16.9	16.9	8.2	8.2	32.2	32.2	98.8	98.8	7.9	7.9	8.4		11		78				<0.2		1.3	
						5.7	0.3	328	16.9		8.2		32.2		98.8		7.9		8.3		10		78				<0.2		1.2	
IM6	Cloudy	Moderate	07:08	6.8	Surface	1.0	0.2	40	16.9	16.9	8.2	8.2	31.3	31.3	100.4	100.5	8.1	8.1	9.6	9.2	8	7	74	76	821088	805820	<0.2	<0.2	1.1	1.2
						1.0	0.2	41	16.9		8.2		31.3		100.5		8.1		9.6		8		74				<0.2		1.2	
					Middle	3.4	0.3	27	16.9	16.9	8.2	8.2	31.8	31.8	100.6	100.6	8.0		8.8		8		75				<0.2		1.2	
						3.4	0.3	28	16.9		8.2		31.8		100.6		8.0		8.9		8		76				<0.2		1.3	
					Bottom	5.8	0.2	18	16.9	16.9	8.2	8.2	32.1	32.1	100.2	100.2	8.0	8.0	9.1		6		77				<0.2		1.2	
						5.8	0.3	18	16.9		8.2		32.1		100.2		8.0		9.1		6		78				<0.2		1.2	
IM7	Cloudy	Moderate	07:17	8.2	Surface	1.0	0.2	21	16.9	16.9	8.2	8.2	30.8	30.8	100.6	100.6	8.1	8.1	10.0	9.7	7	8	74	76	821354	806837	<0.2	<0.2	1.2	1.2
						1.0	0.2	21	16.9		8.2		30.8		100.6		8.1		10.0		8		74				<0.2		1.2	
					Middle	4.1	0.3	10	16.9	16.9	8.2	8.2	31.8	31.8	100.7	100.7	8.1		9.7		8		76				<0.2		1.1	
						4.1	0.3	10	16.9		8.2		31.8		100.7		8.0		9.7		7		75				<0.2		1.2	
					Bottom	7.2	0.3	12	16.9	16.9	8.2	8.2	31.9	31.9	99.3	99.3	7.9	7.9	9.3		7		77				<0.2		1.1	
						7.2	0.3	13	16.9		8.2		31.9		99.2		7.9		9.3		9		78				<0.2		1.1	
IM8	Cloudy	Moderate	06:30	8.0	Surface	1.0	0.3	343	17.2	17.2	8.1	8.1	30.3	30.3	97.0	97.0	7.8	7.8	11.1	11.2	9	9	73	74	821713	807814	<0.2	<0.2	1.3	1.4
						1.0	0.3	347	17.2		8.1		30.3		97.0		7.8		11.1		9		73				<0.2		1.4	
					Middle	4.0	0.3	11	17.2	17.2	8.1	8.1	30.4	30.4	96.7	96.7	7.8		11.3		8		75				<0.2		1.5	
						4.0	0.3	11	17.2		8.1		30.4		96.7		7.8		11.3		7		75				<0.2		1.4	
					Bottom	7.0	0.3	12	17.2	17.2	8.1	8.1	30.4	30.4	96.2	96.2	7.7	7.7	11.3		9		75				<0.2		1.3	
						7.0	0.3	12	17.2		8.1		30.4		96.2		7.7		11.3		9		75				<0.2		1.4	

DA: Depth-Averaged

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

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

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

Water Quality Monitoring

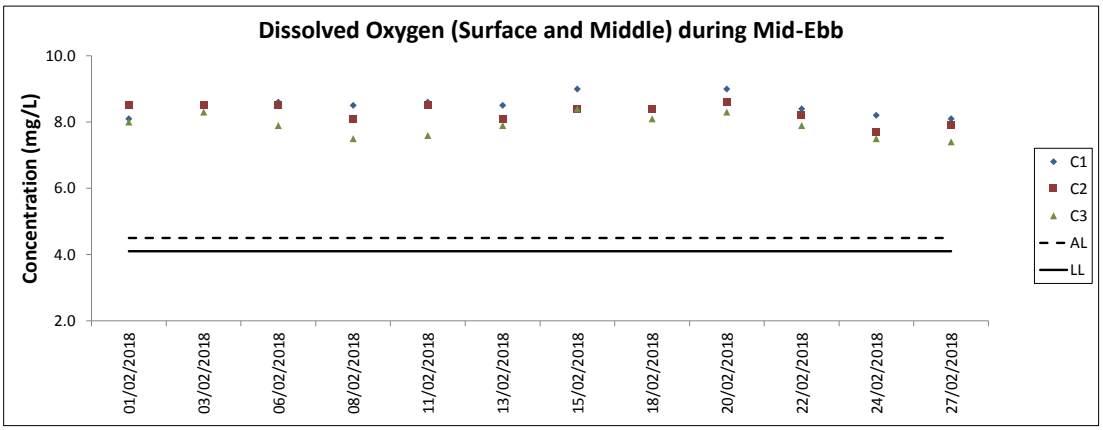
Water Quality Monitoring Results on 27 February 18 during Mid-Flood Tide

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	06:20	7.2	Surface	1.0	0.2	318	17.2	17.2	8.1	8.1	30.5	30.5	96.1	96.1	7.7	7.7	6.2	5.6	3	6	73	74	822067	808794	<0.2	<0.2	1.1	1.2
						1.0	0.2	319	17.2		8.1		30.5		96.1		7.7		6.2		3		73				<0.2		1.2	
					Middle	3.6	0.2	305	17.2	17.2	8.1	8.1	30.5	30.5	95.4	95.4	7.6		5.9		6		75				<0.2		1.3	
						3.6	0.2	321	17.2		8.1		30.5		95.3		7.6		5.1		6		75				<0.2		1.3	
					Bottom	6.2	0.2	304	17.2	17.2	8.0	8.0	30.6	30.6	94.2	94.2	7.5	7.5	5.0		8		73				<0.2		1.2	
						6.2	0.2	333	17.2		8.0		30.6		94.2		7.5		5.0		8		73				<0.2		1.3	
IM10	Cloudy	Moderate	06:13	7.4	Surface	1.0	0.4	299	17.3	17.3	8.1	8.1	30.9	30.9	98.1	98.1	7.8	7.8	5.5	6.5	5	6	73	75	822232	809819	<0.2	<0.2	1.1	1.1
						1.0	0.4	300	17.3		8.1		30.9		98.1		7.8		5.5		5		73				<0.2		1.0	
					Middle	3.7	0.4	310	17.3	17.3	8.1	8.1	30.9	30.9	97.8	97.8	7.8		6.3		6		75				<0.2		1.0	
						3.7	0.4	340	17.3		8.1		30.9		97.8		7.8		6.3		7		76				<0.2		1.1	
					Bottom	6.4	0.3	308	17.3	17.3	8.1	8.1	30.9	30.9	95.2	95.2	7.6	7.6	7.6		6		75				<0.2		1.1	
						6.4	0.3	308	17.3		8.1		30.9		95.2		7.6		7.6		6		76				<0.2		1.1	
IM11	Cloudy	Moderate	05:56	7.0	Surface	1.0	0.3	284	17.3	17.3	8.1	8.1	31.0	31.0	98.3	98.3	7.8	7.8	4.7	5.0	5	5	73	75	821480	810532	<0.2	<0.2	1.0	1.0
						1.0	0.3	288	17.3		8.1		31.0		98.3		7.8		4.7		4		73				<0.2		1.0	
					Middle	3.5	0.3	289	17.3	17.3	8.1	8.1	31.0	31.0	97.1	97.1	7.7		5.0		5		75				<0.2		1.0	
						3.5	0.3	293	17.3		8.1		31.0		97.1		7.7		5.0		4		75				<0.2		1.1	
					Bottom	6.0	0.3	290	17.3	17.3	8.1	8.1	31.0	31.0	95.8	95.8	7.6	7.6	5.2		4		77				<0.2		1.0	
						6.0	0.3	301	17.3		8.1		31.0		95.8		7.6		5.2		5		77				<0.2		1.1	
IM12	Cloudy	Moderate	05:49	7.2	Surface	1.0	0.6	280	17.3	17.3	8.1	8.1	31.1	31.1	97.9	97.9	7.8	7.8	12.2	14.4	8	12	73	74	821173	811491	<0.2	<0.2	0.9	1.0
						1.0	0.6	299	17.3		8.1		31.1		97.9		7.8		12.5		8		73				<0.2		1.1	
					Middle	3.6	0.5	281	17.3	17.3	8.1	8.1	31.1	31.1	97.0	97.0	7.7		14.0		9		74				<0.2		1.0	
						3.6	0.5	305	17.3		8.1		31.1		97.0		7.7		14.0		9		74				<0.2		1.0	
					Bottom	6.2	0.5	278	17.3	17.3	8.1	8.1	31.1	31.1	95.9	95.9	7.6	7.6	16.7		20		75				<0.2		1.0	
						6.2	0.5	278	17.3		8.1		31.1		95.9		7.6		16.7		18		76				<0.2		1.0	
SR2	Cloudy	Moderate	05:21	3.3	Surface	1.0	0.3	144	17.3	17.3	8.1	8.1	31.1	31.1	96.8	96.8	7.7	7.7	5.1	4.9	5	5	73	74	821443	814149	<0.2	<0.2	1.0	1.0
						1.0	0.3	153	17.3		8.1		31.1		96.8		7.7		5.1		5		73				<0.2		1.0	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.3	0.2	160	17.2	17.2	8.0	8.0	31.1	31.1	93.7	93.7	7.5	7.5	4.7		5		75				<0.2		0.9	
						2.3	0.2	161	17.2		8.0		31.1		93.7		7.5		4.7		4		76				<0.2		1.0	
SR3	Cloudy	Moderate	06:36	8.7	Surface	1.0	0.2	17	17.3	17.3	8.1	8.1	30.0	30.0	97.4	97.4	7.8	7.8	13.1	14.2	10	11	-	-	822154	807547	-	-	-	-
						1.0	0.2	17	17.3		8.1		30.0		97.4		7.8		13.1		10		-				-		-	
					Middle	4.4	0.3	24	17.3	17.3	8.1	8.1	30.0	30.0	96.8	96.8	7.8		13.9		9		-				-		-	
						4.4	0.3	25	17.3		8.1		30.0		96.8		7.8		13.9		11		-				-		-	
					Bottom	7.7	0.3	13	17.3	17.3	8.1	8.1	30.1	30.1	96.4	96.4	7.7	7.7	15.7		14		-				-		-	
						7.7	0.3	13	17.3		8.1		30.1		96.4		7.7		15.7		14		-				-		-	
SR4A	Cloudy	Calm	05:53	8.4	Surface	1.0	0.1	219	17.2	17.2	8.1	8.1	31.5	31.5	96.1	96.1	7.7	7.7	5.9	5.9	6	5	-	-	817204	807792	-	-	-	-
						1.0	0.1	230	17.2		8.1		31.5		96.1		7.7		5.9		4		-				-		-	
					Middle	4.2	0.1	221	17.2	17.2	8.1	8.1	31.5	31.5	95.8	95.8	7.6		5.9		4		-				-		-	
						4.2	0.1	226	17.2		8.1		31.5		95.7		7.6		5.9		5		-				-		-	
					Bottom	7.4	0.0	175	17.2	17.2	8.1	8.1	31.6	31.6	95.1	95.1	7.6	7.6	5.9		4		-				-		-	
						7.4	0.0	191	17.2		8.1		31.6		95.1		7.6		5.9		4		-				-		-	
SR5A	Cloudy	Calm	05:37	4.7	Surface	1.0	0.2	275	17.1	17.1	8.0	8.0	31.5	31.5	95.2	95.2	7.6	7.6	5.3	5.3	5	4	-	-	816594	810714	-	-	-	-
						1.0	0.2	279	17.1		8.0		31.5		95.2		7.6		5.2		4		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.7	0.2	281	17.1	17.1	8.1	8.1	31.5	31.5	94.8	94.8	7.6	7.6	5.3		4		-				-		-	
						3.7	0.2	287	17.1		8.1		31.5		94.8		7.6		5.3		4		-				-		-	
SR6	Cloudy	Calm	05:13	3.8	Surface	1.0	0.1	262	16.9	16.9	8.0	8.0	31.2	31.2	93.0	93.1	7.5	7.5	5.7	5.7	3	5	-	-	817921	814655	-	-	-	-
						1.0	0.1	276	16.9		8.0		31.2		93.1		7.5		5.7		3		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.8	0.1	263	16.9	16.9	8.0	8.0	31.2	31.2	94.9	95.0	7.6	7.6	5.6		6		-				-		-	
						2.8	0.1	264	16.9		8.0		31.2		95.0		7.6		5.6		6		-				-		-	
SR7	Cloudy	Moderate	04:23	16.8	Surface	1.0	0.2	51	17.0	17.0	8.0	8.0	31.3	31.3	92.9	92.9	7.4	7.4	1.6	1.5	3	3	-	-	823632	823713	-	-	-	-
						1.0	0.2	54	17.0		8.0		31.3		92.9		7.4		1.6		3		-				-		-	
					Middle	8.4	0.2	39	17.0	17.0	8.0	8.0	31.3	31.3	92.5	92.5	7.4		1.7		4		-				-		-	
						8.4	0.2	40	17.0		8.0		31.3		92.5		7.4		1.7		3		-				-		-	
					Bottom	15.8	0.2	29	17.0	17.0	8.0	8.0	31.4	31.4	92.9	92.9	7.4	7.4	1.3		2		-				-		-	
						15.8	0.2	29	17.0		8.0		31.4		92.9		7.4		1.3		3		-				-		-	
SR8	Cloudy	Moderate	05:39	4.8	Surface	1.0	-	-	17.3	17.3	8.1	8.1	30.8	30.8	97.0	97.0	7.8	7.8	3.0	3.4	4	4	-	-	820246	811418	-	-	-	-
						1.0	-	-	17.3		8.1		30.8		97.0		7.8		3.0		3		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.8	-	-	17.2	17.2	8.0	8.0	30.8	30.8	92.9	92.9	7.4	7.4	3.7		5		-				-		-	
						3.8	-	-	17.2		8.0		30.8		92.9		7.4		3.9		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**


Dissolved Oxygen (Surface and Middle) during Mid-Ebb
Concentration (mg/L)
10.0
8.0
6.0
4.0
2.0
01/02/2018
03/02/2018
06/02/2018
08/02/2018
11/02/2018
13/02/2018
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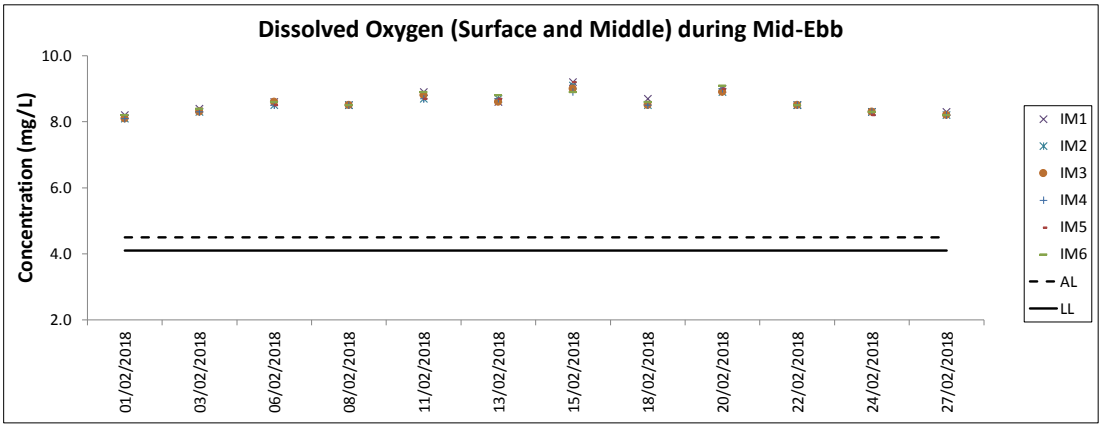
27/02/2018
C1
C2
C3
AL
LL


Dissolved Oxygen (Surface and Middle) during Mid-Ebb
Concentration (mg/L)
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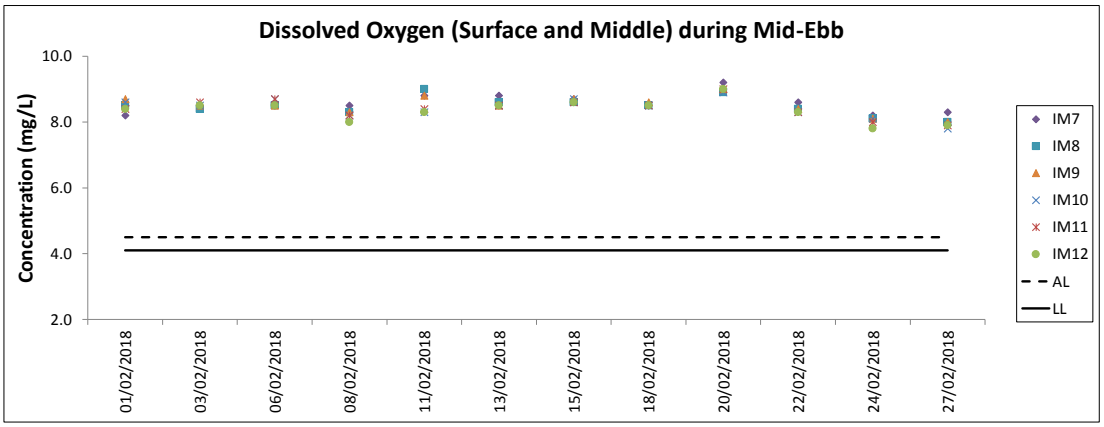
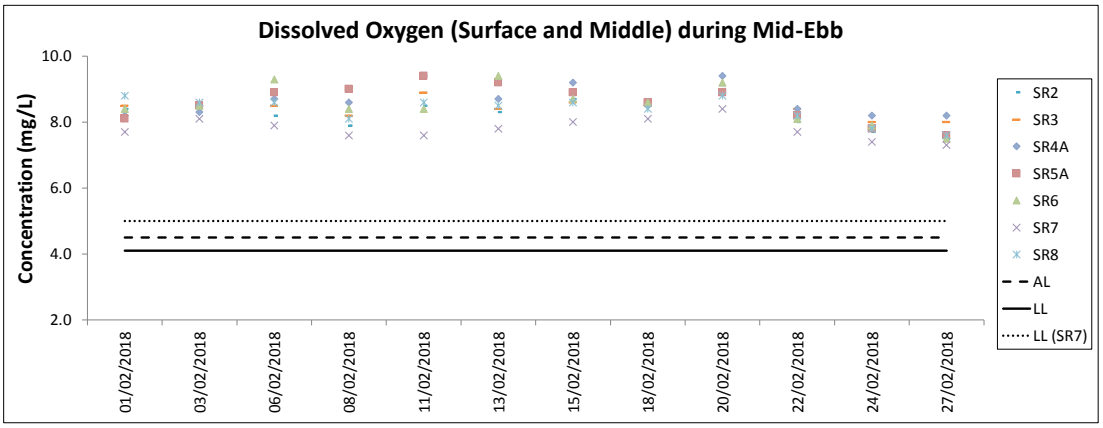
8.0
6.0
4.0
2.0
01/02/2018
03/02/2018
06/02/2018
08/02/2018
11/02/2018
13/02/2018
15/02/2018
18/02/2018
20/02/2018
22/02/2018
24/02/2018
27/02/2018
IM1
IM2
IM3
IM4
IM5
IM6
AL
LL


Dissolved Oxygen (Surface and Middle) during Mid-Ebb
Concentration (mg/L)
10.0
8.0
6.0
4.0
2.0
01/02/2018
03/02/2018
06/02/2018
08/02/2018
11/02/2018
13/02/2018
15/02/2018
18/02/2018
20/02/2018
22/02/2018
24/02/2018
27/02/2018
IM7
IM8
IM9
IM10
IM11
IM12
AL
LL


Dissolved Oxygen (Surface and Middle) during Mid-Ebb
Concentration (mg/L)
10.0
8.0
6.0
4.0
2.0
01/02/2018
03/02/2018
06/02/2018
08/02/2018
11/02/2018
13/02/2018
15/02/2018
18/02/2018
20/02/2018
22/02/2018
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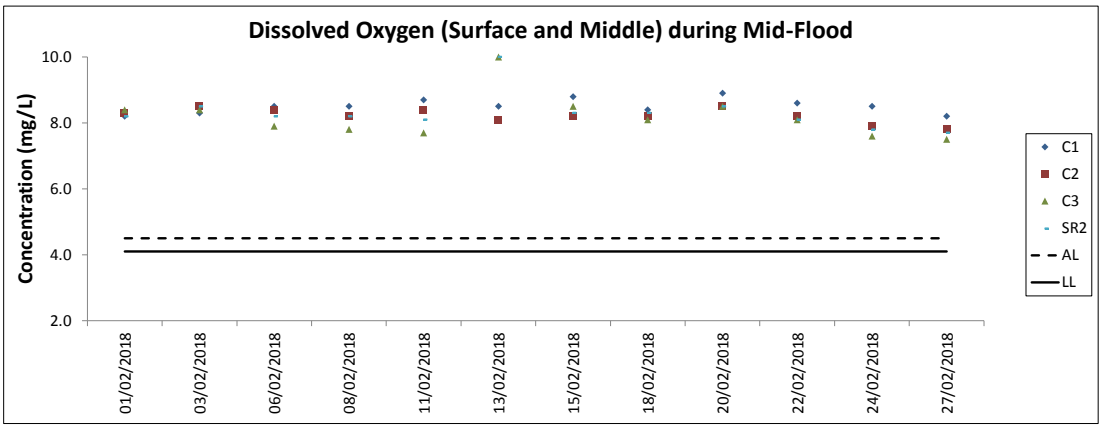
SR2
SR3
SR4A
SR5A
SR6
SR7
SR8
AL
LL
LL (SR7)


Dissolved Oxygen (Surface and Middle) during Mid-Flood
Concentration (mg/L)
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6.0
4.0
2.0
01/02/2018
03/02/2018
06/02/2018
08/02/2018
11/02/2018
13/02/2018
15/02/2018
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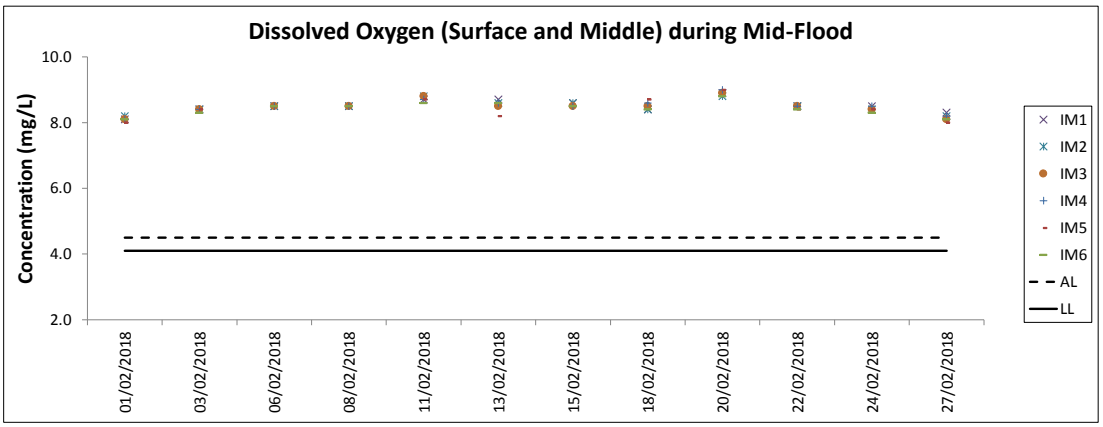
27/02/2018
C1
C2
C3
SR2
AL
LL


Dissolved Oxygen (Surface and Middle) during Mid-Flood
Concentration (mg/L)
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8.0
6.0
4.0
2.0
01/02/2018
03/02/2018
06/02/2018
08/02/2018
11/02/2018
13/02/2018
15/02/2018
18/02/2018
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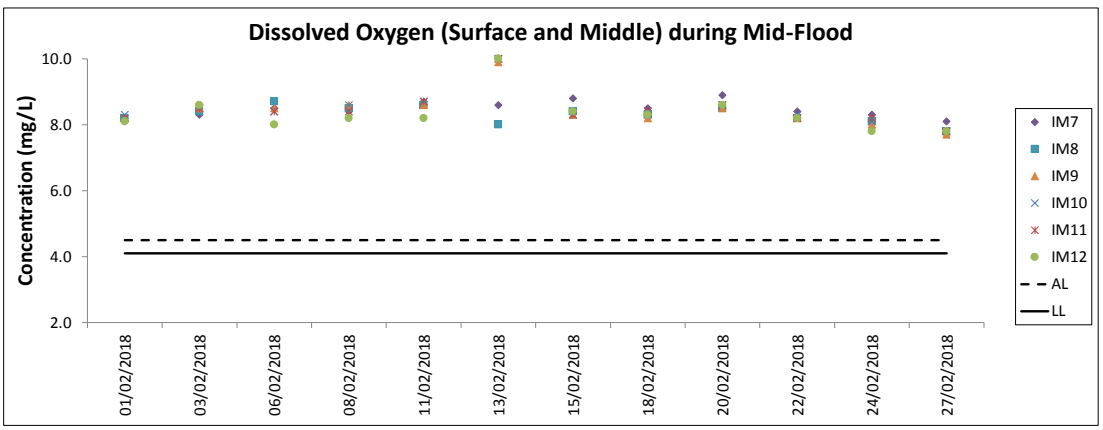
IM1
IM2
IM3
IM4
IM5
IM6
AL
LL


Dissolved Oxygen (Surface and Middle) during Mid-Flood
Concentration (mg/L)
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8.0
6.0
4.0
2.0
01/02/2018
03/02/2018
06/02/2018
08/02/2018
11/02/2018
13/02/2018
15/02/2018
18/02/2018
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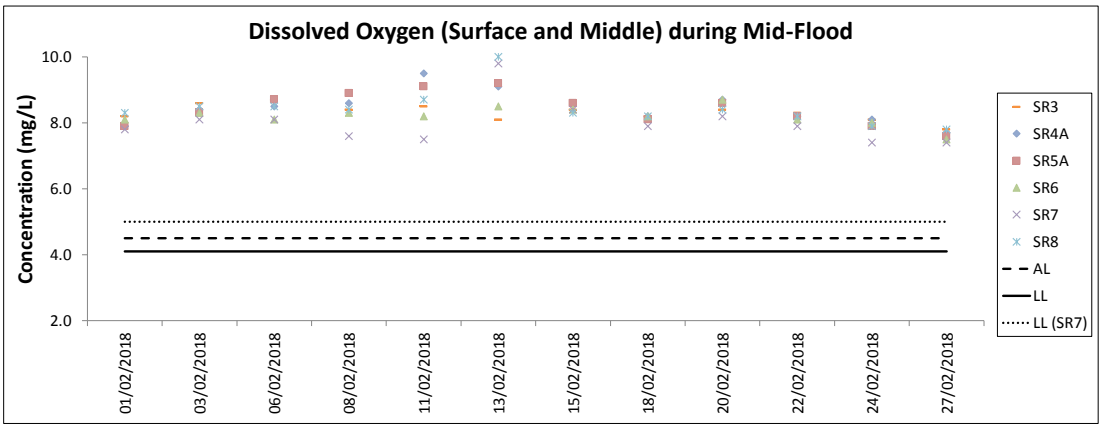
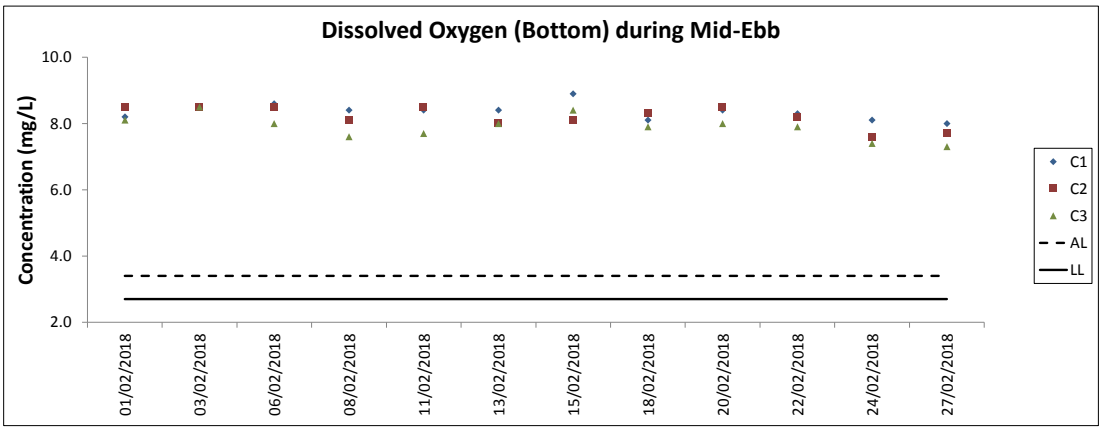
22/02/2018
24/02/2018
27/02/2018
IM7
IM8
IM9
IM10
IM11
IM12
AL
LL


Dissolved Oxygen (Surface and Middle) during Mid-Flood
Concentration (mg/L)
10.0
8.0
6.0
4.0
2.0
01/02/2018
03/02/2018
06/02/2018
08/02/2018
11/02/2018
13/02/2018
15/02/2018
18/02/2018
20/02/2018
22/02/2018
24/02/2018
27/02/2018
SR3
SR4A
SR5A
SR6
SR7
SR8
AL
LL
LL (SR7)


Dissolved Oxygen (Bottom) during Mid-Ebb
Concentration (mg/L)
10.0
8.0
6.0
4.0
2.0
01/02/2018
03/02/2018
06/02/2018
08/02/2018
11/02/2018
13/02/2018
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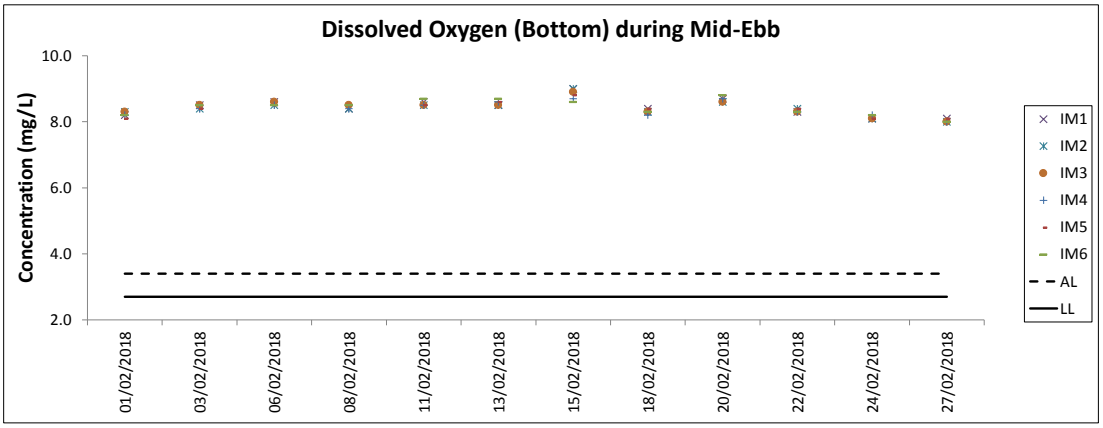
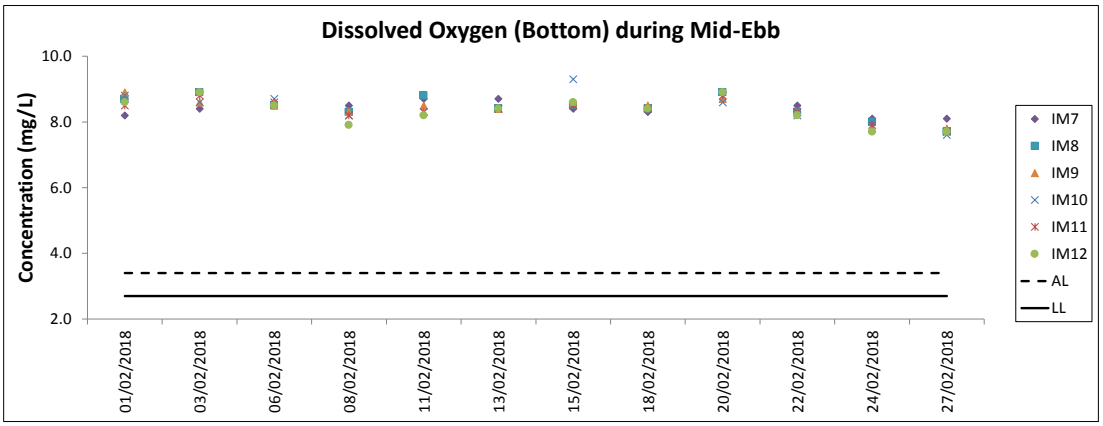
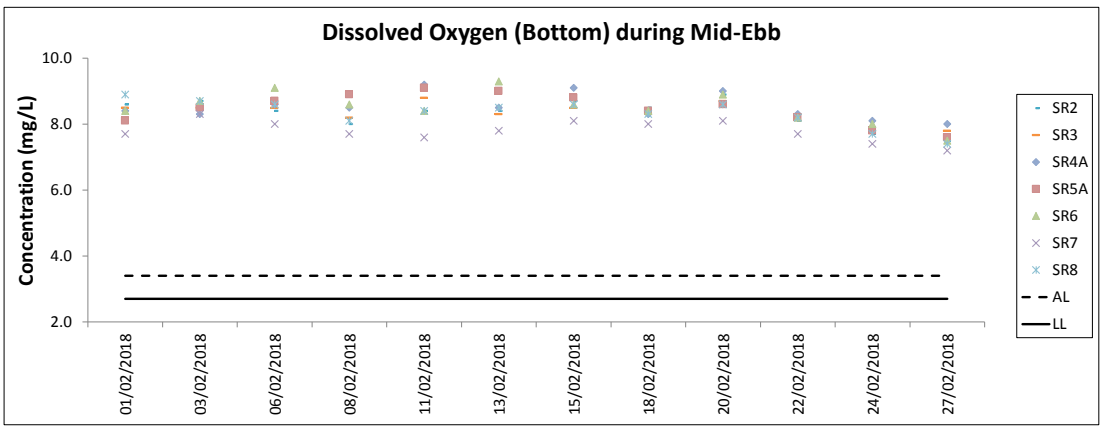
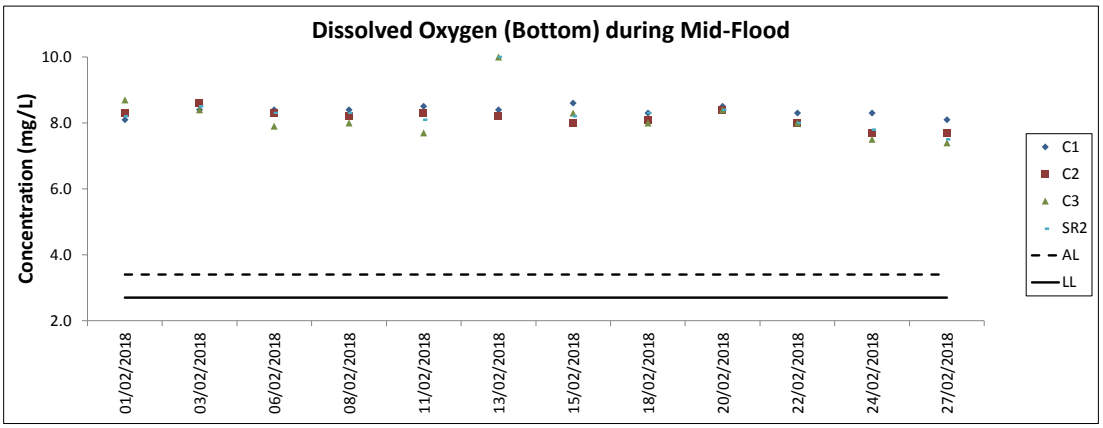
22/02/2018
24/02/2018
27/02/2018
C1
C2
C3
AL
LL


Dissolved Oxygen (Bottom) during Mid-Ebb
Concentration (mg/L)
10.0
8.0
6.0
4.0
2.0
01/02/2018
03/02/2018
06/02/2018
08/02/2018
11/02/2018
13/02/2018
15/02/2018
18/02/2018
20/02/2018
22/02/2018
24/02/2018
27/02/2018
IM1
IM2
IM3
IM4
IM5
IM6
AL
LL


Dissolved Oxygen (Bottom) during Mid-Ebb
Concentration (mg/L)
10.0
8.0
6.0
4.0
2.0
01/02/2018
03/02/2018
06/02/2018
08/02/2018
11/02/2018
13/02/2018
15/02/2018
18/02/2018
20/02/2018
22/02/2018
24/02/2018
27/02/2018
IM7
IM8
IM9
IM10
IM11
IM12
AL
LL


Dissolved Oxygen (Bottom) during Mid-Ebb
Concentration (mg/L)
10.0
8.0
6.0
4.0
2.0
01/02/2018
03/02/2018
06/02/2018
08/02/2018
11/02/2018
13/02/2018
15/02/2018
18/02/2018
20/02/2018
22/02/2018
24/02/2018
27/02/2018
SR2
SR3
SR4A
SR5A
SR6
SR7
SR8
AL
LL


Dissolved Oxygen (Bottom) during Mid-Flood
Concentration (mg/L)
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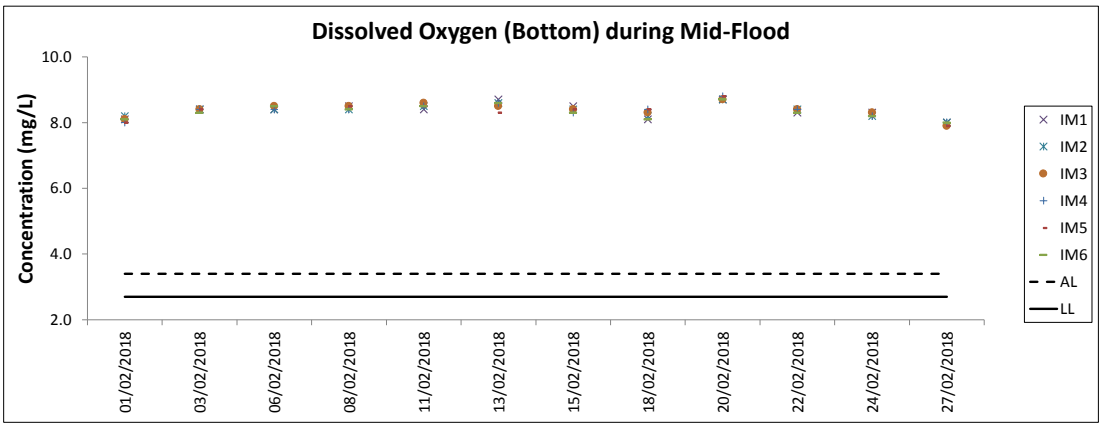
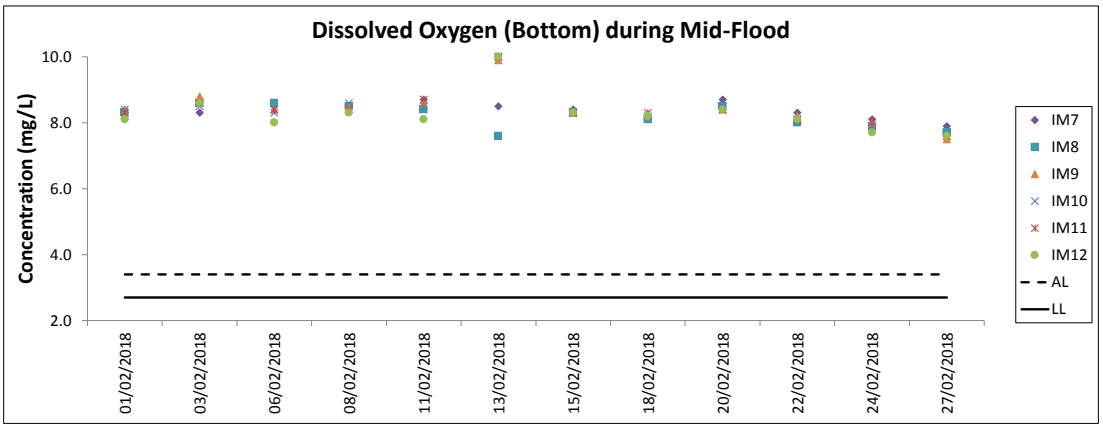
6.0
4.0
2.0
01/02/2018
03/02/2018
06/02/2018
08/02/2018
11/02/2018
13/02/2018
15/02/2018
18/02/2018
20/02/2018
22/02/2018
24/02/2018
27/02/2018
C1
C2
C3
SR2
AL
LL


Dissolved Oxygen (Bottom) during Mid-Flood
Concentration (mg/L)
10.0
8.0
6.0
4.0
2.0
01/02/2018
03/02/2018
06/02/2018
08/02/2018
11/02/2018
13/02/2018
15/02/2018
18/02/2018
20/02/2018
22/02/2018
24/02/2018
27/02/2018
IM1
IM2
IM3
IM4
IM5
IM6
AL
LL


Dissolved Oxygen (Bottom) during Mid-Flood
Concentration (mg/L)
10.0
8.0
6.0
4.0
2.0
01/02/2018
03/02/2018
06/02/2018
08/02/2018
11/02/2018
13/02/2018
15/02/2018
18/02/2018
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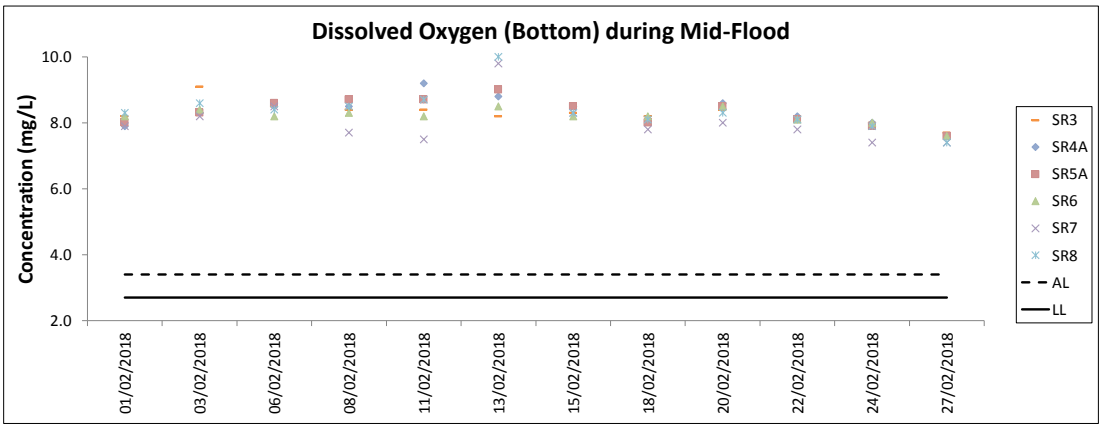
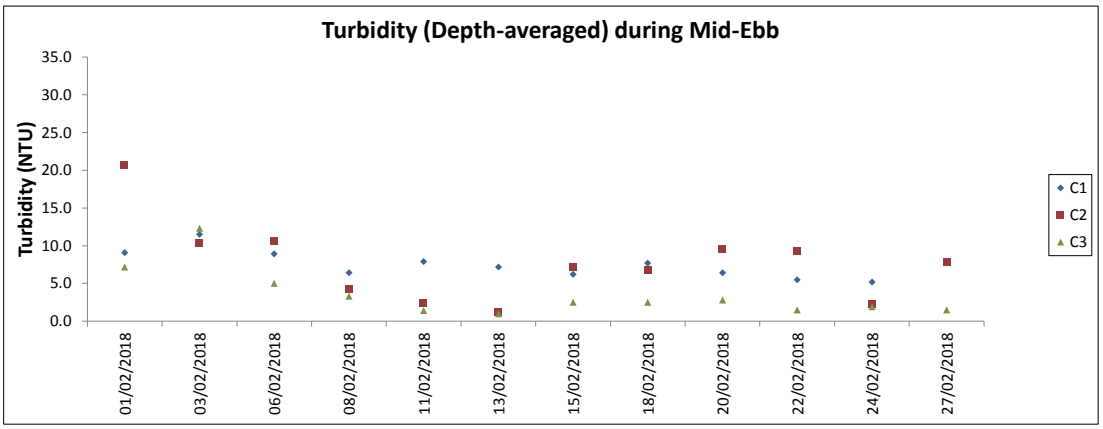
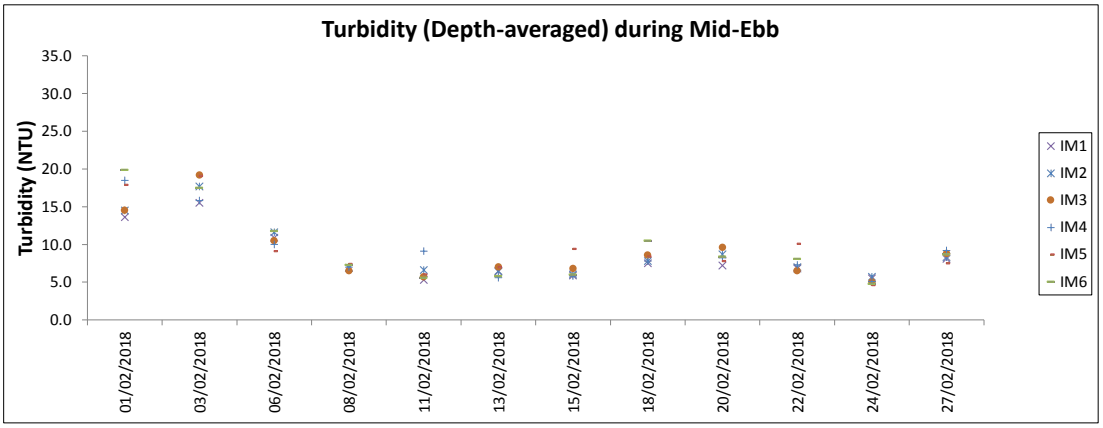
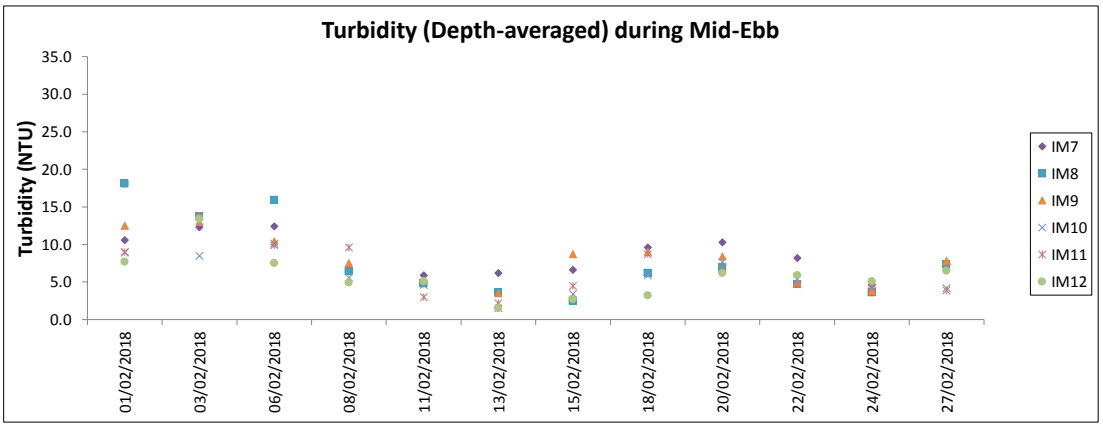
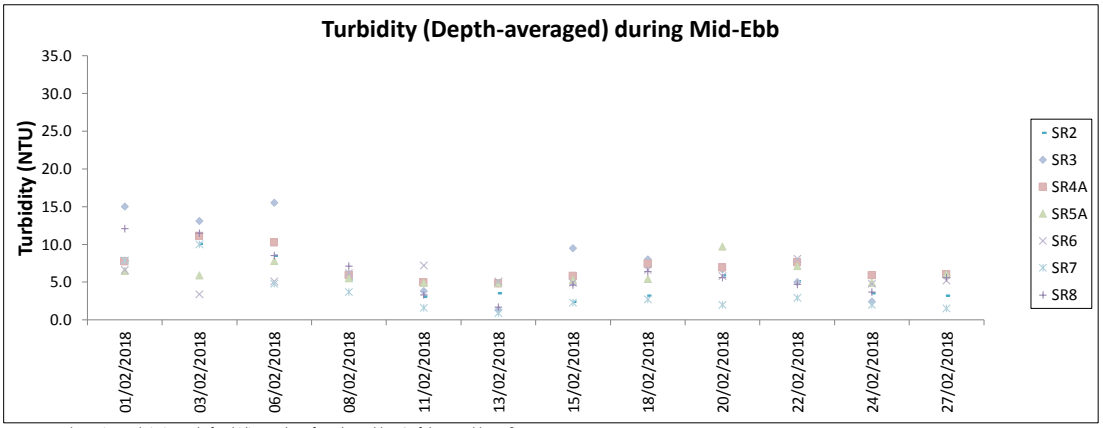
IM7
IM8
IM9
IM10
IM11
IM12
AL
LL


Dissolved Oxygen (Bottom) during Mid-Flood
Concentration (mg/L)
10.0
8.0
6.0
4.0
2.0
01/02/2018
03/02/2018
06/02/2018
08/02/2018
11/02/2018
13/02/2018
15/02/2018
18/02/2018
20/02/2018
22/02/2018
24/02/2018
27/02/2018
SR3
SR4A
SR5A
SR6
SR7
SR8
AL
LL

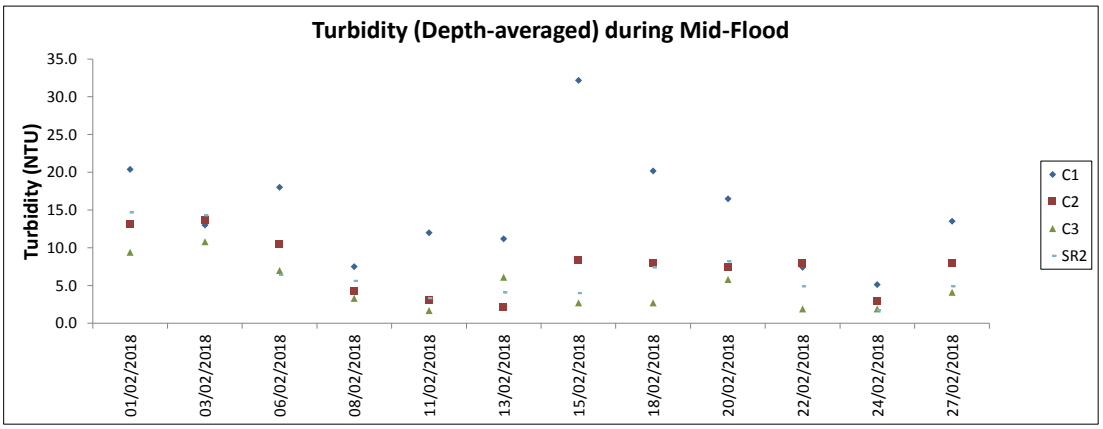


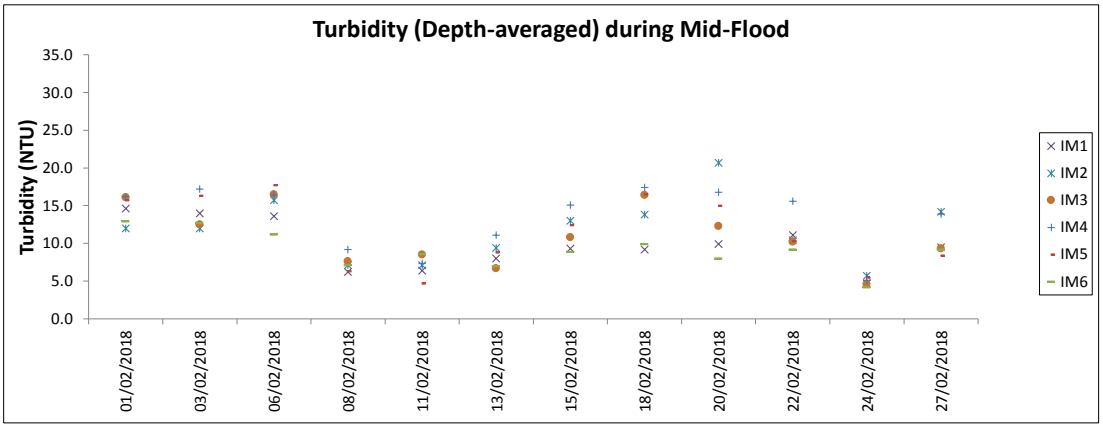


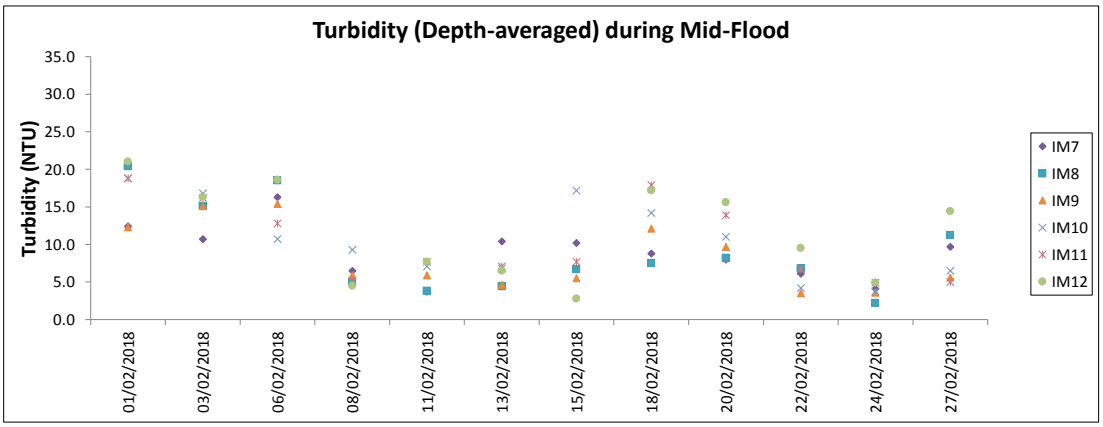


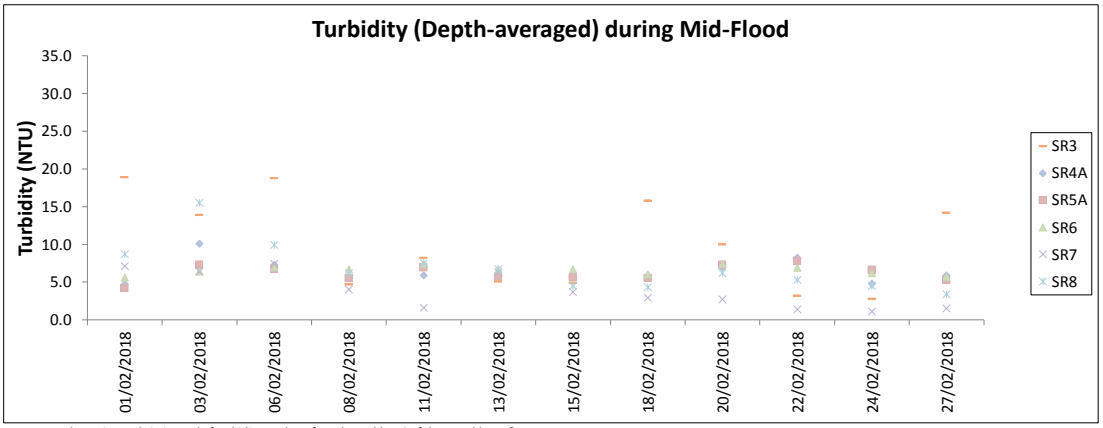


Note: The Action and Limit Level of turbidity can be referred to Table 4.2 of the monthly EM&A report.

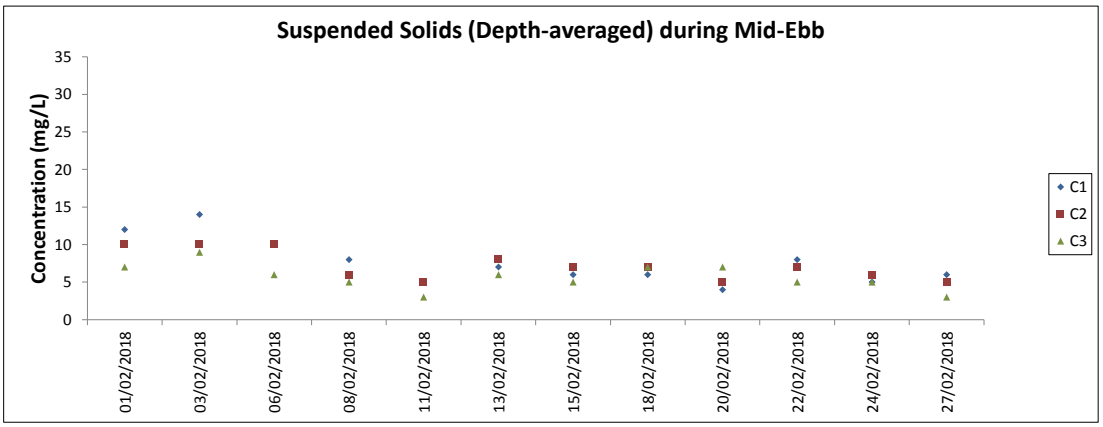


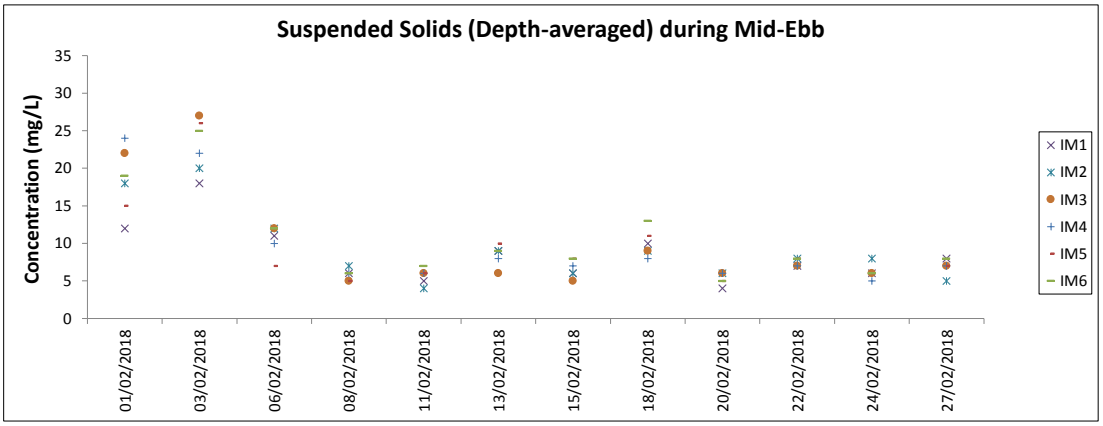


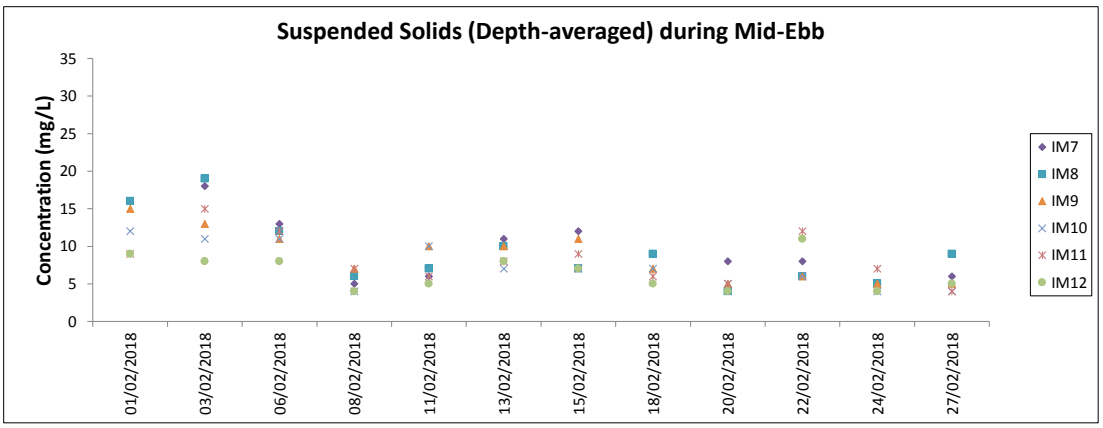


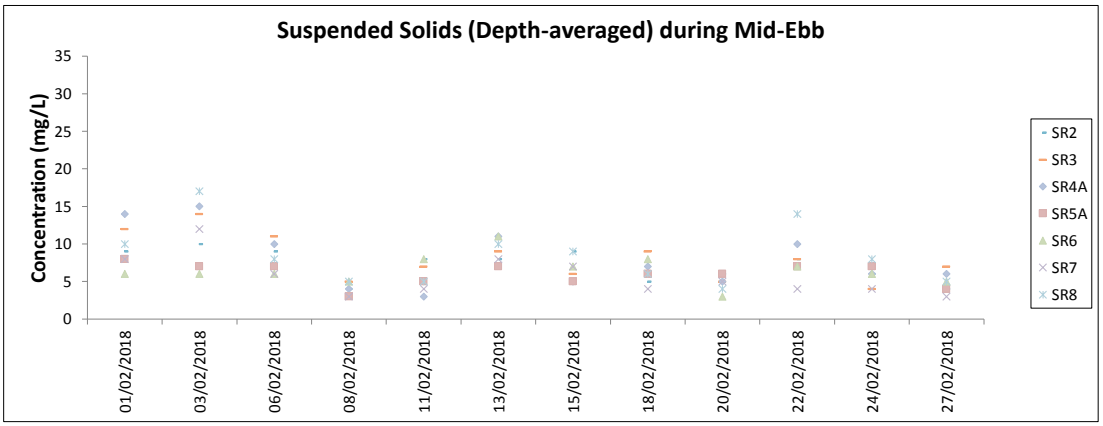


Note: The Action and Limit Level of turbidity can be referred to Table 4.2 of the monthly EM&A report.

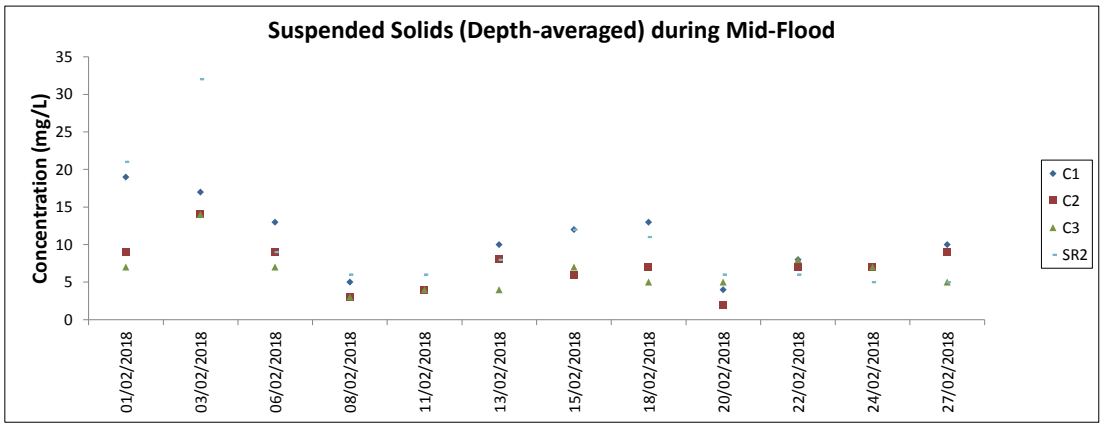


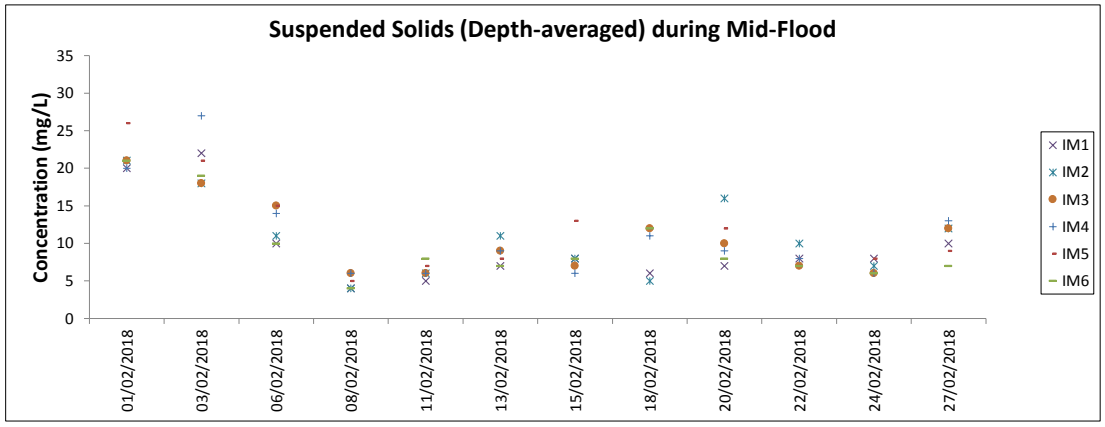


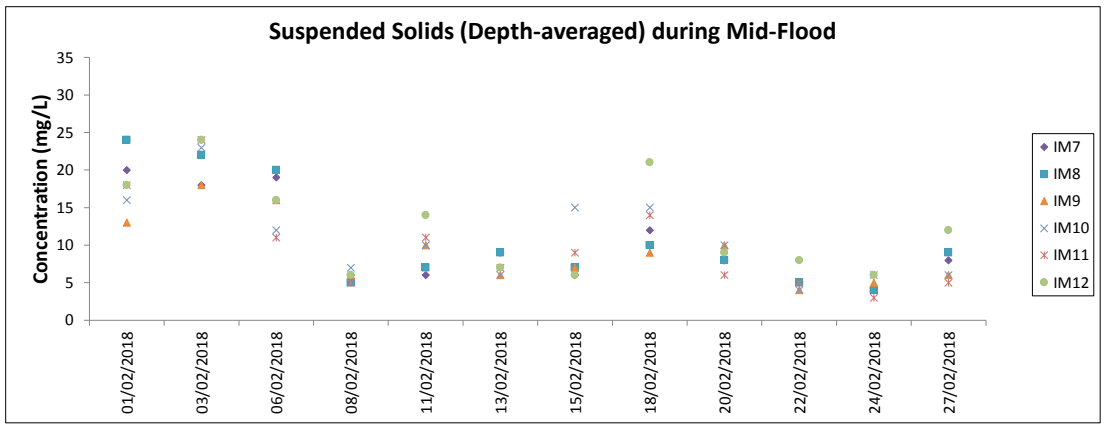


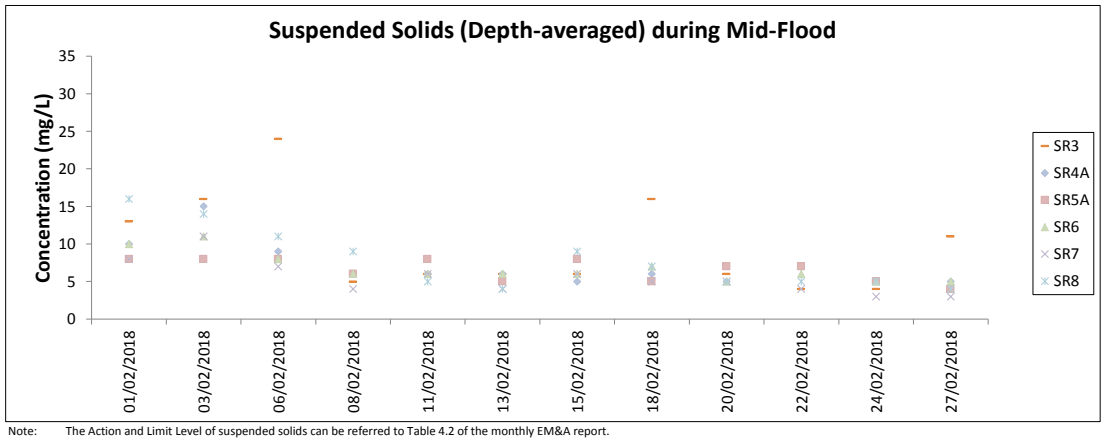


Note: The Action and Limit Level of suspended solids can be referred to Table 4.2 of the monthly EM&A report.

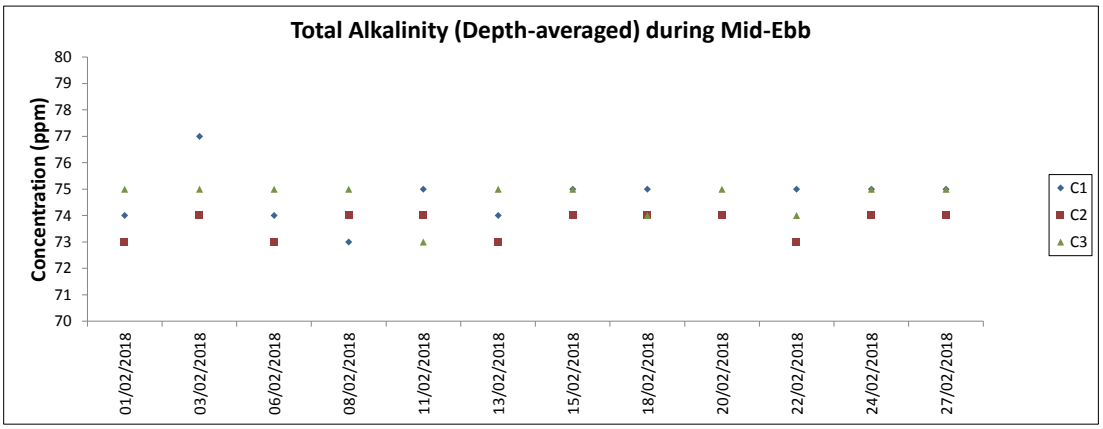


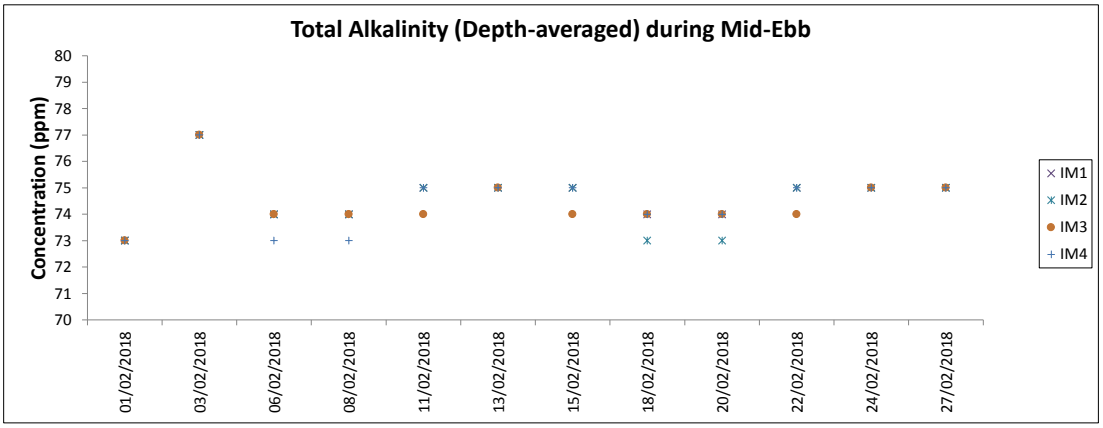


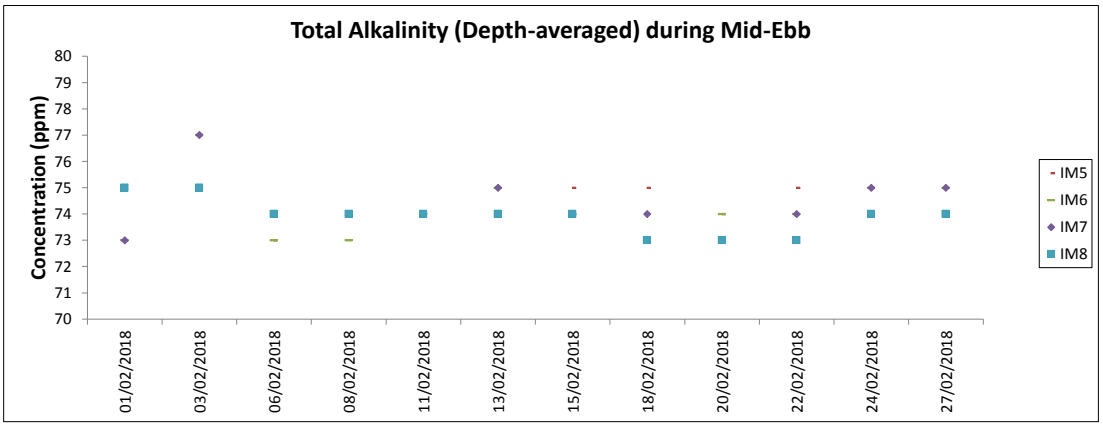


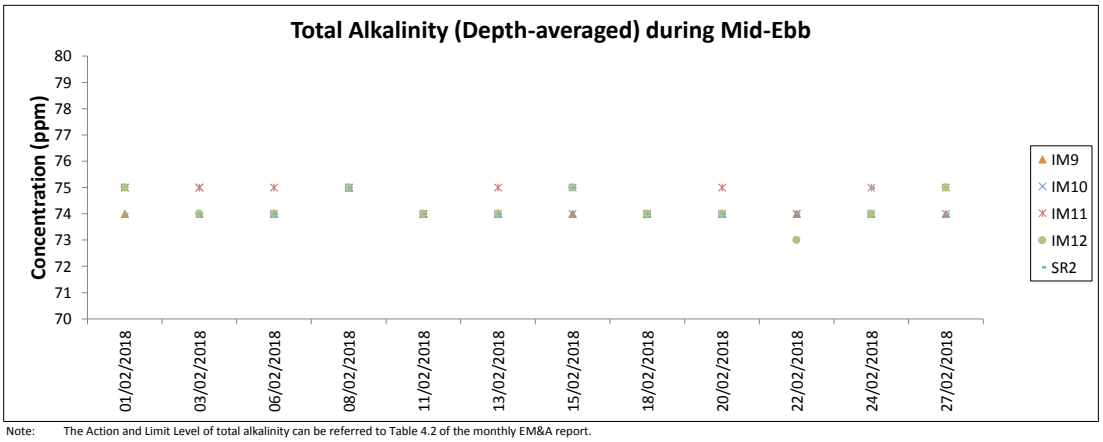


Note: The Action and Limit Level of suspended solids can be referred to Table 4.2 of the monthly EM&A report.

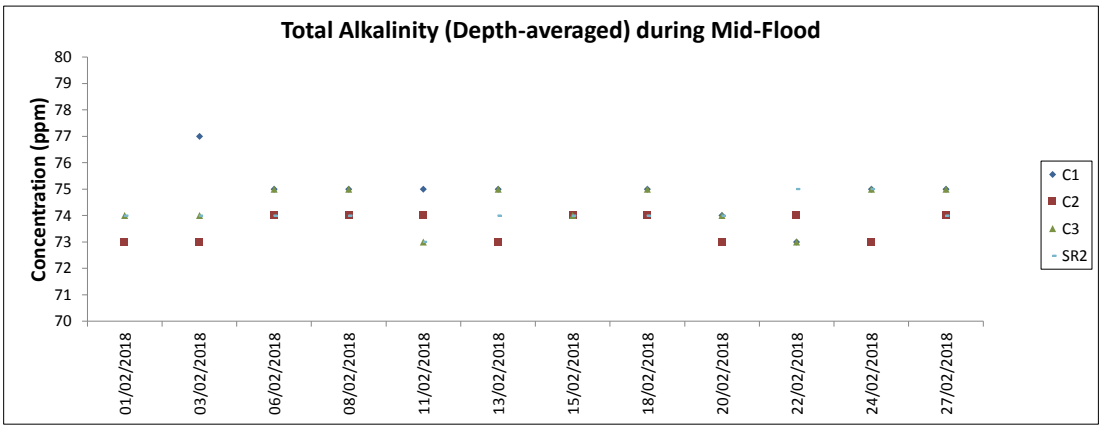


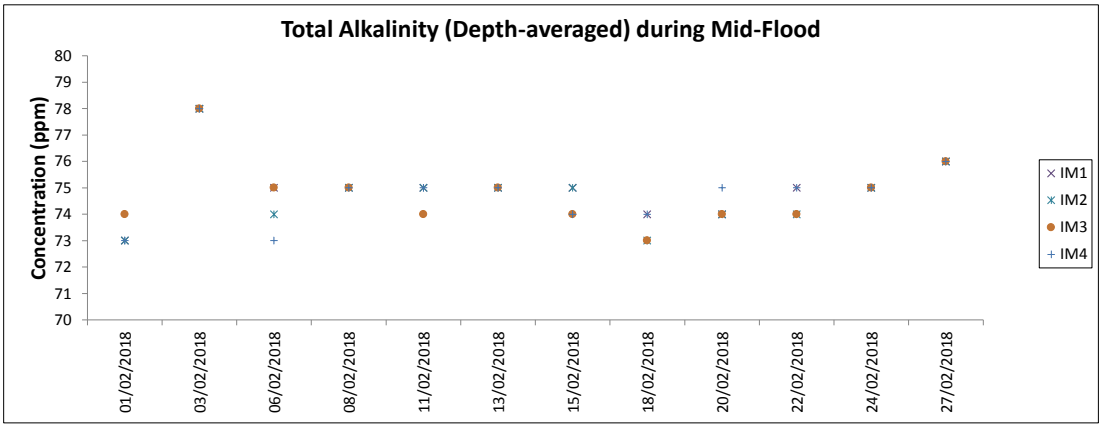


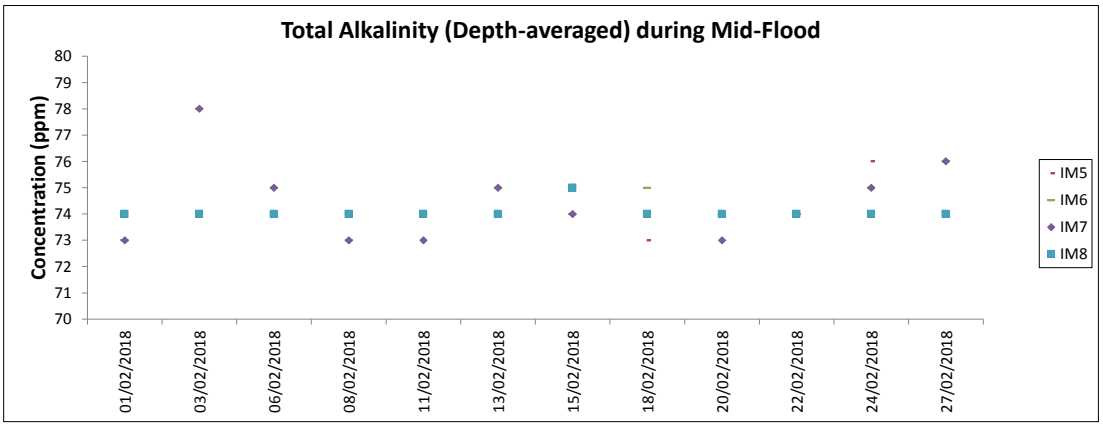


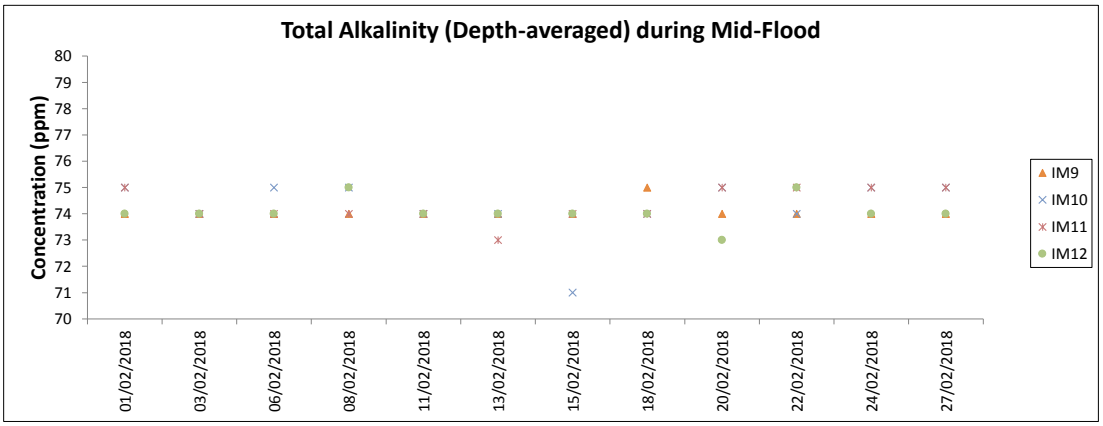


Note: The Action and Limit Level of total alkalinity can be referred to Table 4.2 of the monthly EM&A report.

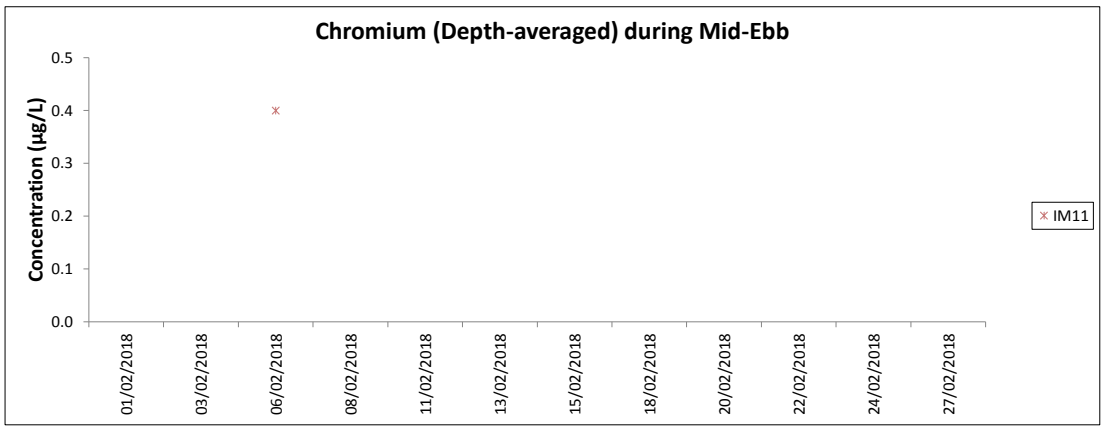


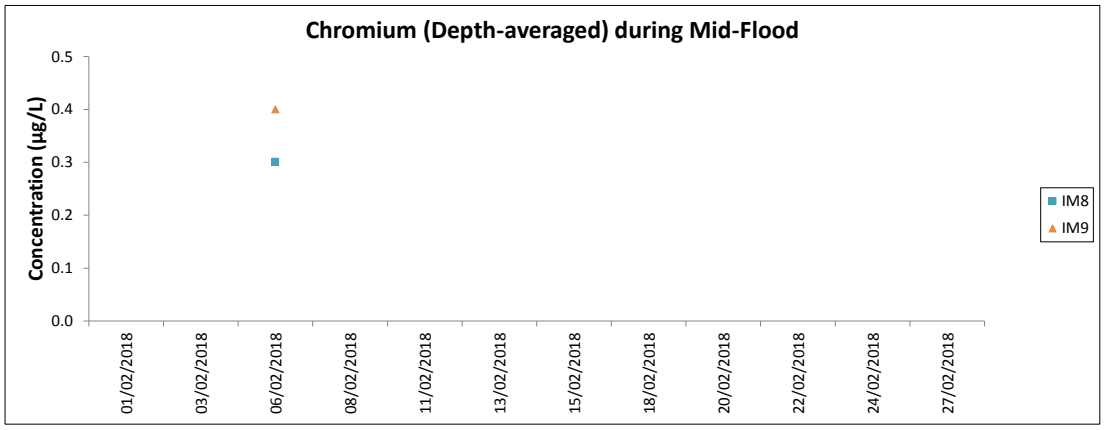






Note: The Action and Limit Level of total alkalinity can be referred to Table 4.2 of the monthly EM&A report.


Chromium (Depth-averaged) during Mid-Ebb
Concentration (µg/L)
0.5
0.4
0.3
0.2
0.1
0.0
01/02/2018
03/02/2018
06/02/2018
08/02/2018
11/02/2018
13/02/2018
15/02/2018
18/02/2018
20/02/2018
22/02/2018
24/02/2018
27/02/2018
IM11


Chromium (Depth-averaged) during Mid-Flood
Concentration (µg/L)
0.5
0.4
0.3
0.2
0.1
0.0
01/02/2018
03/02/2018
06/02/2018
08/02/2018
11/02/2018
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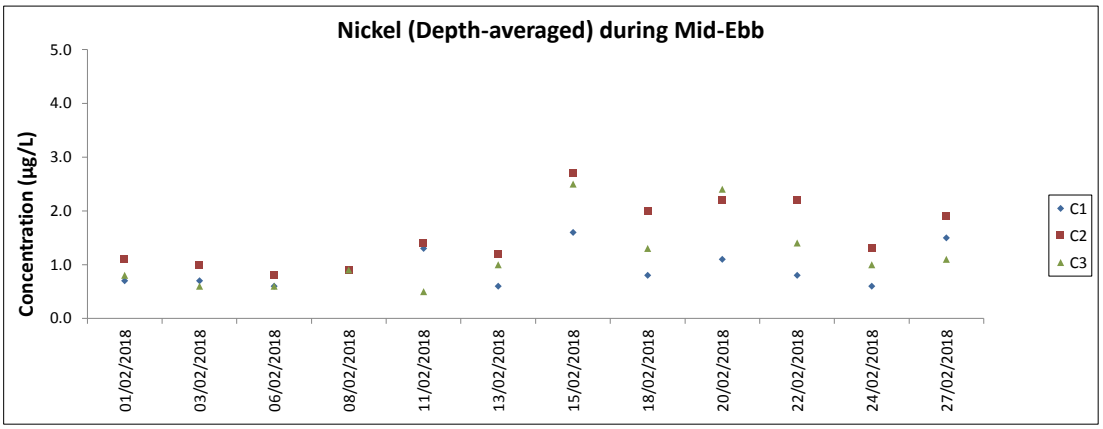
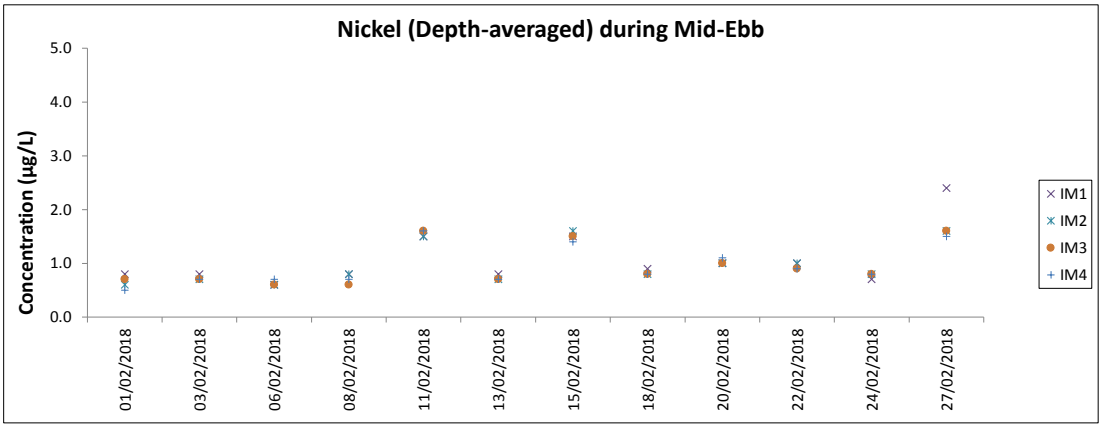
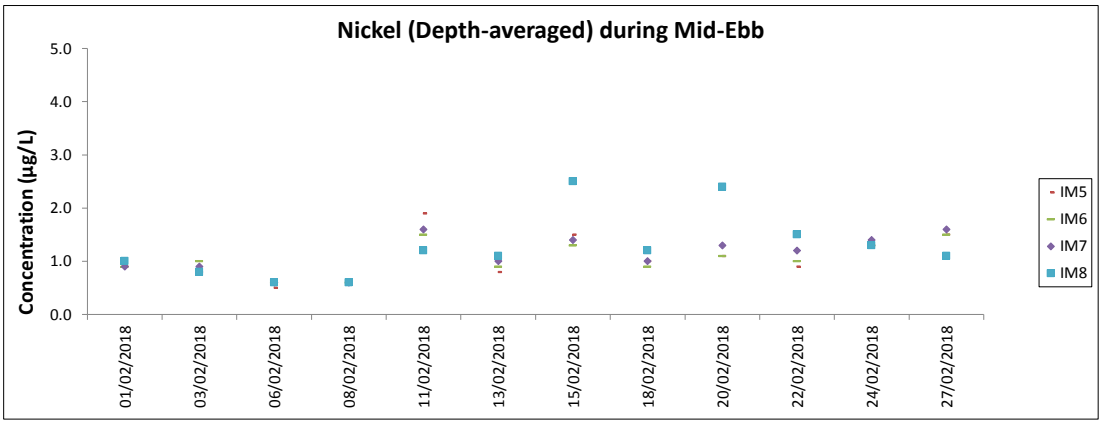
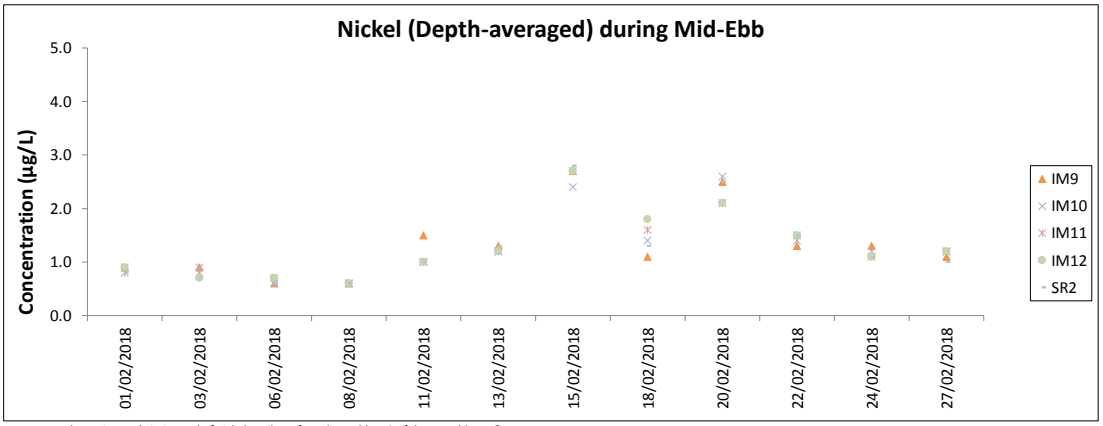
22/02/2018
24/02/2018
27/02/2018
IM8
IM9

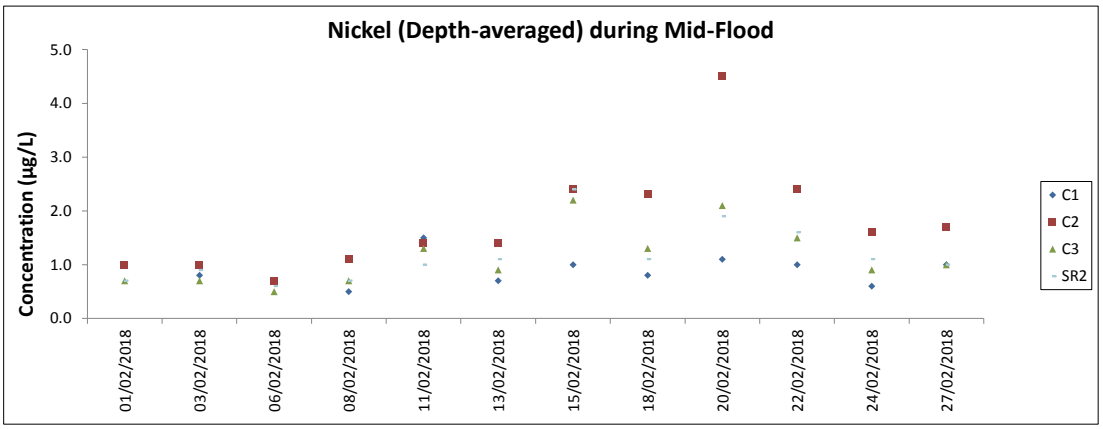


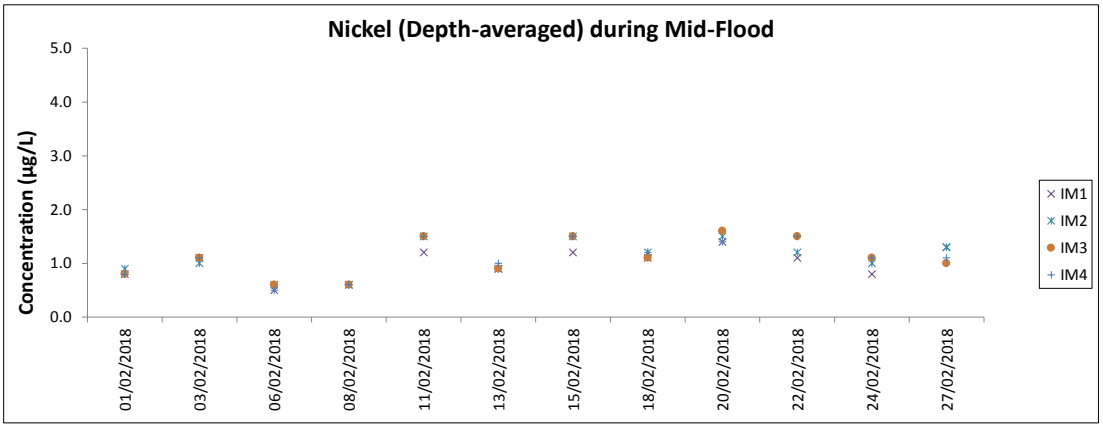


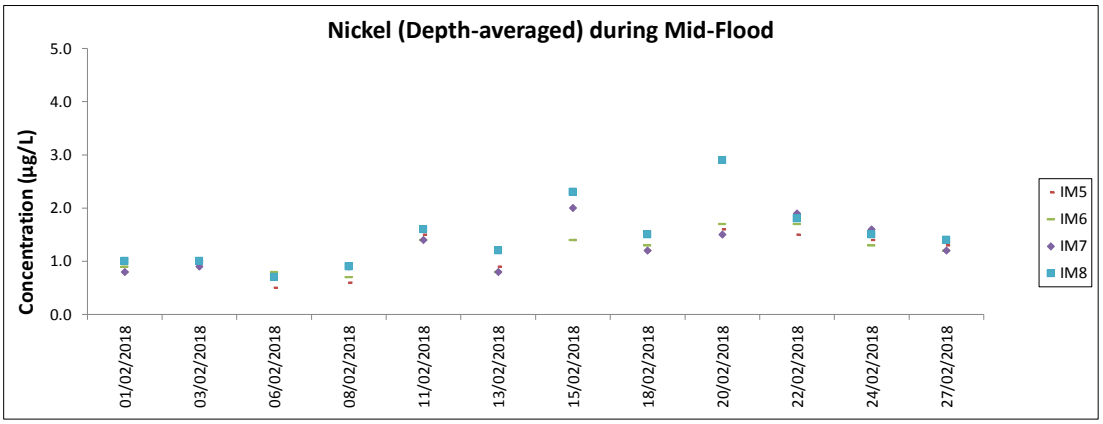


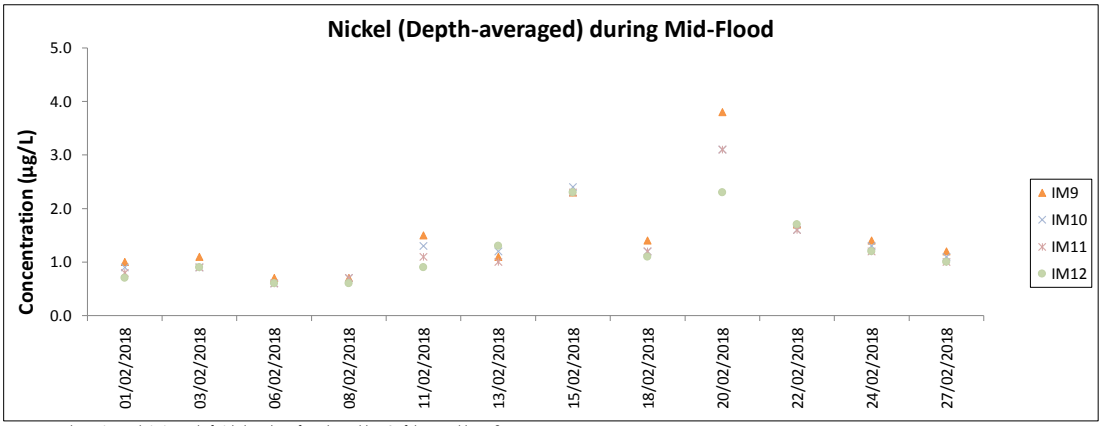


Note: The Action and Limit Level of nickel can be referred to Table 4.2 of the monthly EM&A report.









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

Chinese White Dolphin Monitoring Results

CWD Small Vessel Line-transect Survey — Survey Effort Data

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE
06-Dec-17	NWL	2	38.557	WINTER	32166	3RS ET
06-Dec-17	NWL	3	33.211	WINTER	32166	3RS ET
07-Dec-17	AW	2	4.662	WINTER	32166	3RS ET
07-Dec-17	WL	2	8.193	WINTER	32166	3RS ET
07-Dec-17	WL	3	25.630	WINTER	32166	3RS ET
07-Dec-17	SWL	2	1.930	WINTER	32166	3RS ET
07-Dec-17	SWL	3	4.795	WINTER	32166	3RS ET
08-Dec-17	SWL	3	27.200	WINTER	32166	3RS ET
08-Dec-17	SWL	4	23.990	WINTER	32166	3RS ET
08-Dec-17	SWL	5	11.760	WINTER	32166	3RS ET
13-Dec-17	NEL	2	46.600	WINTER	32166	3RS ET
14-Dec-17	NWL	2	63.690	WINTER	32166	3RS ET
14-Dec-17	NWL	3	11.210	WINTER	32166	3RS ET
18-Dec-17	SWL	3	10.240	WINTER	32166	3RS ET
18-Dec-17	SWL	4	35.830	WINTER	32166	3RS ET
18-Dec-17	SWL	5	17.000	WINTER	32166	3RS ET
21-Dec-17	NEL	2	10.490	WINTER	32166	3RS ET
21-Dec-17	NEL	3	25.110	WINTER	32166	3RS ET
21-Dec-17	NEL	4	10.900	WINTER	32166	3RS ET
28-Dec-17	AW	2	4.810	WINTER	32166	3RS ET
28-Dec-17	WL	2	32.373	WINTER	32166	3RS ET
28-Dec-17	WL	3	0.910	WINTER	32166	3RS ET
28-Dec-17	SWL	2	5.346	WINTER	32166	3RS ET
28-Dec-17	SWL	3	1.280	WINTER	32166	3RS ET
08-Jan-18	SWL	2	1.780	WINTER	32166	3RS ET
08-Jan-18	SWL	3	15.124	WINTER	32166	3RS ET
08-Jan-18	SWL	4	17.100	WINTER	32166	3RS ET
10-Jan-18	NEL	2	7.314	WINTER	32166	3RS ET
10-Jan-18	NEL	3	36.486	WINTER	32166	3RS ET
10-Jan-18	NEL	4	2.800	WINTER	32166	3RS ET
11-Jan-18	NEL	2	21.000	WINTER	32166	3RS ET
11-Jan-18	NEL	3	24.500	WINTER	32166	3RS ET
11-Jan-18	NEL	4	1.900	WINTER	32166	3RS ET
15-Jan-18	AW	2	4.691	WINTER	32166	3RS ET
15-Jan-18	WL	2	32.670	WINTER	32166	3RS ET
15-Jan-18	SWL	2	1.020	WINTER	32166	3RS ET
15-Jan-18	SWL	3	9.910	WINTER	32166	3RS ET
15-Jan-18	SWL	4	1.590	WINTER	32166	3RS ET
16-Jan-18	AW	2	4.820	WINTER	32166	3RS ET
16-Jan-18	WL	2	3.719	WINTER	32166	3RS ET
16-Jan-18	WL	3	29.681	WINTER	32166	3RS ET
16-Jan-18	SWL	2	14.580	WINTER	32166	3RS ET
16-Jan-18	SWL	3	14.510	WINTER	32166	3RS ET
17-Jan-18	SWL	1	12.768	WINTER	32166	3RS ET
17-Jan-18	SWL	2	38.865	WINTER	32166	3RS ET
17-Jan-18	SWL	3	9.180	WINTER	32166	3RS ET
17-Jan-18	SWL	4	1.600	WINTER	32166	3RS ET

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE
18-Jan-18	NWL	1	6.510	WINTER	32166	3RS ET
18-Jan-18	NWL	2	66.180	WINTER	32166	3RS ET
18-Jan-18	NWL	3	1.200	WINTER	32166	3RS ET
19-Jan-18	NWL	1	2.700	WINTER	32166	3RS ET
19-Jan-18	NWL	2	68.300	WINTER	32166	3RS ET
19-Jan-18	NWL	3	3.700	WINTER	32166	3RS ET
06-Feb-18	NWL	2	10.500	WINTER	32166	3RS ET
06-Feb-18	NWL	3	51.794	WINTER	32166	3RS ET
06-Feb-18	NWL	4	13.389	WINTER	32166	3RS ET
07-Feb-18	NEL	1	9.800	WINTER	32166	3RS ET
07-Feb-18	NEL	2	37.100	WINTER	32166	3RS ET
12-Feb-18	NWL	2	7.850	WINTER	32166	3RS ET
12-Feb-18	NWL	3	62.380	WINTER	32166	3RS ET
12-Feb-18	NWL	4	4.890	WINTER	32166	3RS ET
13-Feb-18	AW	2	4.800	WINTER	32166	3RS ET
13-Feb-18	WL	2	17.744	WINTER	32166	3RS ET
13-Feb-18	WL	3	9.140	WINTER	32166	3RS ET
13-Feb-18	WL	4	5.970	WINTER	32166	3RS ET
13-Feb-18	SWL	5	6.830	WINTER	32166	3RS ET
14-Feb-18	AW	2	4.620	WINTER	32166	3RS ET
14-Feb-18	WL	2	27.499	WINTER	32166	3RS ET
14-Feb-18	WL	3	2.810	WINTER	32166	3RS ET
14-Feb-18	WL	4	1.420	WINTER	32166	3RS ET
14-Feb-18	SWL	4	6.860	WINTER	32166	3RS ET
21-Feb-18	SWL	2	28.770	WINTER	32166	3RS ET
21-Feb-18	SWL	3	25.830	WINTER	32166	3RS ET
21-Feb-18	SWL	4	7.600	WINTER	32166	3RS ET
22-Feb-18	NEL	2	8.700	WINTER	32166	3RS ET
22-Feb-18	NEL	3	36.900	WINTER	32166	3RS ET
22-Feb-18	NEL	4	1.300	WINTER	32166	3RS ET
23-Feb-18	SWL	2	1.640	WINTER	32166	3RS ET
23-Feb-18	SWL	3	60.860	WINTER	32166	3RS ET

Notes:

CWD monitoring survey data of the two preceding survey months (i.e. December 2017 and January 2018) 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-Dec-17	1	1031	CWD	12	NWL	3	630	ON	3RS ET	22.2881	113.8684	WINTER	NONE
06-Dec-17	2	1113	CWD	4	NWL	3	100	ON	3RS ET	22.2719	113.8692	WINTER	NONE
06-Dec-17	3	1132	CWD	7	NWL	2	137	ON	3RS ET	22.2727	113.8733	WINTER	NONE
06-Dec-17	4	1236	CWD	5	NWL	3	494	ON	3RS ET	22.3596	113.8777	WINTER	NONE
06-Dec-17	5	1350	CWD	3	NWL	2	13	ON	3RS ET	22.3551	113.8848	WINTER	NONE
07-Dec-17	1	0929	CWD	5	AW	2	145	ON	3RS ET	22.3023	113.8765	WINTER	NONE
07-Dec-17	2	1058	CWD	3	WL	2	146	ON	3RS ET	22.2694	113.8601	WINTER	NONE
07-Dec-17	3	1126	CWD	1	WL	2	46	ON	3RS ET	22.2653	113.8580	WINTER	NONE
07-Dec-17	4	1238	CWD	3	WL	3	194	ON	3RS ET	22.2204	113.8146	WINTER	NONE
07-Dec-17	5	1407	CWD	2	WL	3	530	ON	3RS ET	22.1855	113.8498	WINTER	NONE
08-Dec-17	1	1213	FP	1	SWL	3	61	ON	3RS ET	22.1481	113.9173	WINTER	NONE
08-Dec-17	2	1258	CWD	1	SWL	5	343	ON	3RS ET	22.2053	113.9070	WINTER	NONE
14-Dec-17	1	1204	CWD	7	NWL	2	765	ON	3RS ET	22.3952	113.8884	WINTER	NONE
14-Dec-17	2	1327	CWD	2	NWL	3	127	ON	3RS ET	22.3888	113.8974	WINTER	NONE
18-Dec-17	1	1056	FP	2	SWL	4	135	ON	3RS ET	22.1511	113.9358	WINTER	NONE
28-Dec-17	1	1044	CWD	1	WL	3	216	ON	3RS ET	22.2559	113.8364	WINTER	NONE
28-Dec-17	2	1102	CWD	3	WL	2	34	ON	3RS ET	22.2541	113.8354	WINTER	NONE
28-Dec-17	3	1146	CWD	4	WL	2	82	ON	3RS ET	22.2318	113.8249	WINTER	NONE
28-Dec-17	4	1244	CWD	4	WL	2	106	ON	3RS ET	22.2146	113.8276	WINTER	NONE
28-Dec-17	5	1303	CWD	3	WL	2	100	ON	3RS ET	22.2055	113.8302	WINTER	NONE
28-Dec-17	6	1322	CWD	2	WL	2	306	ON	3RS ET	22.2024	113.8215	WINTER	NONE
28-Dec-17	7	1332	CWD	3	WL	2	N/A	OFF	3RS ET	22.2030	113.8213	WINTER	NONE
28-Dec-17	8	1428	CWD	3	SWL	2	1182	ON	3RS ET	22.1918	113.8586	WINTER	NONE
08-Jan-18	1	1019	CWD	5	SWL	2	30	ON	3RS ET	22.2153	113.9359	WINTER	PURSE SEINE
15-Jan-18	1	0949	CWD	11	AW	2	72	ON	3RS ET	22.2896	113.8777	WINTER	NONE
15-Jan-18	2	1048	CWD	2	WL	2	147	ON	3RS ET	22.2938	113.8616	WINTER	NONE
15-Jan-18	3	1128	CWD	13	WL	2	817	ON	3RS ET	22.2602	113.8400	WINTER	GILLNET
15-Jan-18	4	1217	CWD	2	WL	2	206	ON	3RS ET	22.2418	113.8359	WINTER	GILLNET
15-Jan-18	5	1242	CWD	3	WL	2	309	ON	3RS ET	22.2281	113.8377	WINTER	NONE
15-Jan-18	6	1316	CWD	2	WL	2	65	ON	3RS ET	22.2145	113.8313	WINTER	NONE
15-Jan-18	7	1335	CWD	6	WL	2	281	ON	3RS ET	22.2053	113.8346	WINTER	NONE

DATE	STG #	TIME	CWD/FP	GP SZ	AREA	BEAU	PSD	EFFORT	TYPE	DEC LAT	DEC LON	SEASON	BOAT ASSOC.
15-Jan-18	8	1405	CWD	9	WL	2	179	ON	3RS ET	22.1958	113.8350	WINTER	NONE
15-Jan-18	9	1432	CWD	3	WL	2	5	ON	3RS ET	22.1873	113.8318	WINTER	NONE
15-Jan-18	10	1453	CWD	2	SWL	2	248	ON	3RS ET	22.1841	113.8501	WINTER	NONE
16-Jan-18	1	0944	CWD	1	AW	2	79	ON	3RS ET	22.2880	113.8842	WINTER	NONE
16-Jan-18	2	1032	CWD	2	WL	3	74	ON	3RS ET	22.2687	113.8541	WINTER	NONE
16-Jan-18	3	1448	CWD	1	SWL	2	191	ON	3RS ET	22.1746	113.8975	WINTER	NONE
17-Jan-18	1	1045	FP	2	SWL	2	813	ON	3RS ET	22.1681	113.9359	WINTER	NONE
17-Jan-18	2	1057	FP	1	SWL	2	N/A	OFF	3RS ET	22.1529	113.9358	WINTER	NONE
17-Jan-18	3	1106	FP	1	SWL	1	372	ON	3RS ET	22.1437	113.9272	WINTER	NONE
17-Jan-18	4	1152	FP	1	SWL	2	140	ON	3RS ET	22.1835	113.9203	WINTER	NONE
17-Jan-18	5	1244	CWD	2	SWL	2	43	ON	3RS ET	22.1907	113.9078	WINTER	NONE
17-Jan-18	6	1457	CWD	1	SWL	2	149	ON	3RS ET	22.1874	113.8683	WINTER	NONE
17-Jan-18	7	1512	CWD	6	SWL	2	533	ON	3RS ET	22.1937	113.8687	WINTER	NONE
18-Jan-18	1	0933	CWD	4	NWL	2	451	ON	3RS ET	22.4000	113.8681	WINTER	NONE
18-Jan-18	2	1017	CWD	4	NWL	1	362	ON	3RS ET	22.3321	113.8689	WINTER	NONE
18-Jan-18	3	1044	CWD	4	NWL	2	221	ON	3RS ET	22.3129	113.8680	WINTER	NONE
18-Jan-18	4	1121	CWD	1	NWL	2	120	ON	3RS ET	22.2809	113.8782	WINTER	NONE
18-Jan-18	5	1135	CWD	2	NWL	2	56	ON	3RS ET	22.2934	113.8780	WINTER	NONE
06-Feb-18	1	1043	CWD	2	NWL	3	N/A	OFF	3RS ET	22.2784	113.8777	WINTER	GILLNET
06-Feb-18	2	1058	CWD	1	NWL	3	80	ON	3RS ET	22.2829	113.8785	WINTER	NONE
06-Feb-18	3	1153	CWD	5	NWL	3	75	ON	3RS ET	22.3720	113.8771	WINTER	NONE
06-Feb-18	4	1523	CWD	2	NWL	2	N/A	OFF	3RS ET	22.3304	113.9495	WINTER	NONE
12-Feb-18	1	1121	CWD	2	NWL	3	76	ON	3RS ET	22.3384	113.8781	WINTER	NONE
12-Feb-18	2	1153	CWD	7	NWL	2	80	ON	3RS ET	22.3709	113.8768	WINTER	NONE
12-Feb-18	3	1240	CWD	3	NWL	3	345	ON	3RS ET	22.4121	113.8780	WINTER	NONE
12-Feb-18	4	1348	CWD	3	NWL	3	114	ON	3RS ET	22.3460	113.8981	WINTER	NONE
13-Feb-18	1	0943	CWD	3	AW	2	548	ON	3RS ET	22.2917	113.8745	WINTER	NONE
13-Feb-18	2	1011	CWD	1	AW	2	N/A	OFF	3RS ET	22.2879	113.8838	WINTER	NONE
13-Feb-18	3	1052	CWD	1	WL	2	366	ON	3RS ET	22.2686	113.8559	WINTER	NONE
13-Feb-18	4	1115	CWD	3	WL	2	475	ON	3RS ET	22.2604	113.8491	WINTER	NONE
13-Feb-18	5	1141	CWD	4	WL	2	392	ON	3RS ET	22.2604	113.8445	WINTER	NONE
13-Feb-18	6	1158	CWD	1	WL	2	47	ON	3RS ET	22.2605	113.8419	WINTER	NONE
13-Feb-18	7	1212	CWD	4	WL	2	200	ON	3RS ET	22.2504	113.8388	WINTER	NONE

DATE	STG #	TIME	CWD/FP	GP SZ	AREA	BEAU	PSD	EFFORT	TYPE	DEC LAT	DEC LON	SEASON	BOAT ASSOC.
13-Feb-18	8	1248	CWD	2	WL	2	456	ON	3RS ET	22.2375	113.8262	WINTER	NONE
14-Feb-18	1	0931	CWD	1	AW	2	11	ON	3RS ET	22.3019	113.8813	WINTER	NONE
14-Feb-18	2	0944	CWD	5	AW	2	638	ON	3RS ET	22.2951	113.8805	WINTER	NONE
14-Feb-18	3	1020	CWD	5	WL	2	269	ON	3RS ET	22.3031	113.8611	WINTER	NONE
14-Feb-18	4	1035	CWD	4	WL	2	231	ON	3RS ET	22.2937	113.8616	WINTER	GILLNET
14-Feb-18	5	1058	CWD	1	WL	3	761	ON	3RS ET	22.2751	113.8494	WINTER	NONE
14-Feb-18	6	1156	CWD	1	WL	2	71	ON	3RS ET	22.2415	113.8386	WINTER	NONE
14-Feb-18	7	1211	CWD	4	WL	2	6	ON	3RS ET	22.2416	113.8352	WINTER	NONE
14-Feb-18	8	1256	CWD	5	WL	2	110	ON	3RS ET	22.2140	113.8237	WINTER	NONE
23-Feb-18	1	1222	CWD	1	SWL	3	8	ON	3RS ET	22.1759	113.9072	WINTER	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. December 2017 and January 2018) 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 February 2018 encounter rates STG and ANI in the whole survey area (NEL, NWL, AW, WL, SWL):

A total of 408.737 km of survey effort was collected under Beaufort Sea State 3 or below with favourable visibility; total no. of 22 on-effort sightings and total number of 66 dolphins from on-effort sightings were collected under such condition. Calculation of the encounter rates in February 2018 are shown as below:

Encounter Rate by Number of Dolphin Sightings (STG) in February 2018

$$STG = \frac{22}{408.737} x\ 100 = 5.38$$

Encounter Rate by Number of Dolphins (ANI) in February 2018

$$ANI = \frac{66}{408.737} x\ 100 = 16.15$$

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

A total of 1196.182 km of survey effort was collected under Beaufort Sea State 3 or below with favourable visibility; total no. of 63 on-effort sightings and total number of 226 dolphins from on-effort sightings were collected under such condition. Calculation of the running quarterly encounter rates are shown as below:

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

$$STG = \frac{63}{1196.182} x\ 100 = 5.27$$

Running Quarterly Encounter Rate by Number of Dolphins (ANI)

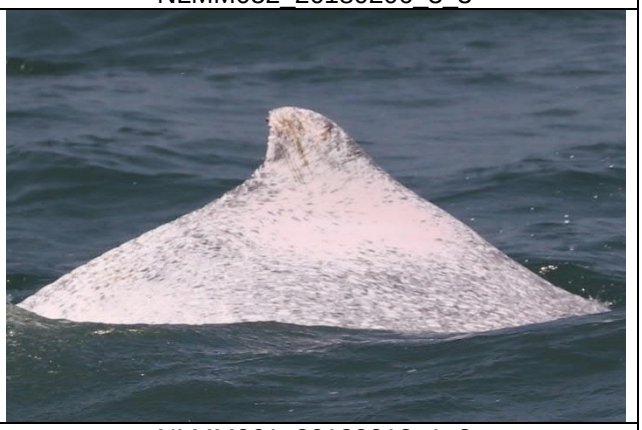
$$ANI = \frac{226}{1196.182} x\ 100 = 18.89$$

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

NLMM064_20180206_1_10

NLMM052_20180206_3_3

NLMM004_20180206_4_3



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NLMM009_20180212_2_12

	
NLMM023_20180212_2_5	NLMM043_20180212_2_9
	
NLMM055_20180212_2_5	NLMM049_20180212_3_2
	
NLMM001_20180212_4_3	NLMM065_20180212_4_9
	
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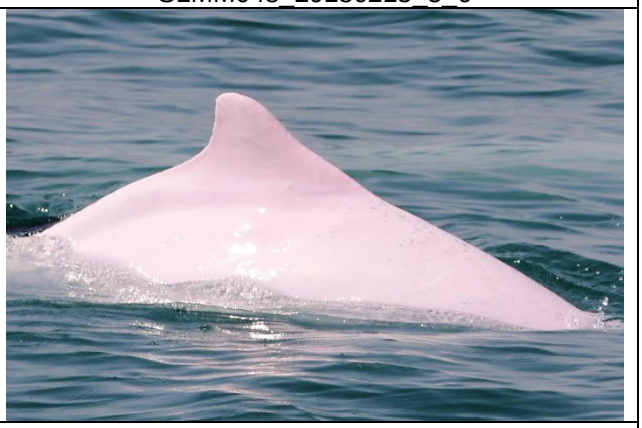
WLMM055_20180213_2_8	SLMM048_20180213_5_6
	
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	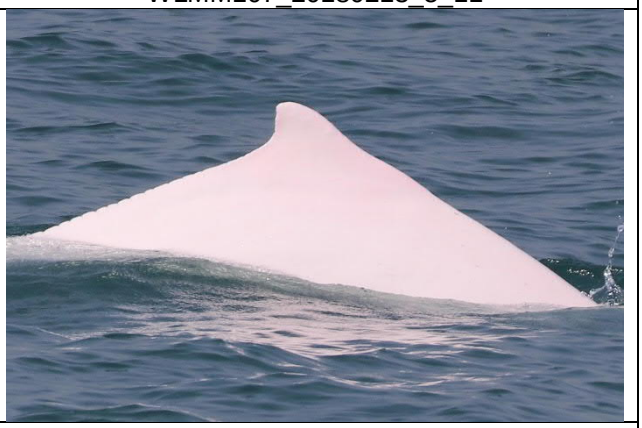
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	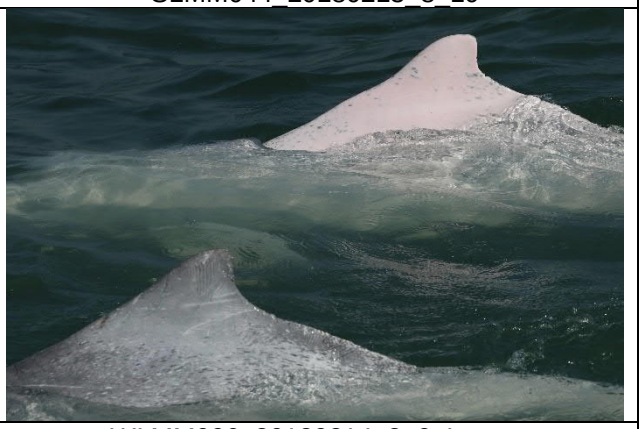
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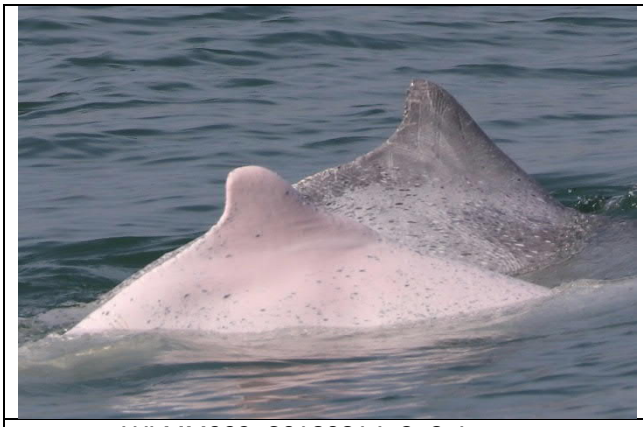	
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WLMM006_20180214_3_4	WLMM009_20180214_3_1
	
WLMM057_20180214_3_7	SLMM055_20180214_4_8

	
WLMM113_20180214_4_5	NLMM016_20180214_5_2
	
SLMM002_20180214_8_3	SLMM003_20180214_8_2
	
SLMM037_20180214_8_4	

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
8/Feb/18	Sha Chau	8:49	14:49	6:00	2-3	2	0	N/A
9/Feb/18	Lung Kwu Chau	8:43	14:43	6:00	2	2	2	2
13/Feb/18	Lung Kwu Chau	8:49	14:49	6:00	2	2	4	3-5
26/Feb/18	Lung Kwu Chau	8:44	14:44	6:00	2	2	2	1-3
27/Feb/18	Sha Chau	8:45	14:45	6:00	2	2	0	N/A

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

Ecological Monitoring

Ecological Monitoring – location map and site photos regarding the monthly ecological monitoring for the egretry area on Sheung Sha Chau and the HDD works

Photo record of View 1

Photo record of View 2

Appendix D. Status of Environmental Permits and Licences

	Description	Permit/ Reference No.	Status
EIAO	Environmental Permit	EP-489/2014	Approved on 7 Nov 2014

Contract No.	Description	Location	Permit/ Reference No.	Status
P560 (R)	Notification of Construction Work under APCO	Launching Site	423880	Receipt acknowledged by EPD on 1 Dec 2017
		Site Office	397151	Receipt acknowledged by EPD on 15 Jan 2016
		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-RS1006-17	Superseded by GW-RS0096-18 on 9 Feb 2018
			GW-RS0096-18	Valid until 6 Aug 2018
		Sheung Sha Chau	GW-RW0533-17	Valid until 8 Apr 2018
		Stockpiling Area	GW-RS0719-17	Superseded by GW-RS0043-18 on 14 Feb 2018
			GW-RS0043-18	Valid until 13 Aug 2018
	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	Registration was updated on 29 Sep 2017
		Sheung Sha Chau	WPN 5111-434-L2902-03	Registration was updated on 6 Oct 2017
		Stockpiling Area	WPN 5213-951-L2902-02	Registration was updated 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-RS0015-18	Superseded by GW-RS0082-18 on 7 Feb 2018
		Works area of 3201	GW-RS0082-18	Superseded by GW-RS0131-18 on 27 Feb 2018
		Works area of 3201	GW-RS0131-18	Valid until 15 Aug 2018

Contract No.	Description	Location	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-RS0016-18	Superseded by GW-RS0083-18 on 7 Feb 2018
		Works area of 3202	GW-RS0083-18	Valid until 31 Jul 2018
	Registration as Chemical Waste Producer	Works area of 3202	WPN 5213-951-S3967-01	Registration was updated on 23 May 2017
	Discharge License	Works area of 3202	WT00028293-2017	Valid from 12 Jun 2017 to 30 Jun 2022
	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-RS1172-17	Valid until 28 Jun 2018
	Registration as Chemical Waste Producer	Works area of 3203	WPN 5213-951-S3954-01	Registration was updated on 12 Dec 2016
	Discharge License	Works area of 3203	WT00028251-2017	Valid from 9 Jun 2017 to 30 Jun 2022
	Bill Account for disposal		A/C 7025846	Approval granted from EPD on 9 Sep 2016
3204	Notification of Construction Work under APCO	Works area of 3204	406446	Receipt acknowledged by EPD on 19 Aug 2016
	Construction Noise Permit (General Works)	Works Area of 3204	GW-RS0084-18	Superseded by GW-RS0132-18 on 27 Feb 2018
		Works Area of 3204	GW-RS0132-18	Valid until 10 Aug 2018
	Registration as Chemical Waste Producer	Works Area of 3204	WPN 5213-951-C4102-01	Completion of Registration on 15 Sep 2016
		Site Office of 3204	WPN 5213-951-C4102-02	Completion of Registration on 17 Mar 2017
	Discharge License	Works area of 3204	WT00028245-2017	Valid from 5 Jun 2017 to 30 Jun 2022
	Bill Account for disposal		A/C 7025969	Approval granted from EPD on 21 Sep 2016
3205	Notification of Construction Work under APCO	Works area of 3205	409041	Receipt acknowledged by EPD on 19 Oct 2016
	Registration as Chemical Waste Producer	Works Area of 3205	WPN 5213-951-B2502-01	Registration was updated on 25 Sep 2017

Contract No.	Description	Location	Permit/ Reference No.	Status
		Works Area of 3205	WPN 5111-421-B2509-01	Registration was updated on 25 Sep 2017
	Construction Noise Permit (General Works)	Works Area of 3205	GW-RS0017-18	Superseded by GW-RS0085-18 on 7 Feb 2018
		Works Area of 3205	GW-RS0085-18	Superseded by GW-RS0133-18 on 27 Feb 2018
		Works Area of 3205	GW-RS0133-18	Valid until 16 Aug 2018
	Discharge License	Works area of 3205	WT00028370-2017	Valid from 21 Jun 2017 to 30 Jun 2022
	Bill Account for disposal	Works area of 3205	A/C 7026295	Approval granted from EPD on 9 Nov 2016
3206	Notification of Construction Work under APCO	Works area of 3206	409237	Receipt acknowledged by EPD on 25 Oct 2016
	Registration as Chemical Waste Producer	Site office of 3206	WPN 5213-951-Z4035-01	Completion of Registration on 18 Nov 2016
		Works area of 3206	WPN 5213-951-Z4035-02	Completion of Registration on 18 Nov 2016
	Construction Noise Permit (General Works)	Works Area of 3206	GW-RS0018-18	Superseded by GW-RS0086-18 on 7 Feb 2018
		Works Area of 3206	GW-RS0086-18	Superseded by GW-RS0134-18 on 27 Feb 2018
		Works Area of 3206	GW-RS0134-18	Valid until 10 Aug 2018
	Bill Account for disposal	Works area of 3206	A/C 7026398	Approval granted from EPD on 16 Nov 2016
3301	Notification of Construction Work under APCO	Works area of 3301	415821	Receipt acknowledged by EPD on 19 Apr 2017
	Registration as Chemical Waste Producer	Works area of 3301	WPN 5213-951-F2718-02	Completion of Registration on 9 Jun 2017
	Bill Account for disposal	Works area of 3301	A/C 7027728	Approval granted from EPD on 8 May 2017
	Construction Noise Permit (General Works)	Works area of 3301 (Cable ducting works)	GW-RS0991-17	Valid until 14 May 2018
		Works area of 3301	GW-RS1184-17	Valid until 7 July 2018
3501	Notification of Construction Work under APCO	Works area of 3501	417903	Receipt acknowledged by EPD on 13 Jun 2017
	Registration as Chemical Waste Producer	Works area of 3501	WPN 5213-951-B2520-02	Completion of Registration on 25 Jul 2017
	Bill Account for disposal	Works area of 3501	A/C 7028144	Approval granted from EPD on 23 Jun 2017
		Works area of 3501	GW-RS1187-17	Valid until 1 July 2018

Contract No.	Description	Location	Permit/ Reference No.	Status
	Construction Noise Permit (General Works)		GW-RS0023-18	Valid until 28 Feb 2018
3502	Notification of Construction Work under APCO	Works area of 3502	417511	Receipt acknowledged by EPD on 2 Jun 2017
	Registration as Chemical Waste Producer	Works area of 3502	WPN 5213-951-B2520-01	Completion of Registration on 3 Jul 2017
	Bill Account for disposal	Works area of 3502	A/C 7028050	Approval granted from EPD on 21 Jun 2017
	Construction Noise Permit (General Works)	Works area of 3502	GW-RS0784-17	Valid until 10 Mar 2018
3503	Notification of Construction Work under APCO	Works area of 3503	424591	Receipt acknowledged by EPD on 8 Dec 2017
	Registration as Chemical Waste Producer	Works area of 3503	WPN 5113-951-L2845-02	Completion of Registration on 8 Jan 2018
	Bill Account for disposal	Works area of 3503	A/C 7029665	Approval granted from EPD on 27 Dec 2017
	Construction Noise Permit (General Works)	Works area of 3503	GW-RS0128-18	Valid until 14 Aug 2018
3602	Notification of Construction Work under APCO	Works area of 3602	421278	Receipt acknowledged by EPD on 18 Sep 2017
	Registration as Chemical Waste Producer	Works area of 3602	WPN 5296-951-N2673-01	Completion of Registration on 9 Oct 2017
		Site office of 3602	WPN 5296-951-N2673-02	Completion of Registration on 11 Dec 2017
	Bill Account for disposal	Works area of 3602	A/C 7028942	Approval granted from EPD on 6 Oct 2017
3801	Notification of Construction Work under APCO	Works area of 3801	418345	Receipt acknowledged by EPD on 26 Jun 2017
	Registration as Chemical Waste Producer	Works area of 3801	WPN 5296-951-C1169-51	Completion of Registration on 4 Aug 2017
	Discharge License	Works and stockpiling area of 3801	WT00029535-2017	Valid from 24 Nov 2017 to 30 Nov 2022
	Bill Account for disposal	Works area of 3801	A/C 7028254	Approval granted from EPD on 3 Jul 2017
	Construction Noise Permit (General Works)	Works and stockpiling area of 3801	GW-RS1133-17	Valid until 18 Jun 2018
		Works area of 3801	GW-RS0036-18	Valid until 18 July 2018

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

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

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

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

Statistics for Complaints, Notifications of Summons and Prosecution

Reporting Period	Cumulative Statistics		
	Complaints	Notifications of Summons	Prosecutions
This reporting period	1	0	0
From 28 December 2015 to end of the reporting period	10	1	0

Appendix F. Data of SkyPier HSF Movements to/from Zhuhai and Macau (between 1 and 28 February 2018)

Data of SkyPier HSF Movements to/from Zhuhai and Macau (between 1 and 28 February 2018)

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [XZM - 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-Feb	08:15	3A061	YFT	Arrival	13	<= 5	< 1min
01-Feb	08:38	8S210	XZM	Arrival	11	-	-
01-Feb	10:04	3A062	YFT	Arrival	11.9	-	-
01-Feb	10:20	3A163	YFT	Departure	11.4	-	-
01-Feb	10:40	8S212	XZM	Arrival	11.9	-	-
01-Feb	10:54	3A081	ZUI	Arrival	12.3	-	-
01-Feb	11:05	8S121	XZM	Departure	12.1	-	-
01-Feb	11:13	3A063	YFT	Arrival	12.2	-	-
01-Feb	12:22	3A181	ZUI	Departure	13.7	-	-
01-Feb	12:22	3A168	YFT	Departure	13	<= 15	< 1min
01-Feb	12:48	8S215	XZM	Arrival	13	-	-
01-Feb	12:55	3A064	YFT	Arrival	12.1	-	-
01-Feb	13:25	8S123	XZM	Departure	13.3	-	-
01-Feb	14:00	3A082	ZUI	Arrival	13.7	-	-
01-Feb	14:16	3A182	ZUI	Departure	13	-	-
01-Feb	14:22	3A164	YFT	Departure	11.9	-	-
01-Feb	14:56	3A065	YFT	Arrival	12.6	-	-
01-Feb	16:20	3A167	YFT	Departure	12.8	-	-
01-Feb	16:46	3A083	ZUI	Arrival	12.5	-	-
01-Feb	16:50	8S218	XZM	Arrival	13.1	-	-
01-Feb	17:01	3A067	YFT	Arrival	11.4	-	-
01-Feb	17:07	8S126	XZM	Departure	13.4	-	-
01-Feb	17:10	3A183	ZUI	Departure	13.7	-	-
01-Feb	19:07	3A166	YFT	Departure	13.2	-	-
01-Feb	19:44	3A084	ZUI	Arrival	12.6	-	-
01-Feb	20:05	3A185	ZUI	Departure	13.2	-	-
01-Feb	20:47	8S2113	XZM	Arrival	12.6	-	-
01-Feb	20:56	3A169	YFT	Departure	13.7	-	-
01-Feb	21:56	8S522	XZM	Departure	13.4	-	-
02-Feb	08:16	3A061	YFT	Arrival	11.2	-	-
02-Feb	08:27	8S210	XZM	Arrival	13.4	-	-
02-Feb	09:48	3A062	YFT	Arrival	11.6	-	-
02-Feb	10:20	3A163	YFT	Departure	12.2	-	-
02-Feb	10:37	8S212	XZM	Arrival	12.1	-	-
02-Feb	11:00	3A081	ZUI	Arrival	12.4	-	-
02-Feb	11:07	8S121	XZM	Departure	12.1	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [XZM - Macao (Maritime Ferry Terminal) YFT – Macao (Taipa) ZUI - Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
02-Feb	11:20	3A063	YFT	Arrival	12.4	-	-
02-Feb	12:11	3A181	ZUI	Departure	12.4	-	-
02-Feb	12:17	3A168	YFT	Departure	11.3	-	-
02-Feb	12:50	8S215	XZM	Arrival	12.2	-	-
02-Feb	12:57	3A064	YFT	Arrival	12	-	-
02-Feb	13:17	8S123	XZM	Departure	12.1	-	-
02-Feb	13:50	3A082	ZUI	Arrival	12.3	-	-
02-Feb	14:15	3A164	YFT	Departure	12.4	-	-
02-Feb	14:17	3A182	ZUI	Departure	12.2	-	-
02-Feb	15:04	3A065	YFT	Arrival	11.6	-	-
02-Feb	16:12	3A167	YFT	Departure	11.4	-	-
02-Feb	16:51	3A083	ZUI	Arrival	12.6	-	-
02-Feb	16:53	8S218	XZM	Arrival	11.7	-	-
02-Feb	16:56	3A067	YFT	Arrival	11.9	-	-
02-Feb	17:08	3A183	ZUI	Departure	12.7	-	-
02-Feb	17:21	8S126	XZM	Departure	12.2	-	-
02-Feb	19:01	3A166	YFT	Departure	12.8	-	-
02-Feb	19:55	3A084	ZUI	Arrival	11.7	-	-
02-Feb	20:16	3A185	ZUI	Departure	12.6	-	-
02-Feb	20:55	8S2113	XZM	Arrival	11.1	-	-
02-Feb	21:04	3A169	YFT	Departure	11.8	-	-
02-Feb	22:03	8S522	XZM	Departure	11.6	-	-
03-Feb	08:19	3A061	YFT	Arrival	12.7	-	-
03-Feb	08:33	8S210	XZM	Arrival	10.9	-	-
03-Feb	09:50	3A062	YFT	Arrival	11.7	-	-
03-Feb	10:25	3A163	YFT	Departure	12.5	-	-
03-Feb	10:40	8S212	XZM	Arrival	11.9	-	-
03-Feb	10:48	3A081	ZUI	Arrival	11.8	-	-
03-Feb	11:04	8S121	XZM	Departure	12.1	-	-
03-Feb	11:15	3A063	YFT	Arrival	13	-	-
03-Feb	12:14	3A168	YFT	Departure	13	-	-
03-Feb	12:19	3A181	ZUI	Departure	12.3	-	-
03-Feb	12:53	8S215	XZM	Arrival	11.4	-	-
03-Feb	12:56	3A064	YFT	Arrival	12.9	-	-
03-Feb	13:12	8S123	XZM	Departure	11.8	-	-
03-Feb	13:48	3A082	ZUI	Arrival	11.4	-	-
03-Feb	14:15	3A164	YFT	Departure	12.8	-	-
03-Feb	14:16	3A182	ZUI	Departure	11.8	-	-
03-Feb	14:56	3A065	YFT	Arrival	12.4	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [XZM - 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-Feb	16:14	3A167	YFT	Departure	13.4	-	-
03-Feb	16:44	8S218	XZM	Arrival	12.5	-	-
03-Feb	16:45	3A083	ZUI	Arrival	13.1	-	-
03-Feb	16:59	3A067	YFT	Arrival	12.8	-	-
03-Feb	17:06	3A183	ZUI	Departure	12.9	-	-
03-Feb	17:17	8S126	XZM	Departure	11.5	-	-
03-Feb	19:05	3A166	YFT	Departure	12.5	-	-
03-Feb	19:50	3A084	ZUI	Arrival	12.8	-	-
03-Feb	20:10	3A185	ZUI	Departure	12.8	-	-
03-Feb	20:59	8S2113	XZM	Arrival	12.2	-	-
03-Feb	21:02	3A169	YFT	Departure	12.1	-	-
03-Feb	22:02	8S522	XZM	Departure	12.1	-	-
04-Feb	08:22	3A061	YFT	Arrival	11.5	-	-
04-Feb	08:35	8S210	XZM	Arrival	12.4	-	-
04-Feb	09:56	3A062	YFT	Arrival	13.3	-	-
04-Feb	10:09	3A163	YFT	Departure	13.5	-	-
04-Feb	10:41	8S212	XZM	Arrival	10.9	-	-
04-Feb	10:43	3A081	ZUI	Arrival	13.7	-	-
04-Feb	11:06	8S121	XZM	Departure	12.5	-	-
04-Feb	11:13	3A063	YFT	Arrival	12.8	-	-
04-Feb	12:13	3A168	YFT	Departure	13.7	-	-
04-Feb	12:13	3A181	ZUI	Departure	13.2	-	-
04-Feb	12:49	8S215	XZM	Arrival	12.9	-	-
04-Feb	12:54	3A064	YFT	Arrival	13.2	-	-
04-Feb	13:22	8S123	XZM	Departure	12.5	-	-
04-Feb	13:48	3A082	ZUI	Arrival	12.7	-	-
04-Feb	14:16	3A182	ZUI	Departure	11.3	-	-
04-Feb	14:18	3A164	YFT	Departure	13.7	-	-
04-Feb	15:00	3A065	YFT	Arrival	13.6	-	-
04-Feb	16:26	3A167	YFT	Departure	13.5	-	-
04-Feb	16:52	8S218	XZM	Arrival	13.4	-	-
04-Feb	16:52	3A083	ZUI	Arrival	13	-	-
04-Feb	16:55	3A067	YFT	Arrival	13.3	-	-
04-Feb	17:12	3A183	ZUI	Departure	13	-	-
04-Feb	17:15	8S126	XZM	Departure	12.9	-	-
04-Feb	19:00	3A166	YFT	Departure	11.8	-	-
04-Feb	19:49	3A084	ZUI	Arrival	13.4	-	-
04-Feb	20:13	3A185	ZUI	Departure	13.3	-	-
04-Feb	20:59	8S2113	XZM	Arrival	12.5	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [XZM - 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)
04-Feb	21:11	3A169	YFT	Departure	12	-	-
04-Feb	22:10	8S522	XZM	Departure	12.6	-	-
05-Feb	08:14	3A061	YFT	Arrival	11.5	-	-
05-Feb	08:32	8S210	XZM	Arrival	12.3	-	-
05-Feb	09:52	3A062	YFT	Arrival	11.2	-	-
05-Feb	10:25	3A163	YFT	Departure	12	-	-
05-Feb	10:40	8S212	XZM	Arrival	11.3	-	-
05-Feb	10:47	3A081	ZUI	Arrival	12.9	-	-
05-Feb	11:05	8S121	XZM	Departure	11.6	-	-
05-Feb	11:14	3A063	YFT	Arrival	11.6	-	-
05-Feb	12:14	3A181	ZUI	Departure	12.4	-	-
05-Feb	12:16	3A168	YFT	Departure	12.5	-	-
05-Feb	12:57	8S215	XZM	Arrival	12	-	-
05-Feb	13:01	3A064	YFT	Arrival	10.9	-	-
05-Feb	13:18	8S123	XZM	Departure	10.8	-	-
05-Feb	13:59	3A082	ZUI	Arrival	13.1	-	-
05-Feb	14:23	3A164	YFT	Departure	11.4	-	-
05-Feb	14:25	3A182	ZUI	Departure	13.6	-	-
05-Feb	14:53	3A065	YFT	Arrival	12.4	-	-
05-Feb	16:17	3A167	YFT	Departure	12.5	-	-
05-Feb	16:44	3A083	ZUI	Arrival	13.7	-	-
05-Feb	16:47	8S218	XZM	Arrival	10.3	-	-
05-Feb	17:00	3A067	YFT	Arrival	11.8	-	-
05-Feb	17:05	3A183	ZUI	Departure	13.2	-	-
05-Feb	17:10	8S126	XZM	Departure	11.8	-	-
05-Feb	19:01	3A166	YFT	Departure	12.9	-	-
05-Feb	19:47	3A084	ZUI	Arrival	13.5	-	-
05-Feb	20:15	3A185	ZUI	Departure	13	-	-
05-Feb	20:54	8S2113	XZM	Arrival	12.4	-	-
05-Feb	21:02	3A169	YFT	Departure	12.5	-	-
05-Feb	21:58	8S522	XZM	Departure	13.5	-	-
06-Feb	08:15	3A061	YFT	Arrival	11.8	-	-
06-Feb	08:29	8S210	XZM	Arrival	12.4	-	-
06-Feb	10:04	3A062	YFT	Arrival	12.3	-	-
06-Feb	10:15	3A163	YFT	Departure	13.3	-	-
06-Feb	10:39	8S212	XZM	Arrival	11.9	-	-
06-Feb	10:43	3A081	ZUI	Arrival	13.4	-	-
06-Feb	10:56	8S121	XZM	Departure	12.9	-	-
06-Feb	11:22	3A063	YFT	Arrival	10.9	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [XZM - Macao (Maritime Ferry Terminal) YFT – Macao (Taipa) ZUI - Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
06-Feb	12:13	3A168	YFT	Departure	11.4	-	-
06-Feb	12:17	3A181	ZUI	Departure	13.3	-	-
06-Feb	12:58	3A064	YFT	Arrival	12.7	-	-
06-Feb	12:58	8S215	XZM	Arrival	11	-	-
06-Feb	13:23	8S123	XZM	Departure	11.9	-	-
06-Feb	13:55	3A082	ZUI	Arrival	12.6	-	-
06-Feb	14:19	3A182	ZUI	Departure	13.5	-	-
06-Feb	14:21	3A164	YFT	Departure	13.5	-	-
06-Feb	15:02	3A065	YFT	Arrival	10.9	-	-
06-Feb	16:21	3A167	YFT	Departure	10.6	-	-
06-Feb	16:44	3A083	ZUI	Arrival	13.6	-	-
06-Feb	16:46	8S218	XZM	Arrival	11.6	-	-
06-Feb	17:02	3A067	YFT	Arrival	12.3	-	-
06-Feb	17:08	3A183	ZUI	Departure	13.1	-	-
06-Feb	17:16	8S126	XZM	Departure	11	-	-
06-Feb	19:10	3A166	YFT	Departure	12.1	-	-
06-Feb	19:45	3A084	ZUI	Arrival	13.4	<= 5	< 1min
06-Feb	20:09	3A185	ZUI	Departure	13	-	-
06-Feb	20:55	3A169	YFT	Departure	12.1	-	-
06-Feb	21:01	8S2113	XZM	Arrival	11.8	-	-
06-Feb	22:05	8S522	XZM	Departure	11.5	-	-
07-Feb	08:18	3A061	YFT	Arrival	13	-	-
07-Feb	08:31	8S210	XZM	Arrival	11.8	-	-
07-Feb	10:04	3A062	YFT	Arrival	11.7	-	-
07-Feb	10:18	3A163	YFT	Departure	11.8	-	-
07-Feb	10:42	3A081	ZUI	Arrival	12.8	-	-
07-Feb	10:46	8S212	XZM	Arrival	11.1	-	-
07-Feb	11:07	8S121	XZM	Departure	13	-	-
07-Feb	11:22	3A063	YFT	Arrival	11.6	-	-
07-Feb	12:17	3A168	YFT	Departure	12.3	-	-
07-Feb	12:19	3A181	ZUI	Departure	13.2	-	-
07-Feb	13:01	8S215	XZM	Arrival	11.8	-	-
07-Feb	13:11	3A064	YFT	Arrival	11.2	-	-
07-Feb	13:35	8S123	XZM	Departure	11.8	-	-
07-Feb	13:47	3A082	ZUI	Arrival	12.8	-	-
07-Feb	14:20	3A164	YFT	Departure	11.4	-	-
07-Feb	14:22	3A182	ZUI	Departure	11.2	-	-
07-Feb	14:55	3A065	YFT	Arrival	12.1	-	-
07-Feb	16:21	3A167	YFT	Departure	12.7	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [XZM - 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-Feb	16:41	8S218	XZM	Arrival	11.5	-	-
07-Feb	16:43	3A083	ZUI	Arrival	13	-	-
07-Feb	17:00	3A067	YFT	Arrival	11.9	-	-
07-Feb	17:01	3A183	ZUI	Departure	13.5	-	-
07-Feb	17:06	8S126	XZM	Departure	12.3	-	-
07-Feb	19:03	3A166	YFT	Departure	12.6	-	-
07-Feb	19:48	3A084	ZUI	Arrival	13.6	-	-
07-Feb	20:14	3A185	ZUI	Departure	12.8	-	-
07-Feb	20:53	8S2113	XZM	Arrival	12.7	-	-
07-Feb	21:08	3A169	YFT	Departure	11.2	-	-
07-Feb	22:28	8S522	XZM	Departure	13.1	-	-
08-Feb	08:16	3A061	YFT	Arrival	11.6	-	-
08-Feb	08:33	8S210	XZM	Arrival	12.1	-	-
08-Feb	09:59	3A062	YFT	Arrival	11.4	-	-
08-Feb	10:22	3A163	YFT	Departure	11.9	-	-
08-Feb	10:44	8S212	XZM	Arrival	11.7	-	-
08-Feb	10:49	3A081	ZUI	Arrival	12.8	-	-
08-Feb	11:06	8S121	XZM	Departure	11.1	-	-
08-Feb	11:17	3A063	YFT	Arrival	12.2	-	-
08-Feb	12:12	3A181	ZUI	Departure	12.8	-	-
08-Feb	12:14	3A168	YFT	Departure	12.2	-	-
08-Feb	12:45	8S215	XZM	Arrival	11.8	-	-
08-Feb	13:02	3A064	YFT	Arrival	11.3	-	-
08-Feb	13:15	8S123	XZM	Departure	11.8	-	-
08-Feb	13:46	3A082	ZUI	Arrival	12	-	-
08-Feb	14:19	3A182	ZUI	Departure	12.2	-	-
08-Feb	14:19	3A164	YFT	Departure	12.5	-	-
08-Feb	14:56	3A065	YFT	Arrival	12.3	-	-
08-Feb	16:19	3A167	YFT	Departure	13	-	-
08-Feb	16:49	3A083	ZUI	Arrival	13.4	-	-
08-Feb	16:54	3A067	YFT	Arrival	12.5	-	-
08-Feb	16:56	8S218	XZM	Arrival	10.6	-	-
08-Feb	17:04	3A183	ZUI	Departure	12.9	-	-
08-Feb	17:12	8S126	XZM	Departure	11.2	-	-
08-Feb	19:04	3A166	YFT	Departure	12.1	-	-
08-Feb	19:44	3A084	ZUI	Arrival	13.6	-	-
08-Feb	20:18	3A185	ZUI	Departure	12.8	-	-
08-Feb	20:51	8S2113	XZM	Arrival	13.3	-	-
08-Feb	21:06	3A169	YFT	Departure	12.6	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [XZM - 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)
08-Feb	22:01	8S522	XZM	Departure	13.3	-	-
09-Feb	08:22	3A061	YFT	Arrival	11.2	-	-
09-Feb	08:32	8S210	XZM	Arrival	12.7	-	-
09-Feb	10:06	3A062	YFT	Arrival	12.9	-	-
09-Feb	10:27	3A163	YFT	Departure	12.1	-	-
09-Feb	10:39	8S212	XZM	Arrival	11.6	-	-
09-Feb	10:56	3A081	ZUI	Arrival	13	-	-
09-Feb	11:04	8S121	XZM	Departure	13.1	-	-
09-Feb	11:16	3A063	YFT	Arrival	12.4	-	-
09-Feb	12:21	3A168	YFT	Departure	13.4	-	-
09-Feb	12:23	3A181	ZUI	Departure	13.1	-	-
09-Feb	12:46	8S215	XZM	Arrival	12.3	-	-
09-Feb	12:55	3A064	YFT	Arrival	12.7	-	-
09-Feb	13:21	8S123	XZM	Departure	12.8	-	-
09-Feb	14:00	3A082	ZUI	Arrival	13	-	-
09-Feb	14:14	3A164	YFT	Departure	12.3	-	-
09-Feb	14:18	3A182	ZUI	Departure	12.6	-	-
09-Feb	14:54	3A065	YFT	Arrival	13.5	-	-
09-Feb	16:18	3A167	YFT	Departure	13.4	-	-
09-Feb	16:42	8S218	XZM	Arrival	11.2	-	-
09-Feb	16:52	3A083	ZUI	Arrival	13.3	-	-
09-Feb	17:00	3A067	YFT	Arrival	12.8	-	-
09-Feb	17:16	8S126	XZM	Departure	13	-	-
09-Feb	17:20	3A183	ZUI	Departure	13.2	-	-
09-Feb	19:04	3A166	YFT	Departure	12.9	-	-
09-Feb	20:02	3A084	ZUI	Arrival	13.5	-	-
09-Feb	20:19	3A185	ZUI	Departure	12.7	-	-
09-Feb	20:55	8S2113	XZM	Arrival	12.4	-	-
09-Feb	21:04	3A169	YFT	Departure	12.2	-	-
09-Feb	22:06	8S522	XZM	Departure	13.4	-	-
10-Feb	08:17	3A061	YFT	Arrival	12.8	<= 5	< 1min
10-Feb	08:20	8S210	XZM	Arrival	12	-	-
10-Feb	09:45	3A062	YFT	Arrival	12.3	-	-
10-Feb	10:18	3A163	YFT	Departure	13.1	-	-
10-Feb	10:44	8S212	XZM	Arrival	12.2	-	-
10-Feb	10:56	3A081	ZUI	Arrival	12.4	-	-
10-Feb	11:05	8S121	XZM	Departure	11.9	-	-
10-Feb	11:19	3A063	YFT	Arrival	12.1	-	-
10-Feb	12:17	3A168	YFT	Departure	11.2	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [XZM - Macao (Maritime Ferry Terminal) YFT – Macao (Taipa) ZUI - Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
10-Feb	12:18	3A181	ZUI	Departure	13.2	-	-
10-Feb	12:47	8S215	XZM	Arrival	13.2	-	-
10-Feb	12:59	3A064	YFT	Arrival	12.5	-	-
10-Feb	13:17	8S123	XZM	Departure	13	-	-
10-Feb	13:55	3A082	ZUI	Arrival	13	-	-
10-Feb	14:15	3A164	YFT	Departure	13.1	-	-
10-Feb	14:30	3A182	ZUI	Departure	13.6	-	-
10-Feb	14:58	3A065	YFT	Arrival	11.1	-	-
10-Feb	16:22	3A167	YFT	Departure	13.9	-	-
10-Feb	16:50	3A083	ZUI	Arrival	13.6	-	-
10-Feb	16:51	8S218	XZM	Arrival	13.1	-	-
10-Feb	16:59	3A067	YFT	Arrival	11.9	-	-
10-Feb	17:08	8S126	XZM	Departure	13.4	-	-
10-Feb	17:15	3A183	ZUI	Departure	13.1	-	-
10-Feb	19:24	3A166	YFT	Departure	11.9	-	-
10-Feb	19:49	3A084	ZUI	Arrival	13	-	-
10-Feb	20:26	3A185	ZUI	Departure	12.7	-	-
10-Feb	20:58	8S2113	XZM	Arrival	12.5	-	-
10-Feb	21:04	3A169	YFT	Departure	12.3	-	-
10-Feb	22:00	8S522	XZM	Departure	12.3	-	-
11-Feb	08:12	3A061	YFT	Arrival	13	-	-
11-Feb	08:23	8S210	XZM	Arrival	12.4	<= 5	< 1min
11-Feb	09:47	3A062	YFT	Arrival	12.1	-	-
11-Feb	10:35	3A163	YFT	Departure	11.5	-	-
11-Feb	10:55	3A081	ZUI	Arrival	12	-	-
11-Feb	10:55	8S212	XZM	Arrival	12.3	-	-
11-Feb	11:14	8S121	XZM	Departure	11.7	-	-
11-Feb	11:20	3A063	YFT	Arrival	13.3	-	-
11-Feb	12:13	3A168	YFT	Departure	13.4	-	-
11-Feb	12:23	3A181	ZUI	Departure	13.4	-	-
11-Feb	12:50	8S215	XZM	Arrival	11.9	-	-
11-Feb	12:59	3A064	YFT	Arrival	12	-	-
11-Feb	13:15	8S123	XZM	Departure	12.1	-	-
11-Feb	13:48	3A082	ZUI	Arrival	12.6	-	-
11-Feb	14:18	3A164	YFT	Departure	11.9	-	-
11-Feb	14:25	3A182	ZUI	Departure	12.8	-	-
11-Feb	15:05	3A065	YFT	Arrival	13.3	-	-
11-Feb	16:13	3A167	YFT	Departure	13.8	-	-
11-Feb	16:55	3A083	ZUI	Arrival	13.2	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [XZM - 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-Feb	16:57	8S218	XZM	Arrival	10.9	-	-
11-Feb	17:04	3A067	YFT	Arrival	12.2	-	-
11-Feb	17:21	8S126	XZM	Departure	13.1	-	-
11-Feb	17:25	3A183	ZUI	Departure	13.1	-	-
11-Feb	19:31	3A166	YFT	Departure	11.9	-	-
11-Feb	20:06	3A084	ZUI	Arrival	13.4	-	-
11-Feb	20:39	3A185	ZUI	Departure	13.3	-	-
11-Feb	21:23	8S2113	XZM	Arrival	13.4	-	-
11-Feb	21:33	3A169	YFT	Departure	0.0 **	-	-
11-Feb	22:16	8S522	XZM	Departure	13.1	-	-
12-Feb	08:26	3A061	YFT	Arrival	11	-	-
12-Feb	08:31	8S210	XZM	Arrival	12.6	-	-
12-Feb	09:53	3A062	YFT	Arrival	10.8	-	-
12-Feb	10:32	3A163	YFT	Departure	12.3	-	-
12-Feb	10:43	8S212	XZM	Arrival	12.7	-	-
12-Feb	10:46	3A081	ZUI	Arrival	12.6	-	-
12-Feb	11:09	8S121	XZM	Departure	12.5	-	-
12-Feb	11:22	3A063	YFT	Arrival	11.8	-	-
12-Feb	12:22	3A181	ZUI	Departure	12.8	-	-
12-Feb	12:25	3A168	YFT	Departure	11.3	-	-
12-Feb	13:10	8S215	XZM	Arrival	10.2	-	-
12-Feb	13:15	3A064	YFT	Arrival	10.3	-	-
12-Feb	13:39	8S123	XZM	Departure	11	-	-
12-Feb	13:47	3A082	ZUI	Arrival	11.2	-	-
12-Feb	14:15	3A164	YFT	Departure	11.5	-	-
12-Feb	14:20	3A182	ZUI	Departure	11	-	-
12-Feb	15:00	3A065	YFT	Arrival	11.7	-	-
12-Feb	16:21	3A167	YFT	Departure	11.6	-	-
12-Feb	16:42	3A083	ZUI	Arrival	12.9	-	-
12-Feb	16:45	8S218	XZM	Arrival	10.5	-	-
12-Feb	17:03	3A067	YFT	Arrival	10.6	-	-
12-Feb	17:05	8S126	XZM	Departure	12.6	-	-
12-Feb	17:11	3A183	ZUI	Departure	13.2	-	-
12-Feb	19:09	3A166	YFT	Departure	12.2	-	-
12-Feb	19:52	3A084	ZUI	Arrival	12.9	-	-
12-Feb	20:10	3A185	ZUI	Departure	13.1	-	-
12-Feb	20:57	8S2113	XZM	Arrival	12.6	-	-
12-Feb	21:06	3A169	YFT	Departure	12.3	-	-
12-Feb	22:06	8S522	XZM	Departure	11.7	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [XZM - 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-Feb	08:22	3A061	YFT	Arrival	11.3	-	-
13-Feb	08:29	8S210	XZM	Arrival	11.3	-	-
13-Feb	09:47	3A062	YFT	Arrival	11.8	-	-
13-Feb	10:32	3A163	YFT	Departure	13.4	-	-
13-Feb	10:36	8S212	XZM	Arrival	13.1	-	-
13-Feb	10:44	3A081	ZUI	Arrival	12.3	-	-
13-Feb	10:59	8S121	XZM	Departure	12.9	-	-
13-Feb	11:19	3A063	YFT	Arrival	11.7	-	-
13-Feb	12:20	3A181	ZUI	Departure	12.7	-	-
13-Feb	12:23	3A168	YFT	Departure	11.9	-	-
13-Feb	12:53	3A064	YFT	Arrival	12.6	-	-
13-Feb	12:54	8S215	XZM	Arrival	12.2	-	-
13-Feb	13:25	8S123	XZM	Departure	12	-	-
13-Feb	14:00	3A082	ZUI	Arrival	12.4	-	-
13-Feb	14:19	3A164	YFT	Departure	12.2	-	-
13-Feb	14:37	3A182	ZUI	Departure	12.7	-	-
13-Feb	14:56	3A065	YFT	Arrival	12.6	-	-
13-Feb	16:13	3A167	YFT	Departure	12.4	-	-
13-Feb	16:53	8S218	XZM	Arrival	11.6	-	-
13-Feb	16:56	3A067	YFT	Arrival	11	-	-
13-Feb	16:57	3A083	ZUI	Arrival	13.2	-	-
13-Feb	17:21	8S126	XZM	Departure	12.4	-	-
13-Feb	17:23	3A183	ZUI	Departure	13	-	-
13-Feb	19:10	3A166	YFT	Departure	12.9	-	-
13-Feb	19:58	3A084	ZUI	Arrival	13.4	-	-
13-Feb	20:19	3A185	ZUI	Departure	13.3	-	-
13-Feb	20:56	8S2113	XZM	Arrival	12.8	-	-
13-Feb	21:14	3A169	YFT	Departure	13.3	-	-
13-Feb	22:01	8S522	XZM	Departure	13	-	-
14-Feb	08:18	3A061	YFT	Arrival	12.3	-	-
14-Feb	08:21	8S210	XZM	Arrival	11	-	-
14-Feb	10:09	3A062	YFT	Arrival	13.4	-	-
14-Feb	10:29	3A163	YFT	Departure	14	-	-
14-Feb	10:41	3A081	ZUI	Arrival	13.2	-	-
14-Feb	10:45	8S212	XZM	Arrival	12.1	-	-
14-Feb	11:06	8S121	XZM	Departure	12.3	-	-
14-Feb	11:15	3A063	YFT	Arrival	12.6	-	-
14-Feb	12:19	3A181	ZUI	Departure	12.4	-	-
14-Feb	12:24	3A168	YFT	Departure	12.6	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [XZM - Macao (Maritime Ferry Terminal) YFT – Macao (Taipa) ZUI - Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
14-Feb	12:45	8S215	XZM	Arrival	12.4	-	-
14-Feb	12:50	3A064	YFT	Arrival	13.6	-	-
14-Feb	13:21	8S123	XZM	Departure	12.6	-	-
14-Feb	13:56	3A082	ZUI	Arrival	13	-	-
14-Feb	14:22	3A182	ZUI	Departure	12	-	-
14-Feb	14:23	3A164	YFT	Departure	13.7	-	-
14-Feb	14:57	3A065	YFT	Arrival	11.9	-	-
14-Feb	16:21	3A167	YFT	Departure	12.5	-	-
14-Feb	16:44	8S218	XZM	Arrival	10.1	-	-
14-Feb	16:50	3A067	YFT	Arrival	13	-	-
14-Feb	16:52	3A083	ZUI	Arrival	13.2	-	-
14-Feb	17:10	8S126	XZM	Departure	12.7	-	-
14-Feb	17:16	3A183	ZUI	Departure	12.7	-	-
14-Feb	19:13	3A166	YFT	Departure	13.1	-	-
14-Feb	19:47	3A084	ZUI	Arrival	12.8	-	-
14-Feb	20:26	3A185	ZUI	Departure	12.8	-	-
14-Feb	20:57	8S2113	XZM	Arrival	11.7	-	-
14-Feb	21:09	3A169	YFT	Departure	12.9	-	-
14-Feb	22:10	8S522	XZM	Departure	11.9	-	-
15-Feb	08:16	3A061	YFT	Arrival	11.9	-	-
15-Feb	08:19	8S210	XZM	Arrival	12.3	-	-
15-Feb	10:00	3A062	YFT	Arrival	11.5	-	-
15-Feb	10:14	3A163	YFT	Departure	11.7	-	-
15-Feb	10:39	8S212	XZM	Arrival	12.6	-	-
15-Feb	10:41	3A081	ZUI	Arrival	12.6	-	-
15-Feb	11:04	8S121	XZM	Departure	12.5	-	-
15-Feb	11:16	3A063	YFT	Arrival	12.4	-	-
15-Feb	12:10	3A181	ZUI	Departure	13	-	-
15-Feb	12:13	3A168	YFT	Departure	13.1	-	-
15-Feb	12:44	8S215	XZM	Arrival	12.7	-	-
15-Feb	12:49	3A064	YFT	Arrival	12.1	-	-
15-Feb	13:15	8S123	XZM	Departure	12.1	-	-
15-Feb	14:00	3A082	ZUI	Arrival	12.2	-	-
15-Feb	14:17	3A164	YFT	Departure	11.9	-	-
15-Feb	14:18	3A182	ZUI	Departure	12.2	-	-
15-Feb	14:56	3A065	YFT	Arrival	12.6	-	-
15-Feb	16:11	3A167	YFT	Departure	12.7	-	-
15-Feb	16:37	3A083	ZUI	Arrival	13.7	-	-
15-Feb	16:42	8S218	XZM	Arrival	12.7	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [XZM - 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-Feb	16:51	3A067	YFT	Arrival	12.2	-	-
15-Feb	17:03	8S126	XZM	Departure	12.8	-	-
15-Feb	17:06	3A183	ZUI	Departure	13.1	-	-
15-Feb	19:01	3A166	YFT	Departure	11.6	-	-
15-Feb	19:44	3A084	ZUI	Arrival	12.5	-	-
15-Feb	20:07	3A185	ZUI	Departure	13.4	-	-
15-Feb	20:55	8S2113	XZM	Arrival	12.3	-	-
15-Feb	20:56	3A169	YFT	Departure	12.7	> 15	< 1min
15-Feb	21:57	8S522	XZM	Departure	12.8	-	-
16-Feb	08:16	3A061	YFT	Arrival	12.6	<= 5	< 1min
16-Feb	08:39	8S210	XZM	Arrival	10.5	-	-
16-Feb	10:12	3A062	YFT	Arrival	11.4	-	-
16-Feb	10:28	3A163	YFT	Departure	11.3	-	-
16-Feb	10:42	3A081	ZUI	Arrival	12.5	-	-
16-Feb	11:11	8S212	XZM	Arrival	11.6	-	-
16-Feb	11:30	8S121	XZM	Departure	11.7	-	-
16-Feb	11:33	3A063	YFT	Arrival	11.5	-	-
16-Feb	12:08	3A181	ZUI	Departure	12.8	-	-
16-Feb	12:14	3A168	YFT	Departure	11.4	-	-
16-Feb	12:45	8S215	XZM	Arrival	12.1	-	-
16-Feb	13:13	3A064	YFT	Arrival	11.2	-	-
16-Feb	13:25	8S123	XZM	Departure	12.2	-	-
16-Feb	13:57	3A082	ZUI	Arrival	13.3	-	-
16-Feb	14:17	3A164	YFT	Departure	11	-	-
16-Feb	14:22	3A182	ZUI	Departure	12.2	-	-
16-Feb	14:55	3A065	YFT	Arrival	11.8	-	-
16-Feb	16:14	3A167	YFT	Departure	11.2	-	-
16-Feb	16:45	8S218	XZM	Arrival	13.4	-	-
16-Feb	16:47	3A083	ZUI	Arrival	12.7	-	-
16-Feb	17:01	3A183	ZUI	Departure	13.4	-	-
16-Feb	17:03	3A067	YFT	Arrival	11.1	-	-
16-Feb	17:03	8S126	XZM	Departure	12.9	-	-
16-Feb	19:05	3A166	YFT	Departure	13.8	-	-
16-Feb	19:45	3A084	ZUI	Arrival	13.2	-	-
16-Feb	20:05	3A185	ZUI	Departure	12.7	-	-
16-Feb	20:48	8S2113	XZM	Arrival	12.5	-	-
16-Feb	21:02	3A169	YFT	Departure	12.9	-	-
16-Feb	21:54	8S522	XZM	Departure	13	-	-
17-Feb	08:16	3A061	YFT	Arrival	10.6	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [XZM - 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-Feb	08:42	8S210	XZM	Arrival	12.1	-	-
17-Feb	10:02	3A062	YFT	Arrival	12	-	-
17-Feb	10:17	3A163	YFT	Departure	12.3	-	-
17-Feb	10:30	8S212	XZM	Arrival	12.9	-	-
17-Feb	10:50	3A081	ZUI	Arrival	13.2	-	-
17-Feb	10:54	8S121	XZM	Departure	12.6	-	-
17-Feb	11:23	3A063	YFT	Arrival	10.3	-	-
17-Feb	12:15	3A168	YFT	Departure	11.4	-	-
17-Feb	12:16	3A181	ZUI	Departure	13.1	-	-
17-Feb	12:44	8S215	XZM	Arrival	11.3	-	-
17-Feb	12:56	3A064	YFT	Arrival	12.3	-	-
17-Feb	13:19	8S123	XZM	Departure	11.8	-	-
17-Feb	13:41	3A082	ZUI	Arrival	12.9	-	-
17-Feb	14:12	3A182	ZUI	Departure	12.4	-	-
17-Feb	14:19	3A164	YFT	Departure	12.6	-	-
17-Feb	15:02	3A065	YFT	Arrival	11	-	-
17-Feb	16:12	3A167	YFT	Departure	11.3	-	-
17-Feb	16:43	8S218	XZM	Arrival	11.2	-	-
17-Feb	16:46	3A083	ZUI	Arrival	12.8	-	-
17-Feb	16:57	3A067	YFT	Arrival	12.4	-	-
17-Feb	17:02	8S126	XZM	Departure	12	-	-
17-Feb	17:06	3A183	ZUI	Departure	12.8	-	-
17-Feb	19:01	3A166	YFT	Departure	13.1	-	-
17-Feb	19:47	3A084	ZUI	Arrival	12.4	-	-
17-Feb	20:11	3A185	ZUI	Departure	13.1	-	-
17-Feb	20:58	3A169	YFT	Departure	12.3	-	-
17-Feb	21:04	8S2113	XZM	Arrival	12.5	-	-
17-Feb	21:59	8S522	XZM	Departure	13	-	-
18-Feb	08:18	3A061	YFT	Arrival	12.4	-	-
18-Feb	08:30	8S210	XZM	Arrival	11.7	-	-
18-Feb	10:04	3A062	YFT	Arrival	12.1	-	-
18-Feb	10:18	3A163	YFT	Departure	12.5	-	-
18-Feb	10:43	3A081	ZUI	Arrival	13.5	-	-
18-Feb	10:46	8S212	XZM	Arrival	12.1	-	-
18-Feb	11:05	8S121	XZM	Departure	12.5	-	-
18-Feb	11:14	3A063	YFT	Arrival	12.1	-	-
18-Feb	12:13	3A168	YFT	Departure	12.6	-	-
18-Feb	12:15	3A181	ZUI	Departure	12.3	-	-
18-Feb	12:43	8S215	XZM	Arrival	11.4	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [XZM - 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)
18-Feb	12:53	3A064	YFT	Arrival	12.1	-	-
18-Feb	13:15	8S123	XZM	Departure	10.9	-	-
18-Feb	13:41	3A082	ZUI	Arrival	12.3	-	-
18-Feb	14:19	3A164	YFT	Departure	12.1	-	-
18-Feb	14:21	3A182	ZUI	Departure	11.8	-	-
18-Feb	14:57	3A065	YFT	Arrival	12.6	-	-
18-Feb	16:13	3A167	YFT	Departure	12.6	<= 10	< 1min
18-Feb	16:46	8S218	XZM	Arrival	11.7	-	-
18-Feb	16:51	3A083	ZUI	Arrival	12.3	-	-
18-Feb	16:55	3A067	YFT	Arrival	12.3	-	-
18-Feb	17:09	8S126	XZM	Departure	11.4	-	-
18-Feb	17:11	3A183	ZUI	Departure	13	-	-
18-Feb	18:56	3A166	YFT	Departure	12.2	-	-
18-Feb	19:44	3A084	ZUI	Arrival	12.9	-	-
18-Feb	20:14	3A185	ZUI	Departure	12.7	-	-
18-Feb	20:54	8S2113	XZM	Arrival	10.9	-	-
18-Feb	21:01	3A169	YFT	Departure	12.2	-	-
18-Feb	22:18	8S522	XZM	Departure	11.3	-	-
19-Feb	08:23	8S210	XZM	Arrival	13	-	-
19-Feb	08:25	3A061	YFT	Arrival	10.6	<= 5	< 1min
19-Feb	10:00	3A062	YFT	Arrival	12.7	<= 5	< 1min
19-Feb	10:17	3A163	YFT	Departure	13.4	-	-
19-Feb	10:31	3A081	ZUI	Arrival	12.1	-	-
19-Feb	10:42	8S212	XZM	Arrival	12.1	-	-
19-Feb	10:56	8S121	XZM	Departure	13.1	-	-
19-Feb	11:14	3A063	YFT	Arrival	13.2	-	-
19-Feb	12:17	3A168	YFT	Departure	13.8	-	-
19-Feb	12:22	3A181	ZUI	Departure	11.9	-	-
19-Feb	12:42	8S215	XZM	Arrival	12.2	-	-
19-Feb	12:51	3A064	YFT	Arrival	13.4	<= 5	< 1min
19-Feb	13:27	8S123	XZM	Departure	10.1	-	-
19-Feb	14:01	3A082	ZUI	Arrival	13.5	-	-
19-Feb	14:26	3A164	YFT	Departure	13.4	-	-
19-Feb	14:29	3A182	ZUI	Departure	12	-	-
19-Feb	14:53	3A065	YFT	Arrival	13.8	-	-
19-Feb	16:10	3A167	YFT	Departure	12.7	-	-
19-Feb	16:45	8S218	XZM	Arrival	11.4	-	-
19-Feb	16:48	3A083	ZUI	Arrival	12.5	-	-
19-Feb	16:55	3A067	YFT	Arrival	13.3	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [XZM - 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-Feb	17:03	8S126	XZM	Departure	11.7	-	-
19-Feb	17:14	3A183	ZUI	Departure	11.8	-	-
19-Feb	18:59	3A166	YFT	Departure	11.8	-	-
19-Feb	19:45	3A084	ZUI	Arrival	13.2	-	-
19-Feb	20:09	3A185	ZUI	Departure	12.8	-	-
19-Feb	20:56	8S2113	XZM	Arrival	12	-	-
19-Feb	20:57	3A169	YFT	Departure	12.9	-	-
19-Feb	21:57	8S522	XZM	Departure	12.6	-	-
20-Feb	08:23	8S210	XZM	Arrival	11.6	-	-
20-Feb	08:24	3A061	YFT	Arrival	12	-	-
20-Feb	10:02	3A062	YFT	Arrival	11.1	-	-
20-Feb	10:15	3A163	YFT	Departure	11.8	-	-
20-Feb	10:36	8S212	XZM	Arrival	11.2	-	-
20-Feb	10:42	3A081	ZUI	Arrival	13.2	-	-
20-Feb	11:00	8S121	XZM	Departure	11.5	-	-
20-Feb	11:15	3A063	YFT	Arrival	11.5	-	-
20-Feb	12:19	3A168	YFT	Departure	12.1	-	-
20-Feb	12:22	3A181	ZUI	Departure	12.6	-	-
20-Feb	12:41	8S215	XZM	Arrival	12.4	-	-
20-Feb	12:55	3A064	YFT	Arrival	11	-	-
20-Feb	13:12	8S123	XZM	Departure	12.4	-	-
20-Feb	13:57	3A082	ZUI	Arrival	12.4	-	-
20-Feb	14:21	3A164	YFT	Departure	10.1	-	-
20-Feb	14:22	3A182	ZUI	Departure	12	-	-
20-Feb	14:52	3A065	YFT	Arrival	11.8	-	-
20-Feb	16:16	3A167	YFT	Departure	11.4	-	-
20-Feb	16:51	3A083	ZUI	Arrival	12.4	-	-
20-Feb	16:51	8S218	XZM	Arrival	11.8	-	-
20-Feb	17:01	3A067	YFT	Arrival	11.7	-	-
20-Feb	17:11	8S126	XZM	Departure	12.3	-	-
20-Feb	17:16	3A183	ZUI	Departure	12.2	-	-
20-Feb	19:09	3A166	YFT	Departure	10.3	-	-
20-Feb	19:45	3A084	ZUI	Arrival	11.2	-	-
20-Feb	20:18	3A185	ZUI	Departure	12.4	<= 5	< 1min
20-Feb	20:48	8S2113	XZM	Arrival	12.1	-	-
20-Feb	21:01	3A169	YFT	Departure	12.3	-	-
20-Feb	22:03	8S522	XZM	Departure	12	-	-
21-Feb	08:11	3A061	YFT	Arrival	11.8	-	-
21-Feb	08:24	8S210	XZM	Arrival	12.4	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [XZM - Macao (Maritime Ferry Terminal) YFT – Macao (Taipa) ZUI - Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
21-Feb	10:02	3A062	YFT	Arrival	13.1	-	-
21-Feb	10:33	3A163	YFT	Departure	13.5	-	-
21-Feb	10:51	8S212	XZM	Arrival	12.6	-	-
21-Feb	10:56	3A081	ZUI	Arrival	12.9	-	-
21-Feb	11:08	8S121	XZM	Departure	12.6	-	-
21-Feb	11:19	3A063	YFT	Arrival	11.7	-	-
21-Feb	12:16	3A168	YFT	Departure	11.7	-	-
21-Feb	12:17	3A181	ZUI	Departure	12.6	-	-
21-Feb	12:46	8S215	XZM	Arrival	10.4	-	-
21-Feb	13:04	3A064	YFT	Arrival	13.5	-	-
21-Feb	13:15	8S123	XZM	Departure	11.8	-	-
21-Feb	14:01	3A082	ZUI	Arrival	12.4	-	-
21-Feb	14:16	3A164	YFT	Departure	13.4	-	-
21-Feb	14:19	3A182	ZUI	Departure	12.3	-	-
21-Feb	15:03	3A065	YFT	Arrival	11.8	-	-
21-Feb	16:19	3A167	YFT	Departure	11.6	-	-
21-Feb	16:54	3A083	ZUI	Arrival	12.9	-	-
21-Feb	16:57	8S218	XZM	Arrival	11.1	-	-
21-Feb	17:07	3A067	YFT	Arrival	12.7	-	-
21-Feb	17:19	8S126	XZM	Departure	10.4	-	-
21-Feb	17:22	3A183	ZUI	Departure	13.1	-	-
21-Feb	19:17	3A166	YFT	Departure	12.5	-	-
21-Feb	19:58	3A084	ZUI	Arrival	13.1	-	-
21-Feb	20:38	3A185	ZUI	Departure	13.3	-	-
21-Feb	20:59	8S2113	XZM	Arrival	11.9	-	-
21-Feb	21:16	3A169	YFT	Departure	13.6	-	-
21-Feb	22:13	8S522	XZM	Departure	11.9	-	-
22-Feb	08:18	3A061	YFT	Arrival	12.5	-	-
22-Feb	08:21	8S210	XZM	Arrival	11.9	-	-
22-Feb	10:13	3A062	YFT	Arrival	10.5	-	-
22-Feb	10:32	3A163	YFT	Departure	11.1	-	-
22-Feb	10:48	8S212	XZM	Arrival	11	-	-
22-Feb	10:57	3A081	ZUI	Arrival	12.8	-	-
22-Feb	11:09	8S121	XZM	Departure	11.5	-	-
22-Feb	11:15	3A063	YFT	Arrival	12	-	-
22-Feb	12:31	3A181	ZUI	Departure	12.4	-	-
22-Feb	12:35	3A168	YFT	Departure	12.4	-	-
22-Feb	12:56	8S215	XZM	Arrival	12.7	-	-
22-Feb	13:19	8S123	XZM	Departure	13	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [XZM - 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-Feb	13:24	3A064	YFT	Arrival	10.6	-	-
22-Feb	14:03	3A082	ZUI	Arrival	12.8	-	-
22-Feb	14:19	3A164	YFT	Departure	11.2	-	-
22-Feb	14:21	3A182	ZUI	Departure	12.3	-	-
22-Feb	14:59	3A065	YFT	Arrival	12.1	-	-
22-Feb	16:20	3A167	YFT	Departure	12.5	-	-
22-Feb	17:08	8S218	XZM	Arrival	11.8	-	-
22-Feb	17:15	3A067	YFT	Arrival	10.9	-	-
22-Feb	17:16	3A083	ZUI	Arrival	13.3	-	-
22-Feb	17:24	8S126	XZM	Departure	13	-	-
22-Feb	17:39	3A183	ZUI	Departure	12.6	-	-
22-Feb	19:20	3A166	YFT	Departure	13.1	-	-
22-Feb	19:52	3A084	ZUI	Arrival	12.9	-	-
22-Feb	20:25	3A185	ZUI	Departure	12.6	-	-
22-Feb	21:12	8S2113	XZM	Arrival	11.6	-	-
22-Feb	21:17	3A169	YFT	Departure	12.5	-	-
22-Feb	22:18	8S522	XZM	Departure	12.4	-	-
23-Feb	08:16	3A061	YFT	Arrival	11.8	-	-
23-Feb	08:25	8S210	XZM	Arrival	11.8	-	-
23-Feb	09:54	3A062	YFT	Arrival	11.8	-	-
23-Feb	10:30	3A163	YFT	Departure	11.9	-	-
23-Feb	10:49	8S212	XZM	Arrival	12.1	-	-
23-Feb	10:57	3A081	ZUI	Arrival	13.2	-	-
23-Feb	11:10	8S121	XZM	Departure	12.8	-	-
23-Feb	11:17	3A063	YFT	Arrival	12.2	-	-
23-Feb	12:21	3A181	ZUI	Departure	13.2	-	-
23-Feb	12:22	3A168	YFT	Departure	12.1	-	-
23-Feb	12:51	8S215	XZM	Arrival	11.4	-	-
23-Feb	13:06	3A064	YFT	Arrival	11.8	-	-
23-Feb	13:13	8S123	XZM	Departure	12.1	-	-
23-Feb	13:41	3A082	ZUI	Arrival	13.5	-	-
23-Feb	14:25	3A164	YFT	Departure	11.8	-	-
23-Feb	14:31	3A182	ZUI	Departure	12.9	-	-
23-Feb	14:54	3A065	YFT	Arrival	12.7	-	-
23-Feb	16:26	3A167	YFT	Departure	12.6	-	-
23-Feb	17:07	8S218	XZM	Arrival	11.3	-	-
23-Feb	17:11	3A083	ZUI	Arrival	13.5	-	-
23-Feb	17:14	3A067	YFT	Arrival	12.3	-	-
23-Feb	17:26	8S126	XZM	Departure	11.8	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [XZM - Macao (Maritime Ferry Terminal) YFT – Macao (Taipa) ZUI - Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
23-Feb	17:31	3A183	ZUI	Departure	13.4	-	-
23-Feb	19:21	3A166	YFT	Departure	11.8	-	-
23-Feb	20:08	3A084	ZUI	Arrival	13.6	-	-
23-Feb	20:35	3A185	ZUI	Departure	12.3	-	-
23-Feb	21:01	8S2113	XZM	Arrival	12.4	-	-
23-Feb	21:12	3A169	YFT	Departure	11.8	-	-
23-Feb	22:06	8S522	XZM	Departure	13.4	-	-
24-Feb	08:16	3A061	YFT	Arrival	11.4	-	-
24-Feb	08:16	8S210	XZM	Arrival	13	-	-
24-Feb	09:59	3A062	YFT	Arrival	12	-	-
24-Feb	10:45	8S212	XZM	Arrival	11.6	-	-
24-Feb	10:49	3A163	YFT	Departure	12.1	-	-
24-Feb	10:59	3A081	ZUI	Arrival	13	-	-
24-Feb	11:20	8S121	XZM	Departure	11.4	-	-
24-Feb	11:27	3A063	YFT	Arrival	12.6	-	-
24-Feb	12:24	3A168	YFT	Departure	13.5	-	-
24-Feb	12:27	3A181	ZUI	Departure	12.9	-	-
24-Feb	13:05	8S215	XZM	Arrival	11.9	-	-
24-Feb	13:10	3A064	YFT	Arrival	11.8	-	-
24-Feb	13:27	8S123	XZM	Departure	11.3	-	-
24-Feb	13:52	3A082	ZUI	Arrival	12.9	-	-
24-Feb	14:28	3A164	YFT	Departure	12.3	-	-
24-Feb	14:31	3A182	ZUI	Departure	13.6	-	-
24-Feb	14:55	3A065	YFT	Arrival	13	-	-
24-Feb	16:16	3A167	YFT	Departure	13.3	-	-
24-Feb	17:05	3A083	ZUI	Arrival	13.4	-	-
24-Feb	17:05	8S218	XZM	Arrival	11.2	-	-
24-Feb	17:09	3A067	YFT	Arrival	12.7	-	-
24-Feb	17:23	3A183	ZUI	Departure	12.8	-	-
24-Feb	17:28	8S126	XZM	Departure	12.8	-	-
24-Feb	19:19	3A166	YFT	Departure	11.5	-	-
24-Feb	19:57	3A084	ZUI	Arrival	13.3	-	-
24-Feb	20:16	3A185	ZUI	Departure	13	-	-
24-Feb	21:01	8S2113	XZM	Arrival	11.5	-	-
24-Feb	21:04	3A169	YFT	Departure	11	-	-
24-Feb	22:01	8S522	XZM	Departure	11.2	-	-
25-Feb	08:16	3A061	YFT	Arrival	12.2	-	-
25-Feb	08:20	8S210	XZM	Arrival	12.3	-	-
25-Feb	10:08	3A062	YFT	Arrival	12.7	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [XZM - 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)
25-Feb	10:22	3A163	YFT	Departure	13.3	-	-
25-Feb	10:50	3A081	ZUI	Arrival	12.6	-	-
25-Feb	10:59	8S212	XZM	Arrival	11.9	-	-
25-Feb	11:15	3A063	YFT	Arrival	11	-	-
25-Feb	11:15	8S121	XZM	Departure	12.8	-	-
25-Feb	12:19	3A168	YFT	Departure	13.6	-	-
25-Feb	12:25	3A181	ZUI	Departure	13	-	-
25-Feb	12:54	8S215	XZM	Arrival	11.9	-	-
25-Feb	12:55	3A064	YFT	Arrival	12.8	-	-
25-Feb	13:20	8S123	XZM	Departure	11.5	-	-
25-Feb	14:01	3A082	ZUI	Arrival	12.4	-	-
25-Feb	14:25	3A164	YFT	Departure	12.8	-	-
25-Feb	14:27	3A182	ZUI	Departure	12.9	-	-
25-Feb	14:57	3A065	YFT	Arrival	10.8	-	-
25-Feb	16:20	3A167	YFT	Departure	13.6	-	-
25-Feb	16:56	3A083	ZUI	Arrival	12.6	-	-
25-Feb	17:00	8S218	XZM	Arrival	11.6	-	-
25-Feb	17:05	3A067	YFT	Arrival	12.5	-	-
25-Feb	17:35	3A183	ZUI	Departure	13.6	-	-
25-Feb	17:50	8S126	XZM	Departure	11.4	-	-
25-Feb	19:06	3A166	YFT	Departure	12.9	-	-
25-Feb	20:06	3A084	ZUI	Arrival	13.1	-	-
25-Feb	20:20	3A185	ZUI	Departure	13.2	-	-
25-Feb	20:57	8S2113	XZM	Arrival	13.1	-	-
25-Feb	21:05	3A169	YFT	Departure	11.6	-	-
25-Feb	22:04	8S522	XZM	Departure	12.6	-	-
26-Feb	08:13	3A061	YFT	Arrival	13.4	-	-
26-Feb	08:20	8S210	XZM	Arrival	12.1	-	-
26-Feb	09:54	3A062	YFT	Arrival	11.8	-	-
26-Feb	10:15	3A163	YFT	Departure	11.4	-	-
26-Feb	10:40	3A081	ZUI	Arrival	13.5	-	-
26-Feb	10:42	8S212	XZM	Arrival	12.9	-	-
26-Feb	11:05	8S121	XZM	Departure	13.4	-	-
26-Feb	11:19	3A063	YFT	Arrival	13.6	-	-
26-Feb	12:18	3A168	YFT	Departure	13.6	-	-
26-Feb	12:19	3A181	ZUI	Departure	12.8	-	-
26-Feb	12:43	8S215	XZM	Arrival	11.2	-	-
26-Feb	12:55	3A064	YFT	Arrival	11.6	-	-
26-Feb	13:16	8S123	XZM	Departure	11.9	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [XZM - 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-Feb	13:48	3A082	ZUI	Arrival	12.7	-	-
26-Feb	14:16	3A182	ZUI	Departure	12.8	-	-
26-Feb	14:18	3A164	YFT	Departure	11.6	-	-
26-Feb	14:54	3A065	YFT	Arrival	13.2	-	-
26-Feb	16:13	3A167	YFT	Departure	13.5	-	-
26-Feb	17:00	8S218	XZM	Arrival	10.3	-	-
26-Feb	17:02	3A083	ZUI	Arrival	13	-	-
26-Feb	17:03	3A067	YFT	Arrival	11.1	-	-
26-Feb	17:24	8S126	XZM	Departure	12.8	-	-
26-Feb	17:29	3A183	ZUI	Departure	14	-	-
26-Feb	19:03	3A166	YFT	Departure	11.6	-	-
26-Feb	20:02	3A084	ZUI	Arrival	13.1	-	-
26-Feb	20:24	3A185	ZUI	Departure	13	-	-
26-Feb	20:50	8S2113	XZM	Arrival	11.6	-	-
26-Feb	21:13	3A169	YFT	Departure	12.6	-	-
26-Feb	22:03	8S522	XZM	Departure	12.4	-	-
27-Feb	08:15	3A061	YFT	Arrival	11.5	-	-
27-Feb	08:20	8S210	XZM	Arrival	11.3	-	-
27-Feb	10:06	3A062	YFT	Arrival	11.1	-	-
27-Feb	10:33	3A163	YFT	Departure	12.9	-	-
27-Feb	10:42	8S212	XZM	Arrival	12.9	-	-
27-Feb	10:46	3A081	ZUI	Arrival	12.7	-	-
27-Feb	11:09	8S121	XZM	Departure	12.3	-	-
27-Feb	11:17	3A063	YFT	Arrival	11.6	-	-
27-Feb	12:14	3A168	YFT	Departure	11.3	-	-
27-Feb	12:19	3A181	ZUI	Departure	12.8	-	-
27-Feb	12:48	8S215	XZM	Arrival	12.6	-	-
27-Feb	12:55	3A064	YFT	Arrival	12	-	-
27-Feb	13:12	8S123	XZM	Departure	12.8	-	-
27-Feb	13:46	3A082	ZUI	Arrival	12.5	-	-
27-Feb	14:21	3A164	YFT	Departure	12.9	-	-
27-Feb	14:26	3A182	ZUI	Departure	12	-	-
27-Feb	14:56	3A065	YFT	Arrival	11.5	-	-
27-Feb	16:17	3A167	YFT	Departure	11.7	-	-
27-Feb	16:43	8S218	XZM	Arrival	11.4	-	-
27-Feb	17:06	3A083	ZUI	Arrival	13.2	-	-
27-Feb	17:06	3A067	YFT	Arrival	10.8	-	-
27-Feb	17:25	3A183	ZUI	Departure	12.7	-	-
27-Feb	17:59	8S126	XZM	Departure	11.7	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [XZM - Macao (Maritime Ferry Terminal) YFT – Macao (Taipa) ZUI - Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
27-Feb	19:06	3A166	YFT	Departure	11.8	-	-
27-Feb	19:46	3A084	ZUI	Arrival	13.1	-	-
27-Feb	20:07	3A185	ZUI	Departure	13.6	-	-
27-Feb	20:54	8S2113	XZM	Arrival	12.2	-	-
27-Feb	21:08	3A169	YFT	Departure	13.6	-	-
27-Feb	22:00	8S522	XZM	Departure	12.1	-	-
28-Feb	08:20	3A061	YFT	Arrival	10.9	-	-
28-Feb	08:22	8S210	XZM	Arrival	12.7	-	-
28-Feb	10:06	3A062	YFT	Arrival	12.3	-	-
28-Feb	10:20	3A163	YFT	Departure	12.3	-	-
28-Feb	10:46	8S212	XZM	Arrival	11	-	-
28-Feb	10:47	3A081	ZUI	Arrival	13.1	-	-
28-Feb	11:11	8S121	XZM	Departure	12.6	-	-
28-Feb	11:17	3A063	YFT	Arrival	12	-	-
28-Feb	12:20	3A168	YFT	Departure	12.1	-	-
28-Feb	12:22	3A181	ZUI	Departure	12.6	-	-
28-Feb	12:51	3A064	YFT	Arrival	12.6	-	-
28-Feb	12:51	8S215	XZM	Arrival	12.5	-	-
28-Feb	13:21	8S123	XZM	Departure	11.7	-	-
28-Feb	14:06	3A082	ZUI	Arrival	12.7	-	-
28-Feb	14:23	3A164	YFT	Departure	12.8	-	-
28-Feb	14:28	3A182	ZUI	Departure	12.7	-	-
28-Feb	14:53	3A065	YFT	Arrival	12.1	-	-
28-Feb	16:25	3A167	YFT	Departure	12.4	-	-
28-Feb	16:44	3A083	ZUI	Arrival	13.3	-	-
28-Feb	16:47	8S218	XZM	Arrival	11.5	-	-
28-Feb	16:54	3A067	YFT	Arrival	12.1	-	-
28-Feb	17:09	8S126	XZM	Departure	12.4	-	-
28-Feb	17:16	3A183	ZUI	Departure	12.8	-	-
28-Feb	19:04	3A166	YFT	Departure	12	-	-
28-Feb	19:51	3A084	ZUI	Arrival	13.1	-	-
28-Feb	20:38	3A185	ZUI	Departure	13.1	-	-
28-Feb	21:03	8S2113	XZM	Arrival	12.3	-	-
28-Feb	21:21	3A169	YFT	Departure	11.7	-	-
28-Feb	22:08	8S522	XZM	Departure	12.5	-	-

Follow-up on instantaneous speeding

Referring to the data of SkyPier HSF movements in February 2018, 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 12 HSF movements of which the durations of all instantaneous speeding cases were less than one minute. The AIS data and ferry operators' responses

showed the cases were due to local strong water currents. The captains had reduced speed and maintained the speed at less than 15 knots after the incidents.

Two HSFs with insufficient transmission of AIS data were received in February2018. Vessel captains were requested to provide the AIS plots to indicate the vessel entered the SCZ though the gate access points with no speeding in the SCZ.