MOTT MACDONALD

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

Construction Phase Monthly EM&A Report No. 73 (For January 2022)

February 2022

Airport Authority Hong Kong

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Mott MacDonald Hong Kong Limited
registered in Hong Kong no. 236497

Airport Authority Hong Kong

This Monthly EM&A Report No. 73 has been reviewed and certified by the Environmental Team Leader (ETL) in accordance with Condition 3.5 of Environmental Permit No. EP-489/2014.

Certified by: 

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

Date 14 February 2022

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By Email

Airport Authority Hong Kong
HKIA Tower, 1 Sky Plaza Road
Hong Kong International Airport
Lantau, Hong Kong

Attn: Mr. Lawrence Tsui, Principal Manager, Environmental Compliance

14 February 2022

Dear Sir,

Contract No. 3102
3RS Independent Environmental Checker Consultancy Services

Submission of Monthly EM&A Report No. 73 (January 2022)

Reference is made to the Environmental Team's submission of the Monthly EM&A Report No. 73 under Condition 3.5 of the Environmental Permit No. EP-489/2014 certified by the ET Leader on 14 February 2022.

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
CTCC	Construction Traffic Control Centre
CWD	Chinese White Dolphin
DCM	Deep Cement Mixing
DEZ	Dolphin Exclusion Zone
DO	Dissolved Oxygen
EIA	Environmental Impact Assessment
EM&A	Environmental Monitoring & Audit
EP	Environmental Permit
EPD	Environmental Protection Department
EPSS	Emergency Power Supply Systems
ET	Environmental Team
FCZ	Fish Culture Zone
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	Maritime 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
PM	Project Manager
SC	Sha Chau
SCZ	Speed Control Zone
SCLKCMP	Sha Chau and Lung Kwu Chau Marine Park
SS	Suspended Solids
SSSI	Site of Special Scientific Interest
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 73rd Construction Phase Monthly EM&A Report for the Project which summarises the monitoring results and audit findings of the EM&A programme during the reporting period from 1 to 31 January 2022.

Key Activities in the Reporting Period

The key activities of the Project carried out in the reporting period are located in reclamation areas and existing airport island respectively. Works in the reclamation areas included seawall construction, filling and ground improvement works, together with runway, concourse and associated works. Land-based works on existing airport island involved mainly airfield works, Terminal 2 expansion works, modification and tunnel work for Automated People Mover (APM) and Baggage Handling System (BHS), and preparation work for utilities, with activities include road and drainage works, cable ducting, demolition, 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	36
Noise monitoring	18
Water quality monitoring	14
Vessel line-transect surveys for Chinese White Dolphin (CWD) monitoring	2
Land-based theodolite tracking survey effort for CWD monitoring	2

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 Maritime Surveillance System (MSS), and contractors' site records, it is noted that environmental pollution control and mitigation measures were properly implemented and construction activities 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

		
Land-based Theodolite Tracking Survey for CWD at Sha Chau	Automatic Wheel Washing Facilities Maintained by Contractor	Inspection of Contractor's Wastewater Treatment Facility by ET

Results of Impact Monitoring

The monitoring works for construction dust, construction noise, water quality, construction waste, landscape & visual, 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 all parameters, except suspended solids (SS), obtained during the reporting period were within the corresponding Action and Limit Levels stipulated in the EM&A programme. Relevant investigation and follow-up actions will be conducted according to the EM&A programme if the corresponding Action and Limit Levels are triggered. For SS, some of the testing results triggered the relevant Action Levels, and the corresponding investigations were conducted accordingly. The investigation findings revealed that the cases were not related to the Project. To conclude, the construction activities in the reporting period did not introduce adverse impact to all water quality sensitive receivers.

Summary of Upcoming Key Issues

Reclamation Works:

Contract 3206 Main Reclamation Works

- Seawall construction; and
- Backfilling works.

Airfield Works

Contract 3301 North Runway Crossover Taxiway

- Cabling works; and
- Stockpiling.

Contract 3302 Eastern Vehicular Tunnel Advance Works

- Construction of tunnel structure;
- Pipe and drainage diversion works;
- Excavation and lateral support systems installation; and
- Stockpiling.

Contract 3303 Third Runway and Associated Works

- Architectural, Builder's and Finishing works;
- Footing and utilities work;
- Box culvert construction;

- Piling work;
- Operation of asphalt plant; and
- Cable laying and ducting works.

Contract 3305 Airfield Ground Lighting System

- Cabling works;
- Network installation; and
- Genset installation.

Contract 3306 Observation Facility Control System Supporting Interim 2RS and 3RS

- Equipment installation;
- Cabling works; and
- Installation of temporary site accommodation.

Contract 3307 Fire Training Facility

- Architectural, Builder's and Finishing works;
- Drainage and utilities works; and
- Building construction.

Contract 3308 Foreign Object Debris Detection System

- Site formation; and
- Foreign Object Debris Tower installation.

Contract 3310 North Runway Modification Works

- Cutter soil mixing;
- Deep cement mixing; and
- Pre-boring.

Third Runway Concourse:

Contract 3403 New Integrated Airport Centres Building and Civil Works

- Architectural, Builder's Work and Finishing works;
- Steel frame installation;
- Road and drainage works;
- Backfilling; and
- Underground utilities construction.

Contract 3404 Integrated Airport Control System

- Equipment installation; and
- Cable laying.

Contract 3405 Third Runway Concourse Foundation and Substructure Works

- Sheet piling and bored piling;
- Excavation and backfilling; and
- Road formation.

Contract 3408 Third Runway Concourse and Apron Works

- Site setup works; and
- Excavation and lateral support works.

Terminal 2 Expansion:

Contract 3508 Terminal 2 Expansion Works

- Excavation and footing construction;
- Bridge demolition;

- Piling works;
- Drainage works;
- Temporary road construction;
- TBM mobilization; and
- Architectural, Builder's Work and Finishing works.

Automated People Mover (APM) and Baggage Handling System (BHS):

Contract 3601 New Automated People Mover System (TRC Line)

- Pull out test for guideway;
- Guidebeam installation; and
- Concreting work.

Contract 3602 Existing APM System Modification Works

- Car modification; and
- Concrete plinth and stitch construction.

Contract 3603 Baggage Handling System (BHS)

- BHS installation.

Construction Support (Facilities):

Contract 3721 Construction Support Infrastructure Works

- Laying of drainage pipes and ducts;
- Site clearance;
- Paving works; and
- Road works.

Contract 3723 Construction Support Facilities

- Clearance works; and
- Footing works.

Airport Support Infrastructure:

Contract 3801 APM and BHS Tunnels on Existing Airport Island

- Excavation;
- Parapet wall construction; and
- Rebar fixing and formwork erection.

Contract 3802 APM and BHS Tunnels and Related Works

- Wall and slab construction;
- Installation of dewatering well;
- Deep jet mixing;
- Pipe pile and sheet pile works; and
- Excavation and lateral supports.

Construction Support (Services / Licences):

Contract 3901A Concrete Batching Facility

- Operation of concrete batching plant;
- Material conveyor belt construction; and
- Testing and commissioning for conveyor belt.

Contract 3901B Concrete Batching Facility

- Operation of concrete batching plant; and

- Testing and commissioning for conveyor belt.

Summary Table

The following table summarises 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		√	No construction activities-related complaint was received during the reporting period.	Nil
Notification of any summons and status of prosecutions		√	No notification of summons nor prosecution was received.	Nil
Change that affect the EM&A	√		Starting from 25 Jan 2022, 6 water quality impact monitoring stations and 3 sensitive receiver stations were terminated, with the impact monitoring stations relocated back to their original locations and minor adjustment for one of the impact monitoring stations.	Nil

Note:
^ Only triggering of Action or Limit Level found 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 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 summary of construction works programme can be referred to **Section 1.4**.

1.2 Scope of this Report

This is the 73rd Construction Phase Monthly EM&A Report for the Project which summarises the key findings of the EM&A programme during the reporting period from 1 to 31 January 2022.

1.3 Project Organisation

The Project's organisation 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, Environmental Compliance, Sustainability	Lawrence Tsui	2183 2734
Environmental Team (ET) (Mott MacDonald Hong Kong Limited)	Environmental Team Leader	Terence Kong	2828 5919
	Deputy Environmental Team Leaders	Heidi Yu	2828 5704
		Ken Wong	2828 5817
Independent Environmental Checker (IEC) (AECOM Asia Company Limited)	Independent Environmental Checker	Jackel Law	3922 9376
	Deputy Independent Environmental Checker	Roy Man	3922 9141

Reclamation Works:

Party	Position	Name	Telephone
Contract 3206 Main Reclamation Works (ZHEC-CCCC-CDC Joint Venture)	Project Manager	Alan Mong	3763 1352
	Environmental Officer	Zhang Bin Wang	3763 1451

Airfield Works:

Party	Position	Name	Telephone
Contract 3301 North Runway Crossover Taxiway (FJT-CHEC-ZHEC Joint Venture)	Deputy Project Director	Kin Hang Chung	9800 0048
	Environmental Officer	Joe Wong	6182 0351
Contract 3302 Eastern Vehicular Tunnel Advance Works (China Road and Bridge Corporation)	Project Manager	Dickey Yau	5699 4503
	Environmental Officer	Dennis Ho	5645 0563
Contract 3303 Third Runway and Associated Works (SAPR Joint Venture)	Project Manager	Andrew Keung	6277 6628
	Environmental Officer	Max Chin	6447 5707
Contract 3305 Airfield Ground Lighting System (ADB Safegate Hong Kong Limited)	Project Manager	Allam Al-Turk	2944 9725
	Environmental Officer	Calvin Sze	9205 9277
Contract 3306 Observation Facility Control System Supporting Interim 2RS and 3RS (Chinney Alliance Engineering Limited)	Project Director	Dennis Yam	9551 9920
	Environmental Officer	Richard Liu	9216 8990
Contract 3307 Fire Training Facility (Paul Y. Construction Company Limited)	Project Manager	Chris Wong	6110 1157
	Environmental Officer	Albert Chan	9700 1083

Party	Position	Name	Telephone
Contract 3308 Foreign Object Debris Detection System (DAS Aviation Services Group)	Project Manager	Jeffrey Yau	9873 7422
	Environmental Officer	Terry Siu	9141 2511
Contract 3310 North Runway Modification Works (China State Construction Engineering (Hong Kong) Ltd.)	Project Manager	Kingsley Chiang	9424 8437
	Environmental Officer	Federick Wong	9842 2703

Third Runway Concourse:

Party	Position	Name	Telephone
Contract 3403 New Integrated Airport Centres Building and Civil Works (Sun Fook Kong Construction Limited)	Project Manager	Alice Leung	9220 3162
	Environmental Officer	Ray Cheung	9785 1566
Contract 3404 Integrated Airport Control System (Shun Hing Systems Integration Co., Ltd.)	Project Manager	Andy Ng	9102 2739
	Environmental Officer	Richard Ng	9802 9577
Contract 3405 Third Runway Concourse Foundation and Substructure Works (China Road and Bridge Corporation – Bachy Soletanche Group Limited – LT Sambo Co., Ltd. Joint Venture)	Project Manager	Francis Choi	9423 3469
	Environmental Officer	Jacky Lai	9028 8975
Contract 3408 Third Runway Concourse and Apron Works (Beijing Urban Construction Group Company Limited and Chevalier (Construction) Company Limited Joint Venture)	Assistant Project Manager	Qian Zhang	5377 7976
	Environmental Officer	Malcolm Leung	7073 7559

Terminal 2 (T2) Expansion:

Party	Position	Name	Telephone
Contract 3508 Terminal 2 Expansion Works (Gammon Engineering & Construction Company Limited)	Project Director	Richard Ellis	6201 5637
	Environmental Officer	Fanny Law	6184 4650

Automated People Mover (APM) and Baggage Handling System (BHS):

Party	Position	Name	Telephone
Contract 3601 New Automated People Mover System (TRC Line)	Project Manager	Hongdan Wei	158 6180 9450

Party	Position	Name	Telephone
(CRRC Puzhen Bombardier Transportation Systems Limited and CRRC Nanjing Puzhen Co., Ltd. Joint Venture)	Environmental Officer	P L Wong	9143 2185
Contract 3602 Existing APM System Modification Works (Niigata Transys Co., Ltd.)	Project Manager	Kunihiro Tatecho	9755 0351
	Environmental Officer	Carrie Kwan	9276 0551
Contract 3603 3RS Baggage Handling System (VISH Consortium)	Project Manager	K C Ho	9272 9626
	Environmental Officer	Eric Ha	9215 3432

Construction Support (Facilities):

Party	Position	Name	Telephone
Contract 3721 Construction Support Infrastructure Works (China State Construction Engineering (Hong Kong) Ltd.)	Site Agent	Thomas Lui	9011 5340
	Environmental Officer	Gary Yeung	9042 1720
Contract 3723 Eastern Support Area – Construction Support Facilities (Tapbo Construction Company Limited and Konwo Modular House Ltd. Joint Venture.)	Deputy Project Director	Philip Kong	9337 8700
	Environmental Officer	Eddie Suen	6338 8862
Contract 3728 Minor Site Works (Shun Yuen Construction Company Limited)	Contract Manager	C K Liu	9194 8739
	Environmental Officer	K F Li	9086 1793
Contract 3733 Emergency Repair Service (Wing Hing Construction Co., Ltd.)	Project Manager	Michael Kan	9206 0550
	SHE Manager	Mike Leung	6628 2550

Airport Support Infrastructure:

Party	Position	Name	Telephone
Contract 3801 APM and BHS Tunnels on Existing Airport Island (China State Construction Engineering (Hong Kong) Ltd.)	Project Manager	Kingsley Chiang	9424 8437
	Environmental Officer	Eunice Kwok	9243 1331

Party	Position	Name	Telephone
Contract 3802 APM and BHS Tunnels and Related Works (Gammon Construction Limited)	Project Director	John Adams	6111 6989
	Environmental Officer	Phoebe Ng	9869 1105

Construction Support (Services / Licences):

Party	Position	Name	Telephone
Contract 3901A Concrete Batching Facility (K. Wah Concrete Company Limited)	Project Manager	Benedict Wong	9553 2806
	Environmental Officer	C P Fung	9874 2872
Contract 3901B Concrete Batching Facility (Gammon Construction Limited)	Senior Project Manager	Gabriel Chan	2435 3260
	Environmental Officer	Rex Wong	2695 6319

1.4 Summary of Construction Works

The key activities of the Project carried out in the reporting period are located in reclamation areas and existing airport island respectively. Works in the reclamation areas included seawall construction, filling and ground improvement works, together with runway, concourse and associated works. Land-based works on existing airport island involved mainly airfield works, Terminal 2 expansion works, modification and tunnel work for Automated People Mover (APM) and Baggage Handling System (BHS), and preparation work for utilities, with activities include road and drainage works, cable ducting, demolition, piling, and excavation works.

The locations of key construction activities are presented in **Figure 1.1**. **Figure 1.2** presents the latest layout of enhanced silt curtain deployed.

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.

Table 1.2: Summary of Status of All Environmental Aspects under the Updated EM&A Manual

Parameters	EM&A Requirements	Status
Air Quality		
Baseline Monitoring	At least 14 consecutive days before commencement of construction work	The baseline air quality monitoring result has been reported in Baseline Monitoring Report and submitted to EPD under EP Condition 3.4.
Impact Monitoring	At least 3 times every 6 days	On-going
Noise		
Baseline Monitoring	Daily for a period of at least two weeks prior to the commencement of construction works	The baseline noise monitoring result has been reported in Baseline Monitoring Report and submitted to EPD under EP Condition 3.4.
Impact Monitoring	Weekly	On-going
Water Quality		
General Baseline Water Quality Monitoring for reclamation, water jetting and field joint works	Three days per week, at mid-flood and mid-ebb tides, for at least four weeks prior to the commencement of marine 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.

Parameters	EM&A Requirements	Status
General Impact Water Quality Monitoring for reclamation, water jetting and field joint works	Three days per week, at mid-flood and mid-ebb tides.	On-going for reclamation works. General impact water quality monitoring for water jetting works was completed on 23 May 2017.
Initial Intensive Deep Cement Mixing (DCM) Water Quality Monitoring	At least four weeks	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	Three times per week until completion of DCM works.	On-going (starting from 11 Jan 2022)
Sewerage and Sewage Treatment		
Methodology for carrying out annual sewage flow monitoring for concerned gravity sewer	Methodology to be prepared and submitted to EPD one year before the scheduled commencement of operation of the proposed third runway	The proposed methodology of the annual sewage flow monitoring was approved by EPD. The annual flow monitoring has been started since June 2021.
Details of the routine H_2S monitoring system for the sewerage system of 3RS	Details to be prepared and submitted to EPD at least one year before commencement of the operation of 3RS	The details of the routine H_2S monitoring system will be prepared and submitted to EPD at least one year before commencement of operation of 3RS.
Waste Management		
Waste Monitoring	At least weekly	On-going
Land Contamination		
Supplementary Contamination Assessment Plan (CAP)	At least 3 months before commencement of any soil remediation works.	The Supplementary CAP was submitted and approved by EPD under EP Condition 2.20.
Contamination Assessment Report (CAR) for Golf Course	CAR to be submitted for golf course	The CAR for Golf Course was submitted and accepted by EPD.
Contamination Assessment Reports (CAR) for Terminal 2 Emergency Power Supply Systems	CAR to be submitted for Terminal 2 Emergency Power Supply Systems	The CARs for Terminal 2 Emergency Power Supply Systems were submitted and accepted by EPD.
Terrestrial Ecology		
Pre-construction Egretry Survey Plan	Once per month in the breeding season between April and July, prior to the commencement of HDD drilling works.	The Egretry Survey Plan was submitted and approved by EPD under EP Condition 2.14.
Ecological Monitoring	Monthly monitoring during the HDD construction works period from August to March.	The terrestrial ecological monitoring at Sheung Sha Chau was completed in January 2019.
Marine Ecology		
Pre-Construction Phase Coral Dive Survey	Prior to marine construction works	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	As per an enhanced monitoring programme based on the Coral Translocation Plan	The post-translocation monitoring programme according to the Coral Translocation Plan was completed in April 2018.
Chinese White Dolphins (CWD)		
Baseline Monitoring	6 months of baseline surveys before the commencement of land formation related construction works. Vessel line transect surveys: Two full surveys per month; Land-based theodolite tracking surveys: Two days per month at the Sha Chau station and two days per month at the Lung Kwu Chau station; and	Baseline CWD results were reported in the CWD Baseline Monitoring Report and submitted to EPD in accordance with EP Condition 3.4.

Parameters	EM&A Requirements	Status
	Passive Acoustic Monitoring (PAM): For the whole duration of baseline period.	
Impact Monitoring	Vessel line transect surveys: Two full surveys per month; Land-based theodolite tracking surveys: One day per month at the Sha Chau station and one day per month at the Lung Kwu Chau station; and PAM: For the whole duration for land formation related construction works.	On-going
Landscape & Visual		
Landscape & Visual Plan	At least 3 months before the commencement of construction works on the formed land of the Project.	The Landscape & Visual Plan was submitted and approved by EPD under EP Condition 2.18
Baseline Monitoring	One-off survey within the Project site boundary prior to commencement of any construction works	The baseline landscape & visual monitoring result has been reported in Baseline Monitoring Report and submitted to EPD under EP Condition 3.4.
Impact Monitoring	Weekly	On-going
Environmental Auditing		
Regular site inspection	Weekly	On-going
Marine Mammal Watching Plan (MMWP) implementation measures	Monitor and check	On-going
Dolphin Exclusion Zone (DEZ) Plan implementation measures	Monitor and check	On-going
SkyPier High Speed Ferries (HSF) implementation measures	Monitor and check	On-going
Construction and Associated Vessels Implementation measures	Monitor and check	On-going
Silt Curtain Deployment Plan implementation measures	Monitor and check	On-going
Spill Response Plan implementation measures	Monitor and check	On-going
Complaint Hotline and Email channel	Construction phase	On-going
Environmental Log Book	Construction phase	On-going

Taking into account the construction works in this reporting period, impact monitoring of air quality, noise, water quality, waste management, 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 summarised as below:

- Eighteen environmental management meetings for EM&A review with works contracts: 6, 7, 11, 12, 13, 18, 19, 21, 25, 26, 27 and 28 January .

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-2 (Serial No. 296098)	20 Oct 2021	Monthly EM&A Report No. 70, Appendix E
	SIBATA LD-3B-1 (Serial No. 597337)	10 May 2021	Monthly EM&A Report No. 65, Appendix D

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 1.2m 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 D of Construction Phase Monthly EM&A Report No. 65, and the calibration certificates of portable direct reading dust meters listed in **Table 2.3** are valid in the reporting period.

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 summarised 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	18 - 163	306	500
AR2	30 - 158	298	

The monitoring results were within 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 was observed at the monitoring stations during the monitoring sessions. As the sensitive receivers were far away from the construction activities, with the implementation of dust control measures, there was no adverse impact at the sensitive receivers attributable to the works of the Project.

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 four 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.

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(2)	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.

(2) According to Section 4.3.3 of the Manual, the noise monitoring at NM3A was temporarily suspended starting from 1 September 2018 and would be resumed with the completion of the Tung Chung East 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	75dB(A)(1)

Note:
(1) The Limit Level for NM4 is reduced to 70dB(A) for being an educational institution. During school examination period, the Limit Level is further reduced to 65dB(A).

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	Rion NL-52 (Serial No. 00998505)	20 Mar 2021	Monthly EM&A Report No. 63, Appendix E
	Rion NL-52 (Serial No. 01287679)	20 Jun 2021	Monthly EM&A Report No. 66, Appendix D
Acoustic Calibrator	Casella CEL-120/1 (Serial No. 2383737)	20 Jun 2021	Monthly EM&A Report No. 66, Appendix D
	Castle GA607 (Serial No. 040162)	20 Mar 2021	Monthly EM&A Report No. 63, 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 1.2m above the ground for free-field measurements at monitoring stations NM1A, NM4, NM5 and NM6. A correction of +3dB(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 1dB(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, when higher than the baseline monitoring levels, 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 valid in the reporting period.

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 summarised 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) $L_{eq\ (30mins)}$	Limit Level, dB(A) $L_{eq\ (30mins)}$
NM1A[(1)]	58 - 59	75
NM4[(1)]	61 - 62	70[(2)]
NM5[(1)(3)]	53 - 66	75
NM6[(1)(3)]	63 - 68	75

Notes:

(1) +3dB(A) Façade correction included;

(2) Reduced to 65dB(A) during school examination periods at NM4. School examination took place from 10 to 14 January during this reporting period.

(3) Some of the noise measurement results were higher than the baseline monitoring levels. In order to reduce the influence of non-Project related noise on the monitoring results, these measurement results were corrected with reference to the baseline monitoring levels.

No complaints were received from any sensitive receiver that triggered the Action Level. All monitoring results were also within the corresponding 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 traffic noise near NM1A and aircraft noise near NM6 during this reporting period. It is considered that the monitoring work during the reporting period was effective and there was no adverse impact attributable to the Project activities.

4 Water Quality Monitoring

Water quality monitoring of DO, pH, temperature, salinity, turbidity, suspended solids (SS), total alkalinity, chromium, and nickel was conducted three days per week, at mid-ebb and mid-flood tides, at a total of 23 water quality monitoring stations, comprising 12 impact (IM) stations, 8 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). With the resumption of DCM works, the regular DCM monitoring was conducted from 11 January 2022 onwards. In view of the progress of 3RS land formation with majority of seawall completion, reduction of IM and SR stations for impact water quality monitoring was proposed to EPD with approval granted on 22 December 2022. The reduction of IM and SR stations was effective from 25 January 2022, in which the remaining IM stations were relocated back to their original locations, with slight modifications to the location of IM2. **Table 4.1** describes the details of the monitoring stations. **Figure 4.1a** shows the locations of the monitoring stations before the reduction of IM and SR stations, and **Figure 4.1b** shows the locations of the remaining monitoring stations on and after 25 January 2022.

Table 4.1: Monitoring Locations of Impact Water Quality Monitoring

Monitoring Station	Description	Coordinates				Parameters
		Easting		Northing		
		Before 25 Jan 2022	After 25 Jan 2022	Before 25 Jan 2022	After 25 Jan 2022	
C1	Control Station	804247	804247	815620	815620	General Parameters DO, pH, Temperature, Salinity, Turbidity, SS DCM Parameters Total Alkalinity, Heavy Metals[2]
C2	Control Station	806945	806945	825682	825682	
C3[3]	Control Station	817803	817803	822109	822109	
IM1[8]	Impact Station	807132	**806458**	817949	**818351**	
IM2[8]	Impact Station	806166	**806236**	818163	**819183**	
IM3	Impact Station	805594	N/A[7]	818784	N/A[7]	
IM4	Impact Station	804607	N/A[7]	819725	N/A[7]	
IM5	Impact Station	804867	N/A[7]	820735	N/A[7]	
IM6	Impact Station	805828	N/A[7]	821060	N/A[7]	
IM7[8]	Impact Station	806835	806835	821349	821349	
IM8	Impact Station	808140	N/A[7]	821830	N/A[7]	
IM9	Impact Station	808811	N/A[7]	822094	N/A[7]	
IM10[8]	Impact Station	809794	**809838**	822385	**822240**	
IM11[8]	Impact Station	811460	**810545**	822057	**821501**	
IM12[8]	Impact Station	812046	**811519**	821459	**821162**	
SR1A[1]	Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities (HKBCF) Seawater Intake for cooling	812660	812660	819977	819977	General Parameters DO, pH, Temperature, Salinity, Turbidity, SS
SR2	Planned marine park / hard corals at The	814166	814166	821463	821463	General Parameters

Monitoring Station	Description	Coordinates				Parameters
		Easting		Northing		
		Before 25 Jan 2022	After 25 Jan 2022	Before 25 Jan 2022	After 25 Jan 2022	
	Brothers / Tai Mo To					DO, pH, Temperature, Salinity, Turbidity, SS DCM Parameters Total Alkalinity, Heavy Metals(2)(4)
SR3	Sha Chau and Lung Kwu Chau Marine Park / fishing and spawning grounds in North Lantau	807571	807571	822147	822147	General Parameters DO, pH, Temperature, Salinity, Turbidity, SS
SR4A	Sha Lo Wan	807810	807810	817189	817189	
SR5A	San Tau Beach SSSI	810696	N/A(7)	816593	N/A(7)	
SR6A(5)	Tai Ho Bay, Near Tai Ho Stream SSSI	814739	N/A(7)	817963	N/A(7)	
SR7	Ma Wan Fish Culture Zone (FCZ)	823742	N/A(7)	823636	N/A(7)	
SR8(6)	Seawater Intake for cooling at Hong Kong International Airport (East)	811623	811623	820390	820390	

Notes:

(1) With the operation of HKBCF, water quality monitoring at SR1A station was commenced on 25 October 2018. To better reflect the water quality in the immediate vicinity of the intake, the monitoring location of SR1A has been shifted closer to the intake starting from 5 January 2019.
(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) Total alkalinity and heavy metals results are collected at SR2 as a control station for regular DCM monitoring.
(5) As the access to SR6 was obstructed by the construction activities and temporary structures for Tung Chung New Town Extension, the monitoring location has been relocated to SR6A starting from 8 August 2019.
(6) The monitoring location for SR8 is subject to further changes due to silt curtain arrangements and the progressive relocation of this seawater intake.
(7) In view of the progress of 3RS land formation with majority of seawall completion, these monitoring stations for impact water quality monitoring were terminated from 25 January 2022 onwards.
(8) With the seawall completion and removal of enhanced open sea silt curtains, these monitoring stations were relocated back to their original locations . For IM2, there was minor adjustment of the monitoring location.

4.1 Action and Limit Levels

In accordance with the Manual, baseline water quality levels at the above-mentioned 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 (AL)		Limit Level (LL)	
Action and Limit Levels for general water quality monitoring and regular DCM monitoring (excluding SR1A & SR8)					
General Water Quality Monitoring	DO in mg/l (Surface, Middle & Bottom)	Surface and Middle 4.5mg/l		Surface and Middle 4.1mg/l 5mg/l for Fish Culture Zone (SR7) only	
		Bottom 3.4mg/l		Bottom 2.7mg/l	
	Suspended Solids (SS) in mg/l	23	or 120% of upstream control station at the same tide of the same day, whichever is higher	37	or 130% of upstream control station at the same tide of the same day, whichever is higher
	Turbidity in NTU	22.6		36.1	
Regular DCM Monitoring	Total Alkalinity in ppm	95		99	
	Representative Heavy Metals for regular DCM monitoring (Chromium) in µg/l	0.2		0.2	
	Representative Heavy Metals for regular DCM monitoring (Nickel) in µg/l	3.2		3.6	
Action and Limit Levels SR1A					
SS (mg/l))		33		42	
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(2), IM4(2), IM5(2), IM6(2), IM7, IM8(2), SR3
SR2(1)	IM7, IM8(2), IM9(2), IM10, IM11, IM12, SR1A, SR3, SR4A, SR5A(2), SR6A(2), SR8
Ebb Tide	
C1	SR4A, SR5A(2), SR6A(2)
C2	IM1, IM2, IM3(2), IM4(2), IM5(2), IM6(2), IM7, IM8(2), IM9(2), IM10, IM11, IM12, SR1A, SR2, SR3, SR7(2), SR8

Note:

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

(2) The general water quality monitoring and regular DCM monitoring at IM3, IM4, IM5, IM6, IM8, IM9, SR5A, SR6A & SR7 were terminated from 25 January 2022 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. 21G105356)	24 Dec 2021	Monthly EM&A Report No. 72, Appendix D
	YSI ProDSS (Serial No. 15M100005)(1)	22 Oct 2021	Monthly EM&A Report No. 70, Appendix E
	YSI ProDSS (Serial No. 16H104233)	26 Nov 2021	Monthly EM&A Report No. 71, Appendix E
	YSI ProDSS (Serial No. 16H104234)	26 Nov 2021	Monthly EM&A Report No. 71, Appendix E
	YSI ProDSS (Serial No. 17E100747)	24 Dec 2021	Monthly EM&A Report No. 72, Appendix D
Digital Titrator (measurement of total alkalinity)	Titrette Bottle-top Burette, 50ml (Serial No. 10N64701)	7 Jan 2022	**Appendix D**

Note:
(1) The monitoring equipment was not used in the reporting period after the expiry date of the calibration certificate (21 Jan 2022).

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, alkalinity 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 4ºC 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 was 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 are listed in **Table 4.4**.

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	2mg/l
Heavy Metals			
Chromium (Cr)	ICP-MS	USEPA 6020A	0.2µg/l
Nickel (Ni)	ICP-MS	USEPA 6020A	0.2µg/l

4.4 Summary of Monitoring Results

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

The water quality monitoring results for all parameters, except SS, obtained during the reporting period were within their corresponding Action and Limit Levels. The detailed monitoring results are presented in **Appendix C**.

For SS, some of the testing results triggered the corresponding Action Levels, and investigations were conducted accordingly.

Table 4.7 present the 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	SR1A	SR2	SR3	SR4A	SR5A	SR6A	SR7	SR8
01/01/2022																				
04/01/2022		D	D	D																
06/01/2022																				
08/01/2022	D																			
11/01/2022																				
13/01/2022																				
15/01/2022																				
18/01/2022																				
20/01/2022																				
22/01/2022																				
25/01/2022																				
27/01/2022																				
29/01/2022																				
31/01/2022																				
No. of result triggering Action or Limit Level	1	1	1	1	1	0	0	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 were within 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
	These monitoring stations were terminated starting from 25 January 2022, and no sampling were conducted at these monitoring stations.

Monitoring results triggered the corresponding Action Levels on two monitoring days. One case occurred at IM5 which was located upstream of the Project during ebb tide and would unlikely be affected by the Project.

In accordance with Event and Action Plan stipulated in the Manual, IEC and Contractor were informed when the corresponding Action Levels were triggered.

Investigations focusing on the cases which occurred at IM1, IM2, IM3 & IM4 that were located downstream of the Project during ebb tide were carried out. Details of the Project's marine construction activities and site observations of the concerned monitoring days were collected. Findings were summarized in **Table 4.8**.

Table 4.8: Summary of Findings from Investigation of SS Monitoring Result

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
04/01/2022	No marine construction works	Not applicable	Not applicable	No	No	No
08/01/2022	No marine construction works	Not applicable	Not applicable	No	No	No

The investigation confirmed that no marine construction works were undertaken during the concerned monitoring days. No muddy water discharges from outfalls of the reclaimed land were observed.

For SS results recorded at IM1, IM2, IM3 and IM4 on 4 and 8 January 2022 triggering the corresponding Action Levels, it is noted that no marine construction works were undertaken during the concerned monitoring days. No silt plume, construction vessel, spillage incident or specific observation at outfalls were observed in the vicinity when monitoring was undertaken at these monitoring stations. Therefore, the cases were considered unlikely due to the Project.

4.5 Conclusion

During the reporting period, it is noted that most of the monitoring results were within their corresponding Action and Limit Levels, while some SS measurement results triggered the corresponding Action Level, investigations were conducted accordingly.

Based on the investigation findings, the results that triggered the corresponding Action Levels 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, 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 as recommended in the Manual during weekly site inspection and regular environmental management meetings.

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 proper chemical waste storage area, as well as handling, segregation, and regular disposal of general refuse. The contractors have taken actions to implement the recommended measures. Waste management audits were carried out by ET according to the requirement of the Waste Management Plan, Updated EM&A Manual and the implementation schedule of the waste management mitigation measures in **Appendix A**.

Based on updated information provided by contractors, construction waste generated in the reporting period is summarised in **Table 5.2**. Dedicated areas for sorting of materials are established on site. Recyclable materials such as steel, reinforcement bar, structural steel, aluminum, copper, other metals and glass are sorted on-site and transported off-site for recycling. ET and IEC have carried out site audits regularly and reviewed the trip ticket system.

Table 5.2: Construction Waste Statistics

	C&D[1] Material Stockpiled for Reuse or Recycle (m^3)	C&D Material Reused in the Project (m^3)	C&D Material Reused in other Projects (m^3)	C&D Material Transferred to Public Fill (m^3)	Chemical Waste (kg)	Chemical Waste (l)	General Refuse (tonne)
January 2022 [2][3]	53,747	13,880	9,741	6,668	400	1,800	4,274

Notes:

(1) C&D refers to Construction and Demolition.

(2) Metals, paper and/or plastics were recycled in the reporting period.

(3) The data was based on the information provided by contractors up to the submission date of this Monthly EM&A Report, and might be updated in the forthcoming Monthly EM&A Report.

There were no complaints, non-compliance of the WMP, contract-specific WMPs, statutory and contractual requirements that triggered Action and Limit Levels in the reporting period.

Along with the design and construction progress, further development on the treatment level/details and the re-use mode for marine sediment generated from 3RS Project has been conducted according to the EIA recommendation.

5.3 Marine Sediment Management

Marine sediment is managed according to the EIA Report, Updated EM&A Manual and Waste Management Plan of the Project. The sampling process, storage conditions of the excavated marine sediment, treatment process, final backfilling location as well as associated records were inspected and checked by ET and verified by IEC to ensure they were in compliance with the requirements as stipulated in the Waste Management Plan.

Sampling works for marine sediment generated from the reclaimed land area was on-going during the reporting period. The details of the marine sediment sampling, treatment and backfilling will be reported in the subsequent EM&A Reports upon completion.

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 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 at Sha Chau (SC) and Lung Kwu Chau (LKC) during the construction phase as stipulated in the Manual.

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 summarised 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(3)	Running quarterly(1) STG < 1.86 & ANI < 9.35
Limit Level(3)	Two consecutive running quarterly(2) (3-month) STG < 1.86 & ANI < 9.35

Notes: (referring to the baseline monitoring report)

(1) Action Level – running quarterly encounter rates STG & ANI of this month will be calculated from the reporting period and the two preceding survey months.

(2) Limit Level – two consecutive running quarters mean both the running quarterly encounter rates of the preceding month and the running quarterly encounter rates of this month.

(3) Action Level and/or Limit Level 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 also 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 following the waypoints set for construction phase monitoring as proposed in the Manual are depicted in **Figure 6.1** with the waypoint coordinates of all transect lines given in **Table 6.2**, which are subject to on-site refinement based on the actual survey conditions and constraints.

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

Waypoint	Easting	Northing	Waypoint	Easting	Northing
NEL					
1S	813525	820900	6N	818568	824433
1N	813525	824657	7S	819532	821420
2S	814556	818449	7N	819532	824209
2N	814559	824768	8S	820451	822125
3S	815542	818807	8N	820451	823671
3N	815542	824882	9S	821504	822371
4S	816506	819480	9N	821504	823761
4N	816506	824859	10S	822513	823268
5S	817537	820220	10N	822513	824321
5N	817537	824613	11S	823477	823402
6S	818568	820735	11N	823477	824613
NWL					
1S	804671	814577	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
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

Waypoint	Easting	Northing	Waypoint	Easting	Northing
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, AW, WL and SWL areas as proposed in the Manual, which 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 going around 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 pairs. Only on-effort data collected under favourable conditions of Beaufort 0-3 and visibility of approximately 1200 m or beyond were used for analysis of the CWD encounter rates.

A 15-20m vessel with a flying bridge observation platform about 4 to 5m 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 survey line at the closest point after obtaining photo records of the dolphin group and began to survey on effort again.

Focal follows of dolphins would be used for providing supplementary information only 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 would involve the boat following (at an appropriate distance to minimise 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 photograph 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 Project 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 (>1-3km, 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 2-3km 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 3, 4, 5, 10, 11, 12, 13 and 19 January 2022, covering all transects in NEL, NWL, AW, WL and SWL survey areas for twice.

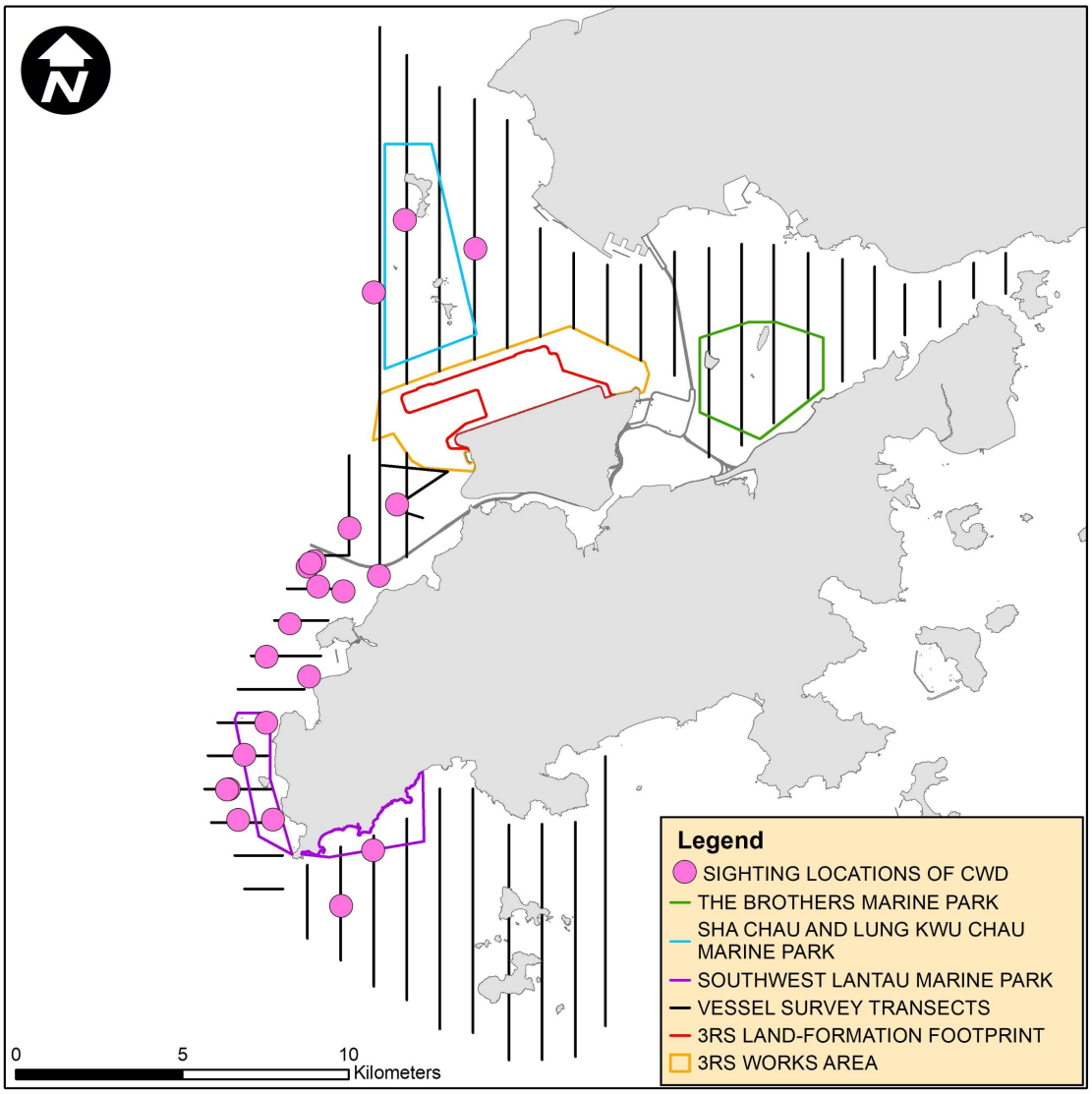
A total of around 436.63 km of survey effort was collected from these surveys and 416.29 km of the survey effort was being conducted under favourable weather condition (i.e. Beaufort Sea State 3 or below with favourable visibility). Details of the survey effort are given in **Appendix C**.

Sighting Distribution

In January 2022, 22 sightings with 84 dolphins were sighted. All these sightings were on-effort records under favourable weather condition (i.e. Beaufort Sea State 3 or below with favourable visibility). Details of cetacean sightings are presented in **Appendix C**.

Distribution of all CWD sightings recorded in January 2022 is illustrated in **Figure 6.3**. In WL, CWD groups were recorded along waters off north of Tai O to north of Fan Lau. In SWL, two CWD groups were recorded at waters off Fan Lau Tung Wan. In NWL, the CWD groups were spotted at waters near Sha Chau and Lung Kwu Chau. One CWD sighting was also spotted in AW. There was no CWD sighting recorded in NEL survey area during the reporting period.

Figure 6.3: Sightings Distribution of Chinese White Dolphins



Remarks: (1) Please note that there are 22 pink circles on the map indicating the sighting locations of CWDs. Some of them were very close to each other and therefore may appear overlapped on this distribution map. (2) Marine park excludes land area and the landward boundary generally follows the high water mark along the coastline.

Encounter Rate

Two types of dolphin encounter rates were calculated based on the vessel survey data. 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 were used)

In January 2022, a total of around 416.29 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 84 dolphins were sighted under such condition. Calculation of the encounter rates for the month are shown in **Appendix C**.

For the running quarter of the reporting period (i.e., from November 2021 to January 2022), a total of around 1163.76 km of survey effort were conducted under Beaufort Sea State 3 or below with favourable visibility, whilst a total number of 36 on-effort sightings and a total number of 133 dolphins from on-effort sightings were obtained under such condition. Calculation of the running quarterly encounter rates are shown 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 January 2022 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 remain above the Action Level, thus the Action Level is not triggered.

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

	Encounter Rate (STG)	Encounter Rate (ANI)
January 2022	5.28	20.18
Running Quarter from November 2021 to January 2022[(1)]	3.09	11.43
Action Level	Running quarterly[(1)] STG < 1.86 & ANI < 9.35	

Note: (1) 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 November 2021 to January 2022, containing six sets of transect surveys for all monitoring areas. Action Level will be triggered if both STG and ANI fall below the criteria.

Group Size

In January 2022, 22 groups of 84 dolphins in total were sighted, and the average group size of CWDs was 3.8 dolphins per group. CWD sightings with medium group size (i.e. 3-9 dolphins) were dominant. One CWD sighting with large group size (i.e. 10 or more dolphins) was recorded in WL during this reporting month.

Activities and Association with Fishing Boats

Eight CWD sightings were recorded engaging in feeding activities in January 2022. Five CWD groups were observed associated with operating gill-netter, including four groups at the waters off Yi O and one group near Sham Wat.

Mother-calf Pair

In January 2022, there were four CWD sightings recorded with mother-and-unspotted juvenile pair(s). All four sightings were recorded in WL survey area.

6.4.2 Photo Identification

In January 2022, a total number of 30 different CWD individuals were identified for totally 47 times. A summary of photo identification works is presented in **Table 6.5**. Representative photos of these individuals are given in **Appendix C**.

Table 6.5: Summary of Photo Identification

Individual ID	Date of Sighting (dd-mmm-yy)	Sighting Group No.	Area
NLMM016	3-Jan-22	3	NWL
NLMM063	3-Jan-22	3	NWL
NLMM082	3-Jan-22	2	NWL
NLMM083	3-Jan-22	2	NWL
SLMM007	5-Jan-22	10	WL
		13	WL
	10-Jan-22	3	WL
	19-Jan-22	2	SWL
SLMM010	10-Jan-22	3	WL
SLMM012	5-Jan-22	13	WL
SLMM029	10-Jan-22	3	WL
SLMM030	5-Jan-22	1	AW
SLMM037	5-Jan-22	13	WL
	13-Jan-22	3	SWL
SLMM044	5-Jan-22	8	WL
		13	WL
SLMM049	5-Jan-22	13	WL
SLMM052	5-Jan-22	10	WL
SLMM055	5-Jan-22	2	WL
		5	WL
SLMM064	19-Jan-22	2	SWL
SLMM073	5-Jan-22	10	WL
		13	WL
	10-Jan-22	3	WL

Individual ID	Date of Sighting (dd-mmm-yy)	Sighting Group No.	Area
WLMM001	5-Jan-22	10	WL
		13	WL
	13-Jan-22	3	SWL
WLMM003	5-Jan-22	7	WL
		8	WL
		13	WL
WLMM027	3-Jan-22	2	NWL
	5-Jan-22	2	WL
WLMM065	3-Jan-22	3	NWL
	5-Jan-22	5	WL
		6	WL
WLMM067	5-Jan-22	11	WL
	19-Jan-22	2	SWL
WLMM073	5-Jan-22	7	WL
WLMM079	10-Jan-22	2	WL
WLMM095	5-Jan-22	4	WL
WLMM114	13-Jan-22	3	SWL
WLMM118	5-Jan-22	7	WL
		13	WL
WLMM131	3-Jan-22	2	NWL
WLMM141	10-Jan-22	3	WL
WLMM165	5-Jan-22	2	WL
WLMM171	5-Jan-22	13	WL

6.4.3 Land-based Theodolite Tracking Survey

Survey Effort

Land-based theodolite tracking surveys were conducted at SC on 17 January 2022 and at LKC on 24 January 2022, with a total of two days of land-based theodolite tracking survey effort accomplished in this reporting period. No CWD group was tracked during the reporting period. Information of survey effort and CWD groups are presented in **Table 6.6**. Details of the survey effort are presented in **Appendix C**.

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	1	6:00	0	0
Sha Chau	1	6:00	0	0
TOTAL	**2**	**12:00**	**0**	**0**

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. Both C-POD and F-POD are considered as effective PAM devices in detecting CWD occurrence, and F-POD was the main PAM device deployed where feasible. During this reporting period, the F-POD was retrieved on 10 January 2022 and subsequently re-deployed underwater and positioned at south of Sha Chau Island inside the SCLKCMP (**Figure 6.5**). Acoustic data would be reviewed to give an indication of CWDs occurrence patterns and anthropogenic noise information. Analysis would involve use of proprietary software for objective automated data analyses and experienced analysts to perform visual validation for assessment of dolphin detection. As the period of data collection and analysis takes about four months, PAM results could not be reported in monthly intervals but report for supplementing the annual CWD monitoring analysis.

6.6 Site Audit for CWD-related Mitigation Measures

During the reporting period, 1 to 2 dolphin observation stations and teams of at least two dolphin observers were deployed by the contractors for continuous monitoring of the DEZ for DCM and seawall construction related works 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 704 individuals being trained and the training records kept by the ET. From the contractors' DEZ monitoring records, no dolphin or other marine mammals were observed within or around the DEZs in this reporting month. These contractors' records were also audited by the ET during site inspection.

Audits of acoustic decoupling measures 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 7.4** and **Section 7.5** 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 two 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

Site inspections of the construction works were carried out on a weekly basis to monitor 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. Besides, *ad-hoc* site inspections were conducted by ET and IEC if environmental problems were identified, or subsequent to receipt of an environmental complaint, or as part of the investigation work. These site inspections provided a direct means to reinforce the specified environmental protection requirements and pollution control measures in construction sites.

During site inspections, environmental situation, status of implementation of pollution control and mitigation measures were observed. Environmental documents and site records, including waste disposal record, maintenance record of environmental equipment, and relevant environmental permit and licences, were also checked on site. Observations were recorded in the site inspection checklist and passed to the contractor together with the recommended mitigation measures where necessary in order to advise contractors on environmental improvement, awareness and on-site enhancement measures. The observations were made with reference to the following information during the site inspections:

- The EIA and EM&A requirements;
- Relevant environmental protection laws, guidelines, and practice notes;
- The EP conditions and other submissions under the EP;
- Monitoring results of EM&A programme;
- Works progress and programme;
- Proposal of individual works;
- Contract specifications on environmental protection; and
- Previous site inspection results.

Good site practices were observed in site inspections during the reporting period. Advice was given when necessary to ensure the construction workforce were familiar with relevant procedures, and to maintain good environmental performance on site. Regular toolbox talks on environmental issues were organised for the construction workforce by the contractors to ensure understanding and proper implementation of environmental protection and pollution control mitigation measures.

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

7.2 Landscape and Visual Mitigation Measures

Implementation of applicable landscape and visual mitigation measures (reference to the environmental protection measures CM1 – CM10 in **Appendix A**) was monitored in accordance with the Manual. All measures undertaken by both the contractor and the landscape contractor during the construction phase and first year of the operation phase shall be audited by a landscape architect, as a member of the ET, on a regular basis to ensure compliance with the intended aims of the measures. Site inspections shall be undertaken at least once every two months during the operation phase.

The implementation status of the environmental protection measures is summarized below in **Table 7.1**. Examples of landscape and visual mitigation measures are shown in **Table 7.2**. The

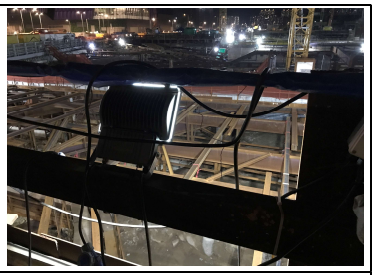
monitoring programme for detailed design, construction, establishment works and long term management (10 years) stages is presented in **Table 7.3**. Event and Action Plan for Landscape and Visual impacts is stated in **Table 7.4**.

Table 7.1: Landscape and Visual – Construction Phase Audit Summary

Landscape and Visual Mitigation Measures during Construction	Implementation Status	Relevant Contract(s) in the Reporting Period
CM1- The construction area and contractor's temporary works areas shall be minimised to avoid impacts on adjacent landscape.	The implementation of mitigation measures was checked by ET during weekly site inspection and reported by the Contractors during the monthly Environmental Management Meetings. Implementation of the measures CM5, CM6 and CM7 by Contractors was observed.	All works contracts
CM2 – Reduction of construction period to practical minimum		
CM3 – Phasing of the construction stage to reduce visual impacts during the construction phase.		
CM4 – Construction traffic (land and sea) including construction plants, construction vessels and barges shall be kept to a practical minimum.		
CM5 – Erection of decorative mesh screens or construction hoardings around works areas in visually unobtrusive colours.		
CM6 – Avoidance of excessive height and bulk of site buildings and structures		
CM7 – Control of night-time lighting by hooding all lights and through minimisation of night working periods		
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	Tree Protection Specifications were provided in the relevant Contract Specifications respectively for implementation by the Contractors under the Project. The Contractors' performance on the implementation of the tree maintenance and protection measures were observed and checked by the ET weekly during construction period.	3302, 3503, 3508, 3602, 3801 3802 (To be implemented)

Landscape and Visual Mitigation Measures during Construction	Implementation Status	Relevant Contract(s) in the Reporting Period
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	Tree Transplanting Specifications were provided in the relevant Contract Specifications respectively for implementation by the Contractors under the Project where trees would unavoidably be affected by the construction works. The Contractors were required to submit Method Statements for tree transplanting prior to the transplanting works. Tree inspections were conducted by ET to check the tree transplanting works implemented by the Contractors on site. The Contractors' performance on the implementation of trees maintenance and protection measures on transplanted trees were observed and checked by the ET bi-monthly during the 12-month establishment period after the completion of each batch of transplanting works. Long term management of the transplanted trees was currently monitored by ET annually.	3503, 3508, 3801 3802 (To be implemented)
CM10 – Land formation works shall be followed with advanced hydroseeding around taxiways and runways as soon as practical	To be implemented around taxiways and runways as soon as practicable.	3303

Table 7.2: Examples of Landscape and Visual Mitigation Measures in the Reporting Period

		
Erection of site hoardings around works area in unobtrusive colours (CM5)	Avoidance of excessive height and bulk of site buildings (CM6)	Control of night-time lighting by hooding and minimisation of night working period (CM7)
		
General view of tree protection zone for retained tree (CM8)	General view of a transplanted tree (CM9)	General view of advanced hydroseeding around taxiways and runways (CM10)

In accordance with the Updated EM&A Manual, all existing trees shall be protected carefully during construction. Trees unavoidably affected by the works shall be transplanted where practical. In this reporting period, the cumulative total number of retained and transplanted trees under the Project remained unchanged (i.e. 52 and 26 respectively) comparing to the previous reporting period. Details of the retained trees, transplanted trees and to-be-transplanted trees under the Project are summarized in **Table 7.5**.

Details of the retained trees are to be discussed in the Quarterly EM&A reports.

Table 7.3: Monitoring Programme for Landscape and Visual

Stage	Monitoring Task	Monitoring Report	Form of Approval	Frequency
Detailed Design	Checking of design works against the recommendations of the landscape and visual impact assessments within the EIA shall be undertaken during detailed design and tender stage, to ensure that they fulfil the intention of the mitigation measures. Any changes to the design, including design changes on site shall also be checked.	Report by AAHK / PM confirming that the design conforms to requirements of EP.	Approved by Client	At the end of the Detailed Design Phase
Construction	Checking of the contractor's operations during the construction period.	Report on Contractor's compliance, by ET	Counter signature of report by IEC	Weekly
Establishment Works	Checking of the planting works during the twelve-month Establishment Period after completion of each batch of transplanting works.	Report on Contractor's compliance, by ET	Counter signature of report by IEC	Every two months
Long Term Management (10 year)	Monitoring of the long-term management of the planting works in the period up to 10 years after completion of each batch of transplanting works.	Report on Compliance by ET or Maintenance Agency as appropriate	Counter signature of report by Management Agency	Annually

Table 7.4: Event and Action Plan for Landscape and Visual

Event Action Level	Action			
	ET	IEC	AAHK / PM	Contractor
Design Check	Check final design conforms to the requirements of EP and prepare report.	Check report. Recommend remedial design if necessary.	Undertake remedial design if necessary.	
Non-conformity on one occasion	Identify source. Inform IEC and AAHK / PM.	Check report. Check Contractor's working method.	Notify Contractor. Ensure remedial	Amend working methods to prevent

Event Action Level	Action			
	Discuss remedial actions with IEC, AAHK / PM and Contractor. Monitor remedial actions until rectification has been completed.	Discuss with ET and Contractor on possible remedial measures. Advise AAHK / PM on effectiveness of proposed remedial measures. Check implementation of remedial measures.	measures are properly implemented.	recurrence of non-conformity. Rectify damage and undertake additional action necessary.
Repeated Non-conformity	Identify source. Inform IEC and AAHK / PM. Increase monitoring frequency. Discuss remedial actions with IEC, AAHK / PM and Contractor. Monitor remedial actions until rectification has been completed. If non-conformity stops, cease additional monitoring.	Check monitoring report. Check Contractor's working method. Discuss with ET and Contractor on possible remedial measures. Advise AAHK / PM on effectiveness of proposed remedial measures. Supervise implementation of remedial measures.	Notify Contractor. Ensure remedial measures area properly implemented.	Amend working methods to prevent recurrence of non-conformity. Rectify damage and undertake additional action necessary.

Table 7.5: Summary of the Number of Retained, Transplanted and To-be-transplanted Trees in the Reporting Period

Existing				
Contract	Retain (nos.)	Transplanted (nos.)		To-be-transplanted (nos.)
		Establishment Period	Maintenance Period	
3302	9	0	0	0
3503	0	0	9	0
3508[(1)]	24	12	0	0
3602	2	0	0	0
3801	17	0	5[(2)]	0
Sub-total	52	12	14	0
Provisional				
Contract	**Retain (nos.)**	**Transplanted (nos.)**		**To-be-transplanted (nos.)**
3508[(1)]	51	0		10
Sub-total	51	0		10
Grand Total	**103**	**26**		**10**

Notes:

(1) As some of the site areas have been handed over to Contract 3508, Contractor of Contract 3508 is currently managing the trees that are located within their site area. Existing trees to be managed by Contract 3508 is subject to change after initial tree surveys for each batch of site areas have been conducted by the Contractor.

(2) Three transplanted trees (CT1194, CT1794 and CT1795) were subsequently felled after transplantation. Please refer to **Table 7.6** for details.

Summary of the updated transplanted trees and photos are presented in **Table 7.6** and **Table 7.7** respectively.

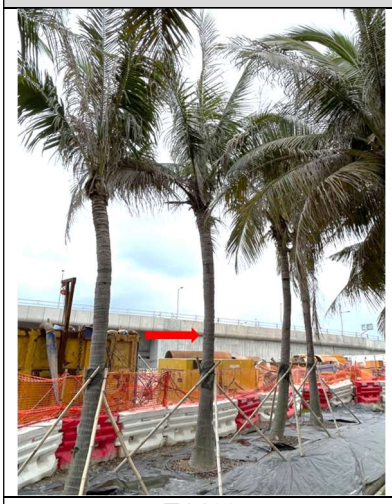
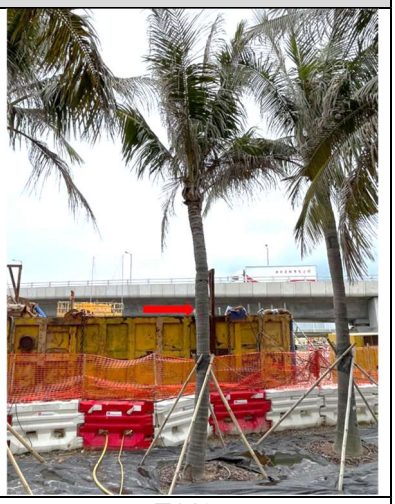
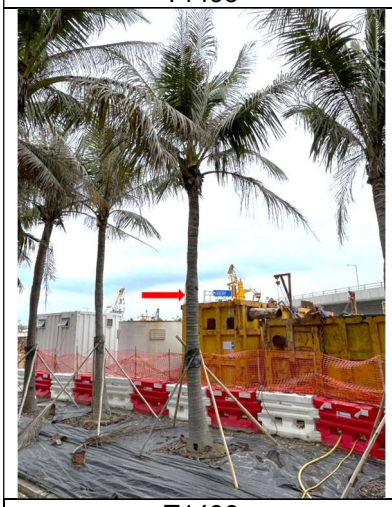
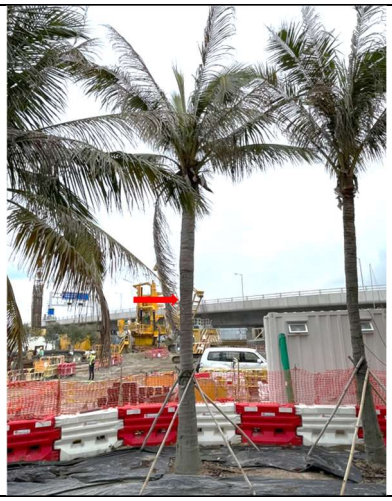
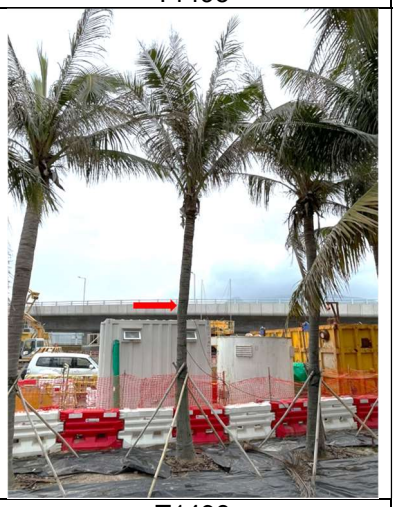
Table 7.6: Summary of the Transplanted Trees Updated in the Reporting Period

Tree ID	Transplant Date	Management Stage	Management Agency	Remarks
CT276	3 May 2018	Establishment period 4 May 2018 – May 2019	Contract 3801	Next inspection will be conducted in February 2022. Photos of the last inspection in February 2021 can be referred to Table 7.7 of the Construction Phase Monthly EM&A Report No.62.
		Long Term Management period Jun 2019 – May 2028	Southern Landside Petrol Filling Station	
CT1253	4 May 2018	Establishment period 5 May 2018 – May 2019	Contract 3801	
		Long Term Management period Jun 2019 – May 2028	Southern Landside Petrol Filling Station	
T835	22 Jan 2020	Establishment period 23 Jan 2020 – Jan 2021	Contract 3503	Next inspection will be conducted in February 2022. Photos of the last inspection in February 2021 can be referred to Table 7.7 of the Construction Phase Monthly EM&A Report No.62.
		Long Term Management period Feb 2021 – Jan 2030		
T836	13 Dec 2019	Establishment period 14 Dec 2020 – Jan 2021	Contract 3503	
		Long Term Management period Feb 2021 – Jan 2030		
T838	22 Jan 2020	Establishment period 23 Jan 2020 – Jan 2021	Contract 3503	
		Long Term Management period Feb 2021 – Jan 2030		
T812	21 Dec 2020	Establishment period 22 Dec 2020 – Dec 2021	Contract 3503	Next inspection will be conducted in December 2022. Photos of the last inspection in December 2021 can be referred to Table 7.7 of the Construction Phase Monthly EM&A Report No.72.
		Long Term Management period Jan 2022 – Dec 2031		
T814	20 Dec 2020	Establishment period 21 Dec 2020 – Dec 2021	Contract 3503	
		Long Term Management period Jan 2022 – Dec 2031		
T815	15 Dec 2020	Establishment period 16 Dec 2020 – Dec 2021	Contract 3503	
		Long Term Management period Jan 2022 – Dec 2031		
T829	18 Dec 2020	Establishment period 19 Dec 2020 – Dec 2021	Contract 3503	
		Long Term Management period Jan 2022 – Dec 2031		

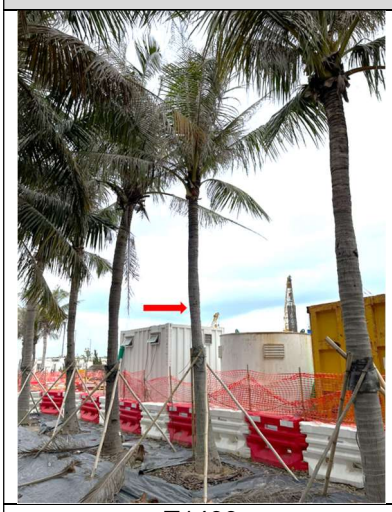
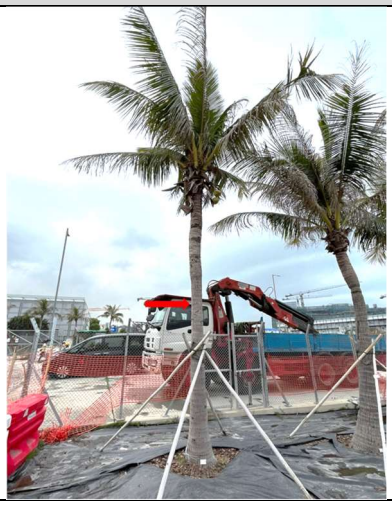
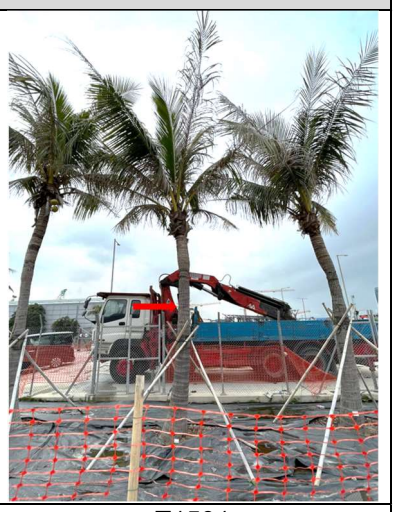
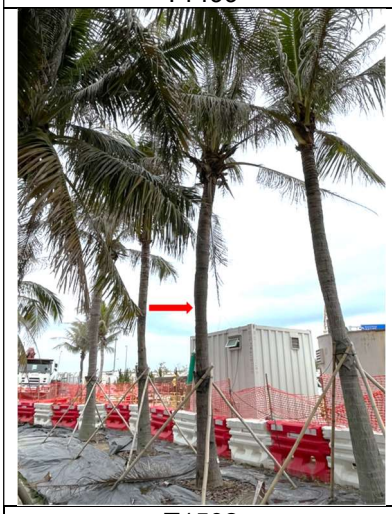
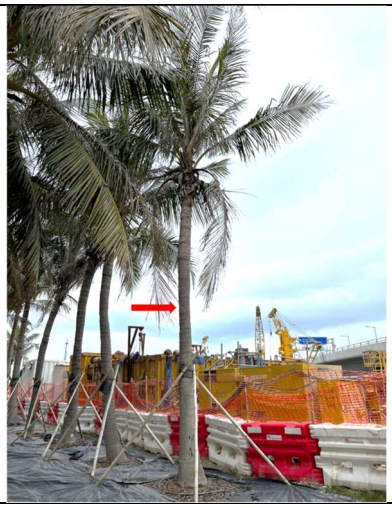
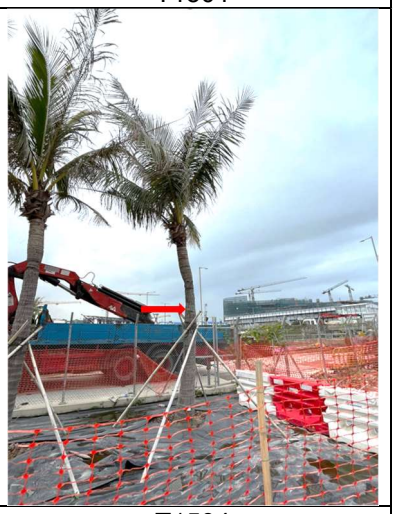
Tree ID	Transplant Date	Management Stage	Management Agency	Remarks
T830	14 Dec 2020	Establishment period 15 Dec 2020 – Dec 2021 Long Term Management period Jan 2022 – Dec 2031	Contract 3503	
T831	19 Dec 2020	Establishment period 20 Dec 2020 – Dec 2021 Long Term Management period Jan 2022 – Dec 2031	Contract 3503	
T1493	6 Jul 2021	Establishment period 7 Jul 2021 – Jul 2022	Contract 3508	Next inspection will be conducted in March 2022. Photos of the last inspection in January 2022 were shown in **Table 7.7**.
T1494	6 Jul 2021	Establishment period 7 Jul 2021 – Jul 2022	Contract 3508	
T1495	10 Jul 2021	Establishment period 11 Jul 2021 – Jul 2022	Contract 3508	
T1496	5 Jul 2021	Establishment period 6 Jul 2021 – Jul 2022	Contract 3508	
T1497	5 Jul 2021	Establishment period 6 Jul 2021 – Jul 2022	Contract 3508	
T1498	29 Jun 2021	Establishment period 30 Jun 2021 – Jul 2022	Contract 3508	
T1499	29 Jun 2021	Establishment period 30 Jun 2021 – Jul 2022	Contract 3508	
T1500	30 Jun 2021	Establishment period 1 Jul 2021 – Jul 2022	Contract 3508	
T1501	30 Jun 2021	Establishment period 1 Jul 2021 – Jul 2022	Contract 3508	
T1502	5 Jul 2021	Establishment period 6 Jul 2021 – Jul 2022	Contract 3508	
T1503	6 Jul 2021	Establishment period 7 Jul 2021 – Jul 2022	Contract 3508	
T1504	24 Jun 2021	Establishment period 25 Jun 2021 – Jul 2022	Contract 3508	
CT1194	4 May 2018	Establishment period 5 May 2018 – May 2019	Contract 3801	NA
		Long Term Management period Jun 2019 – May 2028	Southern Landside Petrol Filling Station	Uprooted and collapsed due to Typhoon Higos on 18 August 2020. Tree removal was conducted as recommended by tree specialist of the contractor of Southern Landside Petrol Filing Station.
CT1794	3 May 2018	Establishment period 4 May 2018 – May 2019	Contract 3801	NA
		Long Term Management period	AsiaWorld-Expo	The tree within the land parcel was acquired by the government for construction of emergency hospital

Tree ID	Transplant Date	Management Stage	Management Agency	Remarks
		Jun 2019 – May 2028		to handle COVID19 pandemic at AsiaWorld-Expo. The tree was felled in late 2020.
CT1795	3 May 2018	Establishment period 4 May 2018 – May 2019	Contract 3801	NA
		Long Term Management period Jun 2019 – May 2028	AsiaWorld-Expo	The tree within the land parcel was acquired by the government for construction of emergency hospital to handle COVID19 pandemic at AsiaWorld-Expo. The tree was felled in late 2020.

Table 7.7: Photos of the Existing Transplanted Trees Inspected in this Reporting Month

Under 12-month Establishment Period:		
		
T1493	T1494	T1495
		
T1496	T1497	T1498

Under 12-month Establishment Period:

		
T1499	T1500	T1501
		
T1502	T1503	T1504

7.3 Land Contamination Assessment

The Supplementary CAP was submitted to EPD pursuant to EP Condition 2.20. The CARs for Golf Course and T2 Emergency Power Supply Systems (EPSS) were submitted to EPD in accordance with EP Condition 1.9 and the Supplementary CAP in which no land contamination issues were identified. EPD has issued no further comment for aforesaid CARs. No leakage was found after the removal of underground fuel pipelines of T2 EPSS and all required additional photos have been submitted to EPD.

According to the approved supplementary CAP, there are 3 remaining locations where site re-appraisal / additional site investigation are proposed. Based on the latest construction information, there is no development programme for these locations at this stage. As such, the status of site re-appraisal/ additional site investigation shall be further updated upon latest development programme is available.

7.4 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 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.

Due to the COVID-19 pandemic, all SkyPier HSF services to/from Zhuhai and Macau have been suspended from 25 March 2020 until further notice. No ferry movement between HKIA SkyPier and Zhuhai and Macau was recorded in January 2022. 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 summarised in **Table 7.8**.

The daily movement of all SkyPier HSFs, including those not using the diverted route, in this reporting period (i.e., 3 to 4 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.

As updated by CLP Power, the construction works of the Hong Kong Offshore LNG Terminal Project may affect the route diversion operation of the SkyPier HSFs from Q1 to Q2 2022. The captains were informed on the issue and ET will continue to closely monitor the implementation of the SkyPier Plan in the period.

Table 7.8: Summary of Key Audit Findings against the SkyPier Plan

Requirements in the SkyPier Plan	1 to 31 January 2022
Total number of ferry movements recorded and audited for HSF to/from Zhuhai and Macau	0
Use diverted route and enter / leave SCZ through Gate Access Points	0 deviation
Daily Cap for all SkyPier HSFs including those not using diverted route	3 to 4 daily movement (within the maximum daily cap - 125 daily movements)

7.5 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 May 2020 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:

- Seven skipper training sessions were held by contractors' Environmental Officers. Competency tests were subsequently conducted with the trained skippers by ET. The list of all trained skippers was properly recorded and maintained by ET.
- In this reporting period, 7 skippers were trained by contractors' Environmental Officers. In total, 1845 skippers were trained from August 2016 to January 2022.
- The 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, entered no entry zone, 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 Construction Traffic Control Centre (CTCC) 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.

7.6 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 DCM and seawall construction 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 that no dolphin sightings were recorded within the DEZ by the contractors. The ET checked the dolphin sighting record and relevant records by the contractors to audit the implementation of DEZ.

7.7 Status of Submissions under Environmental Permits

The current status of submissions under the EP up to the reporting period is presented in **Table 7.9**.

Table 7.9: 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	
2.18	Landscape & Visual Plan	
2.19	Waste Management Plan	
2.20	Supplementary Contamination Assessment Plan	
3.1	Updated EM&A Manual	
3.4	Baseline Monitoring Reports	

7.8 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 E**.

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

7.9.1 Complaints

No construction activities-related complaint was received during the reporting period.

7.9.2 Notifications of Summons or Status of Prosecution

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

7.9.3 Cumulative Statistics

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

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

8.1 Construction Programme for the Coming Reporting Period

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

Reclamation Works:

Contract 3206 Main Reclamation Works

- Seawall construction; and
- Backfilling works.

Airfield Works:

Contract 3301 North Runway Crossover Taxiway

- Cabling works; and
- Stockpiling.

Contract 3302 Eastern Vehicular Tunnel Advance Works

- Construction of tunnel structure;
- Pipe and drainage diversion works;
- Excavation and lateral support systems installation; and
- Stockpiling.

Contract 3303 Third Runway and Associated Works

- Architectural, Builder's and Finishing works;
- Footing and utilities work;
- Box culvert construction;
- Piling work;
- Operation of asphalt plant; and
- Cable laying and ducting works.

Contract 3305 Airfield Ground Lighting System

- Cabling works;
- Network installation; and
- Genset installation.

Contract 3306 Observation Facility Control System Supporting Interim 2RS and 3RS

- Equipment installation;
- Cabling works; and
- Installation of temporary site accommodation.

Contract 3307 Fire Training Facility

- Architectural, Builder's and Finishing works;
- Drainage and utilities works; and
- Building construction.

Contract 3308 Foreign Object Debris Detection System

- Site formation; and

Foreign Object Debris Tower installation.

Contract 3310 North Runway Modification Works

- Cutter soil mixing;
- Deep cement mixing; and
- Pre-boring.

Third Runway Concourse:

Contract 3403 New Integrated Airport Centres Building and Civil Works

- Architectural, Builder's Work and Finishing works;
- Steel frame installation;
- Road and drainage works;
- Backfilling; and
- Underground utilities construction.

Contract 3404 Integrated Airport Control System

- Equipment installation; and
- Cable laying.

Contract 3405 Third Runway Concourse Foundation and Substructure Works

- Sheet piling and bored piling;
- Excavation and backfilling; and
- Road formation.

Contract 3408 Third Runway Concourse and Apron Works

- Site setup works; and
- Excavation and lateral support works.

Terminal 2 Expansion:

Contract 3508 Terminal 2 Expansion Works

- Excavation and footing construction;
- Bridge demolition;
- Piling works;
- Drainage works;
- Temporary road construction;
- TBM mobilization; and
- Architectural, Builder's Work and Finishing works.

Automated People Mover (APM) and Baggage Handling System (BHS):

Contract 3601 New Automated People Mover System (TRC Line)

- Pull out test for guideway;
- Guidebeam installation; and
- Concreting work.

Contract 3602 Existing APM System Modification Works

- Car modification; and
- Concrete plinth and stitch construction.

Contract 3603 Baggage Handling System (BHS)

- BHS installation.

Construction Support (Facilities):

Contract 3721 Construction Support Infrastructure Works

- Laying of drainage pipes and ducts;
- Site clearance;
- Paving works; and
- Road works.

Contract 3723 Construction Support Facilities

- Clearance works; and
- Footing works.

Airport Support Infrastructure:

Contract 3801 APM and BHS Tunnels on Existing Airport Island

- Excavation;
- Parapet wall construction; and
- Rebar fixing and formwork erection.

Contract 3802 APM and BHS Tunnels and Related Works

- Wall and slab construction;
- Installation of dewatering well;
- Deep jet mixing
- Pipe pile and sheet pile works; and
- Excavation and lateral supports.

Construction Support (Services / Licenses):

Contract 3901A Concrete Batching Facility

- Operation of concrete batching plant;
- Material conveyor belt construction; and
- Testing and commissioning for conveyor belt.

Contract 3901B Concrete Batching Facility

- Operation of concrete batching plant; and
- Testing and commissioning for conveyor belt.

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 DCM works;
- DEZ monitoring for ground improvement works (DCM works) and seawall construction;
- Implementation of MMWP for silt curtain deployment;
- Sorting, recycling, storage and disposal of general refuse and construction waste;
- Reuse of treated marine sediments from piling and excavation works;
- 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**.

8.4 Review of the Key Assumptions Adopted in the EIA Report

With reference to Appendix E of the Manual, it is noted that the key assumptions adopted in approved EIA report for the construction phase are still valid and no major changes are involved. The environmental mitigation measures recommended in the approved EIA Report remain applicable and shall be implemented in undertaking construction works for the Project.

9 Conclusion and Recommendation

The key activities of the Project carried out in the reporting period are located in reclamation areas and existing airport island respectively. Works in the reclamation areas included seawall construction, filling and ground improvement works, together with runway, concourse and associated works. Land-based works on existing airport island involved mainly airfield works, Terminal 2 expansion works, modification and tunnel work for Automated People Mover (APM) and Baggage Handling System (BHS), and preparation work for utilities, with activities include road and drainage works, cable ducting, demolition, piling, and excavation works.

All the monitoring works for construction dust, construction noise, water quality, construction waste, landscape & visual, 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 all parameters, except SS, obtained during the reporting period were within the corresponding Action and Limit Levels stipulated in the EM&A programme. Relevant investigation and follow-up actions will be conducted according to the EM&A programme if the corresponding Action and Limit Levels are triggered. For SS, some of the testing results triggered the relevant Action Levels, and the corresponding investigations were conducted accordingly. The investigation findings concluded that the cases were not related to the Project. To conclude, the construction activities in the reporting period did not introduce adverse impact to all water quality sensitive receivers.

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 the SkyPier Plan, due to the COVID-19 pandemic, all SkyPier HSF services to/from Zhuhai and Macau have been suspended from 25 March 2020 until further notice. No HSF movement between HKIA SkyPier and Zhuhai and Macau was recorded during the reporting period. Therefore, no deviation was recorded in the HSF monitoring in the reporting period. The daily movements of all SkyPier HSFs in the reporting period, including those not using the diverted route, were in the range of 3 to 4 daily movements, which are within the maximum daily cap of 125 daily movements.

On the implementation of MTRMP-CAV, the MSS automatically recorded the deviation case such as speeding, entering no entry zone and not travelling through the designated gates. ET conducted checking to ensure the MSS records all deviation cases accurately. Trainings have 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, entered no entry zone, and entry from non-designated gates were reviewed by ET. All the concerned captains were reminded by the contractor's CTCC representative to comply with the requirements of the MTRMP-CAV. The ET reminded contractors that all vessels shall avoid entering the no-entry zone, in particular the Brothers Marine Park and the Sha Chau & Lung Kwu Chau 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

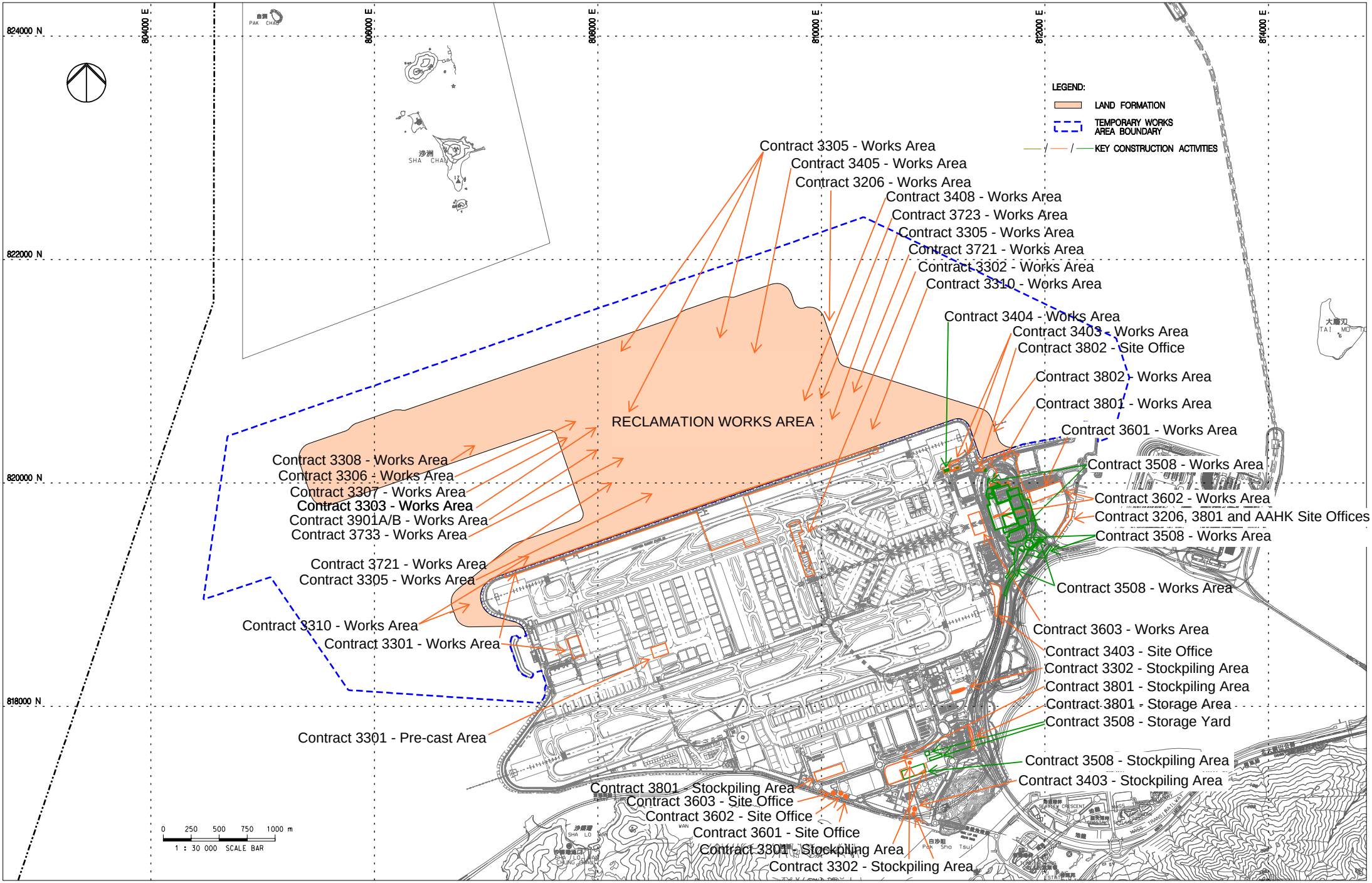
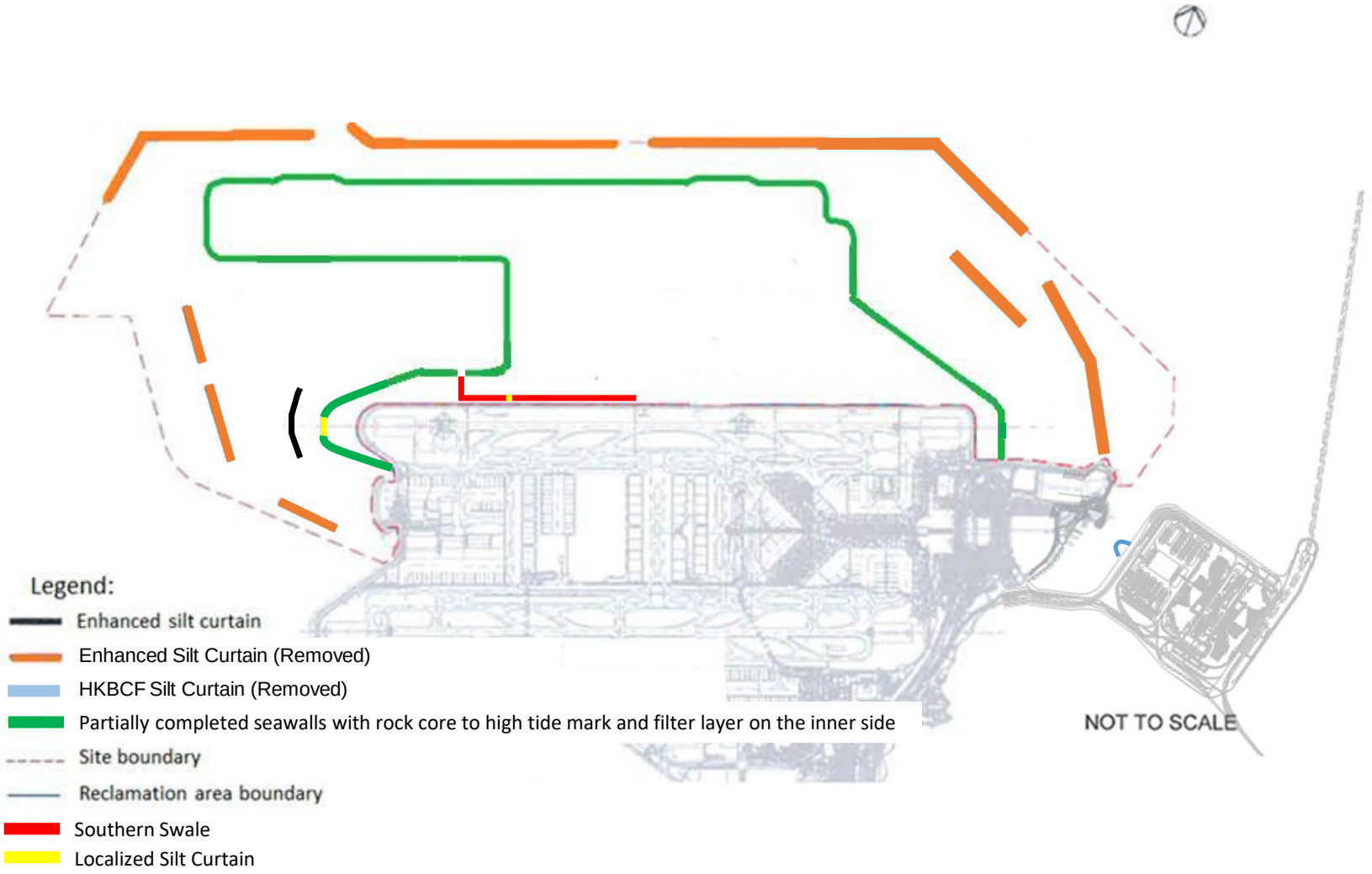


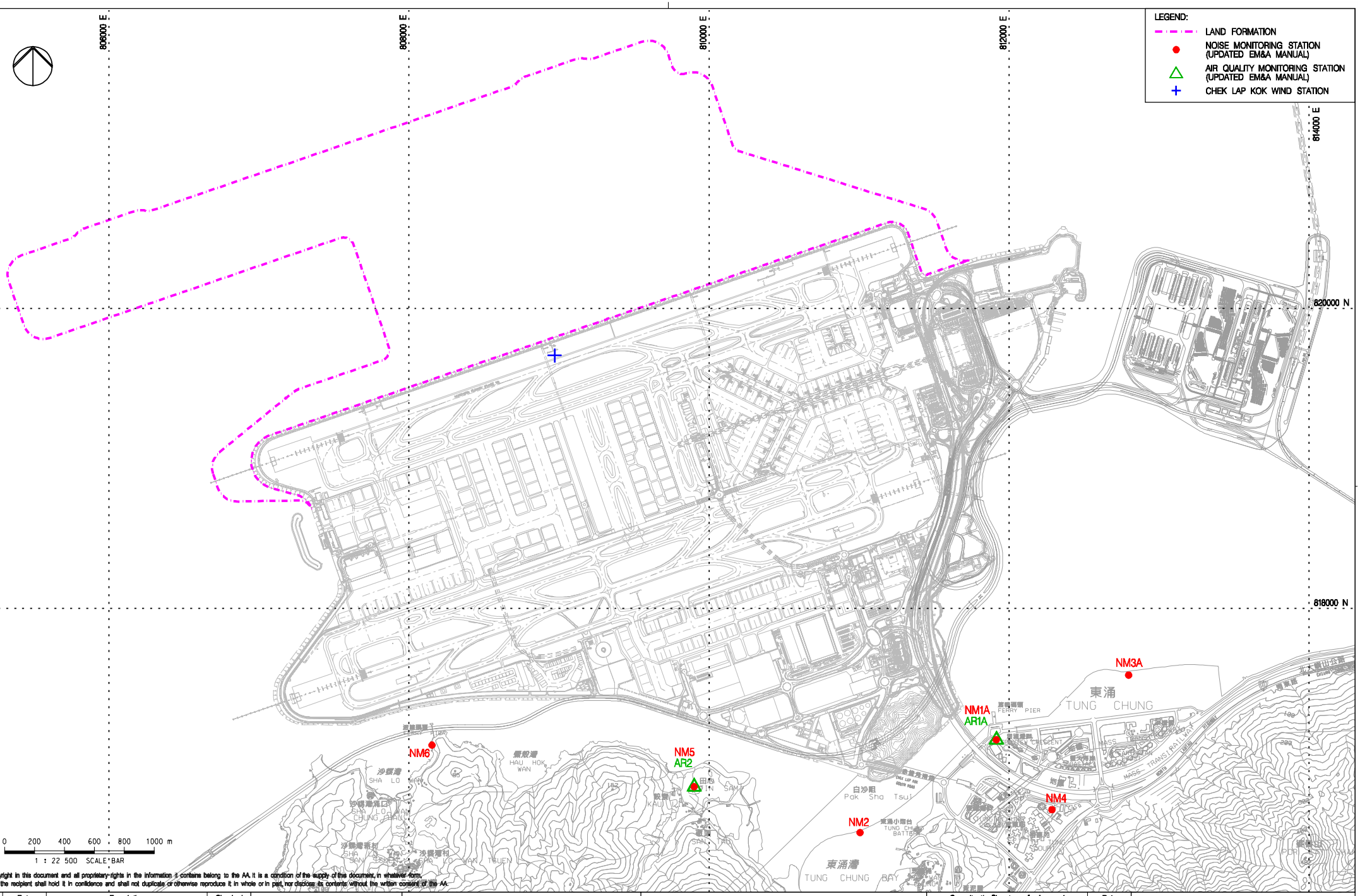
FIGURE 1.1 LOCATIONS OF KEY CONSTRUCTION ACTIVITIES

Note: The locations are for indicative purpose. The actual construction work locations are in accordnace with the construction work programme.

Figure 1.2

Latest layout of the silt curtain with 3RS reclamation land area





Rev.	Date	Description	Checked
A	06JAN16	FIRST ISSUE	RO
B	29JAN16	GENERAL REVISION	RO
C	11FEB16	GENERAL REVISION	RO
D	29OCT18	GENERAL REVISION	SH

香港國際機場 HONG KONG INTERNATIONAL AIRPORT

MOTT MACDONALD

Title

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

Consultant's Signatures for Approval		Date
Design	TK	29OCT18
Checkers	TK	29OCT18
Approver	EC	29OCT18

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

Drawing No.

FIGURE 2.1

Scale at A3 1 : 22500

Rev. D

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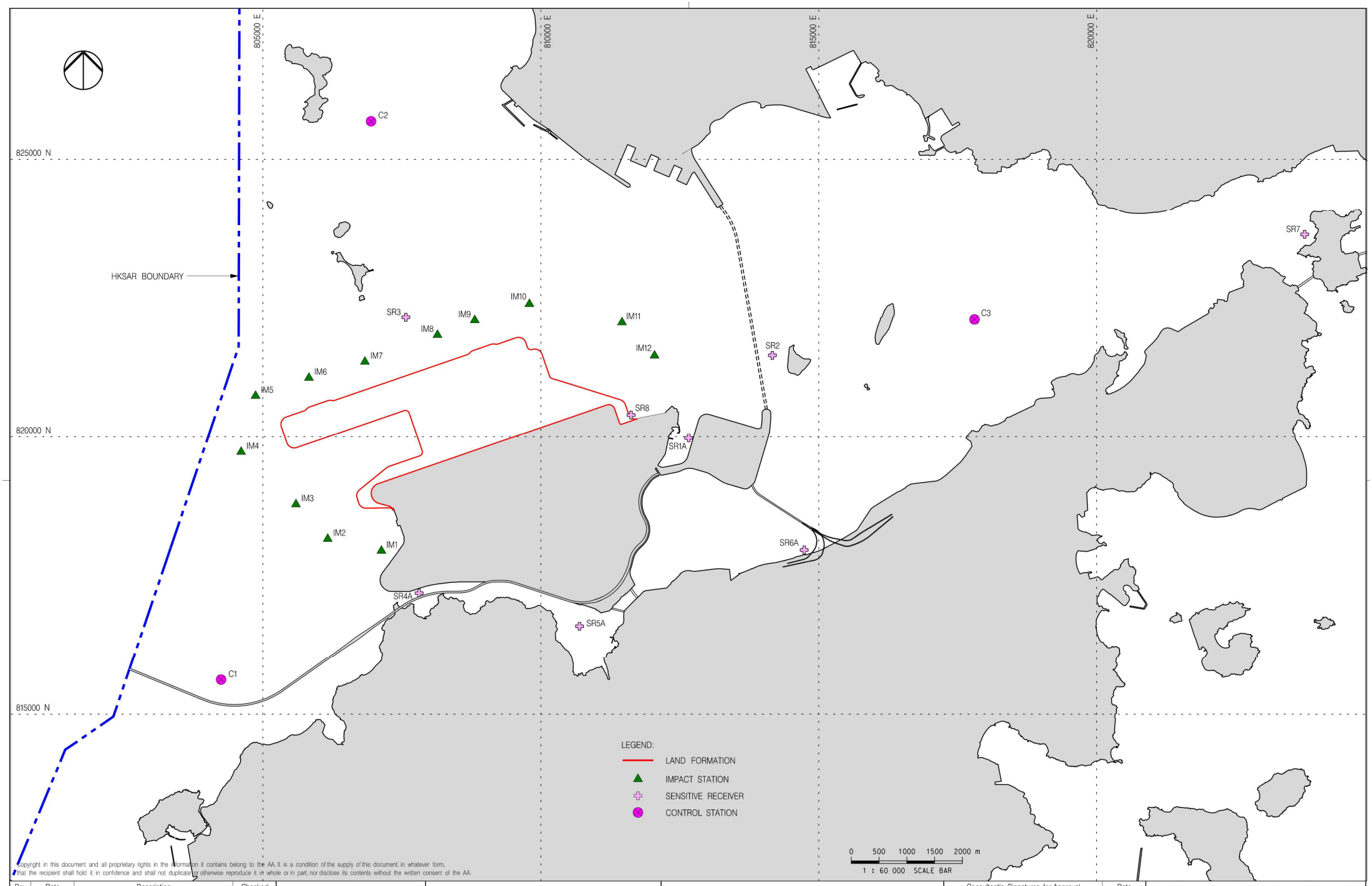


Rev.	Date	Description	Checked
A	21AUG19	FIRST ISSUE	VL

香港國際機場 HONG KONG INTERNATIONAL AIRPORT

Airport Authority Hong Kong, HKIA Tower, 1 Sky Plaza Road, Hong Kong, International Airport, Lantau, Hong Kong
Tel: (852) 2188 7111 Fax: (852) 2824 0711

MOTT MACDONALD

Title

WATER QUALITY MONITORING STATIONS
(before 25 January 2022)

Consultant's Signatures for Approval		Date
Design	DC	21AUG19
Checkers	DC / TK	21AUG19
Approver	EC	21AUG19

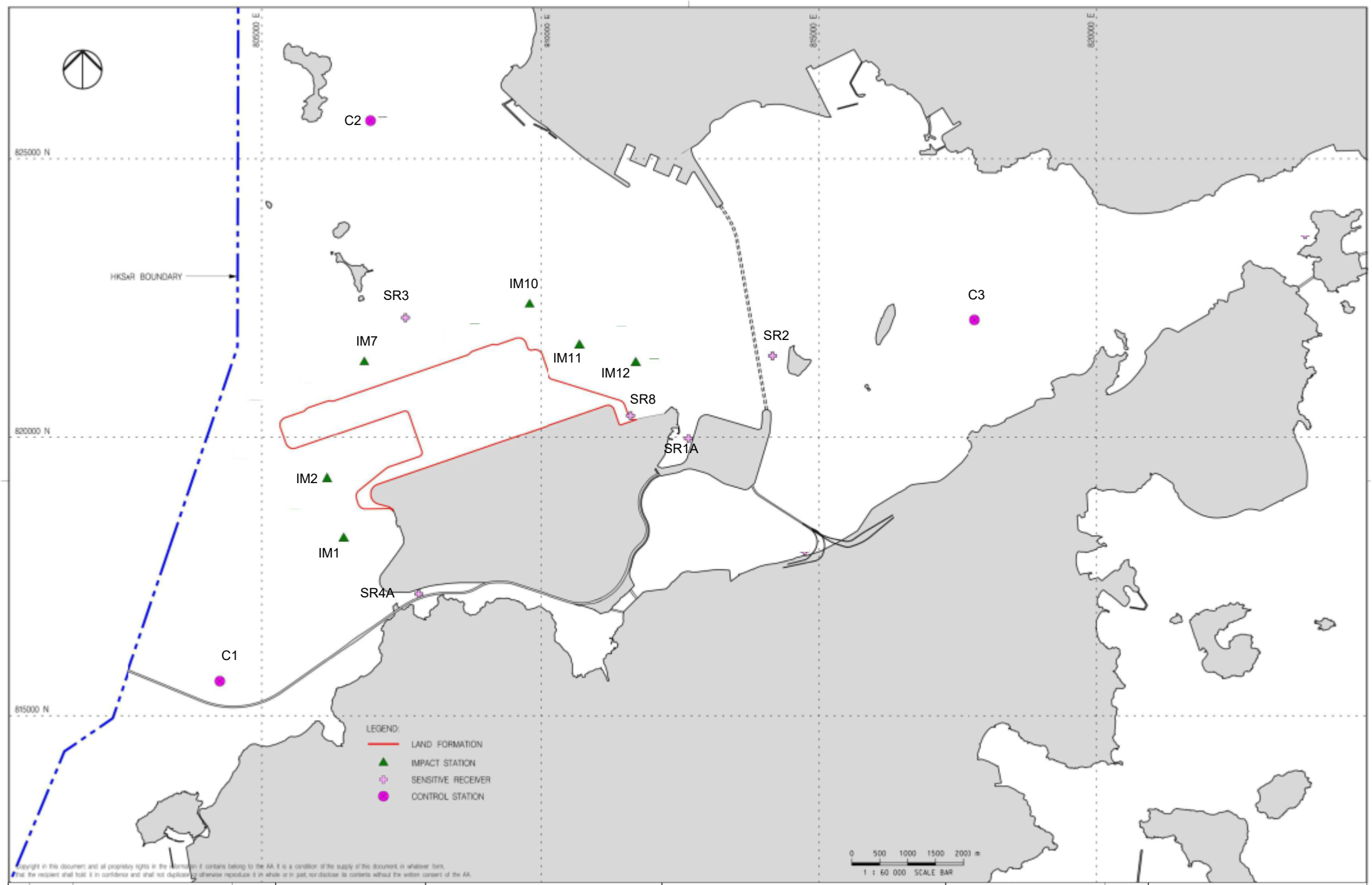
EXPANSION OF HONG KONG INTERNATIONAL AIRPORT INTO A THREE-RUNWAY SYSTEM

Drawing No.
FIGURE 4.1a

Scale at A3
1 : 60000

Rev. A

Filename: J:\355482\REPORT\ENV\EMA\190821\FIG 4.1.dgn



Rev.	Date	Description	Checked
A	21AUG19	FIRST ISSUE	VL

香港國際機場 HONG KONG INTERNATIONAL AIRPORT

MOTT MACDONALD

Title

WATER QUALITY MONITORING STATIONS
(on and after 25 January 2022)

Consultant's Signatures for Approval		Date
Design	DC	21AUG19
Checkers	DC / TK	21AUG19
Approver	EC	21AUG19

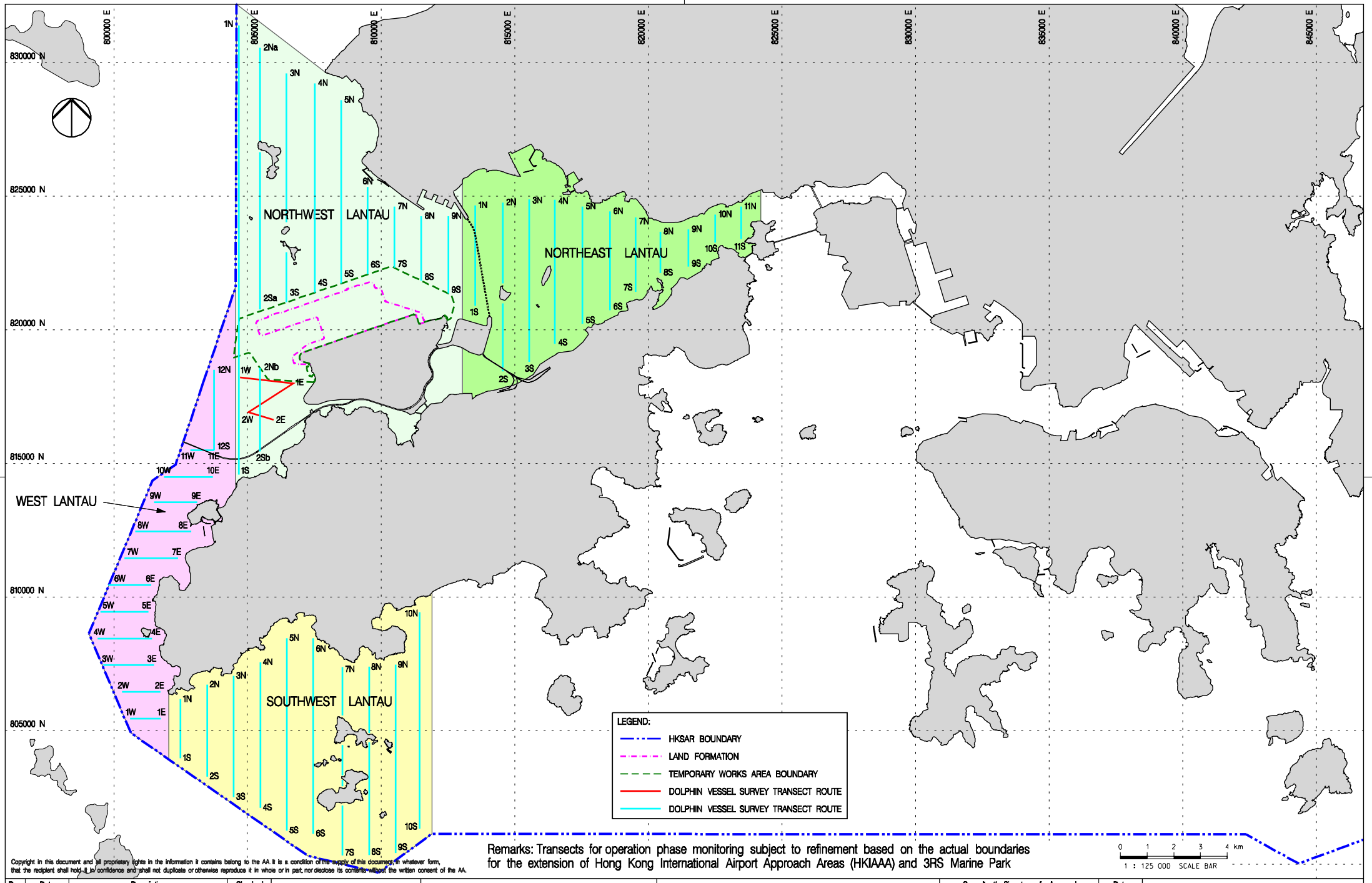
EXPANSION OF HONG KONG INTERNATIONAL AIRPORT INTO A THREE-RUNWAY SYSTEM

Drawing No.

FIGURE 4.1b

Scale at A3
1 : 60000

Rev.
A



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

Rev.	Date	Description	Checked
B	27JUL16	GENERAL REVISION	JT
C	06FEB17	GENERAL REVISION	JT
D	01MAR17	GENERAL REVISION	JT
E	29OCT18	GENERAL REVISION	SH
F	04APR19	GENERAL REVISION	SH

香港國際機場 HONG KONG INTERNATIONAL AIRPORT

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MOTT MACDONALD

Title

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

Consultant's Signatures for Approval		Date
Design	JC	04APR19
Checkers	JC / TK	04APR19
Approver	EC	04APR19

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

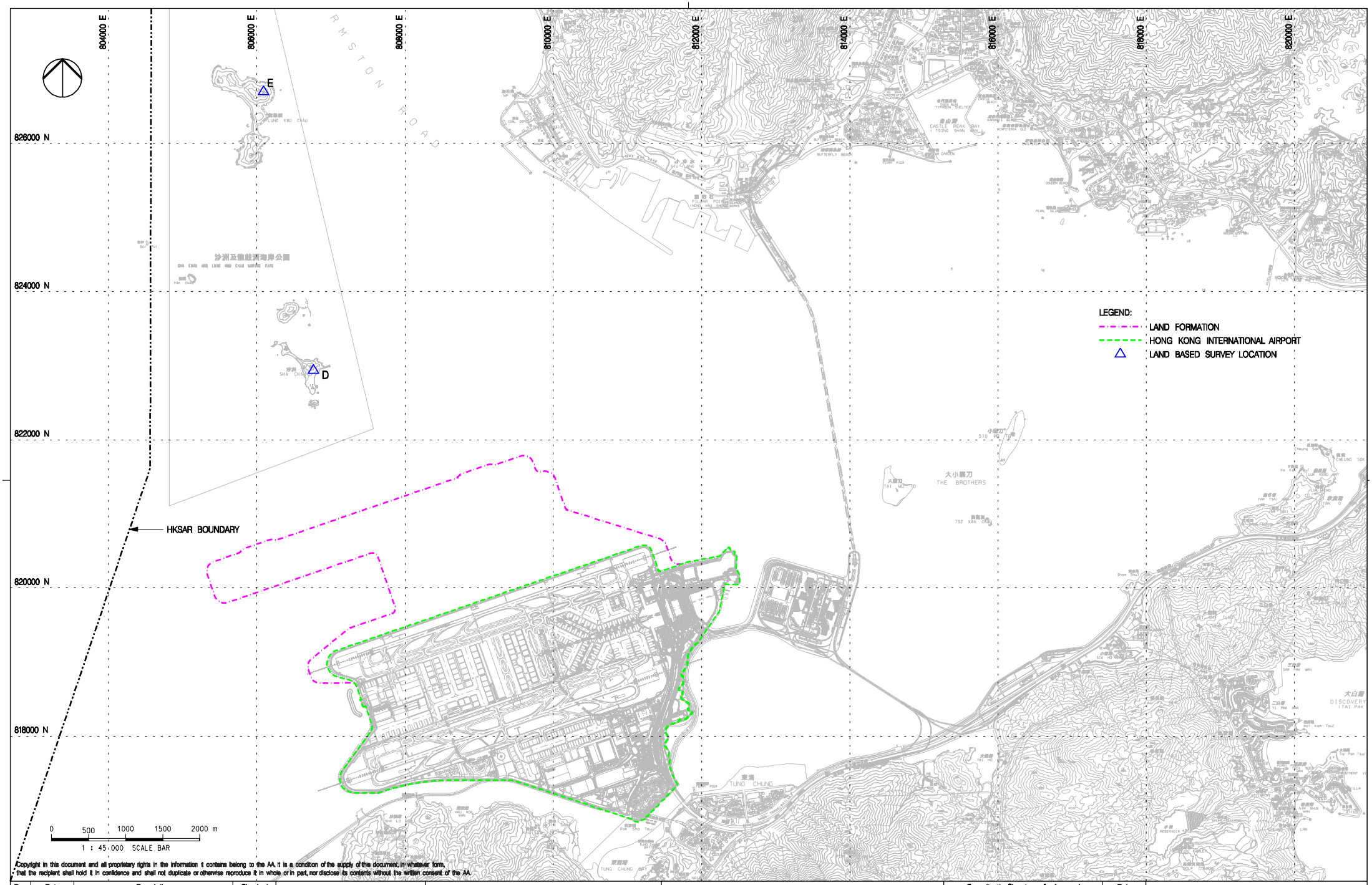
Drawing No.

FIGURE 6.1

Scale at A3 1 : 125000

Rev. F

Filename: J:\355482\REPORT\ENV\EMA\190404\FIG 6.1.dgn



Rev.	Date	Description	Checked
A	02DEC15	FIRST ISSUE	JC
B	08FEB17	GENERAL REVISION	JC
C	29OCT18	GENERAL REVISION	SH

香港國際機場 HONG KONG INTERNATIONAL AIRPORT

MOTT MACDONALD

Title

LAND BASED DOLPHIN MONITORING IN BASELINE AND CONSTRUCTION PHASES

Consultant's Signatures for Approval		Date
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Checkers	JC / TK	29OCT18
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EXPANSION OF HONG KONG INTERNATIONAL AIRPORT INTO A THREE-RUNWAY SYSTEM

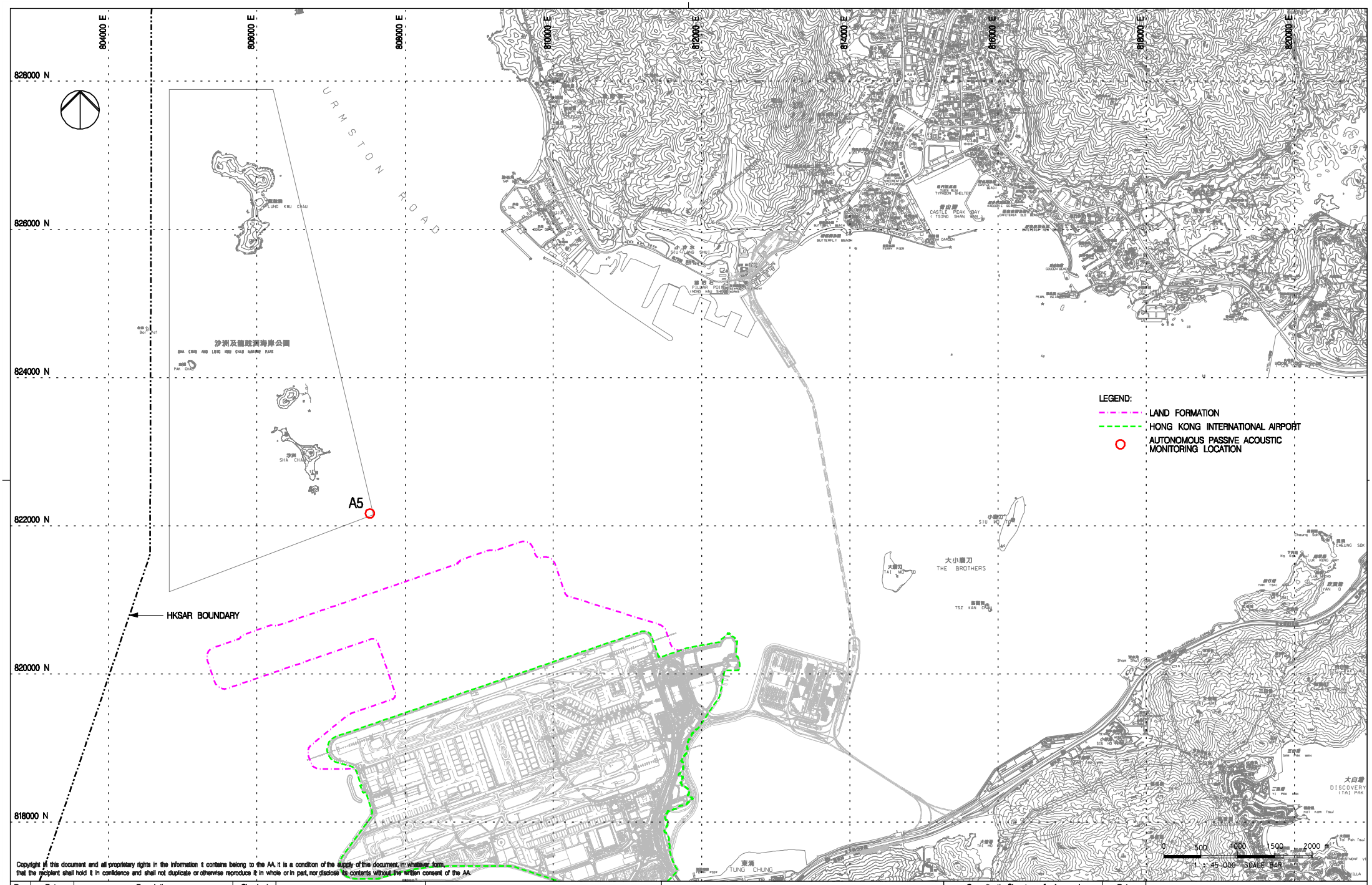
Drawing No.

FIGURE 6.2

Scale at A3 1 : 45000

Rev. C

Filename: J:\355482\REPORT\ENV\EMA\181029\FIG 2.5.dgn



Rev.	Date	Description	Checked
A	29AUG17	FIRST ISSUE	JT
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C	29OCT18	GENERAL REVISION	SH

香港國際機場 HONG KONG INTERNATIONAL AIRPORT

MOTT MACDONALD

Title

LOCATION FOR AUTONOMOUS PASSIVE ACOUSTIC MONITORING

Consultant's Signatures for Approval		Date
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EXPANSION OF HONG KONG INTERNATIONAL AIRPORT INTO A THREE-RUNWAY SYSTEM

Drawing No.

FIGURE 6.5

Scale at A3 1 : 45000

Rev. C

Filename: J:\355482\REPORT\EN\EMA\181029\FIG 2.11.dgn

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

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	I

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	I

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, stockpiles 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	I

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	I
			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	I
			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	I
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	I

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	I
			Hot feed side ▪ The inlet and outlet of the rotary dryer shall be enclosed and ducted to a dust extraction and collection system such as a fabric filter. The particulate and gaseous concentration at the exhaust outlet of the dust collector shall not exceed the required limiting values; ▪ The bucket elevator shall be totally enclosed and the air be extracted and ducted to a dust collection system to meet the required particulates limiting value; ▪ All vibratory screens shall be totally enclosed and dust tight with close-fitted access inspection opening. Gaskets shall be installed to seal off any cracks and edges of any inspection openings; ▪ Chutes for carrying hot material shall be rigid and preferably fitted with abrasion resistant plate inside. They shall be inspected daily for leakages; ▪ All hot bins shall be totally enclosed and dust tight with close-fitted access inspection opening. Gaskets shall be installed to seal off any cracks and edges of any inspection openings. The air shall be extracted and ducted to a dust collection system to meet the required particulates limiting value; and	Within Concrete Batching Plant / 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?^
			▪ 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	I
			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	I
			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	I
			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	I
5.2.6.7	2.1	-	**Best Practices for Rock Crushing Plants** The relevant best practices for dust control as stipulated in the Guidance Note on the Best Practicable Means for Mineral Works (Stone Crushing Plant) BPM 11/1 (95) as well as in the future Specified Process licence should be adopted. These include: Crushers	Within Concrete Batching Plant / Duration of the construction phase	N/A as there was no rock crushing plant at this stage

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			▪ 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 as there was no rock crushing plant at this stage
			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 as there was no rock crushing plant at this stage
			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.	Within Concrete Batching Plant / Duration of the construction phase	N/A as there was no rock crushing plant at this stage

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			▪ 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; and ▪ Scattered piles gathered beneath belt conveyors, inside and around enclosures shall be cleared regularly.		
			Rock drilling equipment ▪ Appropriate dust control equipment such as a dust extraction and collection system shall be used during rock drilling activities.	Within Concrete Batching Plant / Duration of the construction phase	N/A as there was no rock crushing plant at this stage
			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; ▪ plant known to emit noise strongly in one direction, should, where possible, be orientated to direct noise away from the NSRs; ▪ mobile plant should be sited as far away from NSRs as possible; and ▪ material stockpiles and other structures to be effectively utilised, where practicable, to screen noise from on-site construction activities.	Within the Project site / During construction phase / Prior to commencement of operation	I

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
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		
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 seabed 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 wastewater meets the WPCO/TM requirements before discharge. No direct discharge of contaminated water is permitted.	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?^
			Specific Measures to be Applied to All Works Areas ▪ 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 – For marine filling C – Completed in Nov 2020 for sand blanket
			▪ 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;		C – Completed in May 2018
			▪ 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		I (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
			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	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 enclose WSRs C7a and silt screens installed at the intake points for both WSR C7a and C8 prior to commencement of construction; and		I – For C7a C – Completed in Dec 2021 for C8 *(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

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 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	I *(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		I – For C7a C – Completed in Dec 2021 for C8 (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 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 at 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 – the field joint excavation works for the submarine cable diversion will no longer be conducted anymore
8.8.1.4	5.1	-	**Modification of the Existing Seawall** ▪ Silt curtains shall be deployed around the seawall modification activities to completely enclose the active works areas, and care should be taken to avoid splashing of rockfill / rock armour into the surrounding marine environment. For the connecting sections with the existing outfalls, works for these connection areas should be undertaken during the dry season in order that individual drainage culvert cells may be isolated for interconnection works.	At the existing northern seawall / Duration of the construction phase	I

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
8.8.1.5	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	I
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.	Within construction site / Duration of the construction phase	C – For approach lights N/A for marker beacons as HKIAAA Marker Beacons would be replaced by buoys
			<u>For construction of the eastern approach lights at the CMPs</u> ▪ Ground improvement via DCM using a close-spaced layout shall be completed prior to commencement of piling works; ▪ Steel casings shall be installed to enclose the excavation area prior to commencement of excavation; ▪ The excavated materials shall be removed using a closed grab within the steel casings; ▪ No discharge of the cement mixed materials into the marine environment will be allowed; and ▪ Excavated materials shall be treated and reused on-site.		C – Completed in Oct 2021
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:	Within construction site / Duration of the construction phase	
			▪ 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 sandbag barriers should be provided on site to direct storm water to silt removal facilities. The design of the temporary on-site drainage system should be undertaken by the Contractors prior to the commencement of construction (for works areas located on the existing Airport island) or as soon as the new land is completed (for works areas located on the new landform);		I
			▪ 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

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			▪ 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;		I
			▪ 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		I
			▪ 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
			▪ Open stockpiles of construction materials or construction wastes on-site should be covered with tarpaulin or similar fabric during rainstorms. Measures should be taken to prevent the construction materials, soil, silt or debris from washing away into the drainage system;		I
			▪ Manholes (including newly constructed ones) should be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system and to prevent stormwater runoff being directed into foul sewers; and		I
			▪ Precautionary measures should be taken at any time of the year when rainstorms are likely. Actions to be taken when a rainstorm is imminent or forecasted are summarized in Appendix A2 of ProPECC Note PN 1/94. This includes actions to be taken during and/or after rainstorms. Particular attention should be paid to the control of silty surface runoff during storm events.		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

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
8.8.1.10 8.8.1.11	5.1		**General Construction Activities** ▪ Construction solid waste, debris and refuse generated on-site should be collected, handled and disposed of properly to avoid entering any nearby storm water drain. Stockpiles of cement and other construction materials should be kept covered when not being used; and ▪ Oils and fuels should only be stored in designated areas which have pollution prevention facilities. To prevent spillage of fuels and solvents to any nearby storm water drain, all fuel tanks and storage areas should be provided with locks and be sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank. The bund should be drained of rainwater after a rain event.	Within construction site / During construction phase	I
8.8.1.12 8.8.1.13	5.1	2.28	**Drilling Activities for the Submarine Aviation Fuel Pipelines** To prevent potential water quality impacts at Sha Chau, the following measures shall be applied: ▪ A 'zero-discharge' policy shall be applied for all activities to be conducted at Sha Chau; ▪ No bulk storage of chemicals shall be permitted; and ▪ 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	C – Completed in Jan 2019
			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	C – Completed in Jan 2019
			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

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			▪ 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		I
			▪ 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.		I
10.5.1.1	7.1	-	The following good site practices should be performed during the construction activities include: ▪ Nomination of an approved person, such as a site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site; ▪ Training of site personnel in proper waste management and chemical waste handling procedures; ▪ 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;	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?^
			▪ Adoption of repetitive design to allow reuse of formworks as far as practicable; ▪ Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal; ▪ Encourage collection of aluminium cans, PET bottles and paper by providing separate labelled bins to enable these wastes to be segregated from other general refuse generated by the work force; ▪ Any unused chemicals or those with remaining functional capacity should be collected for reused as far as practicable; ▪ Proper storage and site practices to minimise the potential for damage or contamination of construction materials; and ▪ Plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste.		
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;	Project Site Area / Construction Phase	I
			▪ 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;		I
			▪ All practical measures, including but not limited to speed control for vehicles, should be taken to minimise dust emission;		I
			▪ Good housekeeping should be maintained at all times at the sediment treatment facility and storage area;		I
			▪ Treated and untreated sediment should be clearly separated and stored separately; and		I
			▪ 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.		I

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
10.5.1.18	7.1	-	The marine sediments to be removed from the cable field joint area would be disposed of at the designated disposal sites to be allocated by the MFC. The following mitigation measures should be strictly followed to minimise potential impacts on water quality during transportation of the sediments requiring Type 1 disposal: ▪ Bottom opening of barges shall be fitted with tight fitting seals to prevent leakage of material; ▪ Monitoring of the barge loading shall be conducted to ensure that loss of material does not take place during transportation. Transport barges or vessels shall be equipped with automatic self-monitoring devices as specified by EPD; and ▪ Barges or hopper barges shall not be filled to a level that would cause the overflow of materials or sediment laden water during loading or transportation.	Project Site Area / Construction Phase	N/A – the field joint excavation works for the submarine cable diversion will no longer be conducted anymore
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 'windblown' 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	I
			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

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			▪ 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.		C – Completed in Jan 2018
			▪ 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 and Terminal 2 emergency power supply system nos.1, 2, 3, 4 and 5 were submitted to EPD)
			▪ 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 as no remediation was required.
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 as no contaminated soil was found.

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			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	C – Completed in Jan 2019
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	C – Completed in Jan 2019
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	C – Completed in Jan 2019
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	C – Completed in Jan 2019
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	C – Completed in Jan 2019
			Marine Ecological Impact – Pre-construction Phase		
13.11.4.1	10.2.2	-	▪ Pre-construction phase Coral Dive Survey.	HKIAAA artificial seawall	C – Completed in Jan 2016
			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

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
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	C – Completed in Jan 2019 for diversion of aviation fuel pipeline
			▪ 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
			▪ Use of bored piling in short duration to form the new approach lights and marker beacons for the new runway; ▪ Avoid bored piling during CWD peak calving season (Mar to Jun);		C – Completed in Oct 2021 for new approach lights N/A for marker beacons as HKIAAA Marker Beacons would be replaced by buoys
			▪ 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.		C – Completed in Jan 2019 for HDD works
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		C – Completed in Oct 2021 for new approach lights
			▪ 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.		C – Completed in Jan 2019 for HDD works
13.11.1.12	-	-	**Strict Enforcement of No-Dumping Policy**	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?^
			▪ 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.		
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 to completion of construction	I
13.11.5.4 to 13.11.5.13	10.3.1	-	**SkyPier High Speed Ferries' Speed Restrictions and Route Diversions** ▪ SkyPier HSFs operating to / from Zhuhai and Macau would divert north of SCLKC Marine Park with a 15 knot speed limit to apply for the part-journeys that cross high CWD abundance grid squares as indicatively shown in **Drawing No. MCL/P132/EIA/13-023** of the EIA Report. Both the alignment of the northerly route and the portion of routings to be subject to the speed limit of 15 knots shall be finalised prior to commencement of construction based on the future review of up-to-date CWD abundance and EM&A data and taking reference to changes in total SkyPier HSF numbers; and ▪ A maximum of 10 knots will be enforced through the designated SCLKC Marine Park area at all times.	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 C – Completed in Sep 2016
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

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			▪ 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.		C – Completed in Oct 2021 for the bored piling work of New approach lights
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
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 (as currently indicated by the 1x1km grid squares in Figure 6 of Appendix 13.2 of EIA report). ▪ 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	C – Completed in Jan 2019 for diversion of aviation fuel pipeline

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			▪ 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		C – Completed in Oct 2021 for new approach lights N/A for marker beacons as HKIAAA Marker Beacons would be replaced by buoys
			▪ 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.		C – Completed in Jan 2019 for HDD works
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 ▪ Unscheduled, on-site audits for all good site practice restrictions should be conducted, and fines or penalties sufficient to be an effective deterrent need to be levied against violators.	All works area during the construction phase	I
14.9.1.13 to 14.9.1.18	-		**Mitigation for Indirect Disturbance due to Deterioration of Water Quality** ▪ Water quality mitigation measures during construction phases include consideration of alternative construction methods, deployment of silt curtain and good site practices;	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

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; and		C – Completed in Oct 2021 for new approach lights N/A for marker beacons as HKIAAA Marker Beacons would be replaced by buoys
			▪ 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.		C – Completed on Jan 2019 for HDD work
			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. – may be disassembled in phases.	I

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
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.	I
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.	I
			Cultural Heritage Impact – Construction Phase		
			Not applicable to the construction stage of this project.		
			Health Impact – Aircraft Emissions		
			Not applicable to the construction stage of this project.		

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 Noise		
			Not applicable to the construction stage of this project.		

Notes:

" - " For items denoted as " - " provided under the columns of EM&A Ref. or EP Condition, environmental protection measures should be referred to the relevant paragraph(s) / table(s) in the approved EIA Report.

" I " Implemented and on-going 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

Jan-22

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1 WQ General mid-ebb: 12:02 mid-flood: 17:04
2	**3** Site Inspection CWD Survey (Vessel) AR1A, AR2 NM1A, NM5	**4** Site Inspection CWD Survey (Vessel) NM4, NM6 WQ General mid-ebb: 14:27 mid-flood: 09:15	**5** Site Inspection CWD Survey (Vessel)	**6** Site Inspection WQ General mid-ebb: 16:01 mid-flood: 10:45	**7** Site Inspection	**8** AR1A, AR2 WQ General mid-ebb: 17:54 mid-flood: 12:16
9	**10** Site Inspection CWD Survey (Vessel)	**11** Site Inspection CWD Survey (Vessel) WQ General & Regular DCM mid-ebb: 07:07 mid-flood: 14:19	**12** Site Inspection CWD Survey (Vessel)	**13** Site Inspection NM4, NM6 WQ General & Regular DCM mid-ebb: 09:54 mid-flood: 15:18	**14** Site Inspection AR1A, AR2 NM1A, NM5	**15** WQ General & Regular DCM mid-ebb: 11:39 mid-flood: 06:57
16	**17** Site Inspection CWD Survey (Land-based)	**18** Site Inspection NM4, NM6 WQ General & Regular DCM mid-ebb: 13:27 mid-flood: 08:31	**19** Site Inspection CWD Survey (Vessel)	**20** Site Inspection CWD Survey (Vessel) AR1A, AR2 NM1A, NM5 WQ General & Regular DCM mid-ebb: 14:37 mid-flood: 09:31	**21** Site Inspection	**22** WQ General & Regular DCM mid-ebb: 15:55 mid-flood: 10:33
23	**24** Site Inspection CWD Survey (Land-based)	**25** Site Inspection NM4, NM6 WQ General & Regular DCM mid-ebb: 05:25 mid-flood: 12:21	**26** Site Inspection AR1A, AR2 NM1A, NM5	**27** Site Inspection WQ General & Regular DCM mid-ebb: 08:03 mid-flood: 13:53	**28** Site Inspection	**29** WQ General & Regular DCM mid-ebb: 11:04 mid-flood: 15:49
30	**31** Site Inspection AR1A, AR2 NM1A, NM5 WQ General & Regular DCM mid-ebb: 12:49 mid-flood: 07:35	**Notes:** CWD - Chinese White Dolphin Air quality and Noise Monitoring Station WQ - Water Quality DCM - Deep Cement Mixing NM1A/AR1A - Man Tung Road Park 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

Feb-22

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1	2	3	4 Site Inspection NM4, NM6 WQ General & Regular DCM mid-ebb: 15:36 mid-flood: 10:06	5 AR1A, AR2
6 WQ General & Regular DCM mid-ebb: 16:59 mid-flood: 11:04	7 Site Inspection CWD Survey (Vessel)	8 Site Inspection CWD Survey (Vessel) WQ General & Regular DCM mid-ebb: 05:11 mid-flood: 11:49	9 CWD Survey (Vessel) NM4, NM6	10 Site Inspection CWD Survey (Vessel) WQ General & Regular DCM mid-ebb: 21:21 mid-flood: 08:32	11 Site Inspection CWD Survey (Land-based) AR1A, AR2 NM1A, NM5	12 WQ General & Regular DCM mid-ebb: 23:08 mid-flood: 10:48
13	14 Site Inspection CWD Survey (Vessel)	15 Site Inspection CWD Survey (Vessel) WQ General & Regular DCM mid-ebb: 12:41 mid-flood: 07:36	16 CWD Survey (Vessel, Land-based) NM4, NM6	17 Site Inspection CWD Survey (Vessel) AR1A, AR2 NM1A, NM5 WQ General & Regular DCM mid-ebb: 13:45 mid-flood: 08:26	18 Site Inspection	19 WQ General & Regular DCM mid-ebb: 14:49 mid-flood: 09:13
20	21 Site Inspection	22 Site Inspection NM4, NM6 WQ General & Regular DCM mid-ebb: 16:50 mid-flood: 10:33	23 AR1A, AR2 NM1A, NM5	24 Site Inspection WQ General & Regular DCM mid-ebb: 06:11 mid-flood: 11:47	25 Site Inspection	26 WQ General & Regular DCM mid-ebb: 21:55 mid-flood: 09:14
27	28 Site Inspection					

Notes:

Contract Number - Site Inspection

CWD - Chinese White Dolphin

Air quality and Noise Monitoring Station

WQ - Water Quality

DCM - Deep Cement Mixing

NM1A/AR1A - Man Tung Road Park

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

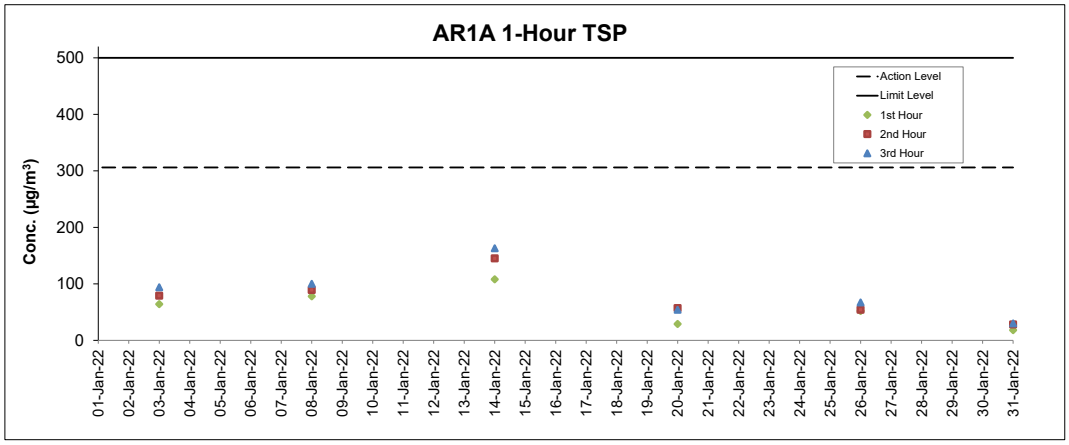
Air Quality Monitoring Results

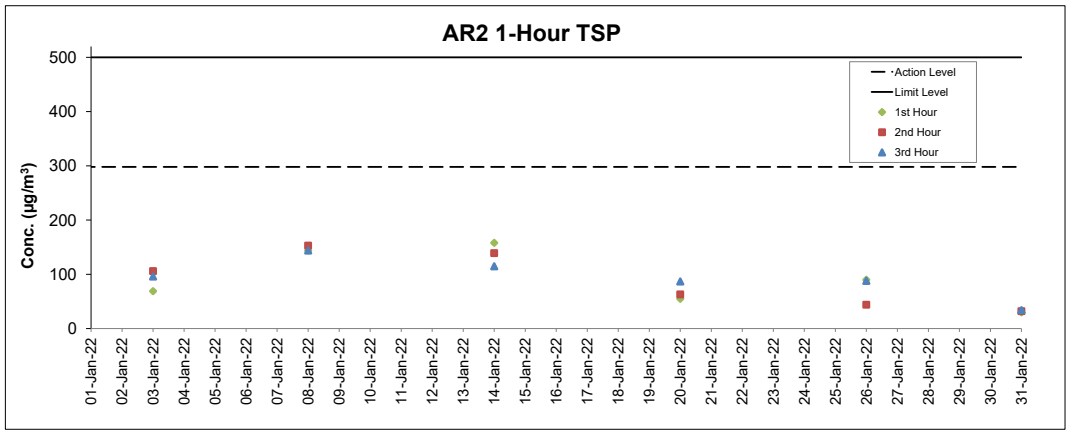
1-hour TSP Results
Station: AR1A- Man Tung Road Park

Date	Time	Weather	Wind Speed (m/s)	Wind Direction (deg)	1-hr TSP (μg/m^3)	Action Level (μg/m^3)	Limit Level (μg/m^3)
03-Jan-22	12:55	Sunny	4.2	248	64	306	500
03-Jan-22	13:55	Sunny	3.9	259	79	306	500
03-Jan-22	14:55	Sunny	3.3	272	94	306	500
08-Jan-22	7:59	Fine	3.3	50	78	306	500
08-Jan-22	8:59	Fine	1.9	69	89	306	500
08-Jan-22	9:59	Fine	1.7	15	100	306	500
14-Jan-22	8:27	Overcast	8.3	86	108	306	500
14-Jan-22	9:27	Overcast	9.2	90	145	306	500
14-Jan-22	10:27	Overcast	7.8	90	163	306	500
20-Jan-22	7:39	Overcast	4.2	83	29	306	500
20-Jan-22	8:39	Overcast	5.3	90	57	306	500
20-Jan-22	9:39	Overcast	4.2	107	54	306	500
26-Jan-22	9:18	Overcast	6.1	97	52	306	500
26-Jan-22	10:18	Overcast	6.4	104	54	306	500
26-Jan-22	11:18	Overcast	6.1	84	67	306	500
31-Jan-22	7:32	Fine	4.7	4	18	306	500
31-Jan-22	8:32	Fine	6.1	50	28	306	500
31-Jan-22	9:32	Fine	6.7	44	30	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 (μg/m^3)	Action Level (μg/m^3)	Limit Level (μg/m^3)
03-Jan-22	8:37	Sunny	4.7	87	69	298	500
03-Jan-22	9:37	Sunny	4.2	91	106	298	500
03-Jan-22	10:37	Sunny	4.2	83	96	298	500
08-Jan-22	12:14	Fine	3.6	323	144	298	500
08-Jan-22	13:14	Fine	3.3	259	153	298	500
08-Jan-22	14:14	Fine	3.1	254	144	298	500
14-Jan-22	12:46	Overcast	7.8	93	158	298	500
14-Jan-22	13:46	Overcast	7.2	98	139	298	500
14-Jan-22	14:46	Overcast	8.9	91	115	298	500
20-Jan-22	12:13	Sunny	4.2	341	55	298	500
20-Jan-22	13:13	Sunny	3.9	333	63	298	500
20-Jan-22	14:13	Sunny	3.6	267	87	298	500
26-Jan-22	13:35	Sunny	5.0	83	90	298	500
26-Jan-22	14:35	Sunny	4.2	87	44	298	500
26-Jan-22	15:35	Sunny	3.3	25	88	298	500
31-Jan-22	12:16	Fine	3.3	47	30	298	500
31-Jan-22	13:16	Fine	3.9	42	32	298	500
31-Jan-22	14:16	Fine	4.4	1	34	298	500





Notes
1. Major site activities carried out during the reporting period are summarized in Section 1.4 of the monthly EM&A report.
2. Weather conditions during monitoring are presented in the data tables above.
3. QA/QC requirements as stipulated in the EM&A Manual were carried out during measurement.

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) ^
03-Jan-22	Sunny	14:20	56.0	48.5	58
03-Jan-22	Sunny	14:25	60.4	49.2	
03-Jan-22	Sunny	14:30	54.3	49.0	
03-Jan-22	Sunny	14:35	58.4	50.4	
03-Jan-22	Sunny	14:40	55.0	48.3	
03-Jan-22	Sunny	14:45	55.8	48.3	
14-Jan-22	Overcast	08:30	62.8	52.7	59
14-Jan-22	Overcast	08:35	57.2	50.8	
14-Jan-22	Overcast	08:40	58.4	51.4	
14-Jan-22	Overcast	08:45	56.3	51.0	
14-Jan-22	Overcast	08:50	56.8	51.1	
14-Jan-22	Overcast	08:55	61.7	53.3	
20-Jan-22	Overcast	07:43	55.4	52.1	59
20-Jan-22	Overcast	07:48	63.0	53.3	
20-Jan-22	Overcast	07:53	57.7	52.2	
20-Jan-22	Overcast	07:58	56.0	52.1	
20-Jan-22	Overcast	08:03	56.7	50.7	
20-Jan-22	Overcast	08:08	57.0	52.3	
26-Jan-22	Overcast	11:21	58.1	52.5	58
26-Jan-22	Overcast	11:26	59.7	51.0	
26-Jan-22	Overcast	11:31	59.3	48.5	
26-Jan-22	Overcast	11:36	55.9	48.8	
26-Jan-22	Overcast	11:41	56.4	50.3	
26-Jan-22	Overcast	11:46	56.0	49.3	
31-Jan-22	Fine	07:37	55.7	50.6	58
31-Jan-22	Fine	07:42	57.6	51.1	
31-Jan-22	Fine	07:47	57.1	52.2	
31-Jan-22	Fine	07:52	56.6	52.1	
31-Jan-22	Fine	07:57	57.0	53.6	
31-Jan-22	Fine	08:02	59.4	53.4	

Remarks:
(^) +3dB (A) correction in Leq(30mins) dB(A) was applied to free-field measurement.

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) ^
04-Jan-22	Sunny	14:08	59.1	54.3	62
04-Jan-22	Sunny	14:13	61.0	55.6	
04-Jan-22	Sunny	14:18	61.3	56.2	
04-Jan-22	Sunny	14:23	63.4	57.8	
04-Jan-22	Sunny	14:28	59.7	54.9	
04-Jan-22	Sunny	14:33	61.4	56.0	
13-Jan-22	Fine	08:43	60.5	57.3	62
13-Jan-22	Fine	08:48	61.5	57.0	
13-Jan-22	Fine	08:53	59.2	55.4	
13-Jan-22	Fine	08:58	61.7	55.2	
13-Jan-22	Fine	09:03	62.0	58.2	
13-Jan-22	Fine	09:08	62.0	57.9	
18-Jan-22	Fine	14:33	60.2	54.5	61
18-Jan-22	Fine	14:38	59.6	55.4	
18-Jan-22	Fine	14:43	61.2	55.5	
18-Jan-22	Fine	14:48	59.1	54.7	
18-Jan-22	Fine	14:53	60.8	55.7	
18-Jan-22	Fine	14:58	60.5	53.6	
25-Jan-22	Fine	13:18	59.9	55.7	61
25-Jan-22	Fine	13:23	58.3	55.0	
25-Jan-22	Fine	13:28	59.5	54.8	
25-Jan-22	Fine	13:33	59.4	55.2	
25-Jan-22	Fine	13:38	61.4	54.8	
25-Jan-22	Fine	13:43	61.1	56.8	

Remarks:
(^) +3dB (A) correction in Leq(30mins) dB(A) 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) ^
03-Jan-22	Sunny	09:20	51.6	46.1	57
03-Jan-22	Sunny	09:25	51.5	45.7	
03-Jan-22	Sunny	09:30	51.4	46.7	
03-Jan-22	Sunny	09:35	50.3	46.1	
03-Jan-22	Sunny	09:40	57.3	46.4	
03-Jan-22	Sunny	09:45	51.0	48.1	
14-Jan-22	Overcast	12:45	56.0	48.9	61*
14-Jan-22	Overcast	12:50	54.8	47.5	
14-Jan-22	Overcast	12:55	56.3	48.2	
14-Jan-22	Overcast	13:00	54.2	48.4	
14-Jan-22	Overcast	13:05	56.0	49.6	
14-Jan-22	Overcast	13:10	72.3	49.6	
20-Jan-22	Sunny	12:15	49.1	45.6	53
20-Jan-22	Sunny	12:20	54.6	46.3	
20-Jan-22	Sunny	12:25	50.6	44.0	
20-Jan-22	Sunny	12:30	52.5	44.6	
20-Jan-22	Sunny	12:35	46.8	44.0	
20-Jan-22	Sunny	12:40	47.3	44.1	
26-Jan-22	Overcast	14:09	52.8	49.2	66*
26-Jan-22	Overcast	14:14	55.1	50.3	
26-Jan-22	Overcast	14:19	64.7	53.9	
26-Jan-22	Overcast	14:24	73.2	55.1	
26-Jan-22	Overcast	14:29	71.9	49.7	
26-Jan-22	Overcast	14:34	56.2	49.4	
31-Jan-22	Fine	12:17	56.9	47.1	55
31-Jan-22	Fine	12:22	53.2	46.6	
31-Jan-22	Fine	12:27	53.8	46.5	
31-Jan-22	Fine	12:32	50.1	47.5	
31-Jan-22	Fine	12:37	52.1	46.2	
31-Jan-22	Fine	12:42	57.0	44.6	

Remarks:

(^) +3dB (A) correction in Leq(30mins) dB(A) was applied to free-field measurement.

(*) The measurement result was corrected with reference to the baseline monitoring levels.

Noise Measurement Results

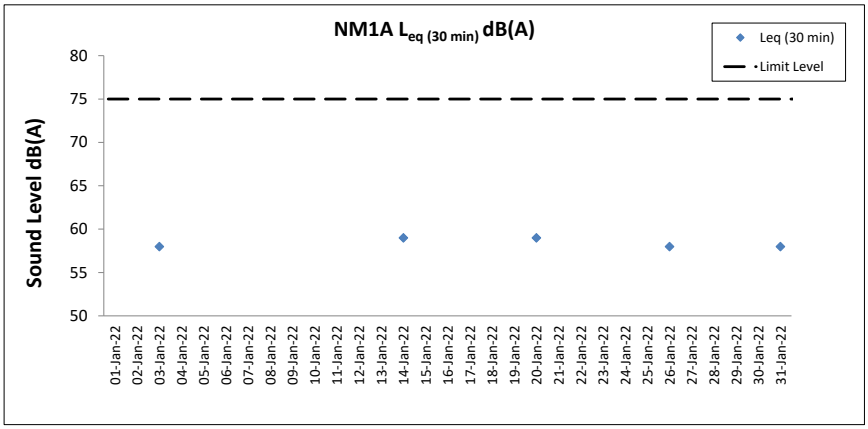
Station: NM6- House No.1 Sha Lo Wan

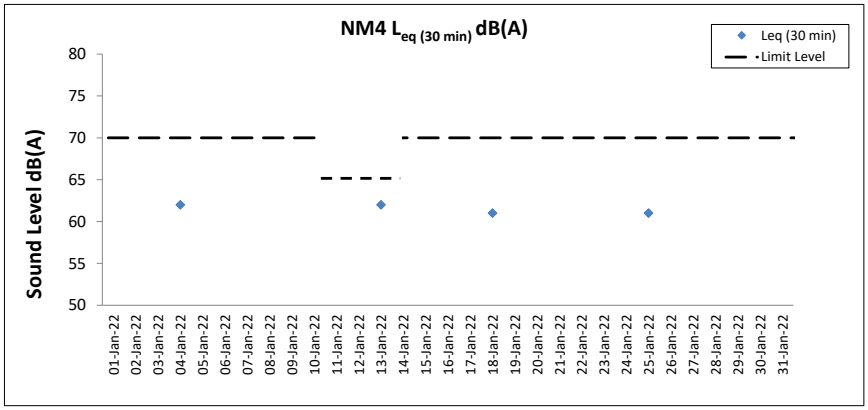
Date	Weather	Time	Measured L_{10} dB(A)	Measured L_{90} dB(A)	$L_{eq(30mins)}$ dB(A) ^
04-Jan-22	Sunny	15:39	63.3	48.3	63
04-Jan-22	Sunny	15:44	57.2	45.8	
04-Jan-22	Sunny	15:49	56.2	47.3	
04-Jan-22	Sunny	15:54	66.6	47.5	
04-Jan-22	Sunny	15:59	62.7	46.2	
04-Jan-22	Sunny	16:04	62.9	45.5	
13-Jan-22	Fine	15:42	64.8	57.9	66*
13-Jan-22	Fine	15:47	74.4	60.7	
13-Jan-22	Fine	15:52	69.1	61.0	
13-Jan-22	Fine	15:57	72.5	60.0	
13-Jan-22	Fine	16:02	66.3	59.7	
13-Jan-22	Fine	16:07	69.8	61.0	
18-Jan-22	Fine	15:47	69.5	55.6	68
18-Jan-22	Fine	15:52	68.6	54.6	
18-Jan-22	Fine	15:57	65.5	49.3	
18-Jan-22	Fine	16:02	63.4	45.6	
18-Jan-22	Fine	16:07	56.8	45.5	
18-Jan-22	Fine	16:12	68.3	49.2	
25-Jan-22	Fine	15:41	62.2	47.8	64
25-Jan-22	Fine	15:46	49.6	43.6	
25-Jan-22	Fine	15:51	58.8	45.0	
25-Jan-22	Fine	15:56	72.2	50.0	
25-Jan-22	Fine	16:01	59.1	50.4	
25-Jan-22	Fine	16:06	53.9	48.4	

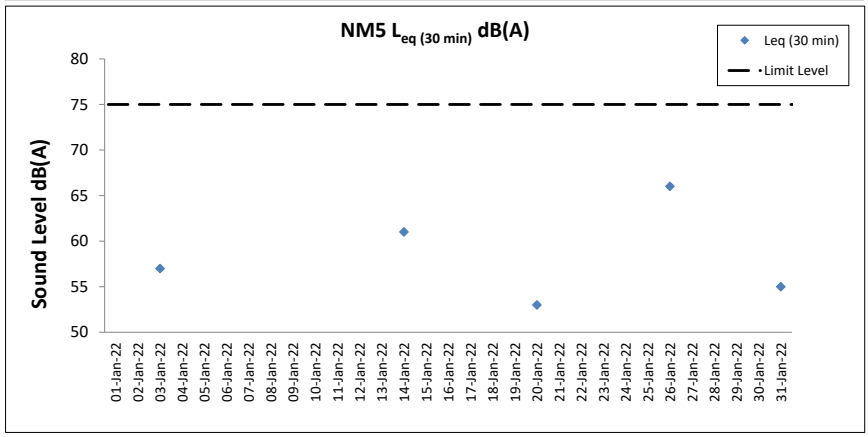
Remarks:

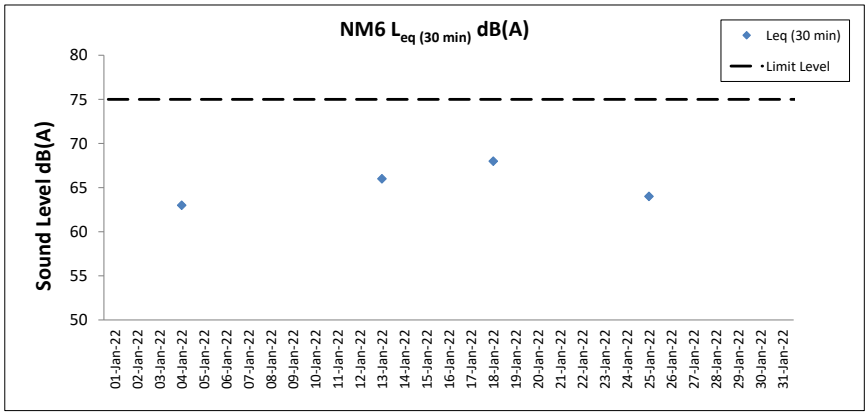
(^) +3dB (A) correction in Leq(30mins) dB(A) was applied to free-field measurement.

(*) The measurement result was corrected with reference to the baseline monitoring levels.









Notes

1. Major site activities carried out during the reporting period are summarized in Section 1.4 of the monthly EM&A report.
2. Weather conditions during monitoring are presented in the data tables above.
3. QA/QC requirements as stipulated in the EM&A Manual were carried out during measurement.

Water Quality Monitoring Results

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 01 January 22 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)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA		
C1	Fine	Calm	11:41	7.8	Surface	1.0	0.4	167	18.5	18.5	8.2	8.2	32.5	32.5	90.6	90.6	7.0	7.0	9.2	9.9	6	6	815609	804229
						1.0	0.4	179	18.5		8.2		32.5		90.6		7.0		9.2		5			
					Middle	3.9	0.4	155	18.5	18.3	8.2	8.2	32.4	32.4	90.6	90.6	7.0		9.8		5			
						3.9	0.4	162	18.1		8.2		32.4		90.6		7.0		9.8		6			
					Bottom	6.8	0.3	144	18.6	18.4	8.2	8.2	32.4	32.4	90.8	90.8	7.0	7.0	10.8		7			
						6.8	0.3	145	18.1		8.2		32.4		90.8		7.0		10.8		6			
C2	Fine	Calm	12:35	12.8	Surface	1.0	0.5	172	18.5	18.5	8.1	8.1	32.4	32.4	94.0	94.2	7.3	7.4	1.5	2.5	11	10	825675	806922
						1.0	0.5	182	18.5		8.1		32.4		94.4		7.3		1.5		11			
					Middle	6.4	0.4	161	18.5	18.5	8.1	8.1	32.4	32.4	95.6	95.7	7.4		2.3		10			
						6.4	0.4	172	18.5		8.1		32.4		95.8		7.4		2.3		11			
					Bottom	11.8	0.3	149	18.5	18.5	8.1	8.1	32.4	32.4	96.6	96.9	7.5	7.5	3.9		10			
						11.8	0.4	161	18.5		8.1		32.4		97.1		7.5		3.7		9			
C3	Fine	Calm	10:47	12.0	Surface	1.0	0.3	103	19.0	19.0	8.1	8.1	33.2	33.2	89.5	89.5	6.8	6.9	6.9	7.4	9	10	822095	817803
						1.0	0.3	105	19.0		8.1		33.2		89.5		6.8		6.9		10			
					Middle	6.0	0.3	114	19.0	19.0	8.1	8.1	33.2	33.2	90.2	90.2	6.9		7.4		9			
						6.0	0.3	119	19.0		8.1		33.2		90.2		6.9		7.4		10			
					Bottom	11.0	0.3	113	19.0	19.0	8.1	8.1	33.2	33.2	91.2	91.4	7.0	7.0	8.0		12			
						11.0	0.3	120	19.0		8.1		33.2		91.5		7.0		8.1		12			
IM1	Fine	Calm	12:00	4.6	Surface	1.0	0.2	156	18.5	18.5	8.2	8.2	32.4	32.4	90.8	90.8	7.0	7.0	7.4	7.9	10	9	817945	807111
						1.0	0.2	167	18.5		8.2		32.4		90.8		7.0		7.5		9			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.6	0.2	144	18.5	18.5	8.1	8.1	32.5	32.5	90.7	90.7	7.0	7.0	8.4		9			
						3.6	0.2	149	18.5		8.1		32.5		90.7		7.0		8.4		8			
IM2	Fine	Calm	12:07	6.2	Surface	1.0	0.3	157	18.5	18.5	8.2	8.2	32.4	32.4	90.6	90.6	7.0	7.0	3.9	5.2	7	8	818183	806175
						1.0	0.3	163	18.5		8.2		32.4		90.6		7.0		3.9		7			
					Middle	3.1	0.2	161	18.5	18.5	8.2	8.1	32.4	32.4	90.6	90.6	7.0		5.2		9			
						3.1	0.2	174	18.5		8.1		32.4		90.6		7.0		5.2		8			
					Bottom	5.2	0.2	168	18.5	18.5	8.1	8.1	32.4	32.4	90.7	90.7	7.0	7.0	6.6		9			
						5.2	0.2	171	18.5		8.2		32.4		90.7		7.0		6.6		8			
IM3	Fine	Calm	12:13	6.4	Surface	1.0	0.3	183	18.1	18.1	8.1	8.1	32.4	32.4	90.6	90.6	7.0	7.0	9.2	10.0	9	9	818762	805601
						1.0	0.3	199	18.1		8.2		32.4		90.6		7.0		9.2		10			
					Middle	3.2	0.2	188	18.1	18.3	8.2	8.2	32.4	32.4	90.7	90.7	7.0		9.9		9			
						3.2	0.2	203	18.5		8.2		32.4		90.7		7.0		9.9		9			
					Bottom	5.4	0.2	190	18.5	18.5	8.2	8.2	32.4	32.4	90.7	90.7	7.0	7.0	10.9		8			
						5.4	0.2	196	18.5		8.2		32.4		90.7		7.0		10.8		9			
IM4	Fine	Calm	12:23	8.0	Surface	1.0	0.3	201	18.6	18.6	8.2	8.2	32.4	32.4	90.5	90.5	7.0	7.0	9.1	10.2	7	8	819705	804625
						1.0	0.3	203	18.6		8.2		32.4		90.5		7.0		9.1		7			
					Middle	4.0	0.2	222	18.6	18.6	8.2	8.1	32.4	32.3	90.5	90.5	7.0		10.6		8			
						4.0	0.2	223	18.6		8.1		32.3		90.5		7.0		10.6		9			
					Bottom	7.0	0.2	201	18.6	18.4	8.1	8.1	32.3	32.3	90.6	90.6	7.0	7.0	10.8		9			
						7.0	0.2	212	18.1		8.1		32.3		90.6		7.0		10.8		8			
IM5	Fine	Calm	12:32	7.6	Surface	1.0	0.3	200	18.6	18.5	8.2	8.2	32.3	32.3	90.5	90.5	7.0	7.0	8.0	9.0	8	8	820716	804845
						1.0	0.3	216	18.4		8.2		32.3		90.5		7.0		8.0		7			
					Middle	3.8	0.3	197	18.4	18.5	8.1	8.1	32.4	32.4	90.5	90.5	7.0		9.1		8			
						3.8	0.3	200	18.6		8.1		32.4		90.5		7.0		9.1		9			
					Bottom	6.6	0.2	188	18.6	18.6	8.1	8.1	32.4	32.4	90.5	90.5	7.0	7.0	9.8		9			
						6.6	0.2	202	18.6		8.2		32.4		90.5		7.0		9.8		8			
IM6	Fine	Calm	12:40	6.8	Surface	1.0	0.4	205	18.4	18.4	8.1	8.1	32.4	32.4	90.3	90.3	7.0	7.0	9.2	10.0	9	9	821052	805808
						1.0	0.4	207	18.4		8.2		32.4		90.3		7.0		9.1		10			
					Middle	3.4	0.4	210	18.4	18.5	8.2	8.2	32.3	32.3	90.3	90.4	7.0		10.2		9			
						3.4	0.4	217	18.6		8.2		32.3		90.4		7.0		10.2		10			
					Bottom	5.8	0.3	209	18.6	18.6	8.2	8.2	32.3	32.3	90.4	90.4	7.0	7.0	10.9		7			
						5.8	0.3	221	18.6		8.2		32.3		90.4		7.0		10.8		8			
IM7	Fine	Calm	12:48	8.0	Surface	1.0	0.4	221	18.6	18.6	8.2	8.2	32.4	32.4	90.4	90.4	7.0	7.0	6.7	8.2	9	7	821329	806843
						1.0	0.4	241	18.6		8.2		32.4		90.4		7.0		6.8		8			
					Middle	4.0	0.4	218	18.6	18.6	8.2	8.2	32.4	32.4	90.4	90.4	7.0		8.4		8			
						4.0	0.4	229	18.6		8.2		32.4		90.4		7.0		8.6		7			
					Bottom	7.0	0.3	213	18.6	18.5	8.1	8.1	32.4	32.4	90.4	90.4	7.0	7.0	9.3		6			
						7.0	0.3	219	18.4		8.1		32.4		90.4		7.0		9.3		6			
IM8	Fine	Calm	12:12	8.0	Surface	1.0	0.2	49	18.5	18.5	8.2	8.2	32.7	32.7	92.2	92.3	7.1	7.2	3.0	4.4	10	10	821834	808125
						1.0	0.2	50	18.5		8.2		32.7		92.3		7.1		3.1		9			
					Middle	4.0	0.2	59	18.5	18.5	8.2	8.2	32.8	32.8	93.6	93.7	7.2		4.5		9			
						4.0	0.2	64	18.5		8.2		32.8		93.8		7.2		4.4		9			
					Bottom	7.0	0.3	74	18.4	18.5	8.2	8.2	32.8	32.8	94.8	95.0	7.3	7.4	5.7		10			
						7.0	0.3	80	18.5		8.2		32.8		95.2		7.4		5.6		11			

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

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 01 January 22 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)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA		
IM9	Fine	Calm	12:06	7.4	Surface	1.0	0.3	57	18.3	18.3	8.2	8.2	32.9	32.9	94.4	94.6	7.3	7.4	5.0	6.4	14	12	822085	808826
						1.0	0.3	60	18.3		8.2		33.0		94.7		7.3		5.1		15			
					Middle	3.7	0.4	65	18.0	18.0	8.2	8.2	33.2	33.2	95.7	95.8	7.4		6.7		12			
						3.7	0.4	68	17.9		8.2		33.3		95.9		7.5		6.9		13			
					Bottom	6.4	0.3	65	17.6	17.6	8.2	8.2	33.5	33.6	97.4	97.6	7.6	7.6	7.3		10			
						6.4	0.3	67	17.5		8.2		33.6		97.8		7.6		7.4		9			
IM10	Fine	Calm	12:00	8.2	Surface	1.0	0.5	74	18.5	18.5	8.2	8.2	33.0	33.0	92.1	92.2	7.1	7.2	7.2	8.2	11	11	822400	809787
						1.0	0.5	74	18.5		8.2		33.0		92.3		7.1		7.1		10			
					Middle	4.1	0.5	77	18.5	18.5	8.2	8.2	33.0	33.0	93.4	93.6	7.2		8.5		12			
						4.1	0.5	83	18.5		8.2		33.0		93.7		7.2		8.5		11			
					Bottom	7.2	0.4	91	18.5	18.5	8.2	8.2	33.0	33.0	95.4	95.6	7.3	7.4	9.0		11			
						7.2	0.4	95	18.5		8.2		33.0		95.8		7.4		9.1		12			
IM11	Fine	Calm	11:51	7.2	Surface	1.0	0.1	127	18.6	18.6	8.2	8.2	33.1	33.1	92.3	92.4	7.1	7.2	5.2	6.6	10	10	822055	811448
						1.0	0.1	136	18.6		8.2		33.1		92.4		7.1		5.2		9			
					Middle	3.6	0.2	127	18.5	18.5	8.2	8.2	33.0	33.0	94.1	94.2	7.2		6.9		10			
						3.6	0.2	137	18.5		8.2		33.0		94.2		7.3		6.8		11			
					Bottom	6.2	0.1	105	18.5	18.5	8.2	8.2	33.0	33.0	95.6	95.8	7.4	7.4	7.7		11			
						6.2	0.1	114	18.5		8.2		33.0		95.9		7.4		7.7		10			
IM12	Fine	Calm	11:45	9.4	Surface	1.0	0.1	133	18.6	18.6	8.2	8.2	33.1	33.1	91.7	91.8	7.0	7.1	7.0	8.1	11	11	821452	812067
						1.0	0.1	139	18.6		8.2		33.1		91.8		7.1		7.1		10			
					Middle	4.7	0.2	120	18.6	18.6	8.2	8.2	33.1	33.1	92.9	93.0	7.1		8.1		10			
						4.7	0.2	129	18.6		8.2		33.1		93.1		7.2		8.2		11			
					Bottom	8.4	0.2	111	18.6	18.6	8.2	8.2	33.1	33.1	95.8	95.9	7.4	7.4	9.0		12			
						8.4	0.2	116	18.6		8.2		33.1		96.0		7.4		9.1		12			
SR1A	Fine	Calm	11:22	5.0	Surface	1.0	-	-	18.6	18.6	8.2	8.2	33.0	33.0	91.5	91.7	7.0	7.1	1.1	2.0	8	9	819975	812654
						1.0	-	-	18.6		8.2		33.0		91.9		7.1		1.1		7			
					Middle	2.5	-	-	-	-	-	-	-	-	-	-	-		-		-			
						2.5	-	-	-		-		-		-		-		-		-			
					Bottom	4.0	-	-	18.6	18.6	8.2	8.2	33.0	33.0	93.6	93.8	7.2	7.2	2.9		10			
						4.0	-	-	18.6		8.2		33.0		93.9		7.2		2.9		9			
SR2	Fine	Calm	11:10	4.6	Surface	1.0	0.2	29	18.6	18.6	8.2	8.2	33.1	33.1	96.5	96.5	7.4	7.4	7.9	8.4	5	5	821445	814168
						1.0	0.2	30	18.6		8.2		33.1		96.5		7.4		7.9		5			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.6	0.2	18	18.6	18.6	8.2	8.2	33.1	33.1	99.0	99.2	7.6	7.6	9.0		5			
						3.6	0.2	19	18.6		8.2		33.1		99.3		7.6		8.9		6			
SR3	Fine	Calm	12:17	9.2	Surface	1.0	0.4	73	18.6	18.6	8.2	8.2	32.4	32.4	91.3	91.3	7.0	7.1	3.9	5.7	6	6	822153	807584
						1.0	0.4	75	18.6		8.2		32.4		91.3		7.1		4.0		7			
					Middle	4.6	0.4	77	18.5	18.5	8.2	8.1	32.5	32.5	92.8	92.9	7.2		5.9		6			
						4.6	0.4	77	18.5		8.1		32.5		93.0		7.2		6.0		5			
					Bottom	8.2	0.3	64	18.5	18.5	8.1	8.1	32.5	32.5	94.7	94.9	7.3	7.3	7.2		5			
						8.2	0.3	68	18.5		8.1		32.5		95.0		7.3		7.2		5			
SR4A	Fine	Calm	11:21	8.8	Surface	1.0	0.4	76	18.1	18.4	8.2	8.2	32.4	32.4	90.9	90.9	7.0	7.0	5.1	5.9	8	7	817165	807795
						1.0	0.4	76	18.6		8.2		32.4		90.9		7.0		5.1		7			
					Middle	4.4	0.4	79	18.6	18.6	8.2	8.2	32.4	32.4	91.0	91.1	7.0		5.9		8			
						4.4	0.4	83	18.6		8.2		32.4		91.1		7.0		5.9		7			
					Bottom	7.8	0.4	101	18.6	18.6	8.2	8.2	32.4	32.3	91.2	91.3	7.0	7.0	6.8		7			
						7.8	0.4	106	18.6		8.2		32.3		91.3		7.0		6.9		6			
SR5A	Fine	Calm	11:05	5.0	Surface	1.0	0.3	111	18.6	18.4	8.2	8.2	32.3	32.3	91.8	91.9	7.1	7.1	4.9	5.6	7	7	816597	810691
						1.0	0.3	119	18.2		8.2		32.3		91.9		7.1		5.0		6			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	4.0	0.2	137	18.2	18.4	8.2	8.1	32.3	32.3	92.3	92.4	7.1	7.1	6.3		8			
						4.0	0.2	138	18.6		8.1		32.3		92.4		7.1		6.3		7			
SR6A	Fine	Calm	10:18	4.7	Surface	1.0	0.3	146	18.6	18.4	8.2	8.1	32.3	32.3	93.0	93.1	7.2	7.2	7.0	7.5	8	7	817971	814738
						1.0	0.3	155	18.1		8.1		32.3		93.1		7.2		7.2		7			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.7	0.2	149	18.1	18.1	8.1	8.1	32.4	32.4	93.5	93.7	7.2	7.3	7.9		6			
						3.7	0.2	155	18.1		8.2		32.5		93.8		7.3		7.9		7			
SR7	Fine	Calm	10:22	16.0	Surface	1.0	0.5	99	19.2	19.2	8.0	8.0	33.2	33.2	86.8	86.9	6.6	6.6	2.1	3.0	7	7	823626	823743
						1.0	0.6	108	19.2		8.0		33.2		86.9		6.6		2.1		7			
					Middle	8.0	0.4	99	19.2	19.2	8.0	8.0	33.2	33.2	87.4	87.5	6.6		3.1		7			
						8.0	0.4	104	19.2		8.0		33.2		87.5		6.6		3.1		6			
					Bottom	15.0	0.3	86	19.2	19.2	7.9	7.9	33.2	33.2	88.3	88.5	6.7	6.7	3.9		6			
						15.0	0.3	90	19.2		7.9		33.2		88.6		6.7		3.9		7			
SR8	Fine	Calm	11:32	5.0	Surface	1.0	-	-	18.6	18.6	8.2	8.2	33.0	33.0	88.4	88.4	6.8	6.8	5.3	6.5	8	7	820401	811639
						1.0	-	-	18.6		8.2		33.0		88.4		6.8		5.2		9			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	4.0	-	-	18.6	18.6	8.2	8.2	33.0	33.0	88.8	88.9	6.8	6.8	7.7		6			
						4.0	-	-	18.6		8.2		33.0		88.9		6.8		7.8		5			

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

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 01 January 22 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)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA		
C1	Misty	Moderate	16:20	7.8	Surface	1.0	0.4	31	18.5	18.5	8.2	8.2	32.4	32.4	90.6	90.7	7.0	7.0	7.8	9.1	6	7	815631	804267
						1.0	0.4	33	18.5		8.2		32.4		90.7		7.0		7.8		6			
					Middle	3.9	0.4	27	18.6	18.6	8.2	8.2	32.4	32.4	90.7	90.7	7.0		9.3		7			
						3.9	0.4	27	18.6		8.2		32.4		90.7		7.0		9.3		8			
					Bottom	6.8	0.5	18	18.6	18.6	8.2	8.2	32.4	32.4	90.8	90.8	7.0	7.0	10.1		7			
						6.8	0.5	18	18.6		8.2		32.4		90.8		7.0		10.1		8			
C2	Fine	Calm	15:21	12.0	Surface	1.0	0.2	5	18.5	18.5	8.2	8.2	32.5	32.5	93.0	93.1	7.2	7.2	4.2	5.8	7	7	825695	806932
						1.0	0.2	5	18.5		8.2		32.6		93.1		7.2		4.3		6			
					Middle	6.0	0.3	14	18.5	18.5	8.2	8.2	33.0	33.0	93.8	93.8	7.2		6.2		6			
						6.0	0.3	14	18.5		8.2		33.0		93.8		7.2		6.4		7			
					Bottom	11.0	0.4	32	18.4	18.4	8.3	8.3	33.1	33.1	94.3	94.4	7.3	7.3	7.0		6			
						11.0	0.4	34	18.4		8.3		33.1		94.4		7.3		7.1		7			
C3	Fine	Calm	16:57	11.2	Surface	1.0	0.3	299	19.1	19.1	8.2	8.2	33.2	33.2	93.1	93.2	7.1	7.2	1.5	2.4	6	6	822111	817791
						1.0	0.4	320	19.1		8.2		33.2		93.3		7.1		1.5		5			
					Middle	5.6	0.4	300	19.1	19.1	8.2	8.2	33.2	33.2	95.3	95.5	7.3		2.2		6			
						5.6	0.4	317	19.1		8.2		33.2		95.6		7.3		2.2		5			
					Bottom	10.2	0.4	294	19.1	19.1	8.2	8.2	33.1	33.1	96.3	96.6	7.3	7.4	3.7		6			
						10.2	0.4	302	19.1		8.2		33.1		96.8		7.4		3.7		5			
IM1	Misty	Moderate	16:00	4.6	Surface	1.0	0.1	37	18.1	18.1	8.2	8.2	32.4	32.4	90.8	90.8	7.0	7.0	5.9	6.7	7	8	817956	807134
						1.0	0.1	37	18.1		8.2		32.4		90.8		7.0		6.0		8			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.6	0.1	58	18.5	18.5	8.2	8.2	32.5	32.5	90.7	90.7	7.0	7.0	7.6		8			
						3.6	0.1	59	18.5		8.2		32.5		90.6		7.0		7.5		7			
IM2	Misty	Moderate	15:54	6.6	Surface	1.0	0.2	45	18.5	18.5	8.2	8.2	32.6	32.6	90.5	90.5	7.0	7.0	8.8	9.8	8	7	818150	806178
						1.0	0.2	45	18.4		8.2		32.6		90.5		7.0		8.8		8			
					Middle	3.3	0.2	33	18.5	18.5	8.1	8.1	32.5	32.5	90.5	90.6	7.0		9.9		7			
						3.3	0.2	33	18.5		8.1		32.5		90.6		7.0		9.9		6			
					Bottom	5.6	0.2	40	18.5	18.5	8.1	8.2	32.5	32.5	90.7	90.7	7.0	7.0	10.8		5			
						5.6	0.2	43	18.5		8.2		32.5		90.7		7.0		10.8		6			
IM3	Misty	Moderate	15:48	6.8	Surface	1.0	0.2	47	18.5	18.5	8.2	8.2	32.4	32.4	90.7	90.7	7.0	7.0	5.8	7.1	8	8	818782	805614
						1.0	0.2	51	18.5		8.2		32.4		90.6		7.0		5.8		9			
					Middle	3.4	0.2	39	18.5	18.5	8.2	8.2	32.4	32.4	90.7	90.7	7.0		7.2		8			
						3.4	0.2	41	18.5		8.2		32.4		90.7		7.0		7.2		9			
					Bottom	5.8	0.2	40	18.6	18.6	8.2	8.2	32.4	32.4	90.7	90.8	7.0	7.0	8.3		8			
						5.8	0.2	42	18.6		8.2		32.4		90.8		7.0		8.3		7			
IM4	Misty	Moderate	15:39	8.4	Surface	1.0	0.3	45	18.5	18.5	8.2	8.2	32.5	32.5	90.8	90.8	7.0	7.0	8.8	9.9	8	8	819737	804587
						1.0	0.3	49	18.5		8.1		32.5		90.8		7.0		8.8		9			
					Middle	4.2	0.3	49	18.5	18.5	8.2	8.2	32.5	32.4	90.8	90.9	7.0		10.2		8			
						4.2	0.3	53	18.5		8.1		32.4		90.9		7.0		10.2		9			
					Bottom	7.4	0.3	47	18.5	18.5	8.2	8.2	32.4	32.4	91.0	91.1	7.0	7.0	10.8		7			
						7.4	0.3	50	18.5		8.2		32.4		91.1		7.0		10.8		7			
IM5	Misty	Moderate	15:32	8.0	Surface	1.0	0.3	52	18.1	18.1	8.2	8.2	32.4	32.4	91.3	91.3	7.1	7.1	8.8	10.0	11	9	820724	804865
						1.0	0.3	52	18.1		8.2		32.4		91.3		7.1		8.8		10			
					Middle	4.0	0.3	56	18.1	18.1	8.2	8.2	32.4	32.4	91.4	91.4	7.1		10.2		8			
						4.0	0.3	59	18.1		8.2		32.5		91.4		7.1		10.2		9			
					Bottom	7.0	0.3	60	18.1	18.1	8.1	8.2	32.5	32.5	91.4	91.4	7.1	7.1	10.8		8			
						7.0	0.3	64	18.1		8.2		32.5		91.4		7.1		10.8		9			
IM6	Misty	Moderate	15:25	7.0	Surface	1.0	0.4	38	18.5	18.5	8.2	8.2	32.5	32.5	91.7	91.7	7.1	7.1	4.2	5.2	10	9	821039	805820
						1.0	0.4	40	18.5		8.2		32.5		91.7		7.1		4.2		11			
					Middle	3.5	0.3	41	18.5	18.5	8.2	8.2	32.5	32.4	92.0	92.1	7.1		5.1		9			
						3.5	0.3	44	18.5		8.2		32.4		92.1		7.1		5.2		8			
					Bottom	6.0	0.3	48	18.5	18.5	8.2	8.2	32.4	32.4	92.3	92.4	7.1	7.1	6.2		8			
						6.0	0.3	48	18.5		8.2		32.4		92.5		7.1		6.3		9			
IM7	Misty	Moderate	15:19	8.2	Surface	1.0	0.4	34	18.4	18.4	8.2	8.2	32.5	32.5	93.7	93.7	7.3	7.4	6.7	7.3	9	15	821348	806833
						1.0	0.4	35	18.3		8.2		32.5		93.7		7.3		6.7		8			
					Middle	4.1	0.3	35	18.3	18.3	8.2	8.2	32.6	32.6	94.7	96.5	7.3		7.1		8			
						4.1	0.3	36	18.3		8.1		32.6		98.2		7.6		7.2		9			
					Bottom	7.2	0.4	42	18.2	18.2	8.1	8.1	32.7	32.6	98.6	98.7	7.6	7.7	7.9		28			
						7.2	0.4	42	18.2		8.1		32.6		98.7		7.7		8.0		27			
IM8	Fine	Calm	15:39	7.8	Surface	1.0	0.2	43	18.6	18.6	8.2	8.2	32.6	32.6	92.2	92.3	7.1	7.2	4.2	5.4	10	9	821832	808133
						1.0	0.2	43	18.5		8.2		32.6		92.3		7.1		4.2		9			
					Middle	3.9	0.2	30	18.4	18.4	8.2	8.2	33.0	33.0	94.4	94.5	7.3		5.7		9			
						3.9	0.2	30	18.4		8.2		33.0		94.5		7.3		5.8		9			
					Bottom	6.8	0.0	354	18.2	18.2	8.2	8.2	33.2	33.2	95.7	95.8	7.4	7.4	6.2		8			
						6.8	0.0	326	18.2		8.2		33.2		95.9		7.4		6.2		8			

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

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 01 January 22 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)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA		
IM9	Fine	Calm	15:45	7.4	Surface	1.0	0.1	59	18.5	18.5	8.2	8.2	32.7	32.7	90.9	91.0	7.0	7.1	4.0	5.0	9	16	822109	808790
						1.0	0.1	62	18.5		8.2		32.7		91.1		7.0		4.1		10			
					Middle	3.7	0.1	2	18.4	18.4	8.2	8.2	32.8	32.8	92.5	92.6	7.1		5.1		18			
						3.7	0.1	2	18.4		8.2		32.8		92.6		7.1		5.1		19			
					Bottom	6.4	0.1	52	18.3	18.3	8.2	8.2	33.0	33.0	93.7	93.7	7.2	7.3	6.0		19			
						6.4	0.1	53	18.2		8.2		33.0		93.7		7.3		5.9		19			
IM10	Fine	Calm	15:51	7.8	Surface	1.0	0.4	319	18.5	18.5	8.2	8.2	32.7	32.7	91.3	91.3	7.0	7.0	4.5	5.4	14	15	822386	809810
						1.0	0.4	350	18.5		8.2		32.8		91.3		7.0		4.6		13			
					Middle	3.9	0.4	318	18.4	18.4	8.2	8.2	32.8	32.8	91.3	91.4	7.0		5.3		15			
						3.9	0.4	339	18.4		8.2		32.8		91.4		7.1		5.4		16			
					Bottom	6.8	0.3	315	18.4	18.4	8.2	8.2	32.9	32.9	92.7	92.8	7.2	7.2	6.3		17			
						6.8	0.4	323	18.4		8.2		32.9		92.9		7.2		6.3		17			
IM11	Fine	Calm	16:00	8.8	Surface	1.0	0.2	298	18.8	18.8	8.2	8.2	33.1	33.1	92.1	92.2	7.1	7.2	3.0	4.4	19	17	822066	811439
						1.0	0.2	302	18.8		8.2		33.1		92.2		7.1		3.1		18			
					Middle	4.4	0.2	291	18.8	18.8	8.2	8.2	33.1	33.1	93.5	93.6	7.2		4.3		14			
						4.4	0.3	306	18.8		8.2		33.1		93.6		7.2		4.4		13			
					Bottom	7.8	0.3	302	18.7	18.7	8.1	8.1	33.1	33.1	94.7	94.8	7.3	7.3	5.7		18			
						7.8	0.3	310	18.7		8.1		33.1		94.9		7.3		5.8		18			
IM12	Fine	Calm	16:05	9.4	Surface	1.0	0.4	253	18.8	18.8	8.2	8.2	33.1	33.1	91.3	91.4	7.0	7.1	5.8	7.1	16	16	821436	812050
						1.0	0.4	264	18.8		8.2		33.1		91.4		7.0		6.0		17			
					Middle	4.7	0.3	247	18.7	18.7	8.2	8.2	33.1	33.1	92.8	92.9	7.1		7.3		16			
						4.7	0.4	247	18.7		8.2		33.1		93.0		7.1		7.3		15			
					Bottom	8.4	0.3	253	18.7	18.7	8.2	8.2	33.1	33.1	95.4	95.6	7.3	7.3	8.0		15			
						8.4	0.4	264	18.7		8.2		33.1		95.8		7.3		8.0		15			
SR1A	Fine	Calm	16:22	5.3	Surface	1.0	-	-	18.8	18.8	8.2	8.2	33.0	33.0	92.6	92.6	7.1	7.1	4.5	4.9	15	21	819971	812655
						1.0	-	-	18.8		8.2		33.0		92.6		7.1		4.5		22			
					Middle	2.7	-	-	-	-	-	-	-	-	-	-	-		-		-			
						2.7	-	-	-		-		-		-		-		-		-			
					Bottom	4.3	-	-	18.8	18.8	8.2	8.2	33.0	33.0	93.4	93.5	7.2	7.2	5.3		22			
						4.3	-	-	18.8		8.2		33.0		93.6		7.2		5.3		23			
SR2	Fine	Calm	16:38	5.0	Surface	1.0	0.4	323	18.6	18.6	8.2	8.2	33.0	33.0	94.8	94.9	7.3	7.3	3.9	4.1	15	15	821446	814173
						1.0	0.4	347	18.6		8.2		33.1		94.9		7.3		3.4		16			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	4.0	0.4	320	18.1	18.1	8.2	8.2	33.4	33.4	97.6	97.9	7.6	7.6	4.6		14			
						4.0	0.4	341	18.0		8.2		33.5		98.1		7.6		4.5		15			
SR3	Fine	Calm	15:35	8.8	Surface	1.0	0.1	35	18.4	18.4	8.2	8.2	32.8	32.8	93.0	93.0	7.2	7.2	7.0	8.2	19	19	822150	807573
						1.0	0.1	35	18.4		8.2		32.8		93.0		7.2		7.1		24			
					Middle	4.4	0.1	27	18.3	18.3	8.2	8.2	33.0	33.0	93.8	93.9	7.2		8.5		28			
						4.4	0.1	29	18.3		8.2		33.0		93.9		7.3		8.4		17			
					Bottom	7.8	0.2	39	18.3	18.3	8.2	8.2	33.0	33.0	95.4	95.5	7.4	7.4	9.2		12			
						7.8	0.2	40	18.3		8.2		33.0		95.6		7.4		9.1		15			
SR4A	Misty	Moderate	16:38	9.6	Surface	1.0	0.4	222	18.5	18.5	8.2	8.2	32.4	32.4	90.6	90.6	7.0	7.0	8.0	9.3	31	16	817201	807810
						1.0	0.4	228	18.5		8.2		32.4		90.6		7.0		8.1		9			
					Middle	4.8	0.3	198	18.5	18.5	8.2	8.2	32.4	32.4	90.6	90.6	7.0		9.0		8			
						4.8	0.3	213	18.5		8.2		32.4		90.6		7.0		9.1		9			
					Bottom	8.6	0.3	213	18.5	18.5	8.2	8.2	32.4	32.4	90.6	90.6	7.0	7.0	10.7		8			
						8.6	0.3	226	18.5		8.2		32.4		90.6		7.0		10.6		31			
SR5A	Misty	Moderate	16:53	4.6	Surface	1.0	0.3	219	18.2	18.2	8.2	8.2	32.4	32.4	90.6	90.7	7.0	7.0	7.8	8.7	17	15	816571	810676
						1.0	0.3	240	18.2		8.2		32.4		90.7		7.0		7.9		25			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.6	0.2	200	18.2	18.4	8.2	8.2	32.4	32.4	90.7	90.7	7.0	7.0	9.5		9			
						3.6	0.2	207	18.5		8.2		32.4		90.6		7.0		9.6		8			
SR6A	Misty	Moderate	17:22	4.0	Surface	1.0	0.2	209	18.6	18.6	8.2	8.2	32.4	32.4	90.6	90.6	7.0	7.0	5.9	6.6	6	13	817964	814736
						1.0	0.2	215	18.6		8.2		32.4		90.6		7.0		5.9		7			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.0	0.1	199	18.6	18.6	8.2	8.2	32.4	32.4	90.6	90.6	7.0	7.0	7.3		18			
						3.0	0.1	216	18.5		8.2		32.4		90.6		7.0		7.3		19			
SR7	Fine	Calm	17:27	16.0	Surface	1.0	0.1	31	19.2	19.2	8.2	8.2	33.2	33.2	89.5	89.6	6.8	6.9	1.0	1.5	12	14	823631	823748
						1.0	0.1	32	19.1		8.2		33.2		89.6		6.8		1.1		17			
					Middle	8.0	0.1	52	19.2	19.2	8.2	8.2	33.2	33.2	90.4	90.6	6.9		1.2		24			
						8.0	0.1	52	19.2		8.2		33.2		90.7		6.9		1.3		22			
					Bottom	15.0	0.1	65	19.2	19.2	8.2	8.2	33.2	33.2	91.1	91.3	6.9	6.9	2.2		5			
						15.0	0.1	69	19.2		8.2		33.2		91.4		6.9		2.2		5			
SR8	Fine	Calm	16:11	4.6	Surface	1.0	-	-	18.8	18.8	8.2	8.2	33.0	33.0	95.0	95.1	7.3	7.3	3.5	4.1	7	7	820413	811627
						1.0	-	-	18.7		8.2		33.0		95.1		7.3		3.5		8			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.6	-	-	18.7	18.7	8.2	8.2	32.9	32.9	96.5	96.7	7.4	7.4	4.9		6			
						3.6	-	-	18.7		8.2		32.9		96.8		7.4		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 04 January 22 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)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA		
C1	Fine	Calm	13:57	8.2	Surface	1.0	0.3	233	19.9	19.9	8.2	8.2	33.5	33.5	101.7	101.7	7.6	7.6	7.2	8.5	24	29	815632	804264
						1.0	0.3	240	19.9		8.2		33.5		101.7		7.6		7.1		25			
					Middle	4.1	0.3	228	19.9	19.9	8.1	8.1	33.5	33.5	101.8	101.8	7.6		8.7		31			
						4.1	0.3	231	19.9		8.1		33.5		101.8		7.6		8.8		32			
					Bottom	7.2	0.3	218	20.2	20.3	8.1	8.1	33.2	33.2	102.6	102.7	7.6	7.7	9.6		31			
						7.2	0.3	219	20.3		8.1		33.2		102.8		7.7		9.6		32			
C2	Fine	Moderate	12:45	12.0	Surface	1.0	0.2	134	19.1	19.1	8.2	8.2	31.4	31.4	91.6	91.6	7.0	7.0	5.4	7.9	9	8	825699	806930
						1.0	0.2	136	19.1		8.2		31.4		91.6		7.0		5.5		8			
					Middle	6.0	0.3	133	19.2	19.2	8.2	8.2	31.6	31.6	91.6	91.6	7.0		6.6		8			
						6.0	0.3	133	19.2		8.2		31.6		91.6		7.0		6.6		9			
					Bottom	11.0	0.4	123	18.9	18.9	8.2	8.2	32.0	32.0	90.2	90.2	6.9	6.9	11.8		8			
						11.0	0.4	126	18.9		8.2		32.0		90.2		6.9		11.8		7			
C3	Fine	Moderate	14:51	12.5	Surface	1.0	0.3	71	19.1	19.1	8.2	8.2	32.4	32.4	89.5	89.5	6.8	6.8	4.7	4.7	8	9	822128	817810
						1.0	0.3	72	19.1		8.2		32.4		89.4		6.8		4.6		9			
					Middle	6.3	0.3	81	19.1	19.1	8.2	8.2	32.5	32.5	88.2	88.2	6.7		4.5		9			
						6.3	0.3	88	19.1		8.2		32.5		88.2		6.7		4.5		10			
					Bottom	11.5	0.3	82	19.1	19.1	8.2	8.2	32.6	32.6	89.1	89.1	6.8	6.8	4.9		10			
						11.5	0.3	83	19.1		8.2		32.6		89.1		6.8		5.0		9			
IM1	Fine	Calm	13:37	4.8	Surface	1.0	0.1	201	19.7	19.7	8.1	8.1	33.1	33.1	102.3	102.3	7.7	7.7	9.4	9.7	8	9	817964	807153
						1.0	0.1	211	19.7		8.1		33.0		102.3		7.7		9.5		9			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.8	0.1	199	19.6	19.6	8.1	8.1	33.0	33.0	103.4	103.6	7.8	7.8	10.0		8			
						3.8	0.1	217	19.6		8.1		33.0		103.7		7.8		10.0		9			
IM2	Fine	Calm	13:31	6.6	Surface	1.0	0.2	198	19.8	19.8	8.1	8.1	32.8	32.8	101.5	101.5	7.6	7.7	5.0	6.3	30	32	818157	806146
						1.0	0.2	211	19.7		8.1		32.8		101.5		7.6		5.1		31			
					Middle	3.3	0.2	213	19.5	19.5	8.1	8.1	32.9	32.9	101.5	101.6	7.7		6.5		31			
						3.3	0.2	213	19.5		8.1		32.9		101.7		7.7		6.5		32			
					Bottom	5.6	0.1	220	19.5	19.5	8.1	8.1	32.9	32.9	102.8	103.0	7.8	7.8	7.4		32			
						5.6	0.1	230	19.5		8.1		32.9		103.2		7.8		7.5		33			
IM3	Fine	Calm	13:24	6.8	Surface	1.0	0.3	199	19.6	19.6	8.1	8.1	32.9	32.9	99.7	99.7	7.5	7.5	5.4	6.6	36	35	818796	805581
						1.0	0.3	208	19.6		8.1		32.9		99.6		7.5		5.5		38			
					Middle	3.4	0.3	201	19.6	19.6	8.1	8.1	32.9	32.9	99.8	99.9	7.5		6.4		34			
						3.4	0.3	215	19.6		8.1		32.9		99.9		7.6		6.4		34			
					Bottom	5.8	0.3	206	19.6	19.6	8.1	8.1	32.9	32.9	102.0	102.1	7.7	7.7	8.0		34			
						5.8	0.3	218	19.6		8.1		32.9		102.2		7.7		7.9		33			
IM4	Fine	Calm	13:16	8.6	Surface	1.0	0.3	213	19.7	19.7	8.1	8.1	32.8	32.8	101.1	101.1	7.6	7.6	7.4	8.4	31	28	819719	804596
						1.0	0.3	220	19.7		8.1		32.8		101.0		7.6		7.5		30			
					Middle	4.3	0.3	214	19.6	19.7	8.1	8.1	32.9	32.9	100.9	101.0	7.6		8.5		27			
						4.3	0.3	220	19.7		8.1		32.8		101.0		7.6		8.4		28			
					Bottom	7.6	0.3	226	20.1	20.2	8.1	8.1	32.5	32.4	101.8	101.9	7.6	7.6	9.3		25			
						7.6	0.3	230	20.2		8.1		32.4		102.0		7.6		9.4		26			
IM5	Fine	Calm	13:08	7.0	Surface	1.0	0.3	225	19.6	19.6	8.1	8.1	32.7	32.7	99.1	99.1	7.5	7.5	8.2	9.2	31	31	820743	804882
						1.0	0.3	227	19.6		8.1		32.8		99.0		7.5		8.2		32			
					Middle	3.5	0.3	231	19.6	19.6	8.1	8.1	32.8	32.8	99.0	99.0	7.5		9.2		30			
						3.5	0.3	240	19.6		8.1		32.8		99.0		7.5		9.3		30			
					Bottom	6.0	0.3	228	19.5	19.5	8.1	8.1	32.8	32.8	99.9	100.0	7.6	7.6	10.1		30			
						6.0	0.3	247	19.5		8.1		32.8		100.0		7.6		10.0		30			
IM6	Fine	Calm	13:02	7.0	Surface	1.0	0.3	230	19.7	19.7	8.1	8.1	32.9	32.9	100.3	100.4	7.6	7.6	7.4	8.4	20	20	821047	805810
						1.0	0.3	231	19.7		8.1		32.9		100.4		7.6		7.3		19			
					Middle	3.5	0.3	238	19.7	19.7	8.1	8.1	32.9	32.9	100.8	100.8	7.6		8.4		19			
						3.5	0.3	254	19.7		8.1		32.9		100.8		7.6		8.5		20			
					Bottom	6.0	0.4	240	20.0	20.1	8.1	8.1	32.7	32.7	101.4	101.5	7.6	7.6	9.4		22			
						6.0	0.4	249	20.1		8.1		32.7		101.6		7.6		9.5		22			
IM7	Fine	Calm	12:54	8.4	Surface	1.0	0.4	241	19.8	19.8	8.1	8.1	33.0	33.0	99.6	99.6	7.5	7.5	7.0	8.5	17	18	821346	806849
						1.0	0.4	242	19.8		8.1		33.0		99.5		7.5		7.1		16			
					Middle	4.2	0.3	246	19.7	19.7	8.1	8.1	33.0	33.0	99.4	99.5	7.5		8.8		16			
						4.2	0.3	267	19.7		8.1		33.0		99.5		7.5		8.7		17			
					Bottom	7.4	0.4	246	19.8	19.9	8.1	8.1	33.0	32.9	101.0	101.1	7.6	7.6	9.6		21			
						7.4	0.4	270	19.9		8.1		32.9		101.2		7.6		9.6		22			
IM8	Fine	Rough	13:13	7.8	Surface	1.0	0.2	50	19.1	19.1	8.2	8.2	31.8	31.8	92.2	92.2	7.1	7.1	6.8	12.4	12	11	821816	808117
						1.0	0.2	52	19.1		8.2		31.8		92.1		7.1		6.9		11			
					Middle	3.9	0.3	62	19.1	19.1	8.2	8.2	32.0	32.0	91.5	91.5	7.0		10.5		11			
						3.9	0.3	64	19.1		8.2		32.0		91.4		7.0		10.9		12			
					Bottom	6.8	0.4	70	19.0	19.0	8.2	8.2	32.2	32.2	90.7	90.8	7.0	7.0	19.5		10			
						6.8	0.4	72	19.0		8.2		32.2		90.8		7.0		19.6		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 04 January 22 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	Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)
IM9	Fine	Rough	13:19	7.5	Surface	1.0	0.3	49	19.0	19.0	8.2	8.2	31.8	31.8	90.8	90.8	7.0	7.0	7.1	11.8	12	12	822097	808807
						1.0	0.3	52	19.0		8.2		31.8		90.8		7.0		7.1		11			
					Middle	3.8	0.3	54	19.0	19.0	8.2	8.2	32.0	32.0	91.0	91.0	7.0		10.9		11			
						3.8	0.3	58	19.0		8.2		32.0		91.0		7.0		11.3		12			
					Bottom	6.5	0.3	69	19.0	19.0	8.2	8.2	32.1	32.1	91.5	91.5	7.0	7.0	17.5		13			
						6.5	0.3	69	19.0		8.2		32.1		91.5		7.0		16.9		14			
IM10	Fine	Rough	13:26	7.2	Surface	1.0	0.3	113	19.0	19.0	8.2	8.2	31.7	31.7	91.5	91.5	7.0	7.0	5.8	6.6	12	12	822406	809775
						1.0	0.3	124	19.0		8.2		31.7		91.5		7.0		5.8		12			
					Middle	3.6	0.3	112	18.8	18.8	8.2	8.2	31.8	31.8	89.5	89.5	6.9		7.2		11			
						3.6	0.3	119	18.8		8.2		31.8		89.5		6.9		7.1		12			
					Bottom	6.2	0.2	120	18.8	18.8	8.2	8.2	32.0	32.0	90.5	90.6	7.0	7.0	6.8		12			
						6.2	0.2	131	18.8		8.2		32.0		90.6		7.0		6.7		11			
IM11	Fine	Moderate	13:36	8.6	Surface	1.0	0.2	61	19.0	19.0	8.2	8.2	32.3	32.3	91.0	91.0	7.0	7.0	7.4	8.0	13	13	822076	811437
						1.0	0.2	61	19.0		8.2		32.3		91.0		7.0		7.5		13			
					Middle	4.3	0.2	53	19.0	19.0	8.2	8.2	32.3	32.3	90.8	90.8	7.0		7.5		12			
						4.3	0.2	58	19.0		8.2		32.3		90.7		7.0		7.5		13			
					Bottom	7.6	0.2	46	19.0	19.0	8.2	8.2	32.2	32.2	90.7	90.7	7.0	7.0	9.1		13			
						7.6	0.2	46	19.0		8.2		32.2		90.7		7.0		9.1		12			
IM12	Fine	Moderate	13:46	9.2	Surface	1.0	0.1	303	19.0	19.0	8.2	8.2	32.3	32.3	90.8	90.8	7.0	7.0	6.8	7.6	12	12	821442	812057
						1.0	0.1	314	19.0		8.2		32.3		90.8		7.0		6.8		13			
					Middle	4.6	0.0	126	19.0	19.0	8.2	8.2	32.3	32.3	90.6	90.6	6.9		6.8		12			
						4.6	0.0	134	19.0		8.2		32.3		90.6		6.9		6.9		13			
					Bottom	8.2	0.1	68	18.9	18.9	8.2	8.2	32.2	32.2	90.5	90.5	6.9	6.9	9.1		10			
						8.2	0.1	74	18.9		8.2		32.2		90.5		6.9		9.0		11			
SR1A	Fine	Moderate	14:18	5.2	Surface	1.0	-	-	19.0	19.0	8.2	8.2	32.2	32.2	90.3	90.3	6.9	6.9	7.2	7.9	8	9	819976	812665
						1.0	-	-	19.0		8.2		32.2		90.3		6.9		7.2		9			
					Middle	2.6	-	-	-	-	-	-	-	-	-	-	-		-		-			
						2.6	-	-	-		-		-		-		-		-		-			
					Bottom	4.2	-	-	18.9	18.9	8.2	8.2	32.3	32.3	90.1	90.1	6.9	6.9	8.6		9			
						4.2	-	-	18.9		8.2		32.3		90.1		6.9		8.5		10			
SR2	Fine	Moderate	14:31	4.9	Surface	1.0	0.1	97	19.0	19.0	8.2	8.2	32.3	32.3	90.9	90.9	7.0	7.0	5.3	5.4	11	11	821454	814171
						1.0	0.1	98	19.0		8.2		32.3		90.8		7.0		5.3		12			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.9	0.1	95	19.0	19.0	8.2	8.2	32.3	32.3	91.1	91.1	7.0	7.0	5.6		10			
						3.9	0.2	96	19.0		8.2		32.3		91.1		7.0		5.6		11			
SR3	Fine	Rough	13:05	8.9	Surface	1.0	0.3	141	19.1	19.1	8.2	8.2	31.6	31.6	91.8	91.8	7.1	7.0	6.8	11.0	12	12	822145	807561
						1.0	0.3	149	19.1		8.2		31.6		91.7		7.0		7.1		13			
					Middle	4.5	0.3	125	19.0	19.0	8.2	8.2	31.8	31.8	90.7	90.7	7.0		9.6		12			
						4.5	0.3	132	19.0		8.2		31.8		90.7		7.0		9.7		13			
					Bottom	7.9	0.4	114	18.9	18.9	8.2	8.2	32.0	32.0	90.2	90.3	6.9	6.9	16.5		10			
						7.9	0.4	123	18.9		8.2		32.0		90.4		6.9		16.1		11			
SR4A	Fine	Calm	14:19	9.0	Surface	1.0	0.4	79	19.9	19.9	8.2	8.2	33.5	33.5	101.7	101.7	7.6	7.6	7.1	8.3	13	13	817212	807797
						1.0	0.4	83	19.9		8.2		33.5		101.7		7.6		7.0		12			
					Middle	4.5	0.4	89	19.9	19.9	8.1	8.1	33.5	33.5	101.8	101.8	7.6		8.6		12			
						4.5	0.4	97	19.9		8.1		33.5		101.8		7.6		8.6		13			
					Bottom	8.0	0.3	97	19.8	20.0	8.1	8.1	33.2	33.2	102.6	102.6	7.6	7.6	9.3		14			
						8.0	0.3	104	20.1		8.1		33.2		102.6		7.6		9.3		13			
SR5A	Fine	Calm	14:37	3.2	Surface	1.0	0.2	111	19.7	19.7	8.2	8.2	32.7	32.7	99.7	99.7	7.5	7.5	9.1	9.6	13	13	816609	810699
						1.0	0.2	119	19.7		8.2		32.7		99.7		7.5		9.1		14			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	2.2	0.2	108	19.6	19.6	8.2	8.2	32.7	32.7	99.7	99.8	7.5	7.5	10.1		13			
						2.2	0.2	113	19.6		8.2		32.7		99.8		7.5		10.0		12			
SR6A	Fine	Calm	15:09	4.0	Surface	1.0	0.2	130	19.9	19.9	8.1	8.1	32.4	32.4	100.8	100.8	7.6	7.6	8.8	9.2	11	10	817980	814744
						1.0	0.2	142	19.9		8.1		32.4		100.8		7.6		8.9		10			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.0	0.1	113	19.8	19.8	8.1	8.1	32.5	32.5	100.3	100.3	7.6	7.6	9.6		10			
						3.0	0.1	118	19.8		8.1		32.5		100.2		7.6		9.5		9			
SR7	Fine	Rough	15:22	16.0	Surface	1.0	0.7	86	19.1	19.1	8.2	8.2	32.6	32.6	87.5	87.5	6.7	6.7	3.9	3.9	9	9	823639	823747
						1.0	0.8	91	19.1		8.2		32.6		87.4		6.7		4.0		9			
					Middle	8.0	0.6	84	19.1	19.1	8.2	8.2	32.7	32.7	86.5	86.5	6.6		4.0		9			
						8.0	0.6	86	19.1		8.2		32.7		86.5		6.6		4.0		9			
					Bottom	15.0	0.2	57	19.1	19.1	8.2	8.2	32.7	32.7	86.7	86.7	6.6	6.6	3.7		8			
						15.0	0.3	62	19.1		8.2		32.7		86.7		6.6		3.8		8			
SR8	Fine	Moderate	13:53	5.1	Surface	1.0	-	-	19.2	19.2	8.3	8.3	32.1	32.1	91.1	91.1	7.0	7.0	5.4	6.4	13	12	820380	811619
						1.0	-	-	19.2		8.3		32.1		91.0		7.0		5.4		12			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	4.1	-	-	19.0	19.0	8.4	8.4	32.2	32.2	88.4	88.5	6.8	6.8	7.4		12			
						4.1	-	-	19.0		8.4		32.2		88.5		6.8		7.5		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 04 January 22 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	Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)
C1	Fine	Calm	09:28	7.6	Surface	1.0	0.4	23	19.4	19.4	8.1	8.1	32.5	32.5	99.1	99.2	7.5	7.6	8.0	9.2	9	11	815634	804238
						1.0	0.4	25	19.4		8.1		32.5		99.2		7.5		8.1		10			
					Middle	3.8	0.4	28	19.5	19.5	8.1	8.1	32.8	32.8	100.1	100.2	7.6		9.5		10			
						3.8	0.4	28	19.5		8.1		32.9		100.3		7.6		9.5		9			
					Bottom	6.6	0.5	31	19.5	19.5	8.1	8.1	33.0	33.0	101.5	101.6	7.7	7.7	10.1		13			
						6.6	0.5	31	19.5		8.1		33.0		101.7		7.7		10.1		14			
C2	Fine	Moderate	10:04	11.5	Surface	1.0	0.3	334	18.7	18.7	8.1	8.1	30.9	30.9	90.5	90.5	7.0	7.0	5.1	6.9	8	7	825696	806950
						1.0	0.3	351	18.7		8.1		30.9		90.5		7.0		5.1		7			
					Middle	5.8	0.4	346	18.7	18.7	8.2	8.2	31.3	31.3	89.4	89.4	6.9		6.5		7			
						5.8	0.4	351	18.7		8.2		31.3		89.4		6.9		6.6		6			
					Bottom	10.5	0.4	13	18.7	18.7	8.2	8.2	31.8	31.8	89.4	89.4	6.9	6.9	9.1		6			
						10.5	0.4	14	18.7		8.2		31.8		89.4		6.9		9.3		7			
C3	Fine	Moderate	08:05	11.1	Surface	1.0	0.3	254	18.8	18.8	8.1	8.1	32.1	32.1	89.2	89.2	6.9	6.9	6.3	11.3	11	10	822091	817797
						1.0	0.3	274	18.8		8.1		32.1		89.1		6.9		6.4		12			
					Middle	5.6	0.2	247	18.8	18.8	8.1	8.1	32.2	32.2	88.8	88.8	6.8		11.6		9			
						5.6	0.2	261	18.8		8.1		32.2		88.8		6.8		11.6		10			
					Bottom	10.1	0.3	267	18.8	18.8	8.2	8.2	32.2	32.2	89.2	89.3	6.9	6.9	16.3		9			
						10.1	0.3	277	18.8		8.2		32.2		89.3		6.9		15.7		10			
IM1	Fine	Calm	09:47	4.2	Surface	1.0	0.1	48	19.6	19.6	8.1	8.1	33.0	33.0	98.9	98.9	7.5	7.5	7.5	7.9	13	12	817943	807134
						1.0	0.1	49	19.6		8.1		33.0		98.8		7.5		7.6		12			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.2	0.1	52	19.5	19.5	8.1	8.1	33.0	33.0	99.3	99.4	7.5	7.5	8.2		10			
						3.2	0.1	55	19.5		8.1		33.0		99.4		7.5		8.2		11			
IM2	Fine	Calm	09:53	6.2	Surface	1.0	0.2	51	19.3	19.3	8.1	8.1	32.8	32.8	97.7	97.7	7.4	7.4	7.5	8.2	13	13	818158	806171
						1.0	0.2	52	19.3		8.1		32.8		97.7		7.4		7.6		12			
					Middle	3.1	0.2	52	19.3	19.3	8.1	8.1	32.8	32.8	97.8	98.4	7.4		8.1		13			
						3.1	0.2	52	19.3		8.1		32.8		99.0		7.5		8.1		12			
					Bottom	5.2	0.1	46	19.3	19.3	8.1	8.1	32.8	32.8	100.9	101.2	7.7	7.7	9.1		13			
						5.2	0.1	49	19.3		8.1		32.8		101.5		7.7		9.1		14			
IM3	Fine	Calm	09:59	6.6	Surface	1.0	0.3	38	19.3	19.3	8.1	8.1	32.9	32.9	98.0	98.1	7.4	7.5	5.1	6.4	11	14	818792	805570
						1.0	0.3	41	19.3		8.1		32.9		98.2		7.5		5.2		12			
					Middle	3.3	0.3	46	19.3	19.3	8.1	8.1	32.8	32.8	99.5	99.6	7.6		6.5		15			
						3.3	0.3	46	19.3		8.1		32.8		99.6		7.6		6.5		14			
					Bottom	5.6	0.2	49	19.3	19.3	8.1	8.1	32.8	32.8	101.0	101.2	7.7	7.7	7.6		15			
						5.6	0.2	49	19.3		8.1		32.8		101.3		7.7		7.6		16			
IM4	Fine	Calm	10:07	8.0	Surface	1.0	0.3	32	19.3	19.3	8.1	8.1	32.8	32.8	98.0	98.1	7.4	7.5	6.7	7.3	13	12	819701	804590
						1.0	0.3	34	19.3		8.1		32.8		98.1		7.5		6.6		12			
					Middle	4.0	0.3	44	19.3	19.3	8.1	8.1	32.8	32.8	99.0	99.2	7.5		7.1		12			
						4.0	0.3	44	19.3		8.1		32.8		99.4		7.5		7.0		11			
					Bottom	7.0	0.3	37	19.3	19.3	8.1	8.1	32.8	32.8	100.8	101.0	7.7	7.7	8.1		11			
						7.0	0.3	39	19.3		8.1		32.8		101.1		7.7		8.1		10			
IM5	Fine	Calm	10:13	6.2	Surface	1.0	0.4	28	19.3	19.3	8.1	8.1	32.8	32.8	97.5	97.6	7.4	7.4	8.4	9.3	12	15	820716	804855
						1.0	0.4	28	19.3		8.1		32.8		97.6		7.4		8.5		12			
					Middle	3.1	0.3	38	19.3	19.3	8.1	8.1	32.8	32.8	98.1	98.2	7.4		9.4		13			
						3.1	0.3	39	19.3		8.1		32.8		98.2		7.5		9.5		13			
					Bottom	5.2	0.3	42	19.3	19.3	8.1	8.1	32.8	32.8	99.5	99.7	7.6	7.6	10.0		21			
						5.2	0.3	42	19.3		8.1		32.8		99.8		7.6		10.0		21			
IM6	Fine	Calm	10:20	7.0	Surface	1.0	0.4	26	19.6	19.6	8.1	8.1	33.0	33.0	99.9	100.0	7.5	7.6	7.4	8.5	14	14	821072	805826
						1.0	0.4	27	19.6		8.1		33.0		100.1		7.6		7.5		13			
					Middle	3.5	0.3	32	19.6	19.6	8.1	8.1	33.0	33.0	100.8	100.9	7.6		8.7		13			
						3.5	0.3	32	19.6		8.1		32.9		100.9		7.6		8.8		14			
					Bottom	6.0	0.3	30	19.6	19.6	8.1	8.1	32.9	32.9	101.5	101.6	7.7	7.7	9.4		14			
						6.0	0.3	30	19.6		8.1		32.9		101.7		7.7		9.5		14			
IM7	Fine	Calm	10:28	8.2	Surface	1.0	0.4	22	19.5	19.5	8.1	8.1	32.5	32.5	98.7	98.7	7.5	7.6	6.0	6.9	10	10	821333	806841
						1.0	0.4	22	19.5		8.1		32.5		98.7		7.5		5.9		11			
					Middle	4.1	0.4	30	19.6	19.6	8.1	8.1	32.9	32.9	100.2	100.3	7.6		6.7		10			
						4.1	0.4	32	19.6		8.1		32.9		100.3		7.6		6.8		11			
					Bottom	7.2	0.3	25	19.6	19.6	8.1	8.1	32.9	32.9	102.1	102.2	7.7	7.7	7.9		10			
						7.2	0.3	26	19.6		8.1		32.9		102.2		7.7		7.8		10			
IM8	Fine	Moderate	09:39	7.3	Surface	1.0	0.0	152	18.8	18.8	8.2	8.2	31.7	31.7	89.5	89.5	6.9	6.9	10.1	10.5	14	15	821808	808146
						1.0	0.0	154	18.8		8.2		31.7		89.5		6.9		10.1		13			
					Middle	3.7	0.0	261	18.7	18.7	8.2	8.2	31.8	31.8	89.0	89.0	6.9		10.6		15			
						3.7	0.0	281	18.7		8.2		31.8		89.0		6.9		10.6		16			
					Bottom	6.3	0.1	218	18.7	18.7	8.2	8.2	31.9	31.9	89.2	89.3	6.9	6.9	11.0		16			
						6.3	0.1	219	18.7		8.2		31.9		89.3		6.9		10.9		15			

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 04 January 22 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)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA		
IM9	Fine	Moderate	09:34	7.1	Surface	1.0	0.2	279	18.7	18.7	8.2	8.2	31.9	31.9	88.9	88.9	6.9	6.9	11.8	11.9	18	18	822094	808825
						1.0	0.2	292	18.7		8.2		31.9		88.9		6.9		11.8		17			
					Middle	3.6	0.2	269	18.7	18.7	8.2	8.2	31.9	31.9	89.0	89.1	6.9		12.2		18			
						3.6	0.2	279	18.7		8.2		31.9		89.1		6.9		12.2		17			
					Bottom	6.1	0.1	247	18.7	18.7	8.2	8.2	31.9	31.9	89.8	89.9	6.9	6.9	11.4		18			
						6.1	0.1	259	18.7		8.2		31.9		89.9		6.9		12.0		18			
IM10	Fine	Moderate	09:26	7.6	Surface	1.0	0.5	299	18.7	18.7	8.2	8.2	31.9	31.9	89.3	89.3	6.9	6.9	11.8	13.1	18	18	822401	809796
						1.0	0.5	308	18.7		8.2		31.9		89.3		6.9		11.8		19			
					Middle	3.8	0.5	307	18.7	18.7	8.2	8.2	31.9	31.9	89.2	89.2	6.9		12.4		18			
						3.8	0.5	328	18.7		8.2		31.9		89.2		6.9		12.5		19			
					Bottom	6.6	0.5	300	18.7	18.7	8.2	8.2	32.0	32.0	89.2	89.2	6.9	6.9	15.0		17			
						6.6	0.5	327	18.7		8.2		32.0		89.2		6.9		15.1		17			
IM11	Fine	Moderate	09:18	8.8	Surface	1.0	0.4	287	18.7	18.7	8.2	8.2	32.0	32.0	89.6	89.6	6.9	6.9	10.6	11.9	16	14	822067	811464
						1.0	0.4	310	18.7		8.2		32.0		89.6		6.9		10.5		16			
					Middle	4.4	0.4	291	18.8	18.8	8.2	8.2	32.1	32.1	89.2	89.2	6.9		12.1		15			
						4.4	0.4	291	18.8		8.2		32.1		89.2		6.9		12.0		14			
					Bottom	7.8	0.4	287	18.8	18.8	8.2	8.2	32.1	32.1	89.6	89.6	6.9	6.9	13.0		13			
						7.8	0.4	303	18.8		8.2		32.1		89.6		6.9		13.1		12			
IM12	Fine	Moderate	09:11	9.0	Surface	1.0	0.5	295	18.8	18.8	8.2	8.2	32.4	32.4	89.9	89.9	6.9	6.9	9.6	13.0	15	15	821446	812041
						1.0	0.5	298	18.8		8.2		32.4		89.9		6.9		9.6		14			
					Middle	4.5	0.5	296	18.8	18.8	8.2	8.2	32.4	32.4	89.9	89.9	6.9		12.6		14			
						4.5	0.5	297	18.8		8.2		32.4		89.9		6.9		12.6		15			
					Bottom	8.0	0.4	298	18.8	18.8	8.2	8.2	32.4	32.4	90.3	90.4	6.9	6.9	16.8		15			
						8.0	0.4	319	18.8		8.2		32.4		90.4		6.9		16.8		15			
SR1A	Fine	Calm	08:40	4.8	Surface	1.0	-	-	18.8	18.8	8.2	8.2	32.3	32.3	89.3	89.3	6.9	6.9	4.0	5.0	12	11	819980	812659
						1.0	-	-	18.8		8.2		32.3		89.3		6.9		4.0		11			
					Middle	2.4	-	-	-	-	-	-	-	-	-	-	-		-		-			
						2.4	-	-	-		-		-		-		-		-		-			
					Bottom	3.8	-	-	18.8	18.8	8.2	8.2	32.3	32.3	88.8	88.9	6.8	6.8	6.0		10			
						3.8	-	-	18.8		8.2		32.3		88.9		6.8		5.9		11			
SR2	Fine	Rough	08:25	4.6	Surface	1.0	0.3	330	18.8	18.8	8.2	8.2	32.3	32.3	90.0	90.1	6.9	6.9	8.8	11.1	12	13	821485	814148
						1.0	0.3	337	18.8		8.2		32.3		90.1		6.9		8.5		12			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.6	0.3	328	18.8	18.8	8.2	8.2	32.3	32.3	92.1	92.3	7.1	7.1	13.7		13			
						3.6	0.3	333	18.8		8.2		32.3		92.4		7.1		13.3		14			
SR3	Fine	Moderate	09:44	8.7	Surface	1.0	0.1	2	18.8	18.8	8.1	8.1	31.3	31.3	90.2	90.2	7.0	7.0	6.2	11.0	9	9	822123	807578
						1.0	0.1	2	18.8		8.1		31.3		90.1		7.0		6.2		10			
					Middle	4.4	0.1	9	18.7	18.7	8.1	8.1	31.4	31.4	89.3	89.3	6.9		10.7		10			
						4.4	0.2	9	18.7		8.1		31.4		89.3		6.9		10.6		9			
					Bottom	7.7	0.1	21	18.7	18.7	8.2	8.2	31.5	31.5	89.6	89.6	6.9	6.9	16.1		9			
						7.7	0.1	21	18.7		8.2		31.5		89.6		6.9		16.1		9			
SR4A	Fine	Calm	09:07	8.4	Surface	1.0	0.4	201	19.5	19.5	8.1	8.1	33.1	33.1	98.2	98.2	7.4	7.4	6.8	7.8	13	13	817173	807797
						1.0	0.4	210	19.5		8.1		33.1		98.2		7.4		6.8		13			
					Middle	4.2	0.3	225	19.4	19.4	8.1	8.1	33.1	33.1	98.1	98.1	7.4		7.3		14			
						4.2	0.3	242	19.4		8.1		33.1		98.1		7.4		7.3		13			
					Bottom	7.4	0.3	267	19.4	19.4	8.1	8.1	33.1	33.1	98.9	99.0	7.5	7.5	9.2		14			
						7.4	0.3	269	19.4		8.1		33.1		99.0		7.5		9.2		13			
SR5A	Fine	Calm	08:50	4.2	Surface	1.0	0.2	229	19.4	19.4	8.1	8.1	33.3	33.3	98.4	98.4	7.4	7.4	8.0	8.7	13	12	816588	810713
						1.0	0.2	244	19.4		8.1		33.3		98.4		7.4		8.1		12			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.2	0.2	241	19.4	19.4	8.1	8.1	33.2	33.2	98.6	98.6	7.5	7.5	9.5		11			
						3.2	0.2	245	19.4		8.1		33.2		98.6		7.5		9.4		12			
SR6A	Fine	Calm	08:22	3.2	Surface	1.0	0.1	218	19.4	19.4	8.1	8.1	33.2	33.2	98.7	98.8	7.5	7.5	8.5	9.0	13	13	817944	814716
						1.0	0.1	230	19.4		8.1		33.2		98.8		7.5		8.4		12			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	2.2	0.1	208	19.4	19.4	8.1	8.1	33.2	33.2	99.1	99.2	7.5	7.5	9.5		12			
						2.2	0.1	220	19.4		8.1		33.2		99.2		7.5		9.4		13			
SR7	Fine	Moderate	07:37	15.6	Surface	1.0	0.3	19	18.9	18.9	8.1	8.1	32.4	32.4	88.6	88.6	6.8	6.8	6.1	12.5	11	11	823657	823722
						1.0	0.4	20	18.9		8.1		32.4		88.6		6.8		6.0		12			
					Middle	7.8	0.3	24	18.9	18.9	8.1	8.1	32.5	32.5	88.2	88.2	6.8		11.8		10			
						7.8	0.3	25	18.9		8.1		32.5		88.2		6.8		11.2		11			
					Bottom	14.6	0.3	23	18.9	18.9	8.1	8.1	32.5	32.5	88.1	88.1	6.8	6.8	20.0		9			
						14.6	0.3	23	18.9		8.1		32.5		88.1		6.8		19.9		10			
SR8	Fine	Moderate	09:03	4.9	Surface	1.0	-	-	19.3	19.3	8.2	8.2	31.9	31.9	90.4	90.5	6.9	6.9	7.1	10.2	12	12	820396	811638
						1.0	-	-	19.3		8.2		31.9		90.5		6.9		7.1		12			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.9	-	-	18.7	18.7	8.2	8.2	32.0	32.0	90.1	90.1	7.0	7.0	13.4		12			
						3.9	-	-	18.7		8.2		32.0		90.1		7.0		13.4		13			

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 January 22 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)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA		
C1	Fine	Rough	15:23	7.8	Surface	1.0	0.3	224	20.0	20.0	8.1	8.1	31.8	31.8	102.4	102.4	7.7	7.6	7.3	8.5	6	7	815629	804231
						1.0	0.3	241	20.0		8.1		31.8		102.4		7.7		7.3		7			
					Middle	3.9	0.2	220	19.8	19.8	8.1	8.1	32.1	32.1	99.3	99.3	7.5		8.6		6			
						3.9	0.2	235	19.8		8.1		32.1		99.3		7.5		8.6		7			
					Bottom	6.8	0.1	234	19.8	19.8	8.1	8.1	32.4	32.4	99.1	99.1	7.5	7.5	9.4		7			
						6.8	0.1	247	19.8		8.1		32.4		99.1		7.5		9.5		8			
C2	Cloudy	Moderate	14:31	12.2	Surface	1.0	0.3	166	19.5	19.5	8.1	8.1	30.5	30.5	93.3	93.2	7.2	7.1	3.6	6.4	6	6	825662	806939
						1.0	0.3	168	19.5		8.1		30.5		93.1		7.1		3.7		5			
					Middle	6.1	0.2	154	19.3	19.3	8.2	8.2	30.8	30.9	91.1	91.1	7.0		4.8		7			
						6.1	0.2	156	19.3		8.2		30.9		91.0		7.0		4.9		6			
					Bottom	11.2	0.2	160	19.2	19.2	8.2	8.2	31.2	31.2	90.9	91.0	7.0	7.0	10.4		7			
						11.2	0.2	164	19.2		8.2		31.2		91.0		7.0		10.9		6			
C3	Cloudy	Moderate	16:33	12.3	Surface	1.0	0.3	134	19.3	19.3	8.2	8.2	32.4	32.4	87.2	87.2	6.6	6.7	4.3	7.6	6	5	822091	817816
						1.0	0.3	135	19.3		8.2		32.4		87.1		6.6		4.6		5			
					Middle	6.2	0.2	111	19.2	19.2	8.2	8.2	32.4	32.4	87.9	88.1	6.7		7.3		5			
						6.2	0.2	121	19.2		8.2		32.4		88.2		6.7		7.5		5			
					Bottom	11.3	0.3	104	19.2	19.2	8.2	8.2	32.4	32.4	89.4	89.5	6.8	6.8	10.7		5			
						11.3	0.3	111	19.2		8.2		32.4		89.6		6.8		11.4		5			
IM1	Fine	Moderate	15:12	5.1	Surface	1.0	0.1	142	20.2	20.2	8.1	8.1	32.5	32.5	100.2	100.3	7.5	7.5	10.4	9.9	7	7	817938	807135
						1.0	0.1	152	20.2		8.1		32.5		100.3		7.5		10.4		7			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	4.1	0.1	156	20.3	20.3	8.1	8.1	32.6	32.6	101.2	101.3	7.6	7.6	9.4		6			
						4.1	0.1	164	20.3		8.1		32.6		101.3		7.6		9.4		7			
IM2	Fine	Rough	15:05	6.9	Surface	1.0	0.2	141	20.1	20.1	8.1	8.1	32.2	32.2	101.1	101.1	7.6	7.6	6.0	8.9	7	7	818160	806172
						1.0	0.2	142	20.1		8.1		32.3		101.1		7.6		6.1		6			
					Middle	3.5	0.2	121	20.0	20.0	8.1	8.1	32.3	32.2	99.5	99.6	7.5		7.6		8			
						3.5	0.2	122	20.0		8.1		32.2		99.6		7.5		7.6		7			
					Bottom	5.9	0.1	135	19.9	19.9	8.1	8.1	32.3	32.3	97.3	97.3	7.3	7.3	12.9		7			
						5.9	0.1	137	19.9		8.1		32.3		97.3		7.3		13.0		8			
IM3	Fine	Rough	14:59	7.1	Surface	1.0	0.3	131	20.1	20.1	8.1	8.1	32.2	32.2	101.7	101.7	7.6	7.6	5.9	6.2	6	7	818791	805586
						1.0	0.3	142	20.1		8.1		32.2		101.7		7.6		5.9		7			
					Middle	3.6	0.3	122	20.0	20.0	8.1	8.1	32.3	32.3	99.0	99.0	7.5		6.0		7			
						3.6	0.3	133	20.0		8.1		32.3		99.0		7.5		6.1		8			
					Bottom	6.1	0.2	127	19.9	19.9	8.1	8.1	32.4	32.4	97.3	97.3	7.3	7.3	6.6		8			
						6.1	0.2	136	19.9		8.1		32.4		97.3		7.3		6.6		7			
IM4	Fine	Rough	14:40	7.5	Surface	1.0	0.1	139	20.1	20.1	8.1	8.1	31.8	31.8	99.3	99.3	7.5	7.5	7.0	8.5	6	7	819732	804600
						1.0	0.1	139	20.1		8.1		31.8		99.3		7.5		7.0		5			
					Middle	3.8	0.1	198	20.0	20.0	8.1	8.1	32.3	32.3	98.4	98.4	7.4		8.9		8			
						3.8	0.1	199	20.0		8.1		32.3		98.4		7.4		9.0		7			
					Bottom	6.5	0.2	192	20.1	20.1	8.1	8.1	32.6	32.6	98.0	98.0	7.4	7.4	9.5		8			
						6.5	0.2	209	20.1		8.1		32.6		98.0		7.4		9.5		7			
IM5	Fine	Rough	14:34	7.9	Surface	1.0	0.1	168	20.1	20.1	8.1	8.1	31.9	31.9	99.7	99.7	7.5	7.5	7.2	8.4	8	10	820726	804866
						1.0	0.1	171	20.1		8.1		31.9		99.7		7.5		7.3		7			
					Middle	4.0	0.2	184	20.0	20.0	8.1	8.1	32.3	32.3	98.7	98.7	7.4		9.2		9			
						4.0	0.2	189	20.0		8.1		32.3		98.7		7.4		9.1		10			
					Bottom	6.9	0.2	191	20.1	20.1	8.1	8.1	32.4	32.4	99.0	99.0	7.4	7.4	8.9		12			
						6.9	0.2	204	20.1		8.1		32.4		99.0		7.4		8.9		13			
IM6	Fine	Rough	14:26	7.6	Surface	1.0	0.2	146	20.0	20.0	8.1	8.1	32.2	32.2	98.6	98.6	7.4	7.4	8.8	9.3	7	9	821080	805838
						1.0	0.2	153	20.0		8.1		32.2		98.6		7.4		8.8		8			
					Middle	3.8	0.2	162	20.0	20.0	8.1	8.1	32.3	32.3	98.5	98.5	7.4		9.4		8			
						3.8	0.2	168	20.0		8.1		32.4		98.5		7.4		9.4		7			
					Bottom	6.6	0.2	184	20.1	20.1	8.1	8.1	32.4	32.4	99.3	99.4	7.5	7.5	9.8		13			
						6.6	0.2	198	20.1		8.1		32.4		99.5		7.5		9.8		12			
IM7	Fine	Rough	14:20	8.4	Surface	1.0	0.3	108	20.1	20.1	8.1	8.1	32.6	32.6	99.4	99.4	7.4	7.4	9.9	10.5	7	9	821338	806819
						1.0	0.3	116	20.1		8.1		32.6		99.4		7.4		9.9		7			
					Middle	4.2	0.3	111	20.1	20.1	8.1	8.1	32.6	32.6	99.4	99.4	7.4		10.3		8			
						4.2	0.3	118	20.1		8.1		32.6		99.4		7.4		10.3		7			
					Bottom	7.4	0.2	117	20.1	20.1	8.1	8.1	32.6	32.6	100.1	100.1	7.5	7.5	11.4		12			
						7.4	0.2	117	20.1		8.1		32.6		100.1		7.5		11.4		12			
IM8	Cloudy	Moderate	15:00	7.8	Surface	1.0	0.3	113	19.2	19.2	8.2	8.2	30.9	30.9	90.1	90.1	6.9	6.9	6.8	10.2	6	6	821823	808144
						1.0	0.3	119	19.2		8.2		30.9		90.1		6.9		6.8		5			
					Middle	3.9	0.2	123	19.3	19.4	8.2	8.2	31.4	31.5	90.2	90.2	6.9		11.9		6			
						3.9	0.2	127	19.4		8.2		31.5		90.2		6.9		11.6		6			
					Bottom	6.8	0.3	133	19.5	19.5	8.2	8.2	31.9	31.9	90.4	90.4	6.9	6.9	12.1		6			
						6.8	0.3	137	19.5		8.2		31.9		90.4		6.9		12.2		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 06 January 22 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)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA		
IM9	Cloudy	Moderate	15:06	7.5	Surface	1.0	0.2	120	19.4	19.4	8.1	8.1	30.9	30.9	91.8	91.8	7.0	7.1	10.6	8.8	5	5	822096	808811
						1.0	0.2	129	19.4		8.1		30.9		91.8		7.0		10.3		5			
					Middle	3.8	0.2	141	19.3	19.3	8.1	8.1	30.9	30.9	91.8	91.8	7.1		7.3		5			
						3.8	0.2	149	19.3		8.1		30.9		91.8		7.1		7.4		5			
					Bottom	6.5	0.3	146	19.2	19.2	8.1	8.1	30.9	30.9	92.4	92.5	7.1	7.1	8.4		5			
						6.5	0.3	147	19.2		8.1		30.9		92.5		7.1		8.9		6			
IM10	Cloudy	Moderate	15:12	7.3	Surface	1.0	0.2	152	19.5	19.5	8.2	8.2	31.6	31.6	91.1	91.0	6.9	6.9	7.8	9.5	6	5	822371	809802
						1.0	0.2	154	19.4		8.2		31.6		90.9		6.9		8.0		5			
					Middle	3.7	0.2	158	19.3	19.3	8.2	8.2	31.7	31.7	90.6	90.7	6.9		9.7		5			
						3.7	0.2	165	19.3		8.2		31.7		90.7		6.9		9.8		6			
					Bottom	6.3	0.3	167	19.3	19.4	8.2	8.2	31.7	31.7	91.2	91.3	7.0	7.0	10.7		5			
						6.3	0.3	173	19.4		8.2		31.7		91.3		7.0		10.9		4			
IM11	Cloudy	Moderate	15:23	8.5	Surface	1.0	0.1	148	19.4	19.4	8.2	8.2	31.6	31.6	90.6	90.6	6.9	6.9	9.7	12.3	5	6	822039	811469
						1.0	0.1	162	19.4		8.2		31.6		90.6		6.9		9.7		5			
					Middle	4.3	0.1	156	19.3	19.3	8.2	8.2	31.6	31.6	90.3	90.3	6.9		11.3		6			
						4.3	0.1	159	19.3		8.2		31.6		90.3		6.9		11.7		5			
					Bottom	7.5	0.2	160	19.3	19.3	8.2	8.2	31.6	31.6	90.6	90.7	6.9	6.9	15.8		8			
						7.5	0.2	168	19.3		8.2		31.6		90.7		6.9		15.5		8			
IM12	Cloudy	Moderate	15:31	8.8	Surface	1.0	0.2	161	19.4	19.4	8.2	8.2	31.7	31.7	90.9	90.9	6.9	7.0	10.7	12.3	5	6	821480	812057
						1.0	0.2	174	19.4		8.2		31.7		90.9		6.9		10.9		6			
					Middle	4.4	0.1	162	19.4	19.4	8.2	8.2	31.7	31.7	91.3	91.4	7.0		11.7		6			
						4.4	0.1	175	19.4		8.2		31.7		91.5		7.0		12.0		5			
					Bottom	7.8	0.2	172	19.3	19.3	8.2	8.2	31.7	31.7	92.2	92.3	7.0	7.1	14.2		5			
						7.8	0.2	177	19.3		8.2		31.7		92.4		7.1		14.6		6			
SR1A	Cloudy	Moderate	15:58	5.1	Surface	1.0	-	-	19.6	19.6	8.2	8.2	31.9	31.9	91.4	91.4	6.9	6.9	6.3	6.4	3	4	819981	812664
						1.0	-	-	19.6		8.2		31.9		91.4		6.9		6.4		4			
					Middle	2.6	-	-	-	-	-	-	-	-	-	-	-		-		-			
						2.6	-	-	-		-		-		-		-		-		-			
					Bottom	4.1	-	-	19.6	19.6	8.2	8.2	31.9	31.9	91.8	91.9	7.0	7.0	6.6		3			
						4.1	-	-	19.6		8.2		31.9		92.0		7.0		6.5		4			
SR2	Cloudy	Moderate	16:12	3.9	Surface	1.0	0.2	135	19.5	19.5	8.2	8.2	31.6	31.6	92.2	92.3	7.0	7.0	7.4	7.6	6	6	821447	814165
						1.0	0.2	145	19.5		8.2		31.7		92.3		7.0		7.4		7			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	2.9	0.2	159	19.5	19.5	8.2	8.2	31.6	31.6	92.4	92.5	7.0	7.0	7.8		6			
						2.9	0.2	168	19.5		8.2		31.6		92.5		7.0		7.8		6			
SR3	Cloudy	Moderate	14:55	8.8	Surface	1.0	0.3	150	19.6	19.6	8.2	8.2	31.1	31.1	92.3	92.3	7.0	7.0	9.0	12.6	6	5	822167	807579
						1.0	0.3	158	19.6		8.2		31.2		92.2		7.0		9.3		6			
					Middle	4.4	0.2	155	19.6	19.6	8.2	8.2	31.6	31.6	91.9	91.9	7.0		12.8		5			
						4.4	0.2	170	19.6		8.2		31.6		91.9		7.0		12.8		5			
					Bottom	7.8	0.2	162	19.6	19.6	8.2	8.2	31.8	31.8	92.0	92.1	7.0	7.0	15.8		5			
						7.8	0.2	172	19.6		8.2		31.8		92.1		7.0		15.7		5			
SR4A	Fine	Rough	15:37	10.1	Surface	1.0	0.3	49	20.2	20.2	8.1	8.1	32.5	32.5	100.7	100.7	7.5	7.5	7.9	9.1	6	7	817203	807825
						1.0	0.4	52	20.2		8.1		32.5		100.7		7.5		7.9		7			
					Middle	5.1	0.3	47	20.1	20.1	8.1	8.1	32.5	32.5	99.4	99.4	7.5		8.6		7			
						5.1	0.3	51	20.1		8.1		32.5		99.4		7.5		8.7		6			
					Bottom	9.1	0.2	49	20.1	20.1	8.1	8.1	32.5	32.5	99.5	99.6	7.5	7.5	10.6		7			
						9.1	0.2	52	20.1		8.1		32.5		99.6		7.5		10.7		7			
SR5A	Fine	Moderate	15:51	4.7	Surface	1.0	0.1	81	20.4	20.4	8.1	8.1	32.8	32.8	98.6	98.6	7.3	7.3	5.2	6.5	7	8	816599	810696
						1.0	0.1	81	20.4		8.1		32.8		98.6		7.3		5.2		8			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.7	0.1	94	20.3	20.3	8.1	8.1	32.8	32.8	98.9	99.0	7.4	7.4	7.9		9			
						3.7	0.1	100	20.3		8.1		32.8		99.1		7.4		7.9		8			
SR6A	Fine	Moderate	16:17	4.9	Surface	1.0	0.1	182	20.7	20.7	8.1	8.1	32.5	32.5	102.1	102.1	7.6	7.6	6.7	8.2	9	8	817970	814726
						1.0	0.1	187	20.7		8.1		32.5		102.1		7.6		6.8		8			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.9	0.0	175	20.2	20.2	8.2	8.2	32.7	32.7	98.0	98.1	7.3	7.3	9.7		7			
						3.9	0.0	181	20.2		8.2		32.7		98.1		7.3		9.7		8			
SR7	Cloudy	Moderate	17:01	16.4	Surface	1.0	0.3	99	19.3	19.3	8.2	8.2	32.6	32.6	85.5	85.5	6.5	6.6	3.6	4.4	6	6	823638	823725
						1.0	0.3	103	19.3		8.2		32.6		85.5		6.5		3.7		6			
					Middle	8.2	0.2	107	19.3	19.3	8.2	8.2	32.6	32.6	86.3	86.5	6.6		4.6		6			
						8.2	0.2	113	19.3		8.2		32.6		86.6		6.6		4.7		5			
					Bottom	15.4	0.3	141	19.3	19.3	8.2	8.2	32.6	32.6	88.3	88.5	6.7	6.7	4.9		5			
						15.4	0.3	149	19.3		8.2		32.6		88.6		6.7		5.0		6			
SR8	Cloudy	Moderate	15:38	4.0	Surface	1.0	-	-	19.7	19.7	8.2	8.2	31.5	31.5	92.4	92.4	7.0	7.0	7.0	6.9	7	7	820408	811637
						1.0	-	-	19.7		8.2		31.5		92.3		7.0		7.0		8			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.0	-	-	19.6	19.6	8.2	8.2	31.5	31.5	92.6	92.7	7.0	7.1	6.7		6			
						3.0	-	-	19.6		8.2		31.5		92.7		7.1		6.7		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 06 January 22 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	Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)
C1	Sunny	Rough	11:09	7.1	Surface	1.0	0.5	55	19.9	19.9	8.1	8.1	32.4	32.4	99.2	99.2	7.5	7.5	6.0	8.1	14	9	815620	804226
						1.0	0.5	57	19.9		8.1		32.4		99.2		7.5		6.0		14			
					Middle	3.6	0.5	49	19.9	19.9	8.1	8.1	32.5	32.5	98.3	98.3	7.4		8.3		6			
						3.6	0.5	52	19.9		8.1		32.5		98.3		7.4		8.3		7			
					Bottom	6.1	0.4	52	19.9	19.9	8.1	8.1	32.6	32.6	98.4	98.5	7.4	7.4	9.9		6			
						6.1	0.4	56	19.9		8.1		32.6		98.5		7.4		9.9		6			
C2	Cloudy	Moderate	12:08	12.1	Surface	1.0	0.5	37	19.4	19.4	8.1	8.1	30.4	30.4	92.8	92.7	7.1	7.1	4.3	7.5	4	5	825696	806959
						1.0	0.5	39	19.4		8.1		30.4		92.6		7.1		4.4		5			
					Middle	6.1	0.5	41	19.2	19.2	8.1	8.1	30.7	30.7	90.7	90.8	7.0		5.4		4			
						6.1	0.5	43	19.2		8.1		30.7		90.8		7.0		5.4		5			
					Bottom	11.1	0.5	22	19.3	19.3	8.1	8.1	31.1	31.1	92.2	92.3	7.1	7.1	12.9		5			
						11.1	0.5	22	19.3		8.1		31.1		92.4		7.1		12.9		6			
C3	Cloudy	Moderate	10:11	10.7	Surface	1.0	0.4	222	19.3	19.3	8.1	8.1	31.8	31.8	89.2	89.2	6.8	6.8	4.9	7.5	6	5	822094	817819
						1.0	0.4	241	19.3		8.1		31.8		89.1		6.8		4.9		5			
					Middle	5.4	0.4	249	19.2	19.2	8.1	8.1	31.9	31.9	88.1	88.1	6.7		7.6		5			
						5.4	0.4	251	19.2		8.1		31.9		88.1		6.7		7.9		5			
					Bottom	9.7	0.3	218	19.2	19.2	8.1	8.1	31.9	31.9	87.2	87.2	6.7	6.7	9.9		4			
						9.7	0.3	224	19.2		8.1		31.9		87.1		6.7		9.9		4			
IM1	Sunny	Moderate	11:25	4.8	Surface	1.0	0.1	355	20.2	20.2	8.1	8.1	32.7	32.7	100.4	100.4	7.5	7.5	10.3	10.8	7	7	817950	807130
						1.0	0.1	327	20.2		8.1		32.7		100.4		7.5		10.4		7			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.8	0.1	349	20.0	20.0	8.1	8.1	32.9	32.8	100.7	100.8	7.6	7.6	11.3		7			
						3.8	0.1	321	20.0		8.1		32.8		100.8		7.6		11.3		8			
IM2	Sunny	Moderate	11:33	6.7	Surface	1.0	0.3	17	20.1	20.1	8.1	8.1	32.4	32.4	97.9	97.9	7.3	7.3	7.6	8.9	7	7	818185	806149
						1.0	0.3	18	20.1		8.1		32.4		97.9		7.3		7.6		6			
					Middle	3.4	0.2	17	19.9	19.9	8.1	8.1	32.4	32.4	97.3	97.3	7.3		8.6		7			
						3.4	0.2	18	19.9		8.1		32.4		97.3		7.3		8.7		8			
					Bottom	5.7	0.2	5	19.9	19.9	8.1	8.1	32.4	32.4	97.3	97.3	7.3	7.3	10.5		7			
						5.7	0.3	5	19.9		8.1		32.4		97.3		7.3		10.6		8			
IM3	Sunny	Moderate	11:41	6.9	Surface	1.0	0.3	357	19.8	19.9	8.1	8.1	32.3	32.3	96.2	96.2	7.3	7.3	6.7	6.7	7	9	818777	805572
						1.0	0.3	328	19.9		8.1		32.3		96.2		7.3		6.7		8			
					Middle	3.5	0.3	1	19.8	19.8	8.1	8.1	32.3	32.3	96.1	96.1	7.3		5.9		8			
						3.5	0.3	1	19.8		8.1		32.3		96.1		7.3		5.8		9			
					Bottom	5.9	0.2	349	19.8	19.8	8.1	8.1	32.3	32.3	96.3	96.3	7.3	7.3	7.7		10			
						5.9	0.2	321	19.8		8.1		32.3		96.3		7.3		7.7		11			
IM4	Sunny	Rough	11:51	7.8	Surface	1.0	0.5	354	20.0	20.0	8.1	8.1	32.3	32.3	97.3	97.2	7.3	7.3	7.5	8.7	6	8	819744	804609
						1.0	0.6	326	20.0		8.1		32.3		97.1		7.3		7.6		7			
					Middle	3.9	0.5	352	19.8	19.8	8.0	8.0	32.3	32.3	95.6	95.6	7.2		8.8		7			
						3.9	0.5	355	19.8		8.0		32.3		95.6		7.2		8.8		8			
					Bottom	6.8	0.4	353	19.8	19.8	8.0	8.0	32.3	32.3	95.8	95.8	7.2	7.2	9.6		7			
						6.8	0.4	359	19.8		8.0		32.3		95.8		7.2		9.6		11			
IM5	Sunny	Rough	11:58	8.3	Surface	1.0	0.8	349	19.9	19.9	8.1	8.1	32.2	32.2	97.1	97.1	7.3	7.3	9.0	9.7	7	9	820730	804847
						1.0	0.8	321	19.9		8.1		32.2		97.1		7.3		9.0		8			
					Middle	4.2	0.7	352	19.9	19.9	8.1	8.1	32.3	32.3	96.6	96.6	7.3		9.4		10			
						4.2	0.8	359	19.9		8.1		32.3		96.6		7.3		9.4		9			
					Bottom	7.3	0.6	356	19.8	19.8	8.1	8.1	32.3	32.3	96.6	96.6	7.3	7.3	10.6		9			
						7.3	0.7	328	19.8		8.1		32.3		96.6		7.3		10.6		9			
IM6	Sunny	Rough	12:05	7.2	Surface	1.0	0.1	349	20.1	20.1	8.0	8.0	31.8	31.8	99.4	99.4	7.5	7.5	6.6	8.3	8	8	821036	805827
						1.0	0.1	321	20.1		8.0		31.8		99.4		7.5		6.6		8			
					Middle	3.6	0.1	24	20.0	20.0	8.1	8.1	32.2	32.2	98.3	98.3	7.4		8.6		8			
						3.6	0.1	26	20.0		8.1		32.2		98.3		7.4		8.6		9			
					Bottom	6.2	0.2	44	20.1	20.1	8.1	8.1	32.6	32.6	98.2	98.2	7.4	7.4	9.7		9			
						6.2	0.2	45	20.1		8.1		32.6		98.2		7.4		9.7		8			
IM7	Sunny	Rough	12:12	7.3	Surface	1.0	0.1	118	20.2	20.2	8.1	8.1	32.7	32.7	100.3	100.3	7.5	7.5	12.2	12.8	8	8	821341	806828
						1.0	0.1	128	20.2		8.1		32.7		100.3		7.5		12.1		9			
					Middle	3.7	0.1	134	20.2	20.2	8.1	8.1	32.7	32.7	99.9	99.9	7.5		13.7		8			
						3.7	0.1	140	20.2		8.1		32.7		99.9		7.5		13.7		7			
					Bottom	6.3	0.1	126	20.1	20.1	8.1	8.1	32.7	32.7	99.9	99.9	7.5	7.5	12.7		7			
						6.3	0.1	135	20.1		8.1		32.7		99.9		7.5		12.7		8			
IM8	Cloudy	Moderate	11:43	7.6	Surface	1.0	0.2	269	19.4	19.4	8.1	8.1	30.9	30.9	91.2	91.2	7.0	7.0	6.5	9.0	5	5	821845	808163
						1.0	0.2	284	19.4		8.1		30.9		91.2		7.0		6.4		6			
					Middle	3.8	0.2	278	19.2	19.2	8.1	8.1	30.9	30.9	90.6	90.6	7.0		8.5		5			
						3.8	0.2	296	19.2		8.1		30.9		90.6		7.0		8.7		6			
					Bottom	6.6	0.2	303	19.2	19.2	8.1	8.1	31.0	31.0	91.5	91.6	7.0	7.0	11.9		5			
						6.6	0.2	315	19.2		8.1		31.0		91.6		7.0		11.9		5			

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

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 06 January 22 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	Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)
IM9	Cloudy	Moderate	11:38	7.1	Surface	1.0	0.2	250	19.3	19.3	8.1	8.1	31.0	31.0	90.7	90.7	7.0	7.0	7.7	9.5	5	5	822074	808793
						1.0	0.2	262	19.3		8.1		31.0		90.6		7.0		7.8		4			
					Middle	3.6	0.2	266	19.2	19.2	8.1	8.1	31.0	31.0	90.3	90.3	6.9		10.0		5			
						3.6	0.2	290	19.2		8.1		31.0		90.3		6.9		10.0		4			
					Bottom	6.1	0.2	271	19.2	19.2	8.1	8.1	31.0	31.0	90.7	90.7	7.0	7.0	10.8		4			
						6.1	0.2	273	19.2		8.1		31.0		90.7		7.0		10.8		5			
IM10	Cloudy	Moderate	11:31	8.1	Surface	1.0	0.3	244	19.4	19.4	8.2	8.2	31.2	31.2	91.6	91.5	7.0	7.0	7.4	12.7	5	6	822367	809792
						1.0	0.3	257	19.4		8.2		31.2		91.4		7.0		7.4		5			
					Middle	4.1	0.2	251	19.2	19.2	8.2	8.2	31.4	31.4	90.1	90.2	6.9		13.2		6			
						4.1	0.2	272	19.2		8.2		31.4		90.2		6.9		14.9		5			
					Bottom	7.1	0.2	263	19.2	19.2	8.2	8.2	31.4	31.4	91.4	91.5	7.0	7.0	16.3		6			
						7.1	0.2	281	19.2		8.2		31.4		91.5		7.0		16.9		6			
IM11	Cloudy	Moderate	11:22	8.0	Surface	1.0	0.2	301	19.3	19.3	8.2	8.2	31.5	31.5	90.7	90.7	6.9	6.9	10.8	11.6	4	5	822056	811437
						1.0	0.2	305	19.3		8.2		31.5		90.6		6.9		11.1		5			
					Middle	4.0	0.2	322	19.2	19.2	8.2	8.2	31.6	31.6	89.9	89.9	6.9		11.6		4			
						4.0	0.2	335	19.2		8.2		31.6		89.9		6.9		11.1		5			
					Bottom	7.0	0.2	298	19.2	19.2	8.2	8.2	31.6	31.6	90.3	90.4	6.9	6.9	12.2		6			
						7.0	0.2	309	19.2		8.2		31.6		90.4		6.9		12.6		6			
IM12	Cloudy	Moderate	11:17	8.7	Surface	1.0	0.1	321	19.3	19.3	8.2	8.2	31.6	31.6	89.9	89.9	6.9	6.9	11.0	12.5	6	6	821449	812052
						1.0	0.1	332	19.3		8.2		31.6		89.9		6.9		10.7		7			
					Middle	4.4	0.1	341	19.2	19.2	8.2	8.2	31.6	31.6	89.7	89.7	6.9		11.8		5			
						4.4	0.1	351	19.2		8.2		31.6		89.6		6.9		11.2		6			
					Bottom	7.7	0.1	335	19.2	19.2	8.2	8.2	31.6	31.6	88.8	88.8	6.8	6.8	15.1		5			
						7.7	0.1	308	19.2		8.2		31.6		88.8		6.8		15.1		6			
SR1A	Cloudy	Moderate	10:46	5.2	Surface	1.0	-	-	19.4	19.4	8.2	8.2	31.9	31.9	88.8	88.8	6.8	6.8	9.6	12.7	4	4	819975	812660
						1.0	-	-	19.4		8.2		31.9		88.7		6.8		10.3		5			
					Middle	2.6	-	-	-	-	-	-	-	-	-	-	-		-		-			
						2.6	-	-	-		-		-		-		-		-		-			
					Bottom	4.2	-	-	19.4	19.4	8.2	8.2	31.8	31.8	88.4	88.4	6.7	6.7	15.3		4			
						4.2	-	-	19.4		8.2		31.8		88.4		6.7		15.6		4			
SR2	Cloudy	Moderate	10:30	4.4	Surface	1.0	0.2	219	19.2	19.2	8.2	8.2	31.6	31.6	90.3	90.3	6.9	6.9	13.2	12.7	5	5	821476	814142
						1.0	0.2	237	19.2		8.2		31.6		90.3		6.9		13.4		5			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.4	0.2	241	19.2	19.2	8.2	8.2	31.6	31.6	91.7	91.8	7.0	7.0	11.9		5			
						3.4	0.2	253	19.2		8.2		31.6		91.8		7.0		12.2		5			
SR3	Cloudy	Moderate	11:49	8.8	Surface	1.0	0.4	23	19.3	19.3	8.1	8.1	30.7	30.7	90.8	90.8	7.0	7.0	7.8	10.4	5	5	822154	807573
						1.0	0.4	23	19.2		8.1		30.7		90.8		7.0		8.0		6			
					Middle	4.4	0.4	47	19.1	19.1	8.1	8.1	30.7	30.7	90.2	90.2	7.0		11.2		5			
						4.4	0.4	50	19.1		8.1		30.8		90.2		7.0		11.0		6			
					Bottom	7.8	0.5	52	19.1	19.1	8.1	8.1	30.8	30.8	91.0	91.1	7.0	7.0	12.2		5			
						7.8	0.5	56	19.1		8.1		30.8		91.1		7.0		12.1		5			
SR4A	Sunny	Moderate	10:50	9.9	Surface	1.0	0.3	65	20.1	20.1	8.1	8.1	32.8	32.8	98.7	98.7	7.4	7.4	9.7	10.0	18	15	817199	807826
						1.0	0.3	67	20.1		8.1		32.8		98.7		7.4		9.8		17			
					Middle	5.0	0.3	58	20.0	20.0	8.1	8.1	32.8	32.8	98.8	98.8	7.4		9.9		13			
						5.0	0.3	63	20.0		8.1		32.8		98.8		7.4		9.9		14			
					Bottom	8.9	0.3	62	20.0	20.0	8.1	8.1	32.8	32.8	98.9	98.9	7.4	7.4	10.4		13			
						8.9	0.3	64	20.0		8.1		32.8		98.9		7.4		10.5		12			
SR5A	Sunny	Moderate	10:33	3.7	Surface	1.0	0.1	19	20.0	20.0	8.0	8.0	32.8	32.8	96.3	96.3	7.2	7.2	12.3	12.7	16	15	816602	810677
						1.0	0.1	20	20.0		8.0		32.8		96.3		7.2		12.3		15			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	2.7	0.1	28	20.0	20.0	8.0	8.0	32.8	32.8	96.3	96.3	7.2	7.2	13.0		15			
						2.7	0.1	29	20.0		8.0		32.8		96.3		7.2		13.1		14			
SR6A	Sunny	Moderate	10:05	3.9	Surface	1.0	0.1	273	20.0	20.0	8.0	8.0	32.7	32.7	96.1	96.1	7.2	7.2	8.6	10.3	16	16	817985	814746
						1.0	0.1	287	20.0		8.0		32.7		96.1		7.2		8.7		15			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	2.9	0.1	280	19.9	19.9	8.0	8.0	32.7	32.7	95.5	95.5	7.2	7.2	11.9		15			
						2.9	0.1	287	19.9		8.0		32.7		95.5		7.2		11.9		16			
SR7	Cloudy	Moderate	09:44	16.5	Surface	1.0	0.4	181	19.2	19.2	8.1	8.1	32.1	32.1	87.8	87.8	6.7	6.7	12.8	12.6	5	5	823645	823754
						1.0	0.4	198	19.2		8.1		32.1		87.8		6.7		12.8		4			
					Middle	8.3	0.5	190	19.2	19.2	8.1	8.1	32.1	32.1	87.8	87.8	6.7		11.7		5			
						8.3	0.5	201	19.2		8.1		32.1		87.8		6.7		12.4		5			
					Bottom	15.5	0.5	187	19.2	19.2	8.1	8.1	32.1	32.1	87.8	87.8	6.7	6.7	12.9		5			
						15.5	0.5	188	19.2		8.1		32.1		87.8		6.7		12.9		5			
SR8	Cloudy	Moderate	11:09	4.8	Surface	1.0	-	-	19.3	19.3	8.2	8.2	31.4	31.4	87.0	86.9	6.7	6.7	7.6	10.3	5	5	820405	811617
						1.0	-	-	19.3		8.2		31.4		86.8		6.7		7.7		5			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.8	-	-	19.2	19.2	8.2	8.2	31.6	31.6	84.8	84.7	6.5	6.5	12.8		5			
						3.8	-	-	19.2		8.2		31.6		84.5		6.5		13.0		4			

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

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 08 January 22 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)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA		
C1	Cloudy	Moderate	17:23	8.3	Surface	1.0	0.3	252	20.5	20.5	8.1	8.1	30.6	30.6	94.4	94.4	7.1	7.0	5.3	6.5	17	22	815629	804265
						1.0	0.3	259	20.5		8.1		30.6		94.4		7.1		5.3		17			
					Middle	4.2	0.3	230	20.3	20.3	8.1	8.1	30.9	30.9	91.3	91.3	6.9		6.6		20			
						4.2	0.3	246	20.3		8.1		30.9		91.3		6.9		6.6		20			
					Bottom	7.3	0.3	225	20.3	20.3	8.1	8.1	31.2	31.2	91.1	91.1	6.9	6.9	7.4		30			
						7.3	0.3	241	20.3		8.1		31.2		91.1		6.9		7.5		29			
C2	Cloudy	Moderate	19:14	11.5	Surface	1.0	0.3	162	19.2	19.2	8.1	8.1	30.8	30.8	89.8	89.9	6.9	7.0	6.3	7.5	14	17	825688	806944
						1.0	0.3	171	19.2		8.1		30.8		89.9		6.9		6.4		13			
					Middle	5.8	0.3	171	19.3	19.3	8.1	8.1	30.9	30.9	90.6	90.7	7.0		7.8		17			
						5.8	0.3	172	19.3		8.1		30.9		90.7		7.0		7.9		18			
					Bottom	10.5	0.2	194	19.3	19.3	8.1	8.1	30.9	30.9	91.8	91.9	7.1	7.1	8.4		21			
						10.5	0.2	196	19.3		8.1		30.9		92.0		7.1		8.5		21			
C3	Cloudy	Moderate	16:45	12.1	Surface	1.0	0.6	71	19.2	19.2	8.1	8.1	31.7	31.7	88.4	88.5	6.8	6.8	9.1	16.3	13	11	822094	817815
						1.0	0.6	75	19.2		8.1		31.7		88.5		6.8		9.5		13			
					Middle	6.1	0.3	82	19.2	19.2	8.1	8.1	31.8	31.8	88.6	88.7	6.8		10.1		11			
						6.1	0.4	84	19.2		8.1		31.8		88.7		6.8		10.1		11			
					Bottom	11.1	0.3	86	19.2	19.2	8.1	8.1	31.8	31.8	89.5	89.6	6.9	6.9	30.0		9			
						11.1	0.3	86	19.2		8.1		31.8		89.6		6.9		28.8		9			
IM1	Cloudy	Moderate	17:12	5.4	Surface	1.0	0.2	202	20.7	20.7	8.1	8.1	31.3	31.3	92.2	92.3	6.9	6.9	8.4	7.9	27	25	817964	807110
						1.0	0.2	210	20.7		8.1		31.3		92.3		6.9		8.4		26			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	4.4	0.2	223	20.8	20.8	8.1	8.1	31.4	31.4	93.2	93.3	7.0	7.0	7.4		22			
						4.4	0.2	244	20.8		8.1		31.4		93.3		7.0		7.4		23			
IM2	Cloudy	Moderate	17:05	7.2	Surface	1.0	0.4	190	20.6	20.6	8.1	8.1	31.0	31.0	93.1	93.1	7.0	7.0	4.0	6.9	26	22	818171	806178
						1.0	0.4	203	20.6		8.1		31.1		93.1		7.0		4.1		27			
					Middle	3.6	0.3	176	20.5	20.5	8.1	8.1	31.1	31.0	91.5	91.6	6.9		5.6		24			
						3.6	0.3	185	20.5		8.1		31.0		91.6		6.9		5.6		23			
					Bottom	6.2	0.2	151	20.4	20.4	8.0	8.0	31.1	31.1	89.3	89.3	6.7	6.7	10.9		15			
						6.2	0.2	153	20.4		8.0		31.1		89.3		6.7		11.0		14			
IM3	Cloudy	Moderate	16:59	7.5	Surface	1.0	0.2	200	20.6	20.6	8.1	8.1	31.0	31.0	93.7	93.7	7.1	7.0	3.9	4.2	22	17	818772	805612
						1.0	0.2	213	20.6		8.1		31.0		93.7		7.1		3.9		22			
					Middle	3.8	0.2	206	20.5	20.5	8.1	8.1	31.1	31.1	91.0	91.0	6.9		4.0		18			
						3.8	0.2	207	20.5		8.1		31.1		91.0		6.9		4.1		17			
					Bottom	6.5	0.1	136	20.4	20.4	8.1	8.1	31.2	31.2	89.3	89.3	6.7	6.7	4.6		12			
						6.5	0.1	138	20.4		8.1		31.2		89.3		6.7		4.6		12			
IM4	Cloudy	Moderate	16:40	8.1	Surface	1.0	0.4	184	20.6	20.6	8.0	8.0	30.6	30.6	91.3	91.3	6.9	6.9	5.0	6.5	11	13	819732	804599
						1.0	0.4	201	20.6		8.0		30.6		91.3		6.9		5.0		11			
					Middle	4.1	0.3	179	20.5	20.5	8.0	8.0	31.1	31.1	90.4	90.4	6.8		6.9		13			
						4.1	0.3	186	20.5		8.0		31.1		90.4		6.8		7.0		13			
					Bottom	7.1	0.3	188	20.6	20.6	8.0	8.0	31.4	31.4	90.0	90.0	6.8	6.8	7.5		15			
						7.1	0.3	201	20.6		8.0		31.4		90.0		6.8		7.5		14			
IM5	Cloudy	Moderate	16:34	7.7	Surface	1.0	0.2	241	20.6	20.6	8.0	8.0	30.7	30.7	91.7	91.7	6.9	6.9	5.2	6.4	8	10	820715	804870
						1.0	0.2	244	20.6		8.0		30.7		91.7		6.9		5.3		7			
					Middle	3.9	0.1	162	20.5	20.5	8.0	8.0	31.1	31.1	90.7	90.7	6.8		7.2		10			
						3.9	0.1	164	20.5		8.0		31.1		90.7		6.8		7.1		10			
					Bottom	6.7	0.1	124	20.6	20.6	8.0	8.0	31.2	31.2	91.0	91.0	6.8	6.8	6.9		11			
						6.7	0.1	125	20.6		8.0		31.2		91.0		6.8		6.9		11			
IM6	Cloudy	Moderate	16:26	7.8	Surface	1.0	0.2	161	20.5	20.5	8.0	8.0	31.0	31.0	90.6	90.6	6.8	6.8	6.8	7.3	9	11	821041	805825
						1.0	0.2	170	20.5		8.0		31.0		90.6		6.8		6.8		9			
					Middle	3.9	0.3	125	20.5	20.5	8.0	8.0	31.1	31.1	90.5	90.5	6.8		7.4		11			
						3.9	0.3	134	20.5		8.0		31.2		90.5		6.8		7.4		11			
					Bottom	6.8	0.2	98	20.6	20.6	8.0	8.0	31.2	31.2	91.3	91.4	6.9	6.9	7.8		12			
						6.8	0.2	107	20.6		8.0		31.2		91.5		6.9		7.8		12			
IM7	Cloudy	Moderate	16:20	8.3	Surface	1.0	0.1	255	20.6	20.6	8.1	8.1	31.4	31.4	91.4	91.4	6.9	6.9	7.9	8.5	12	11	821361	806855
						1.0	0.1	278	20.6		8.1		31.4		91.4		6.9		7.9		11			
					Middle	4.2	0.1	189	20.6	20.6	8.1	8.1	31.4	31.4	91.4	91.4	6.9		8.3		11			
						4.2	0.1	199	20.6		8.1		31.4		91.4		6.9		8.3		11			
					Bottom	7.3	0.2	181	20.6	20.6	8.1	8.1	31.4	31.4	92.1	92.1	6.9	6.9	9.4		10			
						7.3	0.2	181	20.6		8.1		31.4		92.1		6.9		9.4		10			
IM8	Cloudy	Moderate	18:02	7.7	Surface	1.0	0.2	109	19.2	19.2	8.1	8.1	30.8	30.8	90.7	90.8	7.0	7.1	15.9	16.4	10	7	821831	808123
						1.0	0.2	114	19.2		8.1		30.8		90.8		7.0		16.0		9			
					Middle	3.9	0.2	91	19.2	19.2	8.1	8.1	30.8	30.8	92.6	92.9	7.1		16.2		7			
						3.9	0.3	93	19.2		8.1		30.8		93.2		7.2		14.9		7			
					Bottom	6.7	0.2	59	19.2	19.2	8.2	8.2	30.8	30.8	94.3	94.5	7.3	7.3	18.1		5			
						6.7	0.3	64	19.2		8.2		30.8		94.6		7.3		17.3		5			

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

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 08 January 22 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)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA		
IM9	Cloudy	Moderate	17:31	7.6	Surface	1.0	0.5	100	19.2	19.2	8.1	8.1	30.8	30.8	90.2	90.2	6.9	7.0	10.2	15.7	11	9	822098	808795
						1.0	0.5	100	19.2		8.1		30.8		90.2		6.9		10.3		11			
					Middle	3.8	0.5	89	19.2	19.2	8.1	8.1	30.8	30.8	91.1	91.2	7.0		13.3		9			
						3.8	0.5	91	19.2		8.1		30.9		91.3		7.0		13.1		9			
					Bottom	6.6	0.4	72	19.1	19.1	8.1	8.1	30.9	30.8	93.8	93.9	7.2	7.2	24.5		8			
						6.6	0.4	72	19.1		8.1		30.8		94.0		7.2		22.9		8			
IM10	Cloudy	Moderate	17:20	8.0	Surface	1.0	0.8	114	19.1	19.1	8.1	8.1	30.9	30.9	90.6	90.6	7.0	7.0	6.6	16.6	14	12	822391	809779
						1.0	0.8	123	19.1		8.1		30.9		90.6		7.0		6.5		14			
					Middle	4.0	0.7	110	19.2	19.2	8.1	8.1	30.9	30.9	89.0	89.0	6.9		8.5		12			
						4.0	0.8	118	19.2		8.1		30.9		89.0		6.9		8.5		12			
					Bottom	7.0	0.5	98	19.2	19.2	8.1	8.1	31.1	31.1	90.2	90.4	6.9	7.0	34.9		9			
						7.0	0.5	107	19.2		8.1		31.1		90.5		7.0		34.7		9			
IM11	Cloudy	Moderate	17:14	7.0	Surface	1.0	0.8	107	19.2	19.2	8.1	8.1	31.3	31.3	89.0	89.0	6.8	6.9	9.6	10.0	8	9	822058	811472
						1.0	0.8	110	19.2		8.1		31.3		89.0		6.8		9.7		6			
					Middle	3.5	0.7	106	19.2	19.2	8.1	8.1	31.3	31.3	89.2	89.3	6.9		10.6		8			
						3.5	0.8	112	19.2		8.1		31.3		89.3		6.9		10.6		9			
					Bottom	6.0	0.4	108	19.2	19.2	8.1	8.1	31.3	31.3	91.0	91.1	7.0	7.0	9.8		10			
						6.0	0.4	115	19.2		8.1		31.3		91.1		7.0		9.9		10			
IM12	Cloudy	Moderate	17:04	8.8	Surface	1.0	0.7	107	19.1	19.1	8.2	8.2	31.4	31.4	89.6	89.6	6.9	6.9	9.3	11.6	8	8	821463	812029
						1.0	0.8	107	19.1		8.2		31.4		89.6		6.9		9.4		8			
					Middle	4.4	0.6	105	19.1	19.1	8.2	8.2	31.4	31.4	89.2	89.2	6.9		13.4		8			
						4.4	0.6	111	19.1		8.2		31.4		89.1		6.9		12.5		7			
					Bottom	7.8	0.3	90	19.1	19.1	8.2	8.2	31.4	31.4	89.0	89.0	6.8	6.8	12.4		7			
						7.8	0.3	97	19.1		8.2		31.4		89.0		6.8		12.4		7			
SR1A	Cloudy	Moderate	16:52	5.4	Surface	1.0	-	-	19.1	19.1	8.1	8.1	31.6	31.6	90.0	90.1	6.9	6.9	8.7	11.1	12	13	819978	812660
						1.0	-	-	19.1		8.1		31.6		90.1		6.9		9.2		11			
					Middle	2.7	-	-	-	-	-	-	-	-	-	-	-		-		-			
						2.7	-	-	-		-		-		-		-		-		-			
					Bottom	4.4	-	-	19.1	19.1	8.1	8.1	31.5	31.5	92.0	92.0	7.1	7.1	13.3		14			
						4.4	-	-	19.1		8.1		31.5		92.0		7.1		13.1		14			
SR2	Cloudy	Moderate	16:51	4.5	Surface	1.0	0.3	67	19.0	19.0	8.2	8.2	31.4	31.4	96.5	96.7	7.4	7.4	15.2	19.1	9	9	821444	814147
						1.0	0.3	69	19.0		8.2		31.4		96.8		7.4		15.8		10			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.5	0.1	27	19.0	19.0	8.2	8.2	31.4	31.4	98.7	99.0	7.6	7.6	22.9		9			
						3.5	0.1	27	19.0		8.2		31.4		99.2		7.6		22.6		9			
SR3	Cloudy	Moderate	18:42	8.2	Surface	1.0	0.2	142	19.1	19.1	8.1	8.1	30.8	30.8	90.8	90.9	7.0	7.1	9.1	19.3	11	13	822126	807556
						1.0	0.2	152	19.1		8.1		30.8		90.9		7.0		9.2		11			
					Middle	4.1	0.2	118	19.1	19.1	8.1	8.1	30.8	30.8	93.4	93.5	7.2		13.5		12			
						4.1	0.2	121	19.1		8.1		30.8		93.6		7.2		13.4		12			
					Bottom	7.2	0.2	80	19.1	19.1	8.1	8.1	30.8	30.8	94.8	95.0	7.3	7.3	36.3		15			
						7.2	0.2	85	19.1		8.1		30.8		95.2		7.3		34.1		14			
SR4A	Cloudy	Moderate	17:37	9.7	Surface	1.0	0.2	76	20.7	20.7	8.1	8.1	31.3	31.3	92.7	92.7	7.0	7.0	5.9	7.1	15	13	817195	807794
						1.0	0.2	81	20.7		8.1		31.3		92.7		7.0		5.9		15			
					Middle	4.9	0.1	79	20.6	20.6	8.1	8.1	31.3	31.3	91.4	91.4	6.9		6.6		13			
						4.9	0.1	83	20.6		8.1		31.3		91.4		6.9		6.7		14			
					Bottom	8.7	0.2	37	20.6	20.6	8.1	8.1	31.3	31.3	91.5	91.6	6.9	6.9	8.6		12			
						8.7	0.2	38	20.6		8.1		31.3		91.6		6.9		8.7		11			
SR5A	Cloudy	Moderate	17:51	3.9	Surface	1.0	0.0	47	20.9	20.9	8.0	8.0	31.6	31.6	90.6	90.6	6.8	6.8	3.2	4.5	15	15	816610	810685
						1.0	0.0	47	20.9		8.0		31.6		90.6		6.8		3.2		15			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	2.9	0.1	343	20.8	20.8	8.0	8.0	31.6	31.6	90.9	91.0	6.8	6.8	5.9		14			
						2.9	0.1	353	20.8		8.0		31.6		91.1		6.8		5.9		14			
SR6A	Cloudy	Moderate	18:17	4.7	Surface	1.0	0.1	344	21.2	21.2	8.1	8.1	31.3	31.3	94.1	94.1	7.0	7.0	4.7	6.2	9	10	817971	814750
						1.0	0.1	316	21.2		8.1		31.3		94.1		7.0		4.8		9			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.7	0.1	15	20.7	20.7	8.1	8.1	31.5	31.5	90.0	90.1	6.7	6.7	7.7		11			
						3.7	0.1	15	20.7		8.1		31.5		90.1		6.7		7.7		11			
SR7	Cloudy	Moderate	16:37	16.4	Surface	1.0	1.1	68	19.1	19.1	7.9	7.9	31.9	31.9	87.2	87.2	6.7	6.7	3.4	7.7	11	10	823618	823734
						1.0	1.1	74	19.1		7.9		31.9		87.2		6.7		3.4		12			
					Middle	8.2	0.6	73	19.2	19.2	7.9	7.9	32.0	32.0	86.4	86.4	6.6		3.9		11			
						8.2	0.7	78	19.2		7.9		32.0		86.4		6.6		3.9		11			
					Bottom	15.4	0.4	16	19.2	19.2	7.9	7.9	32.0	32.0	86.4	86.4	6.6	6.6	15.7		8			
						15.4	0.5	16	19.2		7.9		32.0		86.4		6.6		15.8		8			
SR8	Cloudy	Moderate	16:57	4.6	Surface	1.0	-	-	19.4	19.4	8.2	8.2	31.5	31.5	89.0	88.9	6.8	6.8	6.5	17.7	8	9	820397	811631
						1.0	-	-	19.3		8.2		31.5		88.8		6.8		6.5		8			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.6	-	-	19.0	19.0	8.3	8.3	31.4	31.4	83.0	82.9	6.4	6.4	29.1		10			
						3.6	-	-	19.0		8.3		31.4		82.7		6.4		28.7		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 08 January 22 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)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA		
C1	Cloudy	Moderate	11:39	8.2	Surface	1.0	0.7	42	19.9	19.9	8.0	8.0	31.2	31.2	91.2	91.2	7.0	7.0	4.0	6.1	11	14	815606	804267
						1.0	0.7	43	19.9		8.0		31.2		91.2		7.0		4.0		11			
					Middle	4.1	0.6	34	19.9	19.9	8.0	8.0	31.3	31.3	90.3	90.3	6.9		6.3		15			
						4.1	0.7	35	19.9		8.0		31.3		90.3		6.9		6.3		14			
					Bottom	7.2	0.6	40	19.9	19.9	8.0	8.0	31.4	31.4	90.4	90.5	6.9	6.9	7.9		16			
						7.2	0.7	40	19.9		8.0		31.4		90.5		6.9		7.9		15			
C2	Cloudy	Moderate	10:31	11.7	Surface	1.0	0.6	11	19.3	19.3	8.1	8.1	30.7	30.7	89.5	89.5	6.9	6.9	5.0	7.0	15	15	825681	806925
						1.0	0.6	11	19.3		8.2		30.7		89.5		6.9		5.1		16			
					Middle	5.9	0.5	8	19.3	19.3	8.2	8.2	30.9	30.9	89.8	89.9	6.9		6.9		15			
						5.9	0.6	8	19.3		8.2		30.9		89.9		6.9		7.0		15			
					Bottom	10.7	0.3	351	19.3	19.3	8.2	8.2	30.9	30.9	91.5	91.6	7.0	7.0	8.9		13			
						10.7	0.4	323	19.3		8.2		30.9		91.7		7.0		8.9		13			
C3	Cloudy	Moderate	12:36	12.1	Surface	1.0	0.7	264	19.3	19.3	8.2	8.2	31.8	31.8	87.4	87.4	6.7	6.7	4.1	10.7	16	13	822099	817791
						1.0	0.7	265	19.3		8.2		31.8		87.3		6.7		4.4		16			
					Middle	6.1	0.8	265	19.2	19.2	8.2	8.2	31.9	31.9	87.2	87.3	6.7		11.0		13			
						6.1	0.9	281	19.2		8.2		31.9		87.3		6.7		11.6		13			
					Bottom	11.1	0.5	269	19.2	19.2	8.2	8.2	31.9	31.9	88.5	88.7	6.8	6.8	16.6		8			
						11.1	0.6	293	19.2		8.2		31.9		88.9		6.8		16.4		9			
IM1	Cloudy	Moderate	11:55	5.2	Surface	1.0	0.3	10	20.2	20.2	8.1	8.1	31.5	31.5	92.4	92.4	7.0	7.0	8.3	9.8	14	13	817933	807153
						1.0	0.3	10	20.2		8.1		31.5		92.4		7.0		8.4		12			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	4.2	0.2	5	20.0	20.0	8.1	8.1	31.7	31.6	92.7	92.8	7.0	7.1	11.3		12			
						4.2	0.2	5	20.0		8.1		31.6		92.8		7.1		11.3		12			
IM2	Cloudy	Moderate	12:03	6.9	Surface	1.0	0.4	0	20.1	20.1	8.0	8.0	31.2	31.2	89.9	89.9	6.8	6.8	5.6	6.9	15	13	818151	806177
						1.0	0.4	0	20.1		8.0		31.2		89.9		6.8		5.6		15			
					Middle	3.5	0.4	8	19.9	19.9	8.1	8.1	31.2	31.2	89.3	89.3	6.8		6.6		13			
						3.5	0.4	8	19.9		8.1		31.2		89.3		6.8		6.7		12			
					Bottom	5.9	0.3	358	19.9	19.9	8.1	8.1	31.2	31.2	89.3	89.3	6.8	6.8	8.5		10			
						5.9	0.3	329	19.9		8.1		31.2		89.3		6.8		8.6		10			
IM3	Cloudy	Moderate	12:11	7.2	Surface	1.0	0.4	340	19.8	19.9	8.0	8.0	31.1	31.1	88.2	88.2	6.7	6.7	4.7	4.7	17	14	818779	805588
						1.0	0.4	340	19.9		8.0		31.1		88.2		6.7		4.7		17			
					Middle	3.6	0.4	335	19.8	19.8	8.0	8.0	31.1	31.1	88.1	88.1	6.7		3.9		15			
						3.6	0.4	344	19.8		8.0		31.1		88.1		6.7		3.8		15			
					Bottom	6.2	0.4	339	19.8	19.8	8.0	8.0	31.1	31.1	88.3	88.3	6.8	6.8	5.7		10			
						6.2	0.4	312	19.8		8.0		31.1		88.3		6.8		5.7		10			
IM4	Cloudy	Moderate	12:21	7.8	Surface	1.0	0.9	344	20.0	20.0	8.0	8.0	31.1	31.1	89.3	89.2	6.8	6.8	5.5	6.7	16	15	819722	804608
						1.0	1.0	359	20.0		8.0		31.1		89.1		6.8		5.6		17			
					Middle	3.9	0.7	342	19.8	19.8	8.0	8.0	31.1	31.1	87.6	87.6	6.7		6.8		14			
						3.9	0.8	315	19.8		8.0		31.1		87.6		6.7		6.8		14			
					Bottom	6.8	0.6	335	19.8	19.8	8.0	8.0	31.1	31.1	87.8	87.8	6.7	6.7	7.6		13			
						6.8	0.6	343	19.8		8.0		31.1		87.8		6.7		7.6		13			
IM5	Cloudy	Moderate	12:28	8.1	Surface	1.0	0.9	10	19.9	19.9	8.0	8.0	31.0	31.0	89.1	89.1	6.8	6.8	7.0	7.7	14	16	820738	804850
						1.0	1.0	10	19.9		8.0		31.0		89.1		6.8		7.0		14			
					Middle	4.1	0.9	9	19.9	19.9	8.0	8.0	31.1	31.1	88.6	88.6	6.8		7.4		16			
						4.1	0.9	9	19.9		8.0		31.1		88.6		6.8		7.4		16			
					Bottom	7.1	0.8	9	19.8	19.8	8.0	8.0	31.1	31.1	88.6	88.6	6.8	6.8	8.6		19			
						7.1	0.8	9	19.8		8.0		31.1		88.6		6.8		8.6		19			
IM6	Cloudy	Moderate	12:35	7.5	Surface	1.0	0.1	50	20.1	20.1	8.0	8.0	30.6	30.6	91.4	91.4	7.0	7.0	4.6	6.3	20	17	821074	805805
						1.0	0.1	51	20.1		8.0		30.6		91.4		7.0		4.6		19			
					Middle	3.8	0.3	37	20.0	20.0	8.1	8.1	31.0	31.0	90.3	90.3	6.9		6.6		17			
						3.8	0.4	40	20.0		8.1		31.0		90.3		6.9		6.6		17			
					Bottom	6.5	0.4	44	20.1	20.1	8.1	8.1	31.4	31.4	90.2	90.2	6.8	6.8	7.7		14			
						6.5	0.4	44	20.1		8.1		31.4		90.2		6.8		7.7		14			
IM7	Cloudy	Moderate	12:42	7.5	Surface	1.0	0.1	223	20.2	20.2	8.1	8.1	31.5	31.5	92.3	92.3	7.0	7.0	10.2	10.8	12	10	821372	806852
						1.0	0.1	244	20.2		8.1		31.5		92.3		7.0		10.1		12			
					Middle	3.8	0.2	115	20.2	20.2	8.1	8.1	31.5	31.5	91.9	91.9	7.0		11.7		10			
						3.8	0.2	126	20.2		8.1		31.5		91.9		7.0		11.7		10			
					Bottom	6.5	0.2	92	20.1	20.1	8.1	8.1	31.5	31.5	91.9	91.9	7.0	7.0	10.7		9			
						6.5	0.2	95	20.1		8.1		31.5		91.9		7.0		10.7		8			
IM8	Cloudy	Moderate	10:57	7.2	Surface	1.0	0.2	73	19.2	19.2	8.1	8.1	31.0	31.0	89.5	89.5	6.9	6.9	7.2	9.0	10	12	821807	808147
						1.0	0.2	77	19.2		8.1		31.0		89.4		6.9		7.4		10			
					Middle	3.6	0.2	74	19.2	19.2	8.1	8.1	31.1	31.1	89.4	89.5	6.9		9.1		12			
						3.6	0.2	77	19.2		8.1		31.1		89.5		6.9		9.2		12			
					Bottom	6.2	0.1	76	19.2	19.2	8.2	8.2	31.2	31.2	90.6	90.7	7.0	7.0	10.6		13			
						6.2	0.1	76	19.1		8.2		31.2		90.8		7.0		10.6		13			

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 January 22 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	Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)
IM9	Cloudy	Moderate	11:04	6.7	Surface	1.0	0.3	81	19.1	19.1	8.2	8.2	31.4	31.4	91.7	91.8	7.0	7.1	7.5	9.1	10	11	822090	808815
						1.0	0.3	84	19.1		8.2		31.4		91.8		7.1		7.8		9			
					Middle	3.4	0.3	79	19.1	19.1	8.2	8.2	31.4	31.4	92.9	93.0	7.1		9.0		11			
						3.4	0.3	81	19.1		8.2		31.4		93.1		7.2		9.0		11			
					Bottom	5.7	0.2	71	19.1	19.1	8.2	8.2	31.4	31.4	95.3	95.5	7.3	7.3	11.2		12			
						5.7	0.2	75	19.1		8.2		31.4		95.6		7.3		10.3		12			
IM10	Cloudy	Moderate	11:11	7.3	Surface	1.0	0.7	304	19.2	19.2	8.2	8.2	31.4	31.4	90.5	90.5	6.9	7.0	7.2	8.7	11	9	822395	809783
						1.0	0.7	306	19.2		8.2		31.4		90.5		6.9		7.5		11			
					Middle	3.7	0.6	301	19.1	19.1	8.2	8.2	31.4	31.4	90.5	90.6	7.0		8.6		9			
						3.7	0.6	301	19.1		8.2		31.4		90.6		7.0		8.8		9			
					Bottom	6.3	0.5	302	19.1	19.1	8.2	8.2	31.4	31.4	91.4	91.5	7.0	7.0	10.1		8			
						6.3	0.5	310	19.1		8.2		31.4		91.5		7.0		10.1		8			
IM11	Cloudy	Moderate	11:24	6.9	Surface	1.0	0.7	300	19.3	19.3	8.2	8.2	31.6	31.6	91.3	91.3	7.0	7.0	8.7	11.2	8	10	822038	811482
						1.0	0.7	328	19.3		8.2		31.6		91.3		7.0		9.1		7			
					Middle	3.5	0.6	302	19.1	19.1	8.2	8.2	31.6	31.6	91.2	91.3	7.0		11.7		9			
						3.5	0.6	305	19.1		8.2		31.6		91.3		7.0		11.8		9			
					Bottom	5.9	0.4	310	19.1	19.1	8.2	8.2	31.6	31.5	91.9	92.0	7.1	7.1	13.3		13			
						5.9	0.4	340	19.1		8.2		31.5		92.0		7.1		12.6		13			
IM12	Cloudy	Moderate	11:32	8.2	Surface	1.0	0.8	281	19.2	19.2	8.2	8.2	31.6	31.6	89.5	89.5	6.9	6.9	8.8	10.4	30	23	821464	812057
						1.0	0.8	293	19.2		8.2		31.6		89.5		6.9		8.9		29			
					Middle	4.1	0.7	279	19.2	19.2	8.2	8.2	31.7	31.7	89.6	89.7	6.9		9.6		25			
						4.1	0.7	279	19.2		8.2		31.7		89.7		6.9		9.9		24			
					Bottom	7.2	0.6	277	19.2	19.2	8.2	8.2	31.7	31.7	91.2	91.3	7.0	7.0	12.7		14			
						7.2	0.7	297	19.2		8.2		31.7		91.3		7.0		12.8		13			
SR1A	Cloudy	Moderate	12:02	4.8	Surface	1.0	-	-	19.3	19.3	8.2	8.2	31.6	31.6	89.4	89.5	6.8	6.8	6.7	6.1	6	6	819978	812662
						1.0	-	-	19.3		8.2		31.6		89.5		6.8		6.7		6			
					Middle	2.4	-	-	-	-	-	-	-	-	-	-	-		-		-			
						2.4	-	-	-		-		-		-		-		-		-			
					Bottom	3.8	-	-	19.4	19.5	8.2	8.2	31.5	31.5	90.7	90.9	6.9	6.9	5.4		6			
						3.8	-	-	19.5		8.2		31.5		91.0		6.9		5.5		6			
SR2	Cloudy	Moderate	12:16	4.2	Surface	1.0	0.2	341	19.3	19.3	8.2	8.2	31.5	31.5	90.9	91.0	7.0	7.0	9.9	10.9	9	8	821446	814154
						1.0	0.2	347	19.3		8.2		31.5		91.0		7.0		10.2		10			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.2	0.2	351	19.3	19.3	8.2	8.2	31.5	31.5	91.6	91.7	7.0	7.0	11.7		6			
						3.2	0.2	323	19.3		8.2		31.5		91.7		7.0		11.7		6			
SR3	Cloudy	Moderate	10:52	8.5	Surface	1.0	0.3	72	19.2	19.2	8.1	8.1	30.7	30.7	90.1	90.1	6.9	7.0	7.4	10.0	12	15	822163	807573
						1.0	0.3	74	19.2		8.1		30.7		90.1		6.9		7.8		12			
					Middle	4.3	0.2	73	19.1	19.1	8.1	8.1	30.7	30.7	90.2	90.3	7.0		10.9		16			
						4.3	0.2	75	19.1		8.1		30.7		90.3		7.0		11.0		15			
					Bottom	7.5	0.2	55	19.1	19.1	8.2	8.2	30.7	30.8	90.7	90.8	7.0	7.0	11.6		18			
						7.5	0.2	58	19.1		8.2		30.8		90.8		7.0		11.4		18			
SR4A	Cloudy	Moderate	11:20	9.2	Surface	1.0	0.1	142	20.1	20.1	8.1	8.1	31.6	31.6	90.7	90.7	6.9	6.9	7.7	8.0	10	11	817205	807801
						1.0	0.1	149	20.1		8.1		31.6		90.7		6.9		7.8		10			
					Middle	4.6	0.1	83	20.0	20.0	8.1	8.1	31.6	31.6	90.8	90.8	6.9		7.9		11			
						4.6	0.1	86	20.0		8.1		31.6		90.8		6.9		7.9		11			
					Bottom	8.2	0.1	109	20.0	20.0	8.1	8.1	31.6	31.6	90.9	90.9	6.9	6.9	8.4		12			
						8.2	0.1	118	20.0		8.1		31.6		90.9		6.9		8.5		12			
SR5A	Cloudy	Moderate	11:03	3.5	Surface	1.0	0.1	255	20.0	20.0	8.0	8.0	31.6	31.6	88.3	88.3	6.7	6.7	10.3	10.7	10	12	816594	810678
						1.0	0.1	278	20.0		8.0		31.6		88.3		6.7		10.3		11			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	2.5	0.1	296	20.0	20.0	8.0	8.0	31.6	31.6	88.3	88.3	6.7	6.7	11.0		13			
						2.5	0.1	299	20.0		8.0		31.6		88.3		6.7		11.1		12			
SR6A	Cloudy	Moderate	10:35	4.2	Surface	1.0	0.1	227	20.0	20.0	8.0	8.0	31.5	31.5	88.1	88.1	6.7	6.7	6.6	8.3	8	9	817966	814754
						1.0	0.1	247	20.0		8.0		31.5		88.1		6.7		6.7		8			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.2	0.0	233	19.9	19.9	8.0	8.0	31.5	31.5	87.5	87.5	6.7	6.7	9.9		9			
						3.2	0.0	244	19.9		8.0		31.5		87.5		6.7		9.9		9			
SR7	Cloudy	Moderate	13:07	16.4	Surface	1.0	0.2	108	19.4	19.4	8.1	8.1	32.2	32.2	85.9	85.9	6.5	6.5	3.1	4.8	13	15	823651	823735
						1.0	0.2	118	19.3		8.1		32.2		85.9		6.5		3.1		13			
					Middle	8.2	0.2	67	19.3	19.3	8.1	8.1	32.3	32.3	85.7	85.7	6.5		5.4		15			
						8.2	0.2	71	19.3		8.1		32.3		85.7		6.5		5.4		15			
					Bottom	15.4	0.3	33	19.3	19.3	8.2	8.2	32.3	32.3	87.4	87.6	6.7	6.7	6.0		18			
						15.4	0.4	33	19.3		8.2		32.3		87.7		6.7		5.9		17			
SR8	Cloudy	Moderate	11:41	4.2	Surface	1.0	-	-	19.2	19.2	8.2	8.2	31.6	31.6	89.0	88.9	6.8	6.8	8.0	9.1	15	21	820400	811637
						1.0	-	-	19.2		8.2		31.6		88.7		6.8		8.2		15			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.2	-	-	19.2	19.2	8.2	8.2	31.5	31.5	86.4	86.3	6.6	6.6	10.0		26			
						3.2	-	-	19.2		8.2		31.5		86.1		6.6		10.4		26			

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 January 22 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	Misty	Moderate	07:40	7.6	Surface	1.0	0.2	196	19.3	19.3	8.1	8.1	32.9	32.9	103.8	104.0	7.9	7.9	6.9	7.5	5	6	82	86	815606	804242	<0.2	<0.2	0.8	0.8
						1.0	0.2	202	19.3		8.1		32.9		104.1		7.9		6.9		6		82				<0.2		0.7	
					Middle	3.8	0.2	203	19.3	19.3	8.1	8.1	32.8	32.8	104.5	104.7	7.9		7.2		5		86				<0.2		0.8	
						3.8	0.2	221	19.3		8.1		32.8		104.8		8.0		7.3		6		86				<0.2		0.7	
					Bottom	6.6	0.2	221	19.3	19.3	8.0	8.0	32.7	32.7	105.3	105.5	8.0	8.0	8.4		7		89				<0.2		0.7	
						6.6	0.2	234	19.2		7.9		32.7		105.7		8.0		8.5		8		89				<0.2		0.8	
C2	Cloudy	Rough	08:41	10.8	Surface	1.0	0.1	264	19.0	19.0	8.1	8.1	31.8	31.8	88.8	88.8	6.8	6.8	2.6	3.8	7	6	83	87	825701	806946	<0.2	<0.2	0.7	0.7
						1.0	0.2	278	19.0		8.1		31.8		88.8		6.8		2.6		7		83				<0.2		0.7	
					Middle	5.4	0.2	265	19.0	19.0	8.1	8.1	31.8	31.8	88.2	88.2	6.8		2.8		6		87				<0.2		0.7	
						5.4	0.2	280	19.0		8.1		31.8		88.1		6.8		2.8		5		87				<0.2		0.7	
					Bottom	9.8	0.2	273	19.2	19.2	8.1	8.1	32.0	32.0	86.7	86.8	6.6	6.6	6.1		4		90				<0.2		0.8	
						9.8	0.2	280	19.2		8.2		32.0		86.8		6.6		6.0		5		89				<0.2		0.8	
C3	Cloudy	Rough	06:29	12.0	Surface	1.0	0.1	166	19.1	19.1	8.1	8.1	32.1	32.1	86.3	86.3	6.6	6.6	1.3	1.8	4	4	84	87	822107	817802	<0.2	<0.2	0.6	0.7
						1.0	0.1	179	19.1		8.1		32.1		86.3		6.6		1.3		5		84				<0.2		0.7	
					Middle	6.0	0.1	207	19.1	19.1	8.1	8.1	32.2	32.2	85.8	85.8	6.6		1.3		5		87				<0.2		0.7	
						6.0	0.1	215	19.1		8.1		32.2		85.8		6.6		1.4		4		87				<0.2		0.7	
					Bottom	11.0	0.1	270	19.2	19.2	8.1	8.1	32.5	32.5	84.2	84.3	6.4	6.4	2.9		4		91				<0.2		0.7	
						11.0	0.1	290	19.2		8.1		32.5		84.3		6.4		2.8		4		91				<0.2		0.7	
IM1	Misty	Moderate	07:53	4.2	Surface	1.0	0.3	314	19.4	19.4	8.1	8.1	33.1	33.1	99.9	100.0	7.6	7.6	6.4	7.1	6	6	83	87	817956	807118	<0.2	<0.2	0.8	0.8
						1.0	0.3	337	19.4		8.1		33.1		100.0		7.6		6.5		6		83				<0.2		0.8	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.2	0.2	311	19.3	19.3	8.1	8.1	33.1	33.1	100.7	100.8	7.6	7.6	7.8		7		91				<0.2		0.8	
						3.2	0.2	322	19.3		8.1		33.1		100.9		7.6		7.8		6		91				<0.2		0.8	
IM2	Misty	Moderate	08:00	6.2	Surface	1.0	0.1	356	19.4	19.4	8.1	8.1	33.2	33.2	101.0	101.0	7.6	7.7	3.4	4.3	7	6	85	87	818168	806142	<0.2	<0.2	0.8	0.8
						1.0	0.1	356	19.4		8.1		33.2		101.0		7.6		3.5		6		84				<0.2		0.7	
					Middle	3.1	0.0	59	19.3	19.3	8.1	8.1	33.2	33.2	102.6	102.8	7.8		4.3		6		86				<0.2		0.8	
						3.1	0.0	60	19.3		8.1		33.2		102.9		7.8		4.3		7		86				<0.2		0.8	
					Bottom	5.2	0.1	34	19.3	19.3	8.1	8.1	33.2	33.2	104.5	104.6	7.9	7.9	5.2		6		90				<0.2		0.8	
						5.2	0.1	36	19.3		8.1		33.2		104.7		7.9		5.2		6		90				<0.2		0.9	
IM3	Misty	Moderate	08:07	6.6	Surface	1.0	0.2	142	19.4	19.4	8.1	8.1	33.0	33.0	100.9	101.0	7.7	7.7	5.7	6.6	9	7	84	87	818783	805581	<0.2	<0.2	0.8	0.8
						1.0	0.2	151	19.4		8.1		33.0		101.1		7.7		5.7		8		84				<0.2		0.8	
					Middle	3.3	0.3	120	19.4	19.4	8.1	8.1	33.0	33.0	102.1	102.3	7.7		6.9		7		87				<0.2		0.8	
						3.3	0.3	125	19.3		8.1		33.0		102.4		7.8		6.8		6		87				<0.2		0.9	
					Bottom	5.6	0.1	118	19.3	19.3	8.1	8.1	33.2	33.2	106.3	106.6	8.1	8.1	7.2		7		90				<0.2		0.8	
						5.6	0.1	122	19.3		8.1		33.2		106.8		8.1		7.3		6		90				<0.2		0.8	
IM4	Misty	Moderate	08:18	8.0	Surface	1.0	0.3	163	19.3	19.3	8.1	8.1	32.4	32.4	100.3	100.4	7.6	7.7	6.6	7.0	6	6	82	86	819725	804624	<0.2	<0.2	0.8	0.8
						1.0	0.3	178	19.3		8.1		32.4		100.4		7.6		6.6		6		82				<0.2		0.8	
					Middle	4.0	0.5	154	19.3	19.3	8.1	8.1	32.4	32.4	102.7	102.9	7.8		7.0		6		86				<0.2		0.8	
						4.0	0.5	157	19.3		8.1		32.4		103.1		7.9		7.1		6		86				<0.2		0.7	
					Bottom	7.0	0.3	135	19.3	19.3	8.1	8.1	32.4	32.4	104.9	105.2	8.0	8.0	7.2		6		89				<0.2		0.7	
						7.0	0.3	136	19.3		8.1		32.4		105.4		8.0		7.2		7		90				<0.2		0.8	
IM5	Misty	Moderate	08:26	7.4	Surface	1.0	0.2	163	19.3	19.3	8.1	8.1	32.4	32.4	101.2	101.4	7.7	7.8	5.2	6.4	7	6	82	87	820739	804873	<0.2	<0.2	0.8	0.8
						1.0	0.2	174	19.3		8.1		32.4		101.5		7.7		5.1		7		82				<0.2		0.9	
					Middle	3.7	0.3	185	19.3	19.3	8.0	8.0	32.4	32.4	103.7	103.8	7.9		6.4		5		88				<0.2		0.9	
						3.7	0.3	190	19.3		8.0		32.4		103.9		7.9		6.5		6		87				<0.2		0.8	
					Bottom	6.4	0.1	184	19.3	19.3	8.0	8.0	32.4	32.4	105.9	106.4	8.1	8.1	7.7		6		91				<0.2		0.7	
						6.4	0.1	194	19.3		8.0		32.4		106.8		8.1		7.7		5		91				<0.2		0.7	
IM6	Misty	Moderate	08:34	7.0	Surface	1.0	0.1	226	19.4	19.4	8.1	8.1	32.3	32.3	100.4	100.5	7.6	7.7	4.4	5.5	6	6	84	87	821076	805806	<0.2	<0.2	0.7	0.8
						1.0	0.1	232	19.4		8.1		32.3		100.5		7.6		4.5		6		84				<0.2		0.8	
					Middle	3.5	0.2	219	19.4	19.4	8.1	8.1	32.3	32.3	101.1	101.2	7.7		5.5		7		86				<0.2		0.8	
						3.5	0.2	227	19.4		8.1		32.3		101.3		7.7		5.6		6		87				<0.2		0.7	
					Bottom	6.0	0.2	154	19.3	19.3	8.1	8.1	32.3	32.3	103.7	103.8	7.9	7.9	6.6		6		91				<0.2		0.9	
						6.0	0.2	154	19.3		8.1		32.3		103.9		7.9		6.6		7		91				<0.2		0.8	
IM7	Misty	Moderate	08:42	8.0	Surface	1.0	0.3	221	19.4	19.4	8.1	8.1	32.2	32.2	100.6	100.6	7.6	7.7	6.5	8.1	6	6	81	86	821339	806823	<0.2	<0.2	0.7	0.8
						1.0	0.3	229	19.4		8.1		32.2		100.6		7.6		6.5		6		81				<0.2		0.7	
					Middle	4.0	0.2	150	19.4	19.4	8.1	8.1	32.2	32.2	102.3	102.5	7.8		8.5		6		88				<0.2		0.9	
						4.0	0.2	161	19.4		8.1		32.2		102.7		7.8		8.5		5		88				<0.2		0.8	
					Bottom	7.0	0.1	143	19.4	19.4	8.0	8.0	32.2	32.2	104.0	104.1	7.9	7.9	9.2		6		89				<0.2		0.7	
						7.0	0.1	145	19.4		8.0		32.2		104.2		7.9		9.2		5		90				<0.2		0.8	
IM8	Cloudy	Rough	08:13	7.1	Surface	1.0	0.2	186	18.8	18.8	8.2	8.2	31.6	31.6	91.5	91.5	7.1	7.1	5.3	5.3	10	9	82	86	821836	808141	<0.2	<0.2	0.8	0.8
						1.0	0.2	189	18.8		8.2		31.6		91.5		7.1		5.3		9		82				<0.2		0.8	
					Middle	3.6	0.2	188	18.8	18.8	8.2	8.2	31.6	31.6	91.5	91.5	7.1		5.3		9		87				<0.2		0.8	
						3.6	0.2	196	18.8		8.2		31.6		91.5		7.1		5.3		8		86				<0.2		0.8	
					Bottom	6.1	0.1	208	18.8	18.8	8.2	8.2	31.6	31.6	91.8	91.9	7.1	7.1	5.3		9		89				<0.2		0.8	
						6.1	0.2	210	18.8		8.2		31.6		91.9		7.1		5.3		8		90				<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: The DCM monitoring was resumed starting from 11 January 2022.

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 11 January 22 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	Rough	08:07	6.7	Surface	1.0	0.1	291	18.9	18.9	8.2	8.2	31.6	31.6	90.5	90.5	7.0	7.0	4.7	5.0	7	7	83	86	822103	808791	<0.2	<0.2	0.8	0.8
						1.0	0.1	299	18.9		8.2		31.6		90.5		7.0		4.8		7		82				<0.2		0.8	
					Middle	3.4	0.1	256	18.9	18.9	8.2	8.2	31.6	31.6	90.5	90.5	7.0		5.0		7		87				<0.2		0.8	
						3.4	0.1	277	18.9		8.2		31.6		90.5		7.0		5.0		6		86				<0.2		0.8	
					Bottom	5.7	0.1	258	18.9	18.9	8.2	8.2	31.6	31.6	90.7	90.7	7.0	7.0	5.2		6		89				<0.2		0.8	
						5.7	0.1	274	18.9		8.2		31.6		90.7		7.0		5.2		7		90				<0.2		0.9	
IM10	Cloudy	Rough	08:00	6.6	Surface	1.0	0.1	298	18.9	18.9	8.2	8.2	31.6	31.6	89.8	89.8	6.9	6.9	4.3	4.5	7	7	82	86	822398	809776	<0.2	<0.2	0.8	0.8
						1.0	0.1	319	18.9		8.2		31.6		89.8		6.9		4.3		7		83				<0.2		0.8	
					Middle	3.3	0.1	320	18.9	18.9	8.2	8.2	31.6	31.6	89.9	89.9	6.9		4.3		7		87				<0.2		0.7	
						3.3	0.1	342	18.9		8.2		31.6		89.9		6.9		4.4		7		86				<0.2		0.7	
					Bottom	5.6	0.1	317	18.9	18.9	8.2	8.2	31.6	31.6	90.2	90.2	7.0	7.0	4.9		5		89				<0.2		0.7	
						5.6	0.1	325	18.9		8.2		31.6		90.2		7.0		4.9		6		89				<0.2		0.8	
IM11	Cloudy	Rough	07:49	7.5	Surface	1.0	0.1	298	19.0	19.0	8.1	8.1	31.8	31.8	87.0	87.0	6.7	6.7	2.2	2.8	6	5	82	86	822034	811449	<0.2	<0.2	0.8	0.9
						1.0	0.1	307	19.0		8.1		31.8		87.0		6.7		2.2		7		83				<0.2		0.9	
					Middle	3.8	0.1	293	19.0	19.0	8.1	8.1	31.8	31.8	86.7	86.7	6.7		2.4		4		86				<0.2		0.8	
						3.8	0.1	297	19.0		8.1		31.8		86.6		6.7		2.4		5		87				<0.2		0.8	
					Bottom	6.5	0.1	286	19.1	19.1	8.2	8.2	32.0	32.0	87.2	87.3	6.7	6.7	3.8		4		89				<0.2		1.0	
						6.5	0.1	287	19.1		8.2		32.0		87.3		6.7		3.8		4		89				<0.2		0.8	
IM12	Cloudy	Rough	07:41	8.9	Surface	1.0	0.2	157	19.0	19.0	8.1	8.1	31.8	31.8	87.0	87.0	6.7	6.7	2.9	3.3	6	6	83	86	821479	812066	<0.2	<0.2	0.8	0.8
						1.0	0.2	169	19.0		8.1		31.8		87.0		6.7		3.0		5		82				<0.2		0.8	
					Middle	4.5	0.1	220	19.0	19.0	8.2	8.2	31.8	31.8	87.3	87.4	6.7		3.1		5		87				<0.2		0.8	
						4.5	0.1	230	19.0		8.2		31.8		87.4		6.7		3.1		6		86				<0.2		0.8	
					Bottom	7.9	0.1	262	19.0	19.0	8.2	8.2	31.8	31.8	89.1	89.3	6.8	6.9	4.0		8		90				<0.2		0.8	
						7.9	0.1	270	19.0		8.2		31.8		89.4		6.9		3.9		7		89				<0.2		0.9	
SR1A	Cloudy	Moderate	07:07	4.9	Surface	1.0	-	-	18.8	18.8	8.1	8.1	31.6	31.6	87.3	87.3	6.7	6.7	3.8	3.6	4	5	-	-	819977	812657	-	-	-	-
						1.0	-	-	18.8		8.1		31.6		87.3		6.7		3.8		4		-				-		-	
					Middle	2.5	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.5	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.9	-	-	18.9	18.9	8.2	8.2	31.6	31.6	88.4	88.4	6.8	6.8	3.3		5		-				-		-	
						3.9	-	-	18.9		8.2		31.6		88.4		6.8		3.3		6		-				-		-	
SR2	Cloudy	Rough	06:51	4.5	Surface	1.0	0.1	323	18.9	18.9	8.1	8.1	31.7	31.7	87.9	87.9	6.8	6.8	2.3	3.5	4	5	84	86	821458	814146	<0.2	<0.2	0.8	0.8
						1.0	0.1	338	18.9		8.1		31.7		87.8		6.8		2.3		5		84				<0.2		0.8	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.5	0.1	324	19.0	19.0	8.2	8.2	31.8	31.8	88.1	88.2	6.8	6.8	4.8		4		88				<0.2		0.8	
						3.5	0.1	337	19.0		8.2		31.8		88.3		6.8		4.8		5		88				<0.2		0.8	
SR3	Cloudy	Rough	08:20	8.4	Surface	1.0	0.1	230	18.9	18.9	8.2	8.2	31.5	31.5	90.6	90.6	7.0	7.0	3.6	3.8	4	5	-	-	822167	807583	-	-	-	-
						1.0	0.1	230	18.9		8.2		31.5		90.6		7.0		3.6		7		-				-		-	
					Middle	4.2	0.1	257	18.9	18.9	8.2	8.2	31.5	31.5	90.6	90.6	7.0		3.8		4		-				-		-	
						4.2	0.1	278	18.9		8.2		31.5		90.6		7.0		3.8		5		-				-		-	
					Bottom	7.4	0.1	224	18.9	18.9	8.2	8.2	31.5	31.5	91.0	91.0	7.0	7.0	4.1		5		-				-		-	
						7.4	0.1	226	18.9		8.2		31.5		91.0		7.0		4.1		6		-				-		-	
SR4A	Misty	Moderate	07:13	8.8	Surface	1.0	0.2	269	19.5	19.5	8.1	8.1	32.9	32.9	98.7	98.8	7.5	7.5	3.7	4.4	7	6	-	-	817204	807792	-	-	-	-
						1.0	0.2	291	19.5		8.1		32.9		98.8		7.5		3.8		6		-				-		-	
					Middle	4.4	0.2	261	19.5	19.5	8.1	8.1	32.9	32.9	99.4	99.5	7.5		4.0		6		-				-		-	
						4.4	0.2	265	19.5		8.1		32.9		99.6		7.5		4.1		7		-				-		-	
					Bottom	7.8	0.2	268	19.5	19.5	8.1	8.1	32.9	32.9	100.8	100.9	7.6	7.6	5.4		6		-				-		-	
						7.8	0.2	271	19.5		8.1		32.9		101.0		7.6		5.4		6		-				-		-	
SR5A	Misty	Moderate	06:57	4.4	Surface	1.0	0.2	330	19.4	19.4	8.1	8.1	32.8	32.8	99.8	99.8	7.6	7.6	5.2	5.6	6	6	-	-	816586	810713	-	-	-	-
						1.0	0.3	341	19.4		8.1		32.8		99.7		7.6		5.2		7		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.4	0.2	308	19.3	19.3	8.1	8.1	32.8	32.8	105.5	105.9	8.0	8.1	6.0		5		-				-		-	
						3.4	0.2	329	19.3		8.1		32.8		106.3		8.1		6.1		5		-				-		-	
SR6A	Misty	Moderate	06:28	3.2	Surface	1.0	0.1	170	19.6	19.6	7.9	7.9	32.2	32.2	94.1	94.2	7.1	7.1	8.1	8.6	6	6	-	-	817944	814718	-	-	-	-
						1.0	0.1	182	19.6		7.9		32.2		94.2		7.1		8.2		6		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.2	0.1	180	19.6	19.6	7.9	7.9	32.2	32.2	95.8	95.9	7.3	7.3	9.1		6		-				-		-	
						2.2	0.1	197	19.6		7.9		32.2		96.0		7.3		9.1		5		-				-		-	
SR7	Cloudy	Rough	06:00	16.2	Surface	1.0	0.0	287	19.1	19.1	8.0	8.0	32.6	32.6	83.7	83.7	6.4	6.4	1.2	1.3	4	4	-	-	823654	823747	-	-	-	-
						1.0	0.0	313	19.1		8.0		32.6		83.7		6.4		1.2		4		-				-		-	
					Middle	8.1	0.0	319	19.1	19.1	8.0	8.0	32.6	32.6	83.6	83.6	6.4		1.3		3		-				-		-	
						8.1	0.0	324	19.1		8.0		32.6		83.6		6.4		1.3		4		-				-		-	
					Bottom	15.2	0.1	50	19.1	19.1	8.0	8.0	32.6	32.6	84.2	84.3	6.4	6.4	1.4		3		-				-		-	
						15.2	0.1	53	19.1		8.0		32.6		84.3		6.4		1.4		4		-				-		-	
SR8	Cloudy	Moderate	07:33	5.0	Surface	1.0	-	-	19.2	19.2	8.3	8.3	31.4	31.4	90.5	90.4	6.9	6.9	3.8	4.6	6	5	-	-	820380	811610	-	-	-	-
						1.0	-	-	19.2		8.3		31.4		90.3		6.9		3.7		6		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.0	-	-	19.1	19.1	8.2	8.2	31.7	31.7	87.8	87.9	6.7	6.8	5.4		4		-				-		-	
						4.0	-	-	19.1		8.2		31.7		88.0		6.8		5.6		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 January 22 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	Misty	Moderate	13:36	8.2	Surface	1.0	0.4	34	19.4	19.4	8.1	8.1	33.1	33.2	101.8	101.8	7.7	7.7	6.2	7.5	4	4	84	87	815607	804256	<0.2	<0.2	0.9	0.9
						1.0	0.4	35	19.4		8.1		33.2		101.8		7.7		6.6		3		84				<0.2		0.9	
					Middle	4.1	0.2	47	19.4	19.4	8.1	8.1	33.2	33.2	102.2	102.3	7.7		7.8		4		87				<0.2		0.8	
						4.1	0.2	51	19.4		8.1		33.2		102.4		7.7		7.8		4		87				<0.2		0.8	
					Bottom	7.2	0.3	6	19.4	19.4	8.1	8.1	33.2	33.2	104.0	104.2	7.9	7.9	8.2		4		91				<0.2		0.9	
						7.2	0.3	6	19.4		8.1		33.2		104.3		7.9		8.2		5		91				<0.2		0.9	
C2	Fine	Rough	12:37	11.1	Surface	1.0	0.2	317	19.0	19.0	8.2	8.2	31.7	31.6	91.0	91.0	7.0	7.0	2.0	3.5	4	4	83	87	825690	806950	<0.2	<0.2	0.8	0.8
						1.0	0.2	324	19.0		8.2		31.6		91.0		7.0		2.0		4		82				<0.2		0.7	
					Middle	5.6	0.3	312	18.9	18.9	8.2	8.2	31.7	31.7	89.9	89.8	6.9		2.2		4		87				<0.2		0.8	
						5.6	0.3	335	18.9		8.2		31.7		89.7		6.9		2.2		5		87				<0.2		0.9	
					Bottom	10.1	0.3	318	19.2	19.2	8.1	8.1	32.0	32.0	88.2	88.4	6.8	6.8	6.3		4		90				<0.2		0.8	
						10.1	0.4	334	19.2		8.1		32.0		88.6		6.8		6.2		5		90				<0.2		0.8	
C3	Fine	Moderate	14:48	12.4	Surface	1.0	0.3	273	19.3	19.3	8.2	8.2	32.7	32.7	84.3	84.3	6.4	6.4	1.8	2.6	7	6	83	88	822090	817813	<0.2	<0.2	0.6	0.5
						1.0	0.3	273	19.3		8.2		32.7		84.3		6.4		1.8		6		84				<0.2		0.6	
					Middle	6.2	0.3	275	19.3	19.3	8.2	8.2	32.7	32.7	84.0	84.1	6.4		2.7		5		88				<0.2		0.5	
						6.2	0.3	279	19.3		8.2		32.7		84.1		6.4		2.7		6		88				<0.2		0.5	
					Bottom	11.4	0.3	271	19.3	19.3	8.2	8.2	32.7	32.7	84.7	84.8	6.4	6.5	3.3		6		91				<0.2		0.5	
						11.4	0.3	280	19.3		8.2		32.7		84.8		6.5		3.3		5		91				<0.2		0.5	
IM1	Misty	Moderate	13:15	4.8	Surface	1.0	0.1	277	19.6	19.6	8.1	8.1	33.1	33.1	103.1	103.3	7.8	7.8	5.5	5.8	5	6	82	87	817944	807132	<0.2	<0.2	0.8	0.9
						1.0	0.1	282	19.6		8.1		33.1		103.4		7.8		5.4		6		82				<0.2		0.9	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.8	0.1	13	19.5	19.5	8.1	8.1	33.1	33.1	105.9	106.4	8.0	8.1	6.2		6		91				<0.2		1.0	
						3.8	0.1	13	19.5		8.1		33.2		106.8		8.1		6.3		7		92				<0.2		0.8	
IM2	Misty	Moderate	13:09	6.0	Surface	1.0	0.1	310	19.4	19.4	8.1	8.1	33.2	33.2	101.6	101.7	7.7	7.7	6.2	7.5	7	6	83	89	818150	806173	<0.2	<0.2	0.8	0.9
						1.0	0.1	314	19.4		8.1		33.2		101.7		7.7		6.1		6		83				<0.2		0.8	
					Middle	3.0	0.1	356	19.4	19.4	8.1	8.1	33.2	33.2	102.2	102.4	7.7		7.9		6		90				<0.2		0.9	
						3.0	0.1	328	19.4		8.1		33.2		102.5		7.8		8.0		6		90				<0.2		0.9	
					Bottom	5.0	0.1	3	19.4	19.4	8.1	8.1	33.2	33.2	103.1	103.2	7.8	7.8	8.5		6		93				<0.2		0.9	
						5.0	0.1	3	19.4		8.1		33.2		103.3		7.8		8.5		5		93				<0.2		0.9	
IM3	Misty	Moderate	13:03	6.8	Surface	1.0	0.1	31	19.4	19.4	8.1	8.1	33.0	33.0	102.4	102.5	7.8	7.8	7.9	8.5	5	6	82	87	818793	805595	<0.2	<0.2	0.9	0.9
						1.0	0.1	31	19.4		8.1		33.0		102.6		7.8		7.9		6		82				<0.2		0.8	
					Middle	3.4	0.0	104	19.4	19.4	8.1	8.1	33.1	33.1	103.4	103.5	7.8		8.4		6		87				<0.2		0.9	
						3.4	0.0	112	19.4		8.1		33.1		103.5		7.8		8.5		7		92				<0.2		0.9	
					Bottom	5.8	0.1	351	19.3	19.4	8.1	8.1	33.1	33.1	104.2	104.4	7.9	7.9	9.0		7		90				<0.2		0.8	
						5.8	0.1	323	19.4		8.1		33.1		104.5		7.9		9.0		6		90				<0.2		0.8	
IM4	Misty	Moderate	12:54	8.4	Surface	1.0	0.1	12	19.4	19.4	8.1	8.1	32.4	32.4	100.3	100.3	7.6	7.6	4.1	5.5	6	6	83	86	819743	804600	<0.2	<0.2	0.8	0.9
						1.0	0.1	12	19.4		8.1		32.4		100.3		7.6		4.1		6		83				<0.2		0.9	
					Middle	4.2	0.1	24	19.4	19.4	8.1	8.1	32.4	32.4	100.5	100.6	7.6		5.4		6		86				<0.2		0.8	
						4.2	0.1	25	19.4		8.1		32.4		100.7		7.7		5.5		6		86				<0.2		0.9	
					Bottom	7.4	0.2	28	19.4	19.4	8.1	8.1	32.4	32.4	102.7	102.9	7.8	7.8	6.9		7		90				<0.2		0.9	
						7.4	0.2	28	19.4		8.1		32.4		103.0		7.8		6.9		6		90				<0.2		0.8	
IM5	Misty	Moderate	12:46	7.6	Surface	1.0	0.2	11	19.5	19.5	8.1	8.1	32.9	32.9	102.1	102.2	7.7	7.8	5.7	6.5	6	6	83	87	820714	804884	<0.2	<0.2	1.0	0.9
						1.0	0.2	11	19.5		8.1		33.0		102.2		7.7		5.9		5		83				<0.2		0.8	
					Middle	3.8	0.2	22	19.4	19.4	8.1	8.1	33.0	33.0	102.4	102.5	7.8		6.6		5		87				<0.2		0.8	
						3.8	0.2	23	19.4		8.1		33.1		102.5		7.8		6.8		6		87				<0.2		0.8	
					Bottom	6.6	0.2	324	19.4	19.4	8.1	8.1	33.1	33.1	104.6	104.7	7.9	7.9	7.0		6		92				<0.2		0.8	
						6.6	0.2	330	19.4		8.1		33.1		104.8		7.9		7.1		7		92				<0.2		0.9	
IM6	Misty	Moderate	12:39	6.8	Surface	1.0	0.3	46	19.4	19.4	8.1	8.1	32.3	32.3	101.6	101.7	7.7	7.8	4.1	5.8	7	7	85	88	821053	805836	<0.2	<0.2	0.9	0.9
						1.0	0.3	48	19.4		8.1		32.3		101.7		7.7		4.2		6		85				<0.2		0.8	
					Middle	3.4	0.1	105	19.4	19.4	8.1	8.1	32.3	32.3	102.5	102.7	7.8		5.8		7		89				<0.2		1.0	
						3.4	0.1	115	19.4		8.1		32.3		102.9		7.8		5.8		6		88				<0.2		0.8	
					Bottom	5.8	0.1	42	19.4	19.4	8.1	8.0	32.3	32.3	104.7	104.9	8.0	8.0	7.5		7		91				<0.2		0.9	
						5.8	0.1	45	19.4		8.0		32.3		105.0		8.0		7.5		8		91				<0.2		0.8	
IM7	Misty	Moderate	12:35	8.4	Surface	1.0	0.1	67	19.5	19.5	8.1	8.1	32.2	32.2	102.8	102.8	7.8	7.9	5.1	6.1	7	7	82	86	821328	806852	<0.2	<0.2	0.8	0.9
						1.0	0.1	71	19.5		8.1		32.3		102.8		7.8		5.2		8		82				<0.2		0.9	
					Middle	4.2	0.1	46	19.4	19.4	8.1	8.1	32.2	32.2	103.5	103.6	7.9		6.1		8		87				<0.2		0.9	
						4.2	0.1	49	19.4		8.1		32.2		103.7		7.9		6.1		8		87				<0.2		0.9	
					Bottom	7.4	0.1	168	19.4	19.4	8.1	8.1	32.2	32.2	104.5	104.6	7.9	8.0	7.2		7		90				<0.2		0.8	
						7.4	0.1	179	19.4		8.1		32.3		104.6		8.0		7.1		6		90				<0.2		0.8	
IM8	Fine	Moderate	13:03	7.5	Surface	1.0	0.1	285	18.9	18.9	8.2	8.2	31.6	31.6	90.5	90.5	7.0	7.0	3.9	4.3	8	8	82	85	821841	808135	<0.2	<0.2	0.9	0.9
						1.0	0.1	287	18.9		8.2		31.6		90.5		7.0		3.9		7		81				<0.2		0.8	
					Middle	3.8	0.1	256	18.9	18.9	8.2	8.2	31.6	31.6	90.3	90.3	7.0		4.6		7		86				<0.2		0.9	
						3.8	0.1	279	18.9		8.2		31.6		90.3		7.0		4.7		8		82				<0.2		0.8	
					Bottom	6.5	0.1	289	18.9	18.9	8.2	8.2	31.6	31.6	90.8	90.8	7.0	7.0	4.2		9		89				<0.2		0.9	
						6.5	0.1	295	18.9		8.2		31.6		90.8		7.0		4.2		8		90				<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 11 January 22 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C) Value	Water Temperature (°C) Average	pH Value	pH Average	Salinity (ppt) Value	Salinity (ppt) Average	DO Saturation (%) Value	DO Saturation (%) Average	Dissolved Oxygen Value	Dissolved Oxygen DA	Turbidity(NTU) Value	Turbidity(NTU) DA	Suspended Solids (mg/L) Value	Suspended Solids (mg/L) DA	Total Alkalinity (ppm) Value	Total Alkalinity (ppm) DA	Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L) Value	Chromium (µg/L) DA	Nickel (µg/L) Value	Nickel (µg/L) DA
IM9	Fine	Moderate	13:09	7.2	Surface	1.0	0.1	265	19.0	19.0	8.2	8.2	31.7	31.7	88.9	88.9	6.8	6.8	4.0	4.6	8	8	82	85	822113	808806	<0.2	<0.2	0.9	0.9
						1.0	0.1	280	19.0		8.2		31.7		88.9		6.8		3.9		8		81				<0.2		0.8	
					Middle	3.6	0.2	240	19.0	19.0	8.2	8.2	31.7	31.7	88.8	88.8	6.8		4.9		8		85				<0.2		0.9	
						3.6	0.2	251	19.0		8.2		31.7		88.8		6.8		4.9		8		86				<0.2		0.8	
					Bottom	6.2	0.2	244	19.0	19.0	8.2	8.2	31.7	31.7	90.0	90.1	6.9	6.9	4.9		8		89				<0.2		1.0	
						6.2	0.2	252	19.0		8.2		31.7		90.1		6.9		5.0		8		89				<0.2		1.1	
IM10	Fine	Moderate	13:18	8.3	Surface	1.0	0.5	295	19.1	19.1	8.2	8.2	31.8	31.8	87.4	87.4	6.7	6.7	4.7	5.2	6	7	82	86	822361	809785	<0.2	<0.2	1.0	1.0
						1.0	0.5	321	19.1		8.2		31.8		87.4		6.7		4.7		7		81				<0.2		1.0	
					Middle	4.2	0.5	291	19.1	19.1	8.2	8.2	31.8	31.8	87.6	87.6	6.7		4.7		7		86				<0.2		0.9	
						4.2	0.5	320	19.1		8.2		31.8		87.6		6.7		4.7		7		87				<0.2		1.0	
					Bottom	7.3	0.5	293	19.1	19.1	8.2	8.2	31.8	31.8	87.8	87.9	6.7	6.7	6.2		7		90				<0.2		1.0	
						7.3	0.5	304	19.1		8.2		31.8		87.9		6.7		6.2		8		89				<0.2		1.1	
IM11	Fine	Moderate	13:30	8.4	Surface	1.0	0.4	288	19.1	19.1	8.2	8.2	31.8	31.8	87.7	87.7	6.7	6.7	4.1	5.3	8	7	82	86	822041	811446	<0.2	<0.2	0.9	1.0
						1.0	0.5	315	19.1		8.2		31.8		87.7		6.7		4.1		7		81				<0.2		0.9	
					Middle	4.2	0.4	290	19.1	19.1	8.2	8.2	31.8	31.8	87.2	87.2	6.7		5.2		7		86				<0.2		1.1	
						4.2	0.4	312	19.1		8.2		31.8		87.2		6.7		5.3		7		86				<0.2		1.0	
					Bottom	7.4	0.4	295	19.1	19.1	8.2	8.2	31.8	31.8	88.1	88.2	6.8	6.8	6.8		7		90				<0.2		1.0	
						7.4	0.4	316	19.0		8.2		31.8		88.3		6.8		6.6		7		90				<0.2		0.9	
IM12	Fine	Moderate	13:37	9.0	Surface	1.0	0.5	299	19.1	19.1	8.2	8.2	31.9	31.9	88.4	88.4	6.8	6.8	2.5	4.7	9	7	81	86	821472	812048	<0.2	<0.2	0.8	0.9
						1.0	0.5	321	19.1		8.2		31.9		88.4		6.8		2.5		8		82				<0.2		0.8	
					Middle	4.5	0.5	299	19.1	19.1	8.2	8.2	32.0	32.0	87.6	87.6	6.7		4.4		7		86				<0.2		0.9	
						4.5	0.5	303	19.1		8.2		32.0		87.6		6.7		4.4		8		87				<0.2		0.9	
					Bottom	8.0	0.5	295	19.1	19.1	8.2	8.2	32.0	32.0	88.0	88.0	6.7	6.7	7.2		5		89				<0.2		0.9	
						8.0	0.5	312	19.1		8.2		32.0		88.0		6.7		7.1		6		90				<0.2		0.8	
SR1A	Fine	Calm	14:03	5.2	Surface	1.0	-	-	19.1	19.1	8.1	8.1	31.6	31.6	87.9	87.9	6.8	6.8	3.9	3.7	7	8	-	-	819974	812655	-	-	-	-
						1.0	-	-	19.1		8.1		31.6		87.9		6.7		3.9		8		-				-		-	
					Middle	2.6	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.6	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.2	-	-	19.0	19.0	8.1	8.1	31.7	31.7	87.5	87.6	6.7	6.7	3.5		8		-				-		-	
						4.2	-	-	19.0		8.1		31.7		87.6		6.7		3.5		8		-				-		-	
SR2	Fine	Moderate	14:27	4.8	Surface	1.0	0.1	241	19.3	19.3	8.2	8.2	32.2	32.2	87.0	87.0	6.6	6.6	3.3	3.6	6	6	85	87	821447	814178	<0.2	<0.2	0.8	0.8
						1.0	0.1	251	19.3		8.2		32.2		87.0		6.6		3.3		7		85				<0.2		0.8	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.8	0.1	250	19.2	19.2	8.2	8.2	32.2	32.2	87.2	87.3	6.7	6.7	3.9		5		88				<0.2		0.8	
						3.8	0.1	261	19.2		8.2		32.2		87.3		6.7		3.9		6		89				<0.2		0.9	
SR3	Fine	Moderate	12:57	8.7	Surface	1.0	0.1	137	18.9	18.9	8.2	8.2	31.6	31.6	91.6	91.6	7.1	7.1	4.6	6.0	6	6	-	-	822139	807563	-	-	-	-
						1.0	0.1	143	18.9		8.2		31.6		91.6		7.1		4.5		7		-				-		-	
					Middle	4.4	0.0	235	18.8	18.8	8.2	8.2	31.6	31.6	91.4	91.4	7.1		6.5		6		-				-		-	
						4.4	0.0	251	18.8		8.2		31.6		91.4		7.1		6.4		7		-				-		-	
					Bottom	7.7	0.1	269	18.8	18.8	8.2	8.2	31.6	31.6	92.1	92.1	7.1	7.1	7.1		6		-				-		-	
						7.7	0.1	280	18.8		8.2		31.6		92.1		7.1		7.1		6		-				-		-	
SR4A	Misty	Moderate	13:55	9.0	Surface	1.0	0.1	196	19.5	19.5	8.1	8.1	32.8	32.8	99.3	99.4	7.5	7.5	6.8	7.8	5	6	-	-	817206	807788	-	-	-	-
						1.0	0.1	213	19.5		8.1		32.8		99.4		7.5		6.9		5		-				-		-	
					Middle	4.5	0.1	116	19.5	19.5	8.1	8.1	32.8	32.8	99.7	99.8	7.5		7.2		6		-				-		-	
						4.5	0.1	122	19.5		8.1		32.8		99.8		7.6		7.2		7		-				-		-	
					Bottom	8.0	0.0	63	19.5	19.5	8.1	8.1	32.8	32.8	100.5	102.0	7.6	7.7	9.3		6		-				-		-	
						8.0	0.0	64	19.5		8.1		32.8		103.5		7.8		9.3		7		-				-		-	
SR5A	Misty	Moderate	14:11	3.6	Surface	1.0	0.1	337	19.5	19.5	8.1	8.1	32.6	32.6	104.0	104.2	7.9	7.9	7.0	7.8	5	5	-	-	816585	810705	-	-	-	-
						1.0	0.1	352	19.5		8.1		32.6		104.3		7.9		7.0		5		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.6	0.1	3	19.4	19.5	8.1	8.1	32.6	32.6	106.1	106.5	8.0	8.1	8.6		5		-				-		-	
						2.6	0.1	3	19.5		8.1		32.6		106.8		8.1		8.5		6		-				-		-	
SR6A	Misty	Moderate	14:57	4.0	Surface	1.0	0.0	193	19.2	19.2	8.1	8.1	32.8	32.8	100.5	100.5	7.6	7.6	6.1	6.9	4	5	-	-	817947	814731	-	-	-	-
						1.0	0.0	205	19.2		8.1		32.8		100.5		7.6		6.1		5		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.0	0.0	158	19.2	19.2	8.1	8.1	32.8	32.8	100.5	100.5	7.7	7.7	7.9		4		-				-		-	
						3.0	0.0	170	19.2		8.1		32.8		100.5		7.7		7.6		5		-				-		-	
SR7	Fine	Moderate	15:24	16.6	Surface	1.0	0.1	81	19.3	19.3	8.2	8.2	32.8	32.8	84.8	84.8	6.4	6.4	2.2	2.7	4	5	-	-	823636	823728	-	-	-	-
						1.0	0.1	86	19.3		8.2		32.8		84.8		6.4		2.2		5		-				-		-	
					Middle	8.3	0.1	88	19.3	19.3	8.2	8.2	32.8	32.8	84.6	84.6	6.4		2.8		5		-				-		-	
						8.3	0.1	89	19.3		8.2		32.8		84.6		6.4		2.9		4		-				-		-	
					Bottom	15.6	0.0	30	19.3	19.3	8.2	8.2	32.8	32.8	86.1	86.2	6.5	6.6	3.0		4		-				-		-	
						15.6	0.0	32	19.3		8.2		32.8		86.2		6.6		3.0		5		-				-		-	
SR8	Fine	Moderate	13:46	5.1	Surface	1.0	-	-	19.2	19.2	8.2	8.2	31.6	31.6	90.4	90.4	6.9	6.9	3.1	4.1	4	5	-	-	820399	811621	-	-	-	-
						1.0	-	-	19.2		8.2		31.6		90.4		6.9		3.2		5		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.1	-	-	19.0	19.0	8.2	8.2	31.7	31.7	90.4	90.5	6.9	7.0	5.0		4		-				-		-	
						4.1	-	-	19.0		8.2		31.7		90.5		7.0		4.9		5		-				-		-	

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

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 13 January 22 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	09:31	8.5	Surface	1.0	0.2	168	18.8	18.8	8.2	8.2	33.3	33.3	93.8	93.8	7.2	7.2	5.1	5.2	8	8	46	49	815618	804250	<0.2	<0.2	0.4	0.5
						1.0	0.3	174	18.8		8.2		33.3		93.8		7.2		5.2		9		45				<0.2		0.4	
					Middle	4.3	0.3	172	18.8	18.8	8.2	8.2	33.3	33.3	93.8	93.8	7.2		5.2		7		48				<0.2		0.6	
						4.3	0.3	186	18.8		8.2		33.3		93.8		7.2		5.2		7		48				<0.2		0.5	
					Bottom	7.5	0.3	155	18.7	18.7	8.2	8.2	33.3	33.3	94.0	94.1	7.2	7.2	5.3		7		54				<0.2		0.5	
						7.5	0.3	164	18.7		8.2		33.3		94.1		7.2		5.3		7		53				<0.2		0.5	
C2	Fine	Moderate	10:54	10.1	Surface	1.0	0.1	132	19.5	19.5	8.1	8.1	32.5	32.5	87.4	87.4	6.6	6.6	2.1	2.4	5	5	42	48	825679	806947	<0.2	<0.2	0.7	0.8
						1.0	0.1	136	19.5		8.1		32.5		87.4		6.6		2.1		6		43				<0.2		0.7	
					Middle	5.1	0.1	124	19.5	19.5	8.1	8.1	32.6	32.6	87.0	87.0	6.6		2.6		5		48				<0.2		0.8	
						5.1	0.1	133	19.5		8.1		32.6		87.0		6.6		2.7		4		48				<0.2		0.8	
					Bottom	9.1	0.0	198	19.5	19.5	8.0	8.0	32.6	32.6	87.2	87.2	6.6	6.6	2.6		3		52				<0.2		0.8	
						9.1	0.0	200	19.4		8.0		32.6		87.2		6.6		2.6		4		52				<0.2		0.9	
C3	Cloudy	Rough	08:54	11.6	Surface	1.0	0.2	303	19.7	19.7	8.1	8.1	33.1	33.1	85.3	85.3	6.4	6.4	9.9	4.5	3	5	44	48	822099	817783	<0.2	<0.2	0.8	0.8
						1.0	0.2	329	19.7		8.1		33.1		85.3		6.4		9.8		4		44				<0.2		0.7	
					Middle	5.8	0.2	301	19.8	19.8	8.1	8.1	33.2	33.2	84.5	84.5	6.3		1.4		5		48				<0.2		0.8	
						5.8	0.2	311	19.8		8.1		33.2		84.5		6.3		1.4		6		48				<0.2		0.8	
					Bottom	10.6	0.2	304	19.8	19.8	8.1	8.1	33.2	33.2	84.4	84.4	6.3	6.3	2.3		6		51				<0.2		0.8	
						10.6	0.2	328	19.8		8.1		33.2		84.4		6.3		2.3		5		52				<0.2		0.8	
IM1	Cloudy	Moderate	09:52	4.7	Surface	1.0	0.0	168	18.6	18.6	8.2	8.2	33.1	33.1	92.7	92.8	7.1	7.1	4.3	4.2	6	6	48	49	817929	807143	<0.2	<0.2	0.5	0.5
						1.0	0.0	179	18.6		8.2		33.1		92.8		7.1		4.3		7		46				<0.2		0.5	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.7	0.1	172	18.5	18.5	8.2	8.2	33.1	33.1	93.3	93.4	7.2	7.2	4.2		6		50				<0.2		0.5	
						3.7	0.1	174	18.5		8.2		33.1		93.4		7.2		4.1		6		51				<0.2		0.6	
IM2	Cloudy	Moderate	10:00	6.5	Surface	1.0	0.1	149	18.5	18.5	8.2	8.2	33.1	33.1	94.0	94.0	7.2	7.2	3.6	4.9	4	5	43	48	818146	806168	<0.2	<0.2	0.6	0.5
						1.0	0.1	149	18.5		8.2		33.1		94.0		7.2		3.6		5		48				<0.2		0.5	
					Middle	3.3	0.0	152	18.5	18.5	8.2	8.2	33.1	33.1	94.0	94.0	7.2		4.2		4		48				<0.2		0.5	
						3.3	0.0	157	18.5		8.2		33.1		94.0		7.2		4.2		5		50				<0.2		0.4	
					Bottom	5.5	0.1	166	18.5	18.5	8.2	8.2	33.1	33.1	94.7	94.8	7.3	7.3	6.7		6		51				<0.2		0.5	
						5.5	0.1	177	18.5		8.2		33.1		94.9		7.3		7.0		5		50				<0.2		0.4	
IM3	Cloudy	Moderate	10:09	6.8	Surface	1.0	0.1	157	18.5	18.5	8.2	8.2	33.1	33.1	93.5	93.5	7.2	7.2	3.0	4.4	6	5	42	45	818813	805597	<0.2	<0.2	0.5	0.5
						1.0	0.1	163	18.5		8.2		33.1		93.5		7.2		3.2		5		42				<0.2		0.6	
					Middle	3.4	0.1	162	18.6	18.6	8.2	8.2	33.1	33.1	93.6	93.6	7.2		4.1		4		45				<0.2		0.5	
						3.4	0.1	172	18.6		8.2		33.2		93.6		7.2		4.3		4		44				<0.2		0.4	
					Bottom	5.8	0.1	177	18.6	18.6	8.2	8.2	33.2	33.2	94.0	94.1	7.2	7.2	5.7		5		50				<0.2		0.5	
						5.8	0.1	185	18.6		8.2		33.2		94.1		7.2		5.9		4		48				<0.2		0.4	
IM4	Cloudy	Moderate	10:19	8.5	Surface	1.0	0.1	162	18.5	18.5	8.2	8.2	33.1	33.1	93.8	93.8	7.2	7.2	3.9	5.2	5	5	44	46	819733	804623	<0.2	<0.2	0.5	0.5
						1.0	0.1	176	18.5		8.2		33.1		93.8		7.2		3.9		4		42				<0.2		0.4	
					Middle	4.3	0.1	157	18.5	18.5	8.2	8.2	33.1	33.1	94.0	94.0	7.2		4.7		5		45				<0.2		0.5	
						4.3	0.1	164	18.5		8.2		33.1		94.0		7.2		4.9		4		46				<0.2		0.6	
					Bottom	7.5	0.1	149	18.5	18.5	8.2	8.2	33.2	33.2	95.2	95.3	7.3	7.3	6.9		5		48				<0.2		0.5	
						7.5	0.1	157	18.5		8.2		33.2		95.3		7.3		6.9		6		49				<0.2		0.6	
IM5	Cloudy	Moderate	10:28	8.0	Surface	1.0	0.2	200	18.5	18.5	8.2	8.2	32.9	32.9	92.7	92.7	7.1	7.2	4.3	6.4	6	5	46	49	820735	804877	<0.2	<0.2	0.6	0.6
						1.0	0.2	215	18.5		8.2		32.9		92.7		7.1		4.5		5		46				<0.2		0.6	
					Middle	4.0	0.2	212	18.5	18.5	8.2	8.2	33.1	33.1	93.1	93.1	7.2		7.3		5		48				<0.2		0.5	
						4.0	0.2	215	18.5		8.2		33.1		93.1		7.2		7.5		6		48				<0.2		0.6	
					Bottom	7.0	0.2	228	18.5	18.5	8.2	8.2	33.1	33.1	93.6	93.7	7.2	7.2	7.6		5		53				<0.2		0.5	
						7.0	0.2	230	18.5		8.2		33.1		93.7		7.2		7.5		5		54				<0.2		0.6	
IM6	Cloudy	Moderate	10:37	7.3	Surface	1.0	0.2	213	18.4	18.4	8.2	8.2	32.5	32.5	91.5	91.5	7.1	7.1	2.9	4.5	3	4	46	49	821076	805841	<0.2	<0.2	0.6	0.7
						1.0	0.2	230	18.4		8.2		32.5		91.5		7.1		3.2		3		46				<0.2		0.8	
					Middle	3.7	0.2	224	18.5	18.5	8.2	8.2	32.9	32.9	92.0	92.0	7.1		5.1		3		49				<0.2		0.6	
						3.7	0.2	230	18.5		8.2		32.9		92.0		7.1		5.2		4		48				<0.2		0.6	
					Bottom	6.3	0.3	208	18.5	18.5	8.2	8.2	33.0	33.0	92.6	92.7	7.1	7.1	5.3		6		53				<0.2		0.7	
						6.3	0.3	227	18.5		8.2		33.0		92.7		7.1		5.3		5		53				<0.2		0.8	
IM7	Cloudy	Moderate	10:46	8.3	Surface	1.0	0.2	228	18.5	18.5	8.2	8.2	32.3	32.3	91.0	91.0	7.0	7.0	9.3	7.0	5	4	43	49	821341	806851	<0.2	<0.2	0.7	0.8
						1.0	0.2	236	18.5		8.2		32.3		91.0		7.0		9.4		4		46				<0.2		0.8	
					Middle	4.2	0.3	231	18.5	18.5	8.2	8.2	32.5	32.5	91.2	91.2	7.0		4.1		4		49				<0.2		0.8	
						4.2	0.3	252	18.5		8.2		32.5		91.2		7.0		4.3		3		48				<0.2		0.9	
					Bottom	7.3	0.2	240	18.5	18.5	8.2	8.2	32.8	32.8	92.7	92.9	7.1	7.2	7.4		3		53				<0.2		0.6	
						7.3	0.2	254	18.5		8.2		32.8		93.0		7.2		7.4		4		52				<0.2		0.8	
IM8	Cloudy	Rough	10:30	7.7	Surface	1.0	0.1	102	19.2	19.2	8.1	8.1	32.6	32.6	90.2	90.2	6.9	6.9	3.0	3.9	5	4	45	49	821827	808146	<0.2	<0.2	0.7	0.9
						1.0	0.1	105	19.2		8.1		32.6		90.2		6.9		3.0		4		46				<0.2		0.8	
					Middle	3.9	0.1	71	19.2	19.2	8.1	8.1	32.6	32.6	90.0	90.0	6.9		3.7		5		49				<0.2		0.9	
						3.9	0.1	71	19.2		8.1		32.6		90.0		6.9		3.7		4		50				<0.2		0.9	
					Bottom	6.7	0.1	77	19.1	19.1	8.1	8.1	32.7	32.7	89.7	89.8	6.8	6.8	5.1		4		51				<0.2		0.9	
						6.7	0.1	81	19.1		8.1		32.7		89.8		6.8		5.1		3		52				<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 13 January 22 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	Rough	10:24	7.8	Surface	1.0	0.2	110	19.1	19.1	8.1	8.1	32.7	32.7	90.5	90.5	6.9	6.9	3.3	3.9	3	4	44	48	822101	808797	<0.2	<0.2	1.0	0.9
						1.0	0.2	112	19.1		8.1		32.7		90.5		6.9		3.3		4		44				<0.2		1.0	
					Middle	3.9	0.2	109	19.1	19.1	8.1	8.1	32.7	32.7	90.5	90.5	6.9		3.7		4		48				<0.2		0.8	
						3.9	0.2	110	19.1		8.1		32.7		90.5		6.9		3.7		5		48				<0.2		0.9	
					Bottom	6.8	0.2	105	19.1	19.1	8.1	8.1	32.7	32.7	90.6	90.6	6.9	6.9	4.8		4		51				<0.2		0.9	
						6.8	0.2	109	19.1		8.1		32.7		90.6		6.9		4.9		5		52				<0.2		0.8	
IM10	Cloudy	Rough	10:16	8.1	Surface	1.0	0.1	36	19.4	19.4	8.1	8.1	32.6	32.6	86.7	86.7	6.6	6.6	3.4	3.9	5	4	44	48	822361	809810	<0.2	<0.2	0.8	0.9
						1.0	0.1	36	19.4		8.1		32.6		86.7		6.6		3.4		4		46				<0.2		0.8	
					Middle	4.1	0.1	9	19.4	19.4	8.1	8.1	32.7	32.7	86.3	86.3	6.6		4.1		4		48				<0.2		0.9	
						4.1	0.1	9	19.4		8.1		32.7		86.3		6.6		4.1		5		49				<0.2		0.8	
					Bottom	7.1	0.1	2	19.3	19.3	8.1	8.1	32.7	32.7	86.4	86.4	6.6	6.6	4.1		3		51				<0.2		0.9	
						7.1	0.1	2	19.3		8.1		32.7		86.4		6.6		4.2		3		52				<0.2		0.9	
IM11	Cloudy	Rough	10:07	7.6	Surface	1.0	0.0	254	19.4	19.4	8.1	8.1	32.7	32.7	87.4	87.4	6.6	6.6	3.4	3.7	6	5	41	48	822080	811462	<0.2	<0.2	1.0	0.8
						1.0	0.0	260	19.4		8.1		32.7		87.4		6.6		3.4		5		42				<0.2		0.8	
					Middle	3.8	0.0	319	19.4	19.4	8.1	8.1	32.7	32.7	87.3	87.3	6.6		3.7		5		49				<0.2		0.8	
						3.8	0.0	328	19.4		8.1		32.7		87.3		6.6		3.6		4		50				<0.2		0.8	
					Bottom	6.6	0.0	90	19.4	19.4	8.1	8.1	32.7	32.7	87.1	87.2	6.6	6.6	4.1		5		51				<0.2		0.7	
						6.6	0.0	90	19.4		8.1		32.7		87.2		6.6		4.2		5		52				<0.2		0.9	
IM12	Cloudy	Rough	09:59	8.5	Surface	1.0	0.1	238	19.5	19.5	8.1	8.1	32.7	32.7	86.0	86.0	6.5	6.5	2.9	3.5	5	4	45	49	821454	812068	<0.2	<0.2	0.9	0.9
						1.0	0.2	259	19.5		8.1		32.7		86.0		6.5		2.9		4		45				<0.2		0.9	
					Middle	4.3	0.1	217	19.5	19.5	8.1	8.1	32.8	32.8	85.7	85.7	6.5		3.4		5		48				<0.2		0.9	
						4.3	0.1	227	19.5		8.1		32.8		85.7		6.5		3.5		4		48				<0.2		0.8	
					Bottom	7.5	0.0	204	19.5	19.5	8.1	8.1	32.8	32.8	85.8	85.8	6.5	6.5	4.1		3		53				<0.2		0.8	
						7.5	0.0	221	19.5		8.1		32.8		85.8		6.5		4.1		4		54				<0.2		0.8	
SR1A	Cloudy	Moderate	09:32	4.1	Surface	1.0	-	-	19.2	19.2	8.1	8.0	32.3	32.3	85.1	85.1	6.5	6.5	2.2	2.3	3	3	-	-	819973	812664	-	-	-	-
						1.0	-	-	19.2		8.0		32.3		85.1		6.5		2.2		3		-				-		-	
					Middle	2.1	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.1	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.1	-	-	19.1	19.1	8.0	8.0	32.3	32.3	85.3	85.4	6.5	6.5	2.4		3		-				-		-	
						3.1	-	-	19.1		8.0		32.3		85.4		6.5		2.4		4		-				-		-	
SR2	Cloudy	Moderate	09:16	4.5	Surface	1.0	0.2	315	19.4	19.4	8.1	8.1	32.8	32.8	85.9	85.9	6.5	6.5	2.8	3.0	5	4	44	48	821457	814186	<0.2	<0.2	0.9	0.9
						1.0	0.2	326	19.4		8.1		32.8		85.9		6.5		2.8		4		45				<0.2		1.0	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.5	0.2	314	19.4	19.4	8.1	8.1	32.8	32.8	86.0	86.0	6.5	6.5	3.3		4		51				<0.2		0.9	
						3.5	0.2	326	19.4		8.1		32.8		86.0		6.5		3.3		3		53				<0.2		0.8	
SR3	Fine	Rough	10:35	8.1	Surface	1.0	0.1	100	19.3	19.3	8.1	8.1	32.6	32.6	89.5	89.5	6.8	6.8	3.1	3.1	4	4	-	-	822165	807563	-	-	-	-
						1.0	0.1	100	19.3		8.1		32.6		89.5		6.8		3.2		5		-				-		-	
					Middle	4.1	0.1	111	19.3	19.3	8.1	8.1	32.6	32.6	89.6	89.7	6.8		3.1		4		-				-		-	
						4.1	0.1	118	19.3		8.1		32.6		89.7		6.8		3.1		4		-				-		-	
					Bottom	7.1	0.0	92	19.2	19.2	8.1	8.1	32.6	32.6	89.8	89.9	6.8	6.8	2.9		3		-				-		-	
						7.1	0.0	100	19.2		8.1		32.7		89.9		6.8		2.9		3		-				-		-	
SR4A	Cloudy	Moderate	09:10	8.9	Surface	1.0	0.3	111	18.4	18.4	8.2	8.2	32.7	32.7	91.5	91.5	7.1	7.1	3.6	5.3	6	6	-	-	817181	807803	-	-	-	-
						1.0	0.3	113	18.4		8.2		32.7		91.5		7.1		3.6		7		-				-		-	
					Middle	4.5	0.4	128	18.5	18.5	8.2	8.2	32.9	32.9	92.1	92.1	7.1		5.6		6		-				-		-	
						4.5	0.4	128	18.5		8.2		32.9		92.1		7.1		5.7		7		-				-		-	
					Bottom	7.9	0.3	132	18.5	18.5	8.2	8.2	33.0	33.0	93.0	93.1	7.2	7.2	6.6		6		-				-		-	
						7.9	0.4	143	18.5		8.2		33.0		93.2		7.2		6.6		6		-				-		-	
SR5A	Cloudy	Calm	08:52	3.2	Surface	1.0	0.1	132	18.1	18.1	8.2	8.2	32.1	32.1	93.3	93.5	7.3	7.3	3.6	3.6	5	6	-	-	816600	810698	-	-	-	-
						1.0	0.1	142	18.1		8.2		32.1		93.6		7.3		3.6		6		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.2	0.1	122	18.1	18.1	8.2	8.2	32.1	32.1	95.6	95.7	7.5	7.5	3.6		7		-				-		-	
						2.2	0.1	128	18.1		8.2		32.1		95.8		7.5		3.6		6		-				-		-	
SR6A	Cloudy	Calm	08:24	3.8	Surface	1.0	0.1	141	18.8	18.8	8.1	8.1	32.4	32.4	83.7	83.8	6.4	6.4	5.2	5.8	5	5	-	-	817961	814746	-	-	-	-
						1.0	0.1	154	18.8		8.1		32.4		83.9		6.4		5.4		6		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.8	0.1	132	18.8	18.8	8.1	8.1	32.4	32.4	84.6	84.7	6.5	6.5	6.2		4		-				-		-	
						2.8	0.1	144	18.8		8.1		32.4		84.7		6.5		6.4		4		-				-		-	
SR7	Cloudy	Moderate	08:25	16.3	Surface	1.0	0.1	105	19.8	19.8	8.2	8.2	33.3	33.3	85.2	85.2	6.4	6.4	1.2	1.4	3	4	-	-	823642	823726	-	-	-	-
						1.0	0.1	112	19.8		8.2		33.3		85.2		6.4		1.2		4		-				-		-	
					Middle	8.2	0.1	100	19.8	19.8	8.2	8.2	33.3	33.3	85.1	85.1	6.4		1.3		3		-				-		-	
						8.2	0.1	102	19.8		8.2		33.3		85.1		6.4		1.4		4		-				-		-	
					Bottom	15.3	0.1	77	19.8	19.8	8.2	8.2	33.3	33.3	85.1	85.1	6.4	6.4	1.5		3		-				-		-	
						15.3	0.1	81	19.8		8.2		33.3		85.1		6.4		1.5		4		-				-		-	
SR8	Cloudy	Moderate	09:51	4.4	Surface	1.0	-	-	19.5	19.5	8.1	8.1	32.7	32.7	86.4	86.4	6.6	6.6	3.2	3.8	4	3	-	-	820399	811630	-	-	-	-
						1.0	-	-	19.5		8.1		32.7		86.3		6.5		3.2		3		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.4	-	-	19.5	19.5	8.1	8.1	32.9	32.9	85.9	86.0	6.5	6.5	4.4		3		-				-		-	
						3.4	-	-	19.5		8.1		32.9		86.0		6.5		4.4		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 13 January 22 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
C1	Cloudy	Moderate	14:36	7.8	Surface	1.0	0.4	47	18.9	18.9	8.3	8.3	33.4	33.4	96.3	96.3	7.3	7.4	3.8	5.9	5	5	48	51	815626	804226	<0.2	<0.2	0.7	0.7
						1.0	0.4	48	18.9		8.3		33.4		96.3		7.3		3.8		5		47				<0.2		0.8	
					Middle	3.9	0.4	35	18.9	18.9	8.2	8.2	33.4	33.4	96.5	96.6	7.4		5.5		5		52				<0.2		0.7	
						3.9	0.4	37	18.9		8.2		33.4		96.6		7.4		6.1		6		51				<0.2		0.7	
					Bottom	6.8	0.3	40	18.8	18.8	8.3	8.3	33.3	33.3	98.2	98.4	7.5	7.5	8.2		6		54				<0.2		0.6	
						6.8	0.3	40	18.8		8.3		33.3		98.6		7.5		8.2		5		53				<0.2		0.8	
C2	Fine	Moderate	13:33	11.4	Surface	1.0	0.1	280	19.5	19.5	8.1	8.1	32.4	32.4	88.4	88.4	6.7	6.7	1.9	3.3	5	5	41	46	825696	806942	<0.2	<0.2	0.8	0.8
						1.0	0.1	302	19.5		8.1		32.4		88.3		6.7		1.9		5		41				<0.2		0.8	
					Middle	5.7	0.1	338	19.5	19.5	8.1	8.1	32.6	32.6	86.9	86.9	6.6		2.4		5		45				<0.2		0.9	
						5.7	0.1	338	19.5		8.1		32.6		86.9		6.6		2.5		6		46				<0.2		0.8	
					Bottom	10.4	0.2	321	19.5	19.5	8.1	8.1	32.8	32.8	85.7	85.7	6.5	6.5	5.7		6		50				<0.2		0.8	
						10.4	0.2	336	19.5		8.1		32.8		85.7		6.5		5.7		5		50				<0.2		0.8	
C3	Fine	Rough	15:31	12.6	Surface	1.0	0.3	245	19.8	19.8	8.1	8.1	33.3	33.3	86.3	86.3	6.5	6.5	1.1	1.3	3	4	46	49	822091	817788	<0.2	<0.2	0.8	0.8
						1.0	0.3	256	19.8		8.1		33.3		86.3		6.5		1.1		4		46				<0.2		0.8	
					Middle	6.3	0.4	254	19.8	19.8	8.1	8.1	33.3	33.3	86.1	86.1	6.5		1.3		3		48				<0.2		0.8	
						6.3	0.4	275	19.8		8.1		33.3		86.1		6.5		1.3		4		50				<0.2		0.8	
					Bottom	11.6	0.3	257	19.7	19.7	8.1	8.1	33.3	33.3	86.1	86.2	6.5	6.5	1.6		5		51				<0.2		0.8	
						11.6	0.3	261	19.7		8.1		33.3		86.2		6.5		1.6		5		52				<0.2		0.8	
IM1	Cloudy	Moderate	14:54	5.3	Surface	1.0	0.0	55	18.5	18.5	8.2	8.2	33.0	33.0	96.5	96.6	7.4	7.4	3.9	6.7	7	8	48	51	817968	807143	<0.2	<0.2	0.4	0.4
						1.0	0.0	57	18.5		8.2		33.0		96.7		7.4		3.9		8		50				<0.2		0.5	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.3	0.0	67	18.5	18.5	8.3	8.3	33.0	33.0	98.7	98.9	7.6	7.6	9.4		7		53				<0.2		0.4	
						4.3	0.0	67	18.5		8.3		33.0		99.0		7.6		9.5		8		51				<0.2		0.4	
IM2	Cloudy	Moderate	15:01	6.7	Surface	1.0	0.0	44	18.6	18.6	8.2	8.2	33.1	33.1	96.7	96.7	7.4	7.5	2.9	7.2	5	5	44	47	818154	806157	<0.2	<0.2	0.4	0.6
						1.0	0.0	44	18.6		8.2		33.1		96.6		7.4		3.0		6		46				<0.2		0.5	
					Middle	3.4	0.1	50	18.6	18.6	8.2	8.2	33.1	33.1	97.0	97.1	7.5		7.3		5		46				<0.2		0.7	
						3.4	0.1	52	18.6		8.2		33.1		97.1		7.5		7.0		5		48				<0.2		0.7	
					Bottom	5.7	0.0	53	18.6	18.6	8.2	8.2	33.1	33.1	98.9	99.0	7.6	7.6	11.4		5		49				<0.2		0.7	
						5.7	0.0	53	18.6		8.2		33.1		99.1		7.6		11.7		5		50				<0.2		0.6	
IM3	Cloudy	Moderate	15:07	7.1	Surface	1.0	0.1	67	18.6	18.6	8.2	8.2	33.0	33.0	97.3	97.3	7.5	7.5	2.0	4.5	6	6	43	45	818799	805572	<0.2	<0.2	0.5	0.6
						1.0	0.1	69	18.6		8.2		33.0		97.3		7.5		2.0		7		42				<0.2		0.6	
					Middle	3.6	0.1	59	18.6	18.6	8.2	8.2	33.1	33.1	98.2	98.4	7.5		4.7		6		45				<0.2		0.5	
						3.6	0.1	60	18.6		8.2		33.1		98.5		7.6		4.9		7		44				<0.2		0.6	
					Bottom	6.1	0.1	62	18.6	18.6	8.3	8.3	33.1	33.1	100.6	100.7	7.7	7.7	6.6		6		48				<0.2		0.6	
						6.1	0.1	67	18.6		8.3		33.1		100.8		7.7		6.6		5		49				<0.2		0.5	
IM4	Cloudy	Moderate	15:16	8.8	Surface	1.0	0.1	59	18.6	18.6	8.2	8.2	33.1	33.1	96.7	96.7	7.4	7.4	2.4	4.5	5	7	44	47	819729	804624	<0.2	<0.2	0.4	0.5
						1.0	0.1	64	18.6		8.2		33.1		96.7		7.4		2.4		5		43				<0.2		0.5	
					Middle	4.4	0.2	72	18.7	18.7	8.2	8.2	33.2	33.2	95.8	95.9	7.3		5.1		5		47				<0.2		0.5	
						4.4	0.2	76	18.7		8.2		33.2		95.9		7.4		5.2		6		46				<0.2		0.5	
					Bottom	7.8	0.1	65	18.7	18.7	8.2	8.2	33.2	33.2	96.4	96.5	7.4	7.4	5.9		9		49				<0.2		0.6	
						7.8	0.1	66	18.7		8.2		33.2		96.6		7.4		5.9		9		50				<0.2		0.6	
IM5	Cloudy	Moderate	15:23	8.4	Surface	1.0	0.2	43	18.6	18.6	8.2	8.2	33.1	33.1	96.1	96.2	7.4	7.4	5.0	6.1	12	12	43	47	820730	804888	<0.2	<0.2	0.6	0.5
						1.0	0.2	46	18.6		8.2		33.1		96.2		7.4		5.2		13		44				<0.2		0.5	
					Middle	4.2	0.2	52	18.6	18.6	8.2	8.2	33.1	33.1	96.8	96.9	7.4		6.1		11		46				<0.2		0.5	
						4.2	0.2	54	18.6		8.2		33.1		97.0		7.5		6.3		12		46				<0.2		0.5	
					Bottom	7.4	0.2	44	18.6	18.6	8.3	8.3	33.1	33.1	99.1	99.2	7.6	7.6	7.1		11		51				<0.2		0.4	
						7.4	0.2	45	18.6		8.3		33.1		99.2		7.6		7.1		11		52				<0.2		0.5	
IM6	Cloudy	Moderate	15:29	7.5	Surface	1.0	0.2	37	18.6	18.6	8.2	8.2	33.1	33.1	95.3	95.4	7.3	7.4	5.2	5.3	8	5	43	47	821056	805834	<0.2	<0.2	0.5	0.5
						1.0	0.2	39	18.6		8.2		33.1		95.4		7.3		5.2		7		42				<0.2		0.4	
					Middle	3.8	0.2	40	18.6	18.6	8.2	8.2	33.1	33.1	96.3	96.4	7.4		5.3		4		48				<0.2		0.5	
						3.8	0.2	43	18.6		8.2		33.1		96.5		7.4		5.3		4		46				<0.2		0.5	
					Bottom	6.5	0.2	45	18.5	18.5	8.3	8.3	33.1	33.0	98.6	98.7	7.6	7.6	5.5		4		52				<0.2		0.5	
						6.5	0.2	45	18.5		8.3		33.0		98.8		7.6		5.4		4		50				<0.2		0.4	
IM7	Cloudy	Moderate	15:36	8.6	Surface	1.0	0.2	29	18.5	18.5	8.2	8.2	32.5	32.5	95.1	95.2	7.3	7.4	2.2	2.9	7	7	42	47	821328	806825	<0.2	<0.2	0.4	0.5
						1.0	0.2	29	18.5		8.2		32.5		95.2		7.4		2.3		6		41				<0.2		0.4	
					Middle	4.3	0.3	31	18.5	18.5	8.2	8.2	32.7	32.7	97.3	97.4	7.5		3.1		7		48				<0.2		0.5	
						4.3	0.3	33	18.5		8.2		32.7		97.5		7.5		3.2		7		50				<0.2		0.5	
					Bottom	7.6	0.3	28	18.5	18.5	8.2	8.2	32.8	32.8	99.5	99.7	7.7	7.7	3.4		8		49				<0.2		0.5	
						7.6	0.3	29	18.5		8.2		32.8		99.9		7.7		3.5		8		51				<0.2		0.6	
IM8	Fine	Moderate	13:53	7.6	Surface	1.0	0.2	152	19.3	19.3	8.1	8.1	32.6	32.6	91.3	91.3	6.9	6.9	2.4	3.0	5	6	45	49	821839	808116	<0.2	<0.2	0.9	0.9
						1.0	0.2	155	19.3		8.1		32.6		91.3		6.9		2.4		6		46				<0.2		1.0	
					Middle	3.8	0.1	164	19.3	19.3	8.1	8.1	32.6	32.6	90.9	90.9	6.9		2.5		6		48				<0.2		0.8	
						3.8	0.1	164	19.3		8.1		32.6		90.8		6.9		2.5		7		48				<0.2		0.9	
					Bottom	6.6	0.0	231	19.2	19.2	8.1	8.1	32.6	32.6	90.4	90.4	6.9	6.9	4.0		7		53				<0.2		0.7	
						6.6	0.0	242	19.2		8.1		32.6		90.4		6.9		4.1		6		53				<0.2		0.8	

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

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 13 January 22 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	13:58	7.4	Surface	1.0	0.1	112	19.2	19.2	8.1	8.1	32.6	32.6	90.9	90.9	6.9	6.9	2.3	2.4	9	7	46	49	822090	808795	<0.2	<0.2	0.8	0.8
						1.0	0.1	112	19.2		8.1		32.6		90.9		6.9		2.3		8		46				<0.2		0.9	
					Middle	3.7	0.0	121	19.2	19.2	8.1	8.1	32.6	32.6	90.6	90.6	6.9		2.6		7		49				<0.2		0.7	
						3.7	0.0	122	19.2		8.1		32.6		90.6		6.9		2.6		6		49				<0.2		0.7	
					Bottom	6.4	0.0	330	19.1	19.1	8.1	8.1	32.6	32.6	90.6	90.7	6.9	6.9	2.3		6		52				<0.2		0.8	
						6.4	0.0	355	19.1		8.1		32.6		90.7		6.9		2.3		7		53				<0.2		0.9	
IM10	Fine	Rough	14:06	7.5	Surface	1.0	0.2	290	19.3	19.3	8.1	8.1	32.6	32.6	90.7	90.7	6.9	6.9	3.8	2.8	8	7	46	49	822403	809781	<0.2	<0.2	0.7	0.8
						1.0	0.2	292	19.3		8.1		32.6		90.7		6.9		3.9		9		46				<0.2		0.8	
					Middle	3.8	0.2	306	19.2	19.2	8.1	8.1	32.6	32.6	90.4	90.4	6.9		2.1		6		47				<0.2		0.7	
						3.8	0.2	308	19.2		8.1		32.6		90.3		6.9		2.0		7		48				<0.2		0.8	
					Bottom	6.5	0.2	300	19.2	19.2	8.1	8.1	32.6	32.6	89.9	89.9	6.9	6.9	2.6		6		52				<0.2		0.8	
						6.5	0.2	306	19.2		8.1		32.6		89.9		6.9		2.6		5		52				<0.2		0.8	
IM11	Fine	Rough	14:17	7.9	Surface	1.0	0.3	267	19.5	19.5	8.1	8.1	32.8	32.8	87.7	87.7	6.6	6.6	1.7	1.9	5	5	41	46	822066	811469	<0.2	<0.2	0.8	0.8
						1.0	0.4	268	19.5		8.1		32.8		87.7		6.6		1.8		6		41				<0.2		0.8	
					Middle	4.0	0.3	266	19.5	19.5	8.1	8.1	32.8	32.8	87.4	87.4	6.6		1.9		6		46				<0.2		0.7	
						4.0	0.3	271	19.5		8.1		32.8		87.3		6.6		1.9		5		46				<0.2		0.9	
					Bottom	6.9	0.3	268	19.5	19.5	8.1	8.1	32.8	32.8	87.0	87.0	6.6	6.6	2.0		5		49				<0.2		0.7	
						6.9	0.3	288	19.5		8.1		32.8		87.0		6.6		2.1		5		50				<0.2		0.8	
IM12	Fine	Rough	14:24	8.8	Surface	1.0	0.4	243	19.6	19.6	8.1	8.1	32.8	32.8	86.8	86.8	6.6	6.6	2.1	2.8	7	6	45	49	821437	812028	<0.2	<0.2	0.8	0.8
						1.0	0.4	249	19.6		8.1		32.8		86.8		6.6		2.1		7		46				<0.2		0.8	
					Middle	4.4	0.3	243	19.5	19.5	8.1	8.1	32.8	32.8	86.4	86.4	6.5		2.4		7		49				<0.2		0.7	
						4.4	0.3	251	19.5		8.1		32.8		86.4		6.5		2.5		6		49				<0.2		0.8	
					Bottom	7.8	0.2	251	19.5	19.5	8.1	8.1	32.8	32.8	86.0	86.0	6.5	6.5	3.9		5		53				<0.2		0.7	
						7.8	0.2	262	19.5		8.1		32.8		86.0		6.5		3.9		4		53				<0.2		0.8	
SR1A	Fine	Moderate	14:53	4.9	Surface	1.0	-	-	19.4	19.4	8.1	8.1	32.4	32.4	86.9	86.9	6.6	6.6	2.5	2.8	6	6	-	-	819981	812659	-	-	-	-
						1.0	-	-	19.4		8.1		32.4		86.9		6.6		2.5		7		-				-		-	
					Middle	2.5	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.5	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.9	-	-	19.4	19.4	8.1	8.1	32.5	32.5	86.6	86.7	6.6	6.6	3.1		5		-				-		-	
						3.9	-	-	19.4		8.1		32.5		86.7		6.6		3.1		6		-				-		-	
SR2	Fine	Rough	15:08	5.1	Surface	1.0	0.2	324	19.6	19.6	8.1	8.1	32.9	32.9	86.5	86.5	6.5	6.5	2.6	2.7	4	4	41	45	821473	814170	<0.2	<0.2	0.8	0.8
						1.0	0.2	324	19.6		8.1		32.9		86.5		6.5		2.6		3		41				<0.2		0.8	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.1	0.2	326	19.6	19.6	8.1	8.1	33.0	33.0	86.8	86.9	6.6	6.6	2.7		3		48				<0.2		0.9	
						4.1	0.2	357	19.6		8.1		33.0		86.9		6.6		2.8		4		49				<0.2		0.7	
SR3	Fine	Moderate	13:48	7.5	Surface	1.0	0.1	305	19.4	19.4	8.1	8.1	32.6	32.6	91.1	91.1	6.9	6.9	1.4	2.3	5	6	-	-	822145	807559	-	-	-	-
						1.0	0.1	322	19.4		8.1		32.6		91.1		6.9		1.4		6		-				-		-	
					Middle	3.8	0.1	267	19.4	19.4	8.1	8.1	32.6	32.6	90.8	90.8	6.9		1.9		5		-				-		-	
						3.8	0.1	288	19.4		8.1		32.6		90.7		6.9		1.9		6		-				-		-	
					Bottom	6.5	0.1	354	19.3	19.3	8.1	8.1	32.8	32.8	90.6	90.6	6.9	6.9	3.7		6		-				-		-	
						6.5	0.1	326	19.3		8.1		32.8		90.6		6.9		3.7		5		-				-		-	
SR4A	Cloudy	Moderate	14:16	9.2	Surface	1.0	0.1	299	18.4	18.4	8.2	8.2	32.9	32.9	94.3	94.4	7.3	7.3	3.7	4.3	7	7	-	-	817188	807794	-	-	-	-
						1.0	0.1	311	18.4		8.2		32.9		94.4		7.3		3.7		6		-				-		-	
					Middle	4.6	0.1	286	18.4	18.4	8.2	8.2	33.0	33.0	94.5	94.5	7.3		4.2		6		-				-		-	
						4.6	0.1	311	18.4		8.2		33.0		94.5		7.3		4.2		7		-				-		-	
					Bottom	8.2	0.1	279	18.4	18.4	8.2	8.2	33.0	33.0	96.3	96.5	7.4	7.5	4.9		7		-				-		-	
						8.2	0.1	305	18.4		8.2		33.0		96.7		7.5		4.8		6		-				-		-	
SR5A	Cloudy	Moderate	13:59	3.8	Surface	1.0	0.1	325	18.4	18.4	8.2	8.2	32.1	32.1	96.0	96.1	7.4	7.5	6.0	4.7	8	9	-	-	816574	810712	-	-	-	-
						1.0	0.1	347	18.4		8.2		32.1		96.1		7.5		6.2		9		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.8	0.0	300	18.4	18.4	8.2	8.2	32.1	32.1	96.9	97.1	7.5	7.5	3.4		8		-				-		-	
						2.8	0.0	325	18.4		8.2		32.1		97.2		7.5		3.2		9		-				-		-	
SR6A	Cloudy	Moderate	13:34	4.8	Surface	1.0	0.0	333	18.7	18.7	8.2	8.2	32.1	32.1	86.0	85.9	6.6	6.6	5.9	8.0	10	9	-	-	817946	814759	-	-	-	-
						1.0	0.0	349	18.7		8.2		32.2		85.8		6.6		6.1		9		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.8	0.0	326	18.7	18.7	8.2	8.2	32.3	32.3	85.2	85.3	6.6	6.6	9.8		7		-				-		-	
						3.8	0.0	345	18.7		8.2		32.3		85.4		6.6		10.0		8		-				-		-	
SR7	Fine	Rough	16:04	17.6	Surface	1.0	0.2	120	19.7	19.7	8.2	8.2	33.3	33.3	86.4	86.4	6.5	6.5	1.2	1.5	6	6	-	-	823615	823739	-	-	-	-
						1.0	0.2	121	19.7		8.2		33.3		86.4		6.5		1.2		6		-				-		-	
					Middle	8.8	0.2	106	19.7	19.7	8.2	8.2	33.3	33.3	86.1	86.1	6.5		1.7		5		-				-		-	
						8.8	0.2	107	19.7		8.2		33.3		86.1		6.5		1.6		6		-				-		-	
					Bottom	16.6	0.2	111	19.7	19.7	8.1	8.1	33.3	33.3	86.1	86.1	6.5	6.5	1.6		5		-				-		-	
						16.6	0.2	113	19.7		8.1		33.3		86.1		6.5		1.5		5		-				-		-	
SR8	Fine	Moderate	14:32	5.4	Surface	1.0	-	-	19.7	19.7	8.1	8.1	32.7	32.7	89.9	89.9	6.8	6.8	3.2	3.3	5	6	-	-	820405	811621	-	-	-	-
						1.0	-	-	19.7		8.1		32.7		89.8		6.8		3.2		5		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.4	-	-	19.5	19.5	8.1	8.1	32.8	32.8	88.3	88.3	6.7	6.7	3.3		7		-				-		-	
						4.4	-	-	19.5		8.1		32.8		88.3		6.7		3.3		7		-				-		-	

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

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 15 January 22 during Mid-Ebb Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
C1	Cloudy	Moderate	11:22	8.2	Surface	1.0	0.1	55	19.7	19.7	8.2	8.2	33.7	33.7	95.4	95.3	7.2	7.1	6.1	8.2	6	7	48	51	815601	804244	<0.2	<0.2	0.8	0.6
						1.0	0.1	57	19.7		8.2		33.7		95.2		7.1		6.2		6		47				<0.2		0.8	
					Middle	4.1	0.2	78	19.6	19.6	8.2	8.2	33.8	33.8	94.4	94.4	7.1		8.1		7		53				<0.2		0.5	
						4.1	0.2	79	19.6		8.2		33.8		94.4		7.1		8.3		6		51				<0.2		0.6	
					Bottom	7.2	0.1	69	19.6	19.6	8.2	8.2	33.8	33.8	94.6	94.6	7.1	7.1	10.1		7		54				<0.2		0.5	
						7.2	0.1	71	19.6		8.2		33.8		94.6		7.1		10.6		8		54				<0.2		0.5	
C2	Fine	Rough	10:25	9.8	Surface	1.0	0.3	312	18.3	18.3	8.2	8.2	32.2	32.2	91.9	91.9	7.1	7.1	4.2	5.6	4	5	45	48	825678	806967	<0.2	<0.2	1.0	0.9
						1.0	0.3	325	18.3		8.2		32.2		91.9		7.1		4.3		4		45				<0.2		0.8	
					Middle	4.9	0.1	95	18.2	18.2	8.2	8.2	32.2	32.2	91.8	91.8	7.1		5.3		5		48				<0.2		0.8	
						4.9	0.1	99	18.2		8.2		32.2		91.8		7.1		5.3		5		49				<0.2		0.9	
					Bottom	8.8	0.2	145	18.2	18.2	8.2	8.2	32.2	32.2	92.2	92.3	7.2	7.2	7.2		6		51				<0.2		0.9	
						8.8	0.2	149	18.2		8.2		32.2		92.3		7.2		7.3		6		52				<0.2		0.7	
C3	Fine	Rough	12:18	11.5	Surface	1.0	0.1	132	18.9	18.9	8.2	8.2	33.0	33.0	88.4	88.4	6.8	6.8	1.1	1.6	4	5	44	49	822106	817818	<0.2	<0.2	0.9	0.8
						1.0	0.1	143	18.9		8.2		33.0		88.3		6.8		1.0		4		45				<0.2		0.8	
					Middle	5.8	0.2	136	18.7	18.7	8.2	8.2	33.0	33.0	87.1	87.1	6.7		1.5		5		48				<0.2		0.7	
						5.8	0.2	140	18.7		8.2		33.0		87.1		6.7		1.6		5		48				<0.2		0.9	
					Bottom	10.5	0.2	129	18.7	18.7	8.2	8.2	33.0	33.0	87.2	87.3	6.7	6.7	2.1		5		53				<0.2		0.8	
						10.5	0.2	130	18.7		8.2		33.0		87.3		6.7		2.1		5		53				<0.2		0.8	
IM1	Cloudy	Moderate	11:04	4.9	Surface	1.0	0.0	320	19.1	19.1	8.2	8.2	33.7	33.7	95.0	95.1	7.2	7.2	5.4	6.0	10	9	48	51	817928	807125	<0.2	<0.2	0.5	0.5
						1.0	0.0	342	19.1		8.2		33.7		95.1		7.2		5.5		10		51				<0.2		0.5	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.9	0.0	313	19.2	19.2	8.2	8.2	33.6	33.6	96.3	96.5	7.3	7.3	6.6		8		54				<0.2		0.5	
						3.9	0.0	320	19.2		8.2		33.6		96.7		7.3		6.5		8		52				<0.2		0.5	
IM2	Cloudy	Moderate	10:57	6.6	Surface	1.0	0.1	359	19.4	19.4	8.2	8.2	33.8	33.8	95.0	95.0	7.2	7.2	6.4	9.7	10	9	44	48	818147	806174	<0.2	<0.2	0.5	0.5
						1.0	0.1	330	19.4		8.2		33.8		95.0		7.2		6.4		9		47				<0.2		0.6	
					Middle	3.3	0.1	8	19.4	19.4	8.2	8.2	33.8	33.8	94.9	94.9	7.2		7.8		9		47				<0.2		0.5	
						3.3	0.1	8	19.3		8.2		33.8		94.8		7.2		7.5		9		48				<0.2		0.4	
					Bottom	5.6	0.1	13	19.3	19.3	8.2	8.2	33.8	33.8	95.5	95.7	7.2	7.2	14.8		7		49				<0.2		0.5	
						5.6	0.1	14	19.3		8.2		33.8		95.8		7.2		15.2		7		51				<0.2		0.6	
IM3	Cloudy	Moderate	10:51	7.2	Surface	1.0	0.1	303	19.2	19.2	8.2	8.2	33.7	33.7	94.8	94.8	7.2	7.2	7.4	9.1	12	11	43	46	818799	805571	<0.2	<0.2	0.5	0.5
						1.0	0.1	328	19.2		8.2		33.7		94.8		7.2		7.6		11		43				<0.2		0.5	
					Middle	3.6	0.1	347	19.2	19.2	8.2	8.2	33.7	33.7	94.7	94.8	7.2		8.9		11		45				<0.2		0.6	
						3.6	0.1	319	19.2		8.2		33.7		94.8		7.2		9.2		11		45				<0.2		0.5	
					Bottom	6.2	0.1	35	19.1	19.1	8.2	8.2	33.7	33.7	95.7	95.8	7.2	7.3	10.8		10		49				<0.2		0.4	
						6.2	0.1	37	19.1		8.2		33.7		95.9		7.3		10.9		10		50				<0.2		0.5	
IM4	Cloudy	Moderate	10:41	8.6	Surface	1.0	0.2	334	19.3	19.3	8.2	8.2	33.8	33.8	95.3	95.3	7.2	7.2	8.7	10.5	11	10	44	47	819728	804590	<0.2	<0.2	0.4	0.5
						1.0	0.2	339	19.3		8.2		33.8		95.2		7.2		9.0		11		43				<0.2		0.5	
					Middle	4.3	0.2	3	19.2	19.2	8.2	8.2	33.8	33.8	95.5	95.6	7.2		10.7		10		47				<0.2		0.6	
						4.3	0.2	3	19.2		8.2		33.8		95.7		7.2		11.0		10		46				<0.2		0.5	
					Bottom	7.6	0.1	5	19.1	19.1	8.2	8.2	33.8	33.8	96.8	97.0	7.3	7.4	11.6		10		50				<0.2		0.5	
						7.6	0.1	5	19.1		8.2		33.8		97.1		7.4		11.7		10		51				<0.2		0.5	
IM5	Cloudy	Moderate	10:32	7.4	Surface	1.0	0.2	14	19.1	19.1	8.2	8.2	33.6	33.6	93.7	93.7	7.1	7.1	7.0	7.3	10	10	43	48	820745	804875	<0.2	<0.2	0.4	0.4
						1.0	0.2	15	19.1		8.2		33.6		93.7		7.1		7.0		10		44				<0.2		0.4	
					Middle	3.7	0.2	31	19.1	19.1	8.2	8.2	33.6	33.6	93.9	94.0	7.1		7.3		10		47				<0.2		0.5	
						3.7	0.2	31	19.1		8.2		33.6		94.0		7.1		7.4		10		47				<0.2		0.4	
					Bottom	6.4	0.2	37	19.0	19.0	8.2	8.2	33.6	33.6	96.1	96.3	7.3	7.3	7.7		9		52				<0.2		0.5	
						6.4	0.2	38	19.0		8.2		33.6		96.4		7.3		7.7		9		52				<0.2		0.4	
IM6	Cloudy	Moderate	10:25	7.2	Surface	1.0	0.0	205	19.0	19.0	8.2	8.2	33.1	33.1	93.0	93.0	7.1	7.1	4.7	5.7	5	6	43	47	821036	805845	<0.2	<0.2	0.5	0.5
						1.0	0.0	208	19.0		8.2		33.2		93.0		7.1		4.8		6		43				<0.2		0.5	
					Middle	3.6	0.1	137	19.0	19.0	8.2	8.2	33.4	33.4	93.2	93.3	7.1		5.8		6		48				<0.2		0.5	
						3.6	0.1	140	19.0		8.2		33.4		93.3		7.1		6.0		6		47				<0.2		0.6	
					Bottom	6.2	0.1	90	19.0	19.0	8.2	8.2	33.4	33.4	94.1	94.2	7.2	7.2	6.5		6		52				<0.2		0.4	
						6.2	0.1	96	19.0		8.2		33.4		94.2		7.2		6.5		6		51				<0.2		0.4	
IM7	Cloudy	Moderate	10:20	8.5	Surface	1.0	0.1	259	19.1	19.1	8.2	8.2	32.7	32.7	92.1	92.2	7.0	7.1	3.9	5.9	10	10	42	47	821341	806822	<0.2	<0.2	0.4	0.5
						1.0	0.1	262	19.0		8.2		32.7		92.2		7.0		4.0		10		42				<0.2		0.5	
					Middle	4.3	0.1	151	18.9	18.9	8.2	8.2	33.3	33.3	92.5	92.6	7.1		6.3		10		48				<0.2		0.4	
						4.3	0.1	164	18.9		8.3		33.3		92.6		7.1		6.5		10		51				<0.2		0.5	
					Bottom	7.5	0.2	134	18.9	18.9	8.3	8.3	33.4	33.4	92.6	92.6	7.1	7.1	7.2		11		50				<0.2		0.5	
						7.5	0.2	134	18.9		8.3		33.4		92.6		7.1		7.4		11		51				<0.2		0.4	
IM8	Fine	Rough	10:48	8.1	Surface	1.0	0.1	90	18.4	18.4	8.2	8.2	32.2	32.2	91.7	91.7	7.1	7.1	3.1	3.9	7	6	46	49	821825	808151	<0.2	<0.2	0.6	0.7
						1.0	0.1	94	18.4		8.2		32.2		91.7		7.1		3.1		8		46				<0.2		0.7	
					Middle	4.1	0.2	104	18.3	18.3	8.2	8.2	32.3	32.3	91.0	91.0	7.1		3.7		6		48				<0.2		0.7	
						4.1	0.2	113	18.3		8.2		32.3		91.0		7.1		3.7		6		48				<0.2		0.7	
					Bottom	7.1	0.2	119	18.3	18.3	8.2	8.2	32.8	32.8	91.0	91.1	7.0	7.1	5.0		5		52				<0.2		0.6	
						7.1	0.2	121	18.3		8.2		32.8		91.1		7.1		5.0		5		53				<0.2		0.7	

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

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 15 January 22 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	Rough	10:54	7.9	Surface	1.0	0.3	94	18.4	18.4	8.2	8.2	32.4	32.4	91.1	91.1	7.1	7.1	3.0	3.6	5	5	41	47	822100	808806	<0.2	<0.2	0.7	0.7
						1.0	0.3	101	18.4		8.2		32.4		91.1		7.1		3.1		6		42				<0.2		0.8	
					Middle	4.0	0.2	98	18.3	18.3	8.2	8.2	32.6	32.6	90.9	90.9	7.0		3.2		5		48				<0.2		0.7	
						4.0	0.2	104	18.3		8.2		32.6		90.9		7.0		3.2		5		48				<0.2		0.6	
					Bottom	6.9	0.2	95	18.2	18.3	8.2	8.2	32.8	32.8	91.2	91.3	7.1	7.1	4.6		5		51				<0.2		0.7	
						6.9	0.2	103	18.3		8.2		32.8		91.3		7.1		4.7		5		52				<0.2		0.7	
IM10	Fine	Rough	11:01	8.2	Surface	1.0	0.1	42	18.4	18.4	8.2	8.2	32.6	32.6	92.5	92.5	7.2	7.2	2.4	3.0	6	6	44	49	822405	809797	<0.2	<0.2	0.6	0.7
						1.0	0.1	46	18.4		8.2		32.6		92.5		7.2		2.4		6		45				<0.2		0.6	
					Middle	4.1	0.2	53	18.3	18.3	8.2	8.2	32.7	32.7	91.7	91.7	7.1		2.6		6		49				<0.2		0.6	
						4.1	0.2	53	18.3		8.2		32.7		91.7		7.1		2.6		6		50				<0.2		0.7	
					Bottom	7.2	0.2	89	18.3	18.3	8.2	8.2	32.7	32.7	90.9	91.0	7.0	7.0	4.0		6		51				<0.2		0.7	
						7.2	0.2	94	18.3		8.2		32.7		91.0		7.0		4.1		5		52				<0.2		0.7	
IM11	Fine	Rough	11:11	8.4	Surface	1.0	0.1	188	18.5	18.5	8.2	8.2	32.8	32.8	88.7	88.7	6.8	6.9	3.7	4.2	5	6	43	48	822062	811436	<0.2	<0.2	0.7	0.7
						1.0	0.1	193	18.5		8.2		32.8		88.7		6.8		3.7		6		44				<0.2		0.7	
					Middle	4.2	0.1	202	18.5	18.5	8.2	8.2	32.8	32.8	89.4	89.4	6.9		3.8		6		48				<0.2		0.8	
						4.2	0.1	214	18.5		8.2		32.8		89.4		6.9		3.8		6		49				<0.2		0.7	
					Bottom	7.4	0.1	187	18.5	18.5	8.2	8.2	32.8	32.8	90.0	90.1	6.9	6.9	5.1		6		51				<0.2		0.7	
						7.4	0.1	202	18.5		8.2		32.8		90.1		6.9		5.1		6		51				<0.2		0.7	
IM12	Fine	Rough	11:17	9.0	Surface	1.0	0.2	202	18.6	18.6	8.2	8.2	32.9	32.9	88.5	88.5	6.8	6.8	3.1	3.4	6	6	41	46	821457	812022	<0.2	<0.2	0.7	0.7
						1.0	0.2	207	18.6		8.2		32.9		88.5		6.8		3.2		6		42				<0.2		0.7	
					Middle	4.5	0.1	199	18.6	18.6	8.2	8.2	32.9	32.9	88.3	88.3	6.8		3.5		6		46				<0.2		0.7	
						4.5	0.1	206	18.6		8.2		32.9		88.3		6.8		3.5		5		46				<0.2		0.7	
					Bottom	8.0	0.1	167	18.6	18.6	8.2	8.2	32.9	32.9	88.5	88.5	6.8	6.8	3.6		5		49				<0.2		0.7	
						8.0	0.1	169	18.6		8.2		32.9		88.5		6.8		3.7		5		50				<0.2		0.7	
SR1A	Fine	Moderate	11:44	4.7	Surface	1.0	-	-	18.3	18.3	8.2	8.2	32.5	32.5	89.4	89.4	6.9	6.9	3.2	3.4	4	5	-	-	819974	812658	-	-	-	-
						1.0	-	-	18.3		8.2		32.5		89.4		6.9		3.2		4		-				-		-	
					Middle	2.4	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.4	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.7	-	-	18.3	18.3	8.2	8.2	32.6	32.6	89.6	89.6	6.9	6.9	3.6		5		-				-		-	
						3.7	-	-	18.3		8.2		32.6		89.6		6.9		3.6		5		-				-		-	
SR2	Fine	Rough	11:58	4.9	Surface	1.0	0.2	98	18.8	18.8	8.2	8.2	32.9	32.9	89.2	89.2	6.8	6.8	2.7	3.2	7	6	45	47	821467	814165	<0.2	<0.2	0.6	0.7
						1.0	0.2	101	18.8		8.2		32.9		89.2		6.8		2.7		6		45				<0.2		0.7	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.9	0.1	89	18.7	18.7	8.2	8.2	32.9	32.9	89.4	89.5	6.9	6.9	3.6		5		48				<0.2		0.7	
						3.9	0.1	95	18.7		8.2		32.9		89.5		6.9		3.7		5		48				<0.2		0.6	
SR3	Fine	Rough	10:43	8.3	Surface	1.0	0.1	126	18.4	18.4	8.2	8.2	32.3	32.3	91.8	91.8	7.1	7.2	3.2	4.7	4	5	-	-	822125	807563	-	-	-	-
						1.0	0.1	129	18.4		8.2		32.3		91.8		7.1		3.2		4		-				-		-	
					Middle	4.2	0.0	157	18.3	18.3	8.2	8.2	32.4	32.4	92.2	92.3	7.2		3.5		4		-				-		-	
						4.2	0.0	164	18.3		8.2		32.4		92.3		7.2		3.5		5		-				-		-	
					Bottom	7.3	0.2	118	18.2	18.2	8.2	8.2	33.1	33.1	93.5	93.6	7.2	7.2	7.4		6		-				-		-	
						7.3	0.2	128	18.2		8.2		33.1		93.6		7.2		7.4		6		-				-		-	
SR4A	Cloudy	Moderate	11:42	9.4	Surface	1.0	0.3	68	19.4	19.4	8.2	8.2	33.8	33.8	94.9	94.9	7.2	7.2	5.1	6.0	6	7	-	-	817211	807829	-	-	-	-
						1.0	0.3	73	19.3		8.2		33.8		94.8		7.2		5.2		6		-				-		-	
					Middle	4.7	0.3	69	19.3	19.3	8.2	8.2	33.7	33.7	94.8	94.8	7.2		6.3		6		-				-		-	
						4.7	0.3	70	19.3		8.2		33.7		94.8		7.2		6.3		7		-				-		-	
					Bottom	8.4	0.2	69	19.3	19.3	8.2	8.2	33.7	33.7	95.1	95.1	7.2	7.2	6.6		8		-				-		-	
						8.4	0.3	73	19.3		8.2		33.7		95.1		7.2		6.6		8		-				-		-	
SR5A	Cloudy	Moderate	11:57	3.8	Surface	1.0	0.1	33	18.9	18.9	8.1	8.1	32.9	32.9	94.2	94.3	7.2	7.2	5.6	6.0	6	7	-	-	816601	810711	-	-	-	-
						1.0	0.1	35	18.9		8.1		32.9		94.3		7.2		5.7		6		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.8	0.1	35	18.9	18.9	8.1	8.1	32.9	32.9	94.7	94.8	7.2	7.2	6.3		7		-				-		-	
						2.8	0.1	37	18.9		8.1		32.9		94.8		7.2		6.5		7		-				-		-	
SR6A	Cloudy	Moderate	12:38	4.7	Surface	1.0	0.0	48	19.4	19.4	8.1	8.1	32.9	32.9	91.3	91.3	6.9	6.9	5.3	5.8	6	7	-	-	817948	814756	-	-	-	-
						1.0	0.0	50	19.4		8.1		32.9		91.3		6.9		5.3		6		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.7	0.0	34	19.4	19.4	8.1	8.1	32.9	32.9	92.3	92.3	7.0	7.0	6.3		7		-				-		-	
						3.7	0.0	35	19.4		8.1		32.9		92.3		7.0		6.3		7		-				-		-	
SR7	Fine	Rough	12:47	13.8	Surface	1.0	0.0	325	18.7	18.7	8.2	8.2	33.0	33.0	87.5	87.5	6.7	6.7	1.9	2.3	6	5	-	-	823643	823765	-	-	-	-
						1.0	0.0	339	18.7		8.2		33.0		87.5		6.7		1.9		6		-				-		-	
					Middle	6.9	0.0	79	18.7	18.7	8.2	8.2	33.0	33.0	87.3	87.3	6.7		2.7		4		-				-		-	
						6.9	0.0	80	18.7		8.2		33.0		87.3		6.7		2.7		5		-				-		-	
					Bottom	12.8	0.0	290	18.7	18.7	8.2	8.2	33.0	33.0	87.6	87.7	6.7	6.7	2.4		4		-				-		-	
						12.8	0.0	314	18.7		8.2		33.0		87.7		6.7		2.4		4		-				-		-	
SR8	Fine	Moderate	11:24	5.1	Surface	1.0	-	-	18.7	18.8	8.2	8.2	32.7	32.7	93.1	93.1	7.2	7.2	3.0	4.1	5	6	-	-	820368	811637	-	-	-	-
						1.0	-	-	18.8		8.2		32.7		93.1		7.2		3.0		5		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.1	-	-	18.5	18.5	8.2	8.2	32.7	32.7	92.5	92.6	7.1	7.1	5.2		6		-				-		-	
						4.1	-	-	18.5		8.2		32.7		92.6		7.1		5.2		6		-				-		-	

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

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 15 January 22 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
C1	Cloudy	Moderate	07:16	7.2	Surface	1.0	0.3	20	19.6	19.6	8.2	8.2	33.9	33.9	94.6	94.6	7.1	7.1	14.8	15.1	11	13	49	52	815603	804236	<0.2	<0.2	0.5	0.5
						1.0	0.3	21	19.6		8.2		33.9		94.6		7.1		14.8		11		48				<0.2		0.5	
					Middle	3.6	0.3	21	19.6	19.6	8.2	8.2	33.9	33.9	94.6	94.6	7.1		14.8		13		52				<0.2		0.5	
						3.6	0.3	21	19.6		8.2		33.9		94.6		7.1		14.6		12		51				<0.2		0.7	
					Bottom	6.2	0.3	28	19.5	19.5	8.2	8.2	33.9	33.9	94.9	95.0	7.1	7.1	15.7		15		57				<0.2		0.5	
						6.2	0.3	29	19.5		8.2		33.9		95.0		7.1		15.7		16		56				<0.2		0.5	
C2	Fine	Rough	08:33	9.6	Surface	1.0	0.2	350	18.4	18.4	8.2	8.2	32.2	32.2	89.2	89.3	6.9	6.9	2.5	3.0	5	5	43	47	825669	806968	<0.2	<0.2	0.8	0.7
						1.0	0.2	322	18.4		8.2		32.2		89.3		6.9		2.5		6		43				<0.2		0.6	
					Middle	4.8	0.2	345	18.4	18.4	8.2	8.2	32.2	32.2	89.2	89.2	6.9		3.4		5		47				<0.2		0.7	
						4.8	0.2	317	18.4		8.2		32.2		89.2		6.9		3.4		5		47				<0.2		0.6	
					Bottom	8.6	0.2	336	18.4	18.4	8.2	8.2	32.2	32.2	89.4	89.4	6.9	6.9	3.2		5		52				<0.2		0.6	
						8.6	0.2	354	18.4		8.2		32.2		89.4		6.9		3.2		5		52				<0.2		0.7	
C3	Fine	Rough	06:44	10.3	Surface	1.0	0.3	281	18.7	18.7	8.2	8.2	32.9	32.9	86.7	86.7	6.7	6.7	2.6	2.7	5	5	42	48	822099	817784	<0.2	<0.2	0.7	0.7
						1.0	0.3	282	18.7		8.2		32.9		86.7		6.7		2.6		5		43				<0.2		0.8	
					Middle	5.2	0.4	271	18.7	18.7	8.2	8.2	32.9	32.9	86.8	86.8	6.7		2.7		5		49				<0.2		0.7	
						5.2	0.4	287	18.7		8.2		32.9		86.8		6.7		2.6		5		49				<0.2		0.7	
					Bottom	9.3	0.4	277	18.7	18.7	8.2	8.2	32.9	32.9	87.3	87.4	6.7	6.7	2.7		5		52				<0.2		0.8	
						9.3	0.4	277	18.7		8.2		32.9		87.4		6.7		2.8		5		53				<0.2		0.7	
IM1	Cloudy	Moderate	07:35	5.0	Surface	1.0	0.1	6	19.1	19.1	8.2	8.2	33.7	33.7	94.4	94.5	7.2	7.2	5.6	5.8	8	11	51	52	817950	807111	<0.2	<0.2	0.5	0.4
						1.0	0.1	6	19.1		8.2		33.7		94.6		7.2		5.7		8		49				<0.2		0.4	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.0	0.1	18	19.1	19.1	8.2	8.2	33.7	33.7	95.8	95.9	7.3	7.3	5.9		13		53				<0.2		0.4	
						4.0	0.1	19	19.1		8.2		33.7		96.0		7.3		6.0		14		55				<0.2		0.4	
IM2	Cloudy	Moderate	07:45	6.5	Surface	1.0	0.1	341	19.0	19.0	8.2	8.2	33.7	33.7	93.6	93.6	7.1	7.1	11.3	15.0	13	14	46	52	818182	806169	<0.2	<0.2	0.4	0.4
						1.0	0.2	314	19.0		8.2		33.7		93.6		7.1		11.3		12		51				<0.2		0.5	
					Middle	3.3	0.1	348	19.0	19.0	8.2	8.2	33.7	33.7	93.6	93.6	7.1		17.5		15		52				<0.2		0.4	
						3.3	0.1	320	19.0		8.2		33.7		93.6		7.1		19.6		15		53				<0.2		0.4	
					Bottom	5.5	0.1	342	19.0	19.0	8.2	8.2	33.6	33.6	94.1	94.1	7.1	7.2	14.7		15		55				<0.2		0.4	
						5.5	0.2	315	19.0		8.2		33.6		94.1		7.2		15.8		15		54				<0.2		0.5	
IM3	Cloudy	Moderate	07:52	6.8	Surface	1.0	0.2	315	18.9	18.9	8.2	8.2	33.6	33.6	93.6	93.6	7.1	7.1	11.3	12.1	15	13	45	48	818777	805574	<0.2	<0.2	0.4	0.5
						1.0	0.2	340	18.9		8.2		33.6		93.6		7.1		11.3		14		45				<0.2		0.5	
					Middle	3.4	0.2	318	18.9	18.9	8.2	8.2	33.6	33.6	93.9	94.0	7.1		12.3		12		48				<0.2		0.5	
						3.4	0.2	320	18.9		8.2		33.6		94.0		7.2		12.2		12		48				<0.2		0.4	
					Bottom	5.8	0.2	316	18.9	18.9	8.2	8.2	33.6	33.6	94.5	94.5	7.2	7.2	12.8		11		53				<0.2		0.5	
						5.8	0.2	342	18.9		8.2		33.6		94.5		7.2		13.0		11		51				<0.2		0.4	
IM4	Cloudy	Moderate	08:00	8.0	Surface	1.0	0.3	332	18.9	18.9	8.2	8.2	33.7	33.7	94.1	94.1	7.2	7.2	14.5	15.1	16	17	47	49	819730	804628	<0.2	<0.2	0.4	0.4
						1.0	0.3	305	18.9		8.2		33.7		94.1		7.2		14.7		17		45				<0.2		0.4	
					Middle	4.0	0.3	334	18.9	18.9	8.2	8.2	33.7	33.7	94.2	94.2	7.2		15.2		17		48				<0.2		0.4	
						4.0	0.3	356	18.9		8.2		33.7		94.2		7.2		15.3		17		50				<0.2		0.4	
					Bottom	7.0	0.3	337	18.9	18.9	8.2	8.2	33.7	33.7	94.7	94.8	7.2	7.2	15.6		17		51				<0.2		0.4	
						7.0	0.3	310	18.9		8.2		33.7		94.9		7.2		15.6		17		52				<0.2		0.4	
IM5	Cloudy	Moderate	08:08	8.1	Surface	1.0	0.4	344	18.9	18.9	8.2	8.2	33.4	33.4	92.7	92.7	7.1	7.1	8.2	9.1	21	19	49	52	820750	804861	<0.2	<0.2	0.3	0.4
						1.0	0.4	316	18.9		8.2		33.4		92.7		7.1		8.2		20		50				<0.2		0.5	
					Middle	4.1	0.3	351	18.9	18.9	8.2	8.2	33.4	33.4	92.5	92.5	7.0		9.3		19		51				<0.2		0.4	
						4.1	0.4	357	18.9		8.2		33.4		92.5		7.0		9.4		19		51				<0.2		0.4	
					Bottom	7.1	0.4	354	18.9	18.9	8.2	8.2	33.4	33.4	92.9	93.0	7.1	7.1	9.9		16		56				<0.2		0.4	
						7.1	0.4	326	18.9		8.2		33.4		93.0		7.1		9.8		16		57				<0.2		0.5	
IM6	Cloudy	Moderate	08:16	7.6	Surface	1.0	0.1	317	18.9	18.9	8.2	8.2	33.1	33.1	92.4	92.4	7.1	7.1	4.4	9.0	10	11	49	53	821080	805845	<0.2	<0.2	0.5	0.5
						1.0	0.1	344	18.9		8.2		33.1		92.4		7.1		4.5		10		50				<0.2		0.6	
					Middle	3.8	0.1	83	18.9	18.9	8.2	8.2	33.3	33.3	92.7	92.8	7.1		8.5		10		52				<0.2		0.5	
						3.8	0.1	83	18.9		8.2		33.3		92.8		7.1		9.3		11		52				<0.2		0.4	
					Bottom	6.6	0.1	87	18.9	18.9	8.1	8.1	33.4	33.4	93.5	93.6	7.1	7.1	13.7		13		56				<0.2		0.4	
						6.6	0.1	88	18.9		8.1		33.4		93.7		7.1		13.9		13		57				<0.2		0.4	
IM7	Cloudy	Moderate	08:25	7.9	Surface	1.0	0.1	282	19.0	19.0	8.1	8.1	32.8	32.8	92.0	92.0	7.0	7.1	4.8	10.3	14	12	46	52	821330	806853	<0.2	<0.2	0.4	0.5
						1.0	0.1	285	19.0		8.1		32.8		92.0		7.0		5.2		13		49				<0.2		0.4	
					Middle	4.0	0.1	176	18.9	18.9	8.2	8.2	33.3	33.3	92.8	92.8	7.1		10.7		12		52				<0.2		0.4	
						4.0	0.1	184	18.9		8.2		33.3		92.8		7.1		11.3		12		51				<0.2		0.4	
					Bottom	6.9	0.1	114	18.9	18.9	8.2	8.2	33.4	33.4	93.1	93.2	7.1	7.1	14.3		10		57				<0.2		0.6	
						6.9	0.2	119	18.9		8.2		33.4		93.2		7.1		15.3		10		55				<0.2		0.5	
IM8	Fine	Rough	08:10	7.3	Surface	1.0	0.1	41	18.3	18.3	8.2	8.2	32.5	32.5	89.9	90.0	7.0	7.0	4.2	5.5	10	9	44	49	821824	808147	<0.2	<0.2	0.7	0.7
						1.0	0.1	43	18.3		8.2		32.5		90.0		7.0		4.3		9		44				<0.2		0.6	
					Middle	3.7	0.1	111	18.3	18.3	8.2	8.2	32.5	32.5	89.9	89.9	7.0		5.3		9		48				<0.2		0.7	
						3.7	0.1	114	18.3		8.2		32.5		89.9		7.0		5.3		9		49				<0.2		0.6	
					Bottom	6.3	0.1	100	18.2	18.2	8.2	8.2	32.8	32.8	90.3	90.4	7.0	7.0	6.9		9		54				<0.2		0.7	
						6.3	0.1	105	18.2		8.2		32.8		90.4		7.0		6.9		8		54				<0.2		0.7	

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

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 15 January 22 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	Rough	08:04	6.7	Surface	1.0	0.0	160	18.2	18.2	8.2	8.2	32.8	32.8	90.1	90.1	7.0	7.0	4.3	4.2	12	10	41	47	822072	808803	<0.2	<0.2	0.8	0.7
						1.0	0.0	163	18.2		8.2		32.8		90.1		7.0		4.3		12		41				<0.2		0.6	
					Middle	3.4	0.0	39	18.2	18.2	8.2	8.2	32.8	32.8	90.1	90.1	7.0		4.4		10		48				<0.2		0.7	
						3.4	0.0	41	18.2		8.2		32.8		90.1		7.0		4.4		10		48				<0.2		0.7	
					Bottom	5.7	0.0	183	18.2	18.2	8.2	8.2	32.8	32.8	90.5	90.6	7.0	7.0	4.0		7		53				<0.2		0.8	
						5.7	0.0	185	18.2		8.2		32.8		90.6		7.0		4.0		7		53				<0.2		0.6	
IM10	Fine	Rough	07:58	7.5	Surface	1.0	0.4	299	18.2	18.2	8.2	8.2	32.7	32.7	89.4	89.4	6.9	6.9	3.8	3.8	8	7	43	48	822399	809810	<0.2	<0.2	0.8	0.7
						1.0	0.4	325	18.2		8.2		32.7		89.4		6.9		3.9		8		44				<0.2		0.7	
					Middle	3.8	0.5	288	18.2	18.2	8.2	8.2	32.7	32.7	89.3	89.3	6.9		3.7		8		49				<0.2		0.6	
						3.8	0.5	297	18.2		8.2		32.7		89.3		6.9		3.7		8		48				<0.2		0.7	
					Bottom	6.5	0.4	293	18.2	18.2	8.2	8.2	32.7	32.7	89.4	89.4	6.9	6.9	4.0		6		52				<0.2		0.7	
						6.5	0.5	300	18.2		8.2		32.7		89.4		6.9		4.0		6		53				<0.2		0.8	
IM11	Fine	Moderate	07:49	7.8	Surface	1.0	0.3	267	18.5	18.5	8.2	8.2	32.8	32.8	87.5	87.5	6.8	6.8	7.2	8.4	10	8	41	47	822075	811474	<0.2	<0.2	0.7	0.7
						1.0	0.3	293	18.5		8.2		32.8		87.5		6.8		7.2		8		41				<0.2		0.6	
					Middle	3.9	0.2	302	18.5	18.5	8.2	8.2	32.8	32.8	87.4	87.4	6.7		8.5		8		48				<0.2		0.8	
						3.9	0.2	316	18.5		8.2		32.8		87.4		6.7		8.5		8		49				<0.2		0.8	
					Bottom	6.8	0.3	283	18.5	18.5	8.2	8.2	32.8	32.8	87.5	87.6	6.8	6.8	9.5		8		51				<0.2		0.7	
						6.8	0.3	284	18.5		8.2		32.8		87.6		6.8		9.5		8		51				<0.2		0.8	
IM12	Fine	Moderate	07:44	8.4	Surface	1.0	0.4	273	18.4	18.4	8.2	8.2	32.8	32.8	84.4	84.4	6.5	6.5	4.4	5.7	6	8	44	48	821437	812060	<0.2	<0.2	0.7	0.7
						1.0	0.5	292	18.4		8.2		32.8		84.4		6.5		4.4		6		44				<0.2		0.6	
					Middle	4.2	0.4	276	18.4	18.4	8.2	8.2	32.8	32.8	83.4	83.4	6.4		4.7		8		49				<0.2		0.6	
						4.2	0.4	301	18.4		8.2		32.8		83.4		6.4		4.7		8		50				<0.2		0.7	
					Bottom	7.4	0.4	262	18.4	18.4	8.2	8.2	32.8	32.8	81.3	81.3	6.3	6.3	7.9		8		51				<0.2		0.7	
						7.4	0.4	288	18.4		8.2		32.8		81.2		6.3		7.8		9		52				<0.2		0.6	
SR1A	Fine	Moderate	07:17	4.9	Surface	1.0	-	-	18.1	18.1	8.1	8.1	32.5	32.5	86.6	86.6	6.7	6.7	2.3	2.4	8	9	-	-	819982	812656	-	-	-	-
						1.0	-	-	18.1		8.1		32.5		86.5		6.7		2.3		8		-				-		-	
					Middle	2.5	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.5	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.9	-	-	18.2	18.2	8.1	8.1	32.5	32.5	86.6	86.6	6.7	6.7	2.4		9		-				-		-	
						3.9	-	-	18.2		8.1		32.5		86.6		6.7		2.4		9		-				-		-	
SR2	Fine	Rough	07:03	4.7	Surface	1.0	0.1	19	18.4	18.4	8.2	8.2	32.8	32.8	88.2	88.2	6.8	6.8	5.7	6.4	8	10	45	47	821462	814149	<0.2	<0.2	0.7	0.7
						1.0	0.1	19	18.4		8.2		32.8		88.2		6.8		5.8		9		45				<0.2		0.6	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.7	0.1	57	18.4	18.4	8.2	8.2	32.8	32.8	90.1	90.3	7.0	7.0	7.1		11		49				<0.2		0.7	
						3.7	0.1	58	18.4		8.2		32.8		90.4		7.0		7.1		10		48				<0.2		0.7	
SR3	Fine	Rough	08:15	7.9	Surface	1.0	0.1	50	18.3	18.3	8.2	8.2	32.3	32.3	89.7	89.7	7.0	7.0	3.4	3.8	8	7	-	-	822128	807578	-	-	-	-
						1.0	0.1	51	18.3		8.2		32.3		89.7		7.0		3.4		8		-				-		-	
					Middle	4.0	0.1	59	18.3	18.3	8.2	8.2	32.3	32.3	89.6	89.6	6.9		3.7		6		-				-		-	
						4.0	0.1	61	18.3		8.2		32.3		89.6		6.9		3.7		6		-				-		-	
					Bottom	6.9	0.0	321	18.3	18.3	8.2	8.2	32.7	32.7	89.9	89.9	7.0	7.0	4.2		6		-				-		-	
						6.9	0.0	326	18.3		8.2		32.7		89.9		7.0		4.3		6		-				-		-	
SR4A	Cloudy	Moderate	06:55	8.9	Surface	1.0	0.2	91	18.8	18.8	8.2	8.2	33.4	33.4	92.6	92.6	7.1	7.1	7.4	7.2	13	15	-	-	817192	807818	-	-	-	-
						1.0	0.2	99	18.8		8.2		33.4		92.5		7.1		7.5		13		-				-		-	
					Middle	4.5	0.2	74	18.9	18.9	8.2	8.2	33.5	33.5	92.7	92.7	7.1		7.4		15		-				-		-	
						4.5	0.2	80	18.9		8.2		33.5		92.7		7.1		7.3		15		-				-		-	
					Bottom	7.9	0.2	69	18.9	18.9	8.2	8.2	33.5	33.5	92.8	92.8	7.1	7.1	6.8		16		-				-		-	
						7.9	0.2	71	18.8		8.2		33.5		92.8		7.1		6.6		16		-				-		-	
SR5A	Cloudy	Moderate	06:36	3.7	Surface	1.0	0.0	16	18.6	18.6	8.0	8.0	32.8	32.8	91.1	91.2	7.0	7.0	4.3	4.6	12	11	-	-	816588	810706	-	-	-	-
						1.0	0.0	17	18.6		8.0		32.8		91.2		7.0		4.4		12		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.7	0.0	6	18.6	18.6	8.0	8.0	32.8	32.8	92.9	93.0	7.2	7.2	4.8		10		-				-		-	
						2.7	0.0	6	18.6		8.0		32.8		93.1		7.2		5.0		9		-				-		-	
SR6A	Cloudy	Moderate	06:10	4.7	Surface	1.0	0.0	181	19.0	19.0	8.1	8.1	32.9	32.9	86.4	86.4	6.6	6.6	10.3	12.5	8	7	-	-	817975	814739	-	-	-	-
						1.0	0.0	181	19.0		8.1		32.9		86.4		6.6		10.9		8		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.7	0.0	188	19.1	19.1	8.2	8.2	32.9	32.9	86.6	86.6	6.6	6.6	14.9		7		-				-		-	
						3.7	0.0	198	19.1		8.2		32.9		86.6		6.6		13.7		6		-				-		-	
SR7	Fine	Rough	06:18	18.4	Surface	1.0	0.2	45	18.7	18.7	8.2	8.2	33.0	33.0	86.2	86.3	6.6	6.6	2.6	2.5	6	7	-	-	823644	823729	-	-	-	-
						1.0	0.2	45	18.7		8.2		33.0		86.3		6.6		2.6		6		-				-		-	
					Middle	9.2	0.1	53	18.7	18.7	8.2	8.2	33.0	33.0	86.3	86.4	6.6		2.4		6		-				-		-	
						9.2	0.2	56	18.7		8.2		33.0		86.4		6.6		2.5		7		-				-		-	
					Bottom	17.4	0.2	30	18.7	18.7	8.2	8.2	33.0	33.0	86.5	86.6	6.6	6.6	2.3		8		-				-		-	
						17.4	0.2	30	18.7		8.2		33.0		86.6		6.6		2.4		8		-				-		-	
SR8	Fine	Calm	07:37	4.1	Surface	1.0	-	-	18.4	18.4	8.2	8.2	32.7	32.7	90.2	90.2	7.0	7.0	3.1	3.2	7	9	-	-	820409	811621	-	-	-	-
						1.0	-	-	18.4		8.2		32.7		90.1		7.0		3.1		8		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.1	-	-	18.2	18.2	8.2	8.2	32.7	32.7	89.8	89.9	7.0	7.0	3.4		10		-				-		-	
						3.1	-	-	18.2		8.2		32.7		89.9		7.0		3.3		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 18 January 22 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	12:48	8.2	Surface	1.0	0.2	42	19.2	19.2	8.2	8.2	31.8	31.9	95.5	95.5	7.3	7.3	6.1	9.8	12	12	47	50	815610	804236	<0.2	<0.2	1.3	1.1
						1.0	0.2	45	19.2		8.2		31.9		95.4		7.3		6.2		13		47				<0.2		1.3	
					Middle	4.1	0.2	42	19.2	19.2	8.2	8.2	32.3	32.3	95.4	95.4	7.3		6.7		12		50				<0.2		1.1	
						4.1	0.2	45	19.2		8.2		32.3		95.4		7.3		6.8		11		51				<0.2		0.9	
					Bottom	7.2	0.0	345	19.2	19.2	8.2	8.2	32.4	32.4	96.3	96.4	7.4	7.4	16.8		11		51				<0.2		1.0	
						7.2	0.0	317	19.2		8.2		32.4		96.5		7.4		16.2		12		52				<0.2		1.1	
C2	Cloudy	Moderate	11:42	11.4	Surface	1.0	0.2	332	18.7	18.7	8.2	8.2	31.7	31.7	91.6	91.6	7.1	7.1	3.4	6.6	10	10	44	46	825693	806938	<0.2	<0.2	1.0	1.0
						1.0	0.3	305	18.7		8.2		31.7		91.6		7.1		3.4		9		44				<0.2		1.0	
					Middle	5.7	0.4	331	18.6	18.6	8.2	8.2	32.0	32.0	92.2	92.2	7.1		4.4		10		46				<0.2		1.0	
						5.7	0.4	305	18.6		8.2		32.0		92.2		7.1		4.4		9		46				<0.2		1.0	
					Bottom	10.4	0.2	36	18.6	18.6	8.2	8.2	32.5	32.5	93.4	93.5	7.2	7.2	12.1		11		49				<0.2		0.9	
						10.4	0.3	37	18.6		8.2		32.5		93.5		7.2		11.9		12		49				<0.2		0.8	
C3	Cloudy	Moderate	13:39	11.6	Surface	1.0	0.4	100	18.7	18.7	8.2	8.2	32.6	32.6	89.4	89.4	6.9	6.8	2.3	2.8	11	10	44	47	822105	817804	<0.2	<0.2	0.7	0.7
						1.0	0.4	108	18.7		8.2		32.6		89.3		6.9		2.3		12		45				<0.2		0.7	
					Middle	5.8	0.3	94	18.7	18.7	8.2	8.2	32.8	32.8	86.8	86.8	6.7		2.0		11		47				<0.2		0.7	
						5.8	0.4	96	18.7		8.2		32.8		86.8		6.7		2.1		11		47				<0.2		0.7	
					Bottom	10.6	0.3	81	18.7	18.7	8.2	8.2	32.9	32.9	86.7	86.8	6.7	6.7	3.9		9		49				<0.2		0.6	
						10.6	0.3	82	18.7		8.2		32.9		86.9		6.7		3.9		8		49				<0.2		0.6	
IM1	Cloudy	Moderate	12:29	5.2	Surface	1.0	0.0	300	19.3	19.3	8.2	8.2	32.9	32.9	94.5	94.5	7.2	7.2	6.8	7.4	11	11	49	50	817952	807142	<0.2	<0.2	1.0	1.0
						1.0	0.0	319	19.3		8.2		32.9		94.5		7.2		7.0		10		49				<0.2		0.9	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.2	0.1	0	19.3	19.3	8.2	8.2	33.0	33.0	95.4	95.5	7.2	7.3	7.8		11		51				<0.2		0.9	
						4.2	0.1	0	19.3		8.2		33.0		95.6		7.3		7.8		12		52				<0.2		1.0	
IM2	Cloudy	Moderate	12:22	7.2	Surface	1.0	0.0	341	19.3	19.3	8.2	8.2	32.5	32.6	94.4	94.4	7.2	7.2	9.6	12.0	11	10	45	48	818186	806149	<0.2	<0.2	0.9	0.9
						1.0	0.0	358	19.3		8.2		32.6		94.4		7.2		10.0		10		47				<0.2		0.9	
					Middle	3.6	0.0	351	19.3	19.3	8.2	8.2	32.9	32.9	94.5	94.6	7.2		10.4		11		47				<0.2		0.8	
						3.6	0.0	323	19.3		8.2		32.9		94.7		7.2		11.4		10		48				<0.2		1.0	
					Bottom	6.2	0.0	356	19.3	19.3	8.2	8.2	32.8	32.8	95.6	95.7	7.3	7.3	15.3		10		50				<0.2		0.9	
						6.2	0.0	328	19.3		8.2		32.8		95.8		7.3		15.1		9		51				<0.2		0.8	
IM3	Cloudy	Moderate	12:14	7.6	Surface	1.0	0.2	10	19.3	19.3	8.2	8.2	32.3	32.4	94.6	94.6	7.2	7.2	7.1	8.8	12	11	44	46	818806	805613	<0.2	<0.2	1.0	1.1
						1.0	0.2	10	19.3		8.2		32.4		94.5		7.2		7.3		13		43				<0.2		1.1	
					Middle	3.8	0.2	347	19.3	19.3	8.2	8.2	32.8	32.8	94.0	94.0	7.1		9.0		11		46				<0.2		1.0	
						3.8	0.2	319	19.3		8.2		32.8		94.0		7.1		9.1		10		45				<0.2		1.1	
					Bottom	6.6	0.2	296	19.3	19.3	8.2	8.2	32.9	32.9	95.1	95.3	7.2	7.2	10.2		11		49				<0.2		1.1	
						6.6	0.2	324	19.3		8.2		32.9		95.4		7.2		10.0		10		50				<0.2		1.0	
IM4	Cloudy	Moderate	12:05	8.4	Surface	1.0	0.4	357	19.3	19.3	8.2	8.2	32.5	32.5	94.7	94.7	7.2	7.2	9.6	12.0	12	11	44	47	819715	804615	<0.2	<0.2	0.9	1.0
						1.0	0.5	357	19.3		8.2		32.5		94.7		7.2		9.8		11		44				<0.2		1.0	
					Middle	4.2	0.4	342	19.3	19.3	8.2	8.2	32.7	32.7	94.9	94.9	7.2		11.9		10		48				<0.2		1.0	
						4.2	0.4	315	19.3		8.2		32.7		94.9		7.2		12.1		11		47				<0.2		0.9	
					Bottom	7.4	0.3	343	19.3	19.3	8.2	8.2	32.8	32.8	96.5	96.6	7.3	7.3	14.3		11		50				<0.2		0.9	
						7.4	0.3	345	19.3		8.2		32.8		96.6		7.3		14.2		10		50				<0.2		1.0	
IM5	Cloudy	Moderate	11:57	7.8	Surface	1.0	0.6	24	19.3	19.3	8.2	8.2	32.6	32.6	94.9	94.9	7.2	7.2	9.2	10.1	10	15	44	48	820742	804844	<0.2	<0.2	1.0	1.0
						1.0	0.6	25	19.3		8.2		32.6		94.8		7.2		9.3		11		45				<0.2		0.9	
					Middle	3.9	0.5	21	19.3	19.3	8.2	8.2	32.7	32.7	95.0	95.0	7.2		10.3		17		47				<0.2		1.0	
						3.9	0.5	22	19.3		8.2		32.7		95.0		7.2		10.3		16		47				<0.2		1.0	
					Bottom	6.8	0.4	20	19.3	19.3	8.2	8.2	32.7	32.7	95.6	95.7	7.3	7.3	10.7		16		52				<0.2		0.9	
						6.8	0.4	21	19.3		8.2		32.7		95.8		7.3		10.7		17		53				<0.2		0.9	
IM6	Cloudy	Moderate	11:49	7.0	Surface	1.0	0.2	33	19.3	19.3	8.2	8.2	32.7	32.7	94.3	94.4	7.2	7.2	5.9	6.4	9	10	44	48	821060	805833	<0.2	<0.2	0.9	1.0
						1.0	0.2	34	19.3		8.2		32.7		94.4		7.2		6.0		8		43				<0.2		1.0	
					Middle	3.5	0.2	43	19.3	19.3	8.2	8.2	32.8	32.8	95.0	95.1	7.2		6.4		8		49				<0.2		1.0	
						3.5	0.2	47	19.3		8.2		32.8		95.2		7.2		6.5		9		47				<0.2		1.0	
					Bottom	6.0	0.3	48	19.3	19.3	8.2	8.2	32.9	32.9	96.2	96.3	7.3	7.3	6.8		13		53				<0.2		0.9	
						6.0	0.3	48	19.3		8.2		32.9		96.4		7.3		6.8		14		51				<0.2		1.0	
IM7	Cloudy	Moderate	11:42	8.4	Surface	1.0	0.1	8	19.4	19.4	8.3	8.3	32.5	32.5	93.6	93.6	7.1	7.1	5.2	5.8	14	13	43	48	821352	806818	<0.2	<0.2	0.8	1.0
						1.0	0.1	8	19.4		8.3		32.5		93.6		7.1		5.3		13		42				<0.2		0.9	
					Middle	4.2	0.1	68	19.4	19.4	8.3	8.3	32.8	32.8	93.9	94.0	7.1		6.0		13		49				<0.2		0.9	
						4.2	0.1	70	19.4		8.3		32.8		94.0		7.1		6.0		12		51				<0.2		0.9	
					Bottom	7.4	0.2	75	19.4	19.4	8.3	8.3	33.0	33.0	95.1	95.2	7.2	7.2	6.1		12		50				<0.2		1.2	
						7.4	0.2	82	19.4		8.3		33.0		95.2		7.2		6.2		12		52				<0.2		1.2	
IM8	Cloudy	Moderate	12:05	7.8	Surface	1.0	0.2	48	18.6	18.6	8.2	8.2	31.8	31.8	91.8	91.8	7.1	7.1	3.3	5.7	8	8	44	46	821806	808152	<0.2	<0.2	0.8	0.9
						1.0	0.2	49	18.6		8.2		31.8		91.8		7.1		3.3		7		43				<0.2		0.9	
					Middle	3.9	0.2	49	18.6	18.6	8.2	8.2	32.1	32.1	92.2	92.3	7.1		3.9		7		46				<0.2		0.8	
						3.9	0.2	50	18.6		8.2		32.1		92.3		7.1		3.9		8		46				<0.2		0.8	
					Bottom	6.8	0.3	72	18.6	18.6	8.2	8.2	32.6	32.6	92.9	92.9	7.2	7.2	10.0		8		48				<0.2		1.0	
						6.8	0.3	75	18.6		8.2		32.6		92.9		7.2		10.1		9		49				<0.2		0.8	

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

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 18 January 22 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	12:11	7.5	Surface	1.0	0.4	68	18.6	18.6	8.2	8.2	31.8	31.8	91.6	91.6	7.1	7.1	3.1	3.2	10	9	43	46	822100	808796	<0.2	<0.2	0.8	0.9
						1.0	0.4	69	18.6		8.2		31.8		91.6		7.1		3.1		10		44				<0.2		0.9	
					Middle	3.8	0.4	72	18.6	18.6	8.2	8.2	31.8	31.8	91.6	91.6	7.1		3.2		10		46				<0.2		0.8	
						3.8	0.4	74	18.6		8.2		31.8		91.6		7.1		3.2		9		46				<0.2		0.8	
					Bottom	6.5	0.3	68	18.6	18.6	8.2	8.2	31.9	31.9	91.7	91.8	7.1	7.1	3.4		9		48				<0.2		0.9	
						6.5	0.3	74	18.6		8.2		31.9		91.8		7.1		3.4		8		48				<0.2		1.0	
IM10	Cloudy	Moderate	12:18	7.4	Surface	1.0	0.5	86	18.6	18.6	8.2	8.2	31.9	31.9	92.3	92.3	7.1	7.1	2.5	3.0	8	7	43	46	822382	809770	<0.2	<0.2	0.9	0.7
						1.0	0.5	91	18.6		8.2		31.9		92.2		7.1		2.4		7		43				<0.2		0.8	
					Middle	3.7	0.5	86	18.6	18.6	8.2	8.2	32.1	32.1	92.2	92.2	7.1		2.9		6		46				<0.2		0.7	
						3.7	0.5	86	18.6		8.2		32.1		92.2		7.1		3.0		7		47				<0.2		0.6	
					Bottom	6.4	0.3	97	18.7	18.7	8.2	8.2	32.3	32.3	92.6	92.7	7.1	7.1	3.7		7		49				<0.2		0.7	
						6.4	0.3	100	18.7		8.2		32.3		92.7		7.1		3.7		6		48				<0.2		0.6	
IM11	Cloudy	Moderate	12:27	8.0	Surface	1.0	0.1	112	18.7	18.7	8.2	8.2	32.5	32.5	92.0	92.0	7.1	7.1	3.5	3.8	14	10	43	46	822074	811472	<0.2	<0.2	0.7	0.8
						1.0	0.1	112	18.7		8.2		32.5		92.0		7.1		3.5		13		44				<0.2		0.6	
					Middle	4.0	0.1	83	18.7	18.7	8.2	8.2	32.5	32.5	92.0	92.0	7.1		4.0		10		46				<0.2		0.7	
						4.0	0.1	85	18.7		8.2		32.5		92.0		7.1		4.1		9		47				<0.2		0.8	
					Bottom	7.0	0.1	126	18.7	18.7	8.2	8.2	32.5	32.5	92.1	92.2	7.1	7.1	3.8		6		48				<0.2		0.9	
						7.0	0.1	137	18.7		8.2		32.5		92.2		7.1		3.8		7		48				<0.2		0.9	
IM12	Cloudy	Moderate	12:33	9.3	Surface	1.0	0.2	166	18.7	18.7	8.2	8.2	32.5	32.5	92.4	92.4	7.1	7.1	3.2	3.5	7	7	43	46	821440	812041	<0.2	<0.2	0.8	0.7
						1.0	0.2	168	18.7		8.2		32.5		92.4		7.1		3.2		6		43				<0.2		0.8	
					Middle	4.7	0.2	158	18.7	18.7	8.2	8.2	32.5	32.5	92.0	92.0	7.1		3.3		7		46				<0.2		0.6	
						4.7	0.2	169	18.7		8.2		32.5		92.0		7.1		3.4		6		47				<0.2		0.6	
					Bottom	8.3	0.2	148	18.7	18.7	8.2	8.2	32.5	32.5	91.7	91.8	7.1	7.1	4.0		7		48				<0.2		0.5	
						8.3	0.2	154	18.7		8.2		32.5		91.8		7.1		4.1		8		49				<0.2		0.6	
SR1A	Cloudy	Calm	13:06	5.1	Surface	1.0	-	-	18.6	18.6	8.2	8.2	32.6	32.6	92.0	92.0	7.1	7.1	7.3	10.1	17	16	-	-	819979	812660	-	-	-	-
						1.0	-	-	18.6		8.2		32.6		92.0		7.1		7.5		16		-				-		-	
					Middle	2.6	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.6	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.1	-	-	18.6	18.6	8.2	8.2	32.6	32.6	92.5	92.6	7.1	7.1	12.7		15		-				-		-	
						4.1	-	-	18.6		8.2		32.6		92.6		7.1		12.8		16		-				-		-	
SR2	Cloudy	Moderate	13:20	4.9	Surface	1.0	0.2	52	18.7	18.7	8.2	8.2	32.5	32.5	91.8	91.8	7.1	7.1	3.5	3.8	10	10	45	46	821456	814148	<0.2	<0.2	0.6	0.6
						1.0	0.2	56	18.7		8.2		32.5		91.8		7.1		3.5		11		45				<0.2		0.6	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.9	0.2	42	18.7	18.7	8.2	8.2	32.5	32.5	91.6	91.6	7.1	7.1	4.1		10		47				<0.2		0.6	
						3.9	0.2	43	18.7		8.2		32.5		91.6		7.1		4.2		9		48				<0.2		0.6	
SR3	Cloudy	Moderate	12:00	9.0	Surface	1.0	0.4	74	18.6	18.6	8.2	8.2	32.2	32.2	92.7	92.7	7.2	7.2	5.0	9.3	9	9	-	-	822140	807576	-	-	-	-
						1.0	0.4	75	18.6		8.2		32.2		92.7		7.2		5.1		10		-				-		-	
					Middle	4.5	0.3	71	18.6	18.6	8.2	8.2	32.5	32.5	92.9	92.9	7.2		8.6		9		-				-		-	
						4.5	0.4	73	18.6		8.2		32.5		92.9		7.2		8.6		10		-				-		-	
					Bottom	8.0	0.3	64	18.6	18.6	8.2	8.2	32.5	32.5	93.3	93.4	7.2	7.2	14.3		7		-				-		-	
						8.0	0.3	70	18.6		8.2		32.5		93.4		7.2		14.1		8		-				-		-	
SR4A	Cloudy	Moderate	13:08	8.6	Surface	1.0	0.3	94	19.3	19.3	8.2	8.2	32.5	32.5	96.1	96.2	7.3	7.3	6.4	7.3	9	10	-	-	817187	807817	-	-	-	-
						1.0	0.3	99	19.3		8.2		32.5		96.2		7.3		6.5		10		-				-		-	
					Middle	4.3	0.2	71	19.3	19.3	8.2	8.2	32.7	32.7	96.6	96.7	7.3		7.3		11		-				-		-	
						4.3	0.2	71	19.3		8.2		32.7		96.7		7.4		7.4		10		-				-		-	
					Bottom	7.6	0.2	58	19.2	19.2	8.2	8.2	32.9	32.9	98.1	98.2	7.5	7.5	8.2		11		-				-		-	
						7.6	0.2	58	19.2		8.2		32.9		98.3		7.5		8.3		11		-				-		-	
SR5A	Cloudy	Moderate	13:24	3.6	Surface	1.0	0.1	114	19.3	19.3	8.2	8.2	33.0	33.0	96.7	96.9	7.3	7.4	7.1	7.2	11	11	-	-	816616	810710	-	-	-	-
						1.0	0.1	123	19.3		8.2		33.0		97.0		7.4		7.1		10		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.6	0.1	123	19.3	19.3	8.2	8.2	33.0	33.0	97.9	98.0	7.4	7.4	7.3		10		-				-		-	
						2.6	0.1	133	19.3		8.2		33.0		98.1		7.4		7.3		11		-				-		-	
SR6A	Cloudy	Moderate	14:05	4.2	Surface	1.0	0.1	116	19.3	19.3	8.2	8.2	33.1	33.1	94.4	94.5	7.2	7.2	8.2	11.4	14	15	-	-	817984	814733	-	-	-	-
						1.0	0.1	123	19.3		8.2		33.1		94.6		7.2		8.8		14		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.2	0.1	124	19.2	19.2	8.2	8.2	33.1	33.1	96.0	96.1	7.3	7.3	14.2		16		-				-		-	
						3.2	0.1	133	19.2		8.2		33.1		96.2		7.3		14.2		15		-				-		-	
SR7	Cloudy	Moderate	14:08	16.2	Surface	1.0	0.2	69	18.7	18.7	8.2	8.2	32.9	32.9	85.0	85.0	6.5	6.5	2.7	3.5	9	7	-	-	823657	823729	-	-	-	-
						1.0	0.3	73	18.7		8.2		32.9		85.0		6.5		2.6		8		-				-		-	
					Middle	8.1	0.2	66	18.7	18.7	8.2	8.2	32.9	32.9	85.1	85.2	6.5		3.2		6		-				-		-	
						8.1	0.2	68	18.7		8.2		32.9		85.2		6.5		3.2		6		-				-		-	
					Bottom	15.2	0.2	64	18.6	18.6	8.2	8.2	32.9	32.9	85.8	85.9	6.6	6.6	4.6		5		-				-		-	
						15.2	0.2	67	18.6		8.2		32.9		85.9		6.6		4.6		6		-				-		-	
SR8	Cloudy	Moderate	12:42	4.9	Surface	1.0	-	-	18.7	18.7	8.2	8.2	32.5	32.5	93.1	93.1	7.2	7.2	3.5	3.7	7	8	-	-	820380	811605	-	-	-	-
						1.0	-	-	18.7		8.2		32.5		93.1		7.2		3.5		8		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.9	-	-	18.7	18.7	8.2	8.2	32.5	32.5	93.2	93.3	7.2	7.2	3.9		9		-				-		-	
						3.9	-	-	18.7		8.2		32.5		93.3		7.2		3.9		8		-				-		-	

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

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

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
C1	Cloudy	Moderate	08:14	8.0	Surface	1.0	0.4	50	19.3	19.3	8.2	8.2	32.8	32.8	94.4	94.4	7.2	7.2	14.0	12.7	13	15	47	50	815605	804262	<0.2	<0.2	0.9	0.9
						1.0	0.4	54	19.3		8.2		32.8		94.4		7.2		14.1		14		46				<0.2		0.8	
					Middle	4.0	0.3	50	19.3	19.3	8.2	8.2	32.8	32.8	94.6	94.7	7.2		11.8		15		49				<0.2		0.8	
						4.0	0.3	51	19.3		8.2		32.8		94.7		7.2		12.0		14		49				<0.2		1.0	
					Bottom	7.0	0.3	48	19.2	19.2	8.2	8.2	32.6	32.6	96.8	96.9	7.4	7.4	12.2		16		53				<0.2		0.8	
						7.0	0.3	51	19.2		8.2		32.6		96.9		7.4		12.1		16		54				<0.2		0.8	
C2	Cloudy	Moderate	09:22	11.8	Surface	1.0	0.3	345	18.7	18.7	8.1	8.1	31.5	31.5	91.7	91.7	7.1	7.1	2.4	5.7	5	6	43	46	825693	806967	<0.2	<0.2	0.9	0.9
						1.0	0.3	317	18.7		8.1		31.5		91.6		7.1		2.4		11		44				<0.2		0.9	
					Middle	5.9	0.3	350	18.7	18.7	8.1	8.1	31.5	31.5	91.2	91.2	7.1		2.6		6		46				<0.2		0.8	
						5.9	0.4	359	18.7		8.1		31.5		91.2		7.1		2.7		5		46				<0.2		1.0	
					Bottom	10.8	0.4	10	18.6	18.6	8.2	8.2	31.7	31.7	91.4	91.5	7.1	7.1	12.2		5		49				<0.2		0.9	
						10.8	0.4	10	18.6		8.2		31.7		91.5		7.1		12.1		6		48				<0.2		0.9	
C3	Cloudy	Moderate	07:19	10.7	Surface	1.0	0.4	257	18.7	18.7	8.2	8.2	32.4	32.4	92.2	92.2	7.1	7.1	4.4	6.1	9	9	43	46	822090	817807	<0.2	<0.2	0.8	0.8
						1.0	0.4	262	18.7		8.2		32.4		92.2		7.1		4.4		8		43				<0.2		0.9	
					Middle	5.4	0.4	256	18.7	18.7	8.2	8.2	32.4	32.4	92.3	92.3	7.1		4.9		9		46				<0.2		0.9	
						5.4	0.4	259	18.7		8.2		32.4		92.3		7.1		4.9		8		46				<0.2		0.7	
					Bottom	9.7	0.4	273	18.7	18.7	8.2	8.2	32.6	32.6	93.4	93.5	7.2	7.2	8.9		10		49				<0.2		0.6	
						9.7	0.4	297	18.7		8.2		32.6		93.5		7.2		8.9		9		49				<0.2		0.8	
IM1	Cloudy	Moderate	08:30	5.1	Surface	1.0	0.3	10	19.3	19.3	8.2	8.2	33.0	33.0	95.7	95.8	7.3	7.3	8.4	8.7	14	10	49	50	817959	807141	<0.2	<0.2	0.8	0.8
						1.0	0.3	10	19.3		8.2		33.1		95.8		7.3		8.5		9		47				<0.2		0.8	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.1	0.2	8	19.3	19.3	8.2	8.2	33.1	33.1	97.4	97.7	7.4	7.4	8.9		8		51				<0.2		0.9	
						4.1	0.2	8	19.2		8.2		33.1		97.9		7.4		9.0		9		52				<0.2		0.8	
IM2	Cloudy	Moderate	08:35	6.2	Surface	1.0	0.3	358	19.3	19.3	8.2	8.2	32.9	32.9	94.6	94.6	7.2	7.2	9.9	11.1	7	8	44	48	818178	806169	<0.2	<0.2	0.8	0.8
						1.0	0.3	329	19.3		8.2		32.9		94.6		7.2		9.9		8		45				<0.2		0.9	
					Middle	3.1	0.3	359	19.3	19.3	8.2	8.2	32.9	32.9	95.1	95.2	7.2		10.9		9		49				<0.2		0.9	
						3.1	0.3	330	19.3		8.2		32.9		95.2		7.2		11.0		8		49				<0.2		0.7	
					Bottom	5.2	0.2	355	19.2	19.2	8.2	8.2	33.0	33.0	97.0	97.1	7.4	7.4	12.2		9		52				<0.2		0.8	
						5.2	0.2	327	19.2		8.2		33.0		97.1		7.4		12.4		8		51				<0.2		0.8	
IM3	Cloudy	Moderate	08:43	6.4	Surface	1.0	0.3	351	19.3	19.3	8.2	8.2	32.7	32.7	93.5	93.5	7.1	7.1	12.6	14.6	11	12	43	46	818779	805600	<0.2	<0.2	0.8	0.8
						1.0	0.3	323	19.3		8.2		32.7		93.5		7.1		12.1		12		43				<0.2		0.8	
					Middle	3.2	0.3	342	19.3	19.3	8.2	8.2	32.8	32.8	93.4	93.4	7.1		15.0		12		45				<0.2		0.8	
						3.2	0.3	315	19.3		8.2		32.8		93.4		7.1		15.1		13		45				<0.2		0.7	
					Bottom	5.4	0.3	340	19.3	19.3	8.2	8.2	32.8	32.8	93.3	93.3	7.1	7.1	17.0		13		49				<0.2		0.7	
						5.4	0.3	355	19.3		8.2		32.8		93.3		7.1		16.1		12		49				<0.2		0.7	
IM4	Cloudy	Moderate	08:51	7.8	Surface	1.0	0.5	350	19.3	19.3	8.2	8.2	32.6	32.6	92.9	93.0	7.1	7.1	12.5	14.3	16	15	45	47	819744	804619	<0.2	<0.2	0.8	0.8
						1.0	0.6	322	19.3		8.2		32.6		93.0		7.1		12.9		17		43				<0.2		0.8	
					Middle	3.9	0.5	347	19.3	19.3	8.2	8.2	32.6	32.6	93.4	93.5	7.1		14.7		15		46				<0.2		0.7	
						3.9	0.5	319	19.3		8.2		32.6		93.5		7.1		14.9		14		47				<0.2		0.8	
					Bottom	6.8	0.4	339	19.2	19.2	8.2	8.2	32.7	32.7	95.9	96.0	7.3	7.3	15.5		14		49				<0.2		0.8	
						6.8	0.4	355	19.2		8.2		32.7		96.1		7.3		15.5		15		50				<0.2		0.9	
IM5	Cloudy	Moderate	08:57	8.1	Surface	1.0	0.7	12	19.3	19.3	8.2	8.2	32.8	32.8	93.5	93.5	7.1	7.1	9.0	9.9	15	13	47	50	820745	804884	<0.2	<0.2	0.8	0.8
						1.0	0.8	12	19.3		8.2		32.8		93.5		7.1		9.2		14		47				<0.2		0.8	
					Middle	4.1	0.7	9	19.3	19.3	8.2	8.2	32.8	32.8	93.9	93.9	7.1		9.9		14		49				<0.2		0.9	
						4.1	0.7	9	19.3		8.2		32.8		93.9		7.1		10.1		15		49				<0.2		0.8	
					Bottom	7.1	0.5	17	19.3	19.3	8.2	8.2	32.8	32.8	95.6	95.8	7.3	7.3	10.6		11		54				<0.2		0.7	
						7.1	0.6	17	19.3		8.2		32.8		95.9		7.3		10.5		10		55				<0.2		0.9	
IM6	Cloudy	Moderate	09:04	6.9	Surface	1.0	0.2	56	19.4	19.4	8.2	8.2	33.0	33.0	94.6	94.7	7.2	7.2	9.3	10.1	10	11	47	49	821079	805831	<0.2	<0.2	0.9	0.9
						1.0	0.2	58	19.3		8.2		33.0		94.7		7.2		9.5		10		47				<0.2		1.0	
					Middle	3.5	0.2	54	19.3	19.3	8.2	8.2	33.0	33.0	95.6	95.7	7.2		10.3		10		50				<0.2		0.8	
						3.5	0.2	58	19.3		8.2		33.0		95.8		7.3		10.3		11		50				<0.2		0.9	
					Bottom	5.9	0.2	56	19.3	19.3	8.2	8.2	33.1	33.1	96.8	96.9	7.3	7.3	10.8		11		51				<0.2		0.9	
						5.9	0.2	60	19.3		8.2		33.1		96.9		7.3		10.7		11		51				<0.2		0.8	
IM7	Cloudy	Moderate	09:12	8.0	Surface	1.0	0.1	141	19.3	19.3	8.1	8.1	32.1	32.1	92.2	92.2	7.0	7.1	6.2	8.0	12	11	44	49	821340	806837	<0.2	<0.2	0.8	1.1
						1.0	0.1	147	19.3		8.1		32.1		92.2		7.0		6.4		11		47				<0.2		0.8	
					Middle	4.0	0.1	108	19.3	19.3	8.1	8.1	32.1	32.1	92.6	92.7	7.1		7.7		12		48				<0.2		1.2	
						4.0	0.1	110	19.3		8.1		32.1		92.7		7.1		8.2		11		49				<0.2		1.3	
					Bottom	7.0	0.1	99	19.2	19.2	8.1	8.1	32.1	32.1	94.3	94.4	7.2	7.2	9.7		11		52				<0.2		1.2	
						7.0	0.1	105	19.2		8.1		32.1		94.5		7.2		9.8		11		53				<0.2		1.1	
IM8	Cloudy	Moderate	08:55	7.3	Surface	1.0	0.0	182	18.6	18.6	8.2	8.2	32.0	32.0	91.3	91.4	7.1	7.1	4.0	3.9	8	7	43	46	821846	808155	<0.2	<0.2	1.1	1.1
						1.0	0.0	182	18.6		8.2		32.0		91.4		7.1		4.0		7		43				<0.2		1.1	
					Middle	3.7	0.0	87	18.6	18.6	8.2	8.2	32.0	32.0	91.5	91.5	7.1		3.9		7		46				<0.2		1.2	
						3.7	0.0	92	18.6		8.2		32.0		91.5		7.1		3.8		6		46				<0.2		1.1	
					Bottom	6.3	0.0	248	18.5	18.5	8.2	8.2	32.0	32.0	92.1	92.2	7.1	7.1	3.7		7		48				<0.2		1.0	
						6.3	0.0	262	18.5		8.2		32.0		92.2		7.1		3.7		6		49				<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 18 January 22 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	08:50	6.8	Surface	1.0	0.3	236	18.6	18.6	8.2	8.2	32.1	32.1	91.5	91.5	7.1	7.1	5.3	6.4	11	11	44	46	822087	808799	<0.2	<0.2	0.8	0.9
						1.0	0.3	247	18.6		8.2		32.1		91.5		7.1		5.3		12		43				<0.2		0.7	
					Middle	3.4	0.3	235	18.6	18.6	8.2	8.2	32.1	32.1	91.6	91.6	7.1		6.3		11		46				<0.2		0.9	
						3.4	0.3	235	18.6		8.2		32.1		91.6		7.1		6.4		12		45				<0.2		0.9	
					Bottom	5.8	0.2	242	18.6	18.6	8.2	8.2	32.1	32.1	92.1	92.2	7.1	7.1	7.5		10		48				<0.2		0.9	
						5.8	0.2	263	18.6		8.2		32.1		92.2		7.1		7.6		11		49				<0.2		1.0	
IM10	Cloudy	Moderate	08:43	7.4	Surface	1.0	0.5	301	18.6	18.6	8.2	8.2	32.3	32.3	92.2	92.2	7.1	7.1	7.7	8.7	12	12	43	46	822380	809789	<0.2	<0.2	0.8	0.8
						1.0	0.5	320	18.6		8.2		32.3		92.2		7.1		7.7		13		44				<0.2		0.8	
					Middle	3.7	0.5	288	18.6	18.6	8.2	8.2	32.3	32.3	92.2	92.2	7.1		8.6		11		46				<0.2		0.8	
						3.7	0.5	310	18.6		8.2		32.3		92.2		7.1		8.5		12		45				<0.2		0.8	
					Bottom	6.4	0.5	295	18.6	18.6	8.2	8.2	32.3	32.3	92.6	92.7	7.2	7.2	9.7		11		48				<0.2		0.7	
						6.4	0.5	303	18.6		8.2		32.3		92.7		7.2		9.8		12		48				<0.2		0.8	
IM11	Cloudy	Moderate	08:33	7.6	Surface	1.0	0.6	277	18.6	18.6	8.2	8.2	32.4	32.4	93.1	93.1	7.2	7.2	5.9	6.8	10	10	43	46	822033	811448	<0.2	<0.2	0.7	0.8
						1.0	0.7	280	18.6		8.2		32.4		93.1		7.2		5.9		9		44				<0.2		0.8	
					Middle	3.8	0.6	282	18.7	18.7	8.2	8.2	32.5	32.5	93.1	93.1	7.2		6.6		10		45				<0.2		0.8	
						3.8	0.6	286	18.7		8.2		32.5		93.1		7.2		6.7		9		46				<0.2		0.7	
					Bottom	6.6	0.5	286	18.7	18.7	8.2	8.2	32.7	32.7	93.3	93.4	7.2	7.2	7.9		11		48				<0.2		0.7	
						6.6	0.5	310	18.7		8.2		32.7		93.4		7.2		7.9		10		48				<0.2		0.8	
IM12	Cloudy	Moderate	08:27	8.5	Surface	1.0	0.6	291	18.7	18.7	8.2	8.2	32.6	32.6	93.0	93.0	7.2	7.2	7.7	8.8	13	12	43	46	821452	812029	<0.2	<0.2	0.7	0.7
						1.0	0.6	297	18.7		8.2		32.6		93.0		7.2		7.8		12		43				<0.2		0.7	
					Middle	4.3	0.5	290	18.7	18.7	8.2	8.2	32.6	32.6	93.0	93.0	7.2		7.9		12		46				<0.2		0.7	
						4.3	0.6	304	18.7		8.2		32.6		93.0		7.2		7.9		11		45				<0.2		0.7	
					Bottom	7.5	0.5	292	18.7	18.7	8.2	8.2	32.6	32.6	93.4	93.4	7.2	7.2	10.8		11		48				<0.2		0.6	
						7.5	0.5	317	18.7		8.2		32.6		93.4		7.2		10.6		12		48				<0.2		0.7	
SR1A	Cloudy	Moderate	07:53	4.6	Surface	1.0	-	-	18.5	18.5	8.2	8.2	32.6	32.6	89.4	89.4	6.9	6.9	2.2	3.1	5	5	-	-	819979	812659	-	-	-	-
						1.0	-	-	18.5		8.2		32.6		89.4		6.9		2.3		6		-				-		-	
					Middle	2.3	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.3	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.6	-	-	18.6	18.6	8.2	8.2	32.6	32.6	91.8	91.9	7.1	7.1	3.9		4		-				-		-	
						3.6	-	-	18.6		8.2		32.6		92.0		7.1		3.9		5		-				-		-	
SR2	Cloudy	Moderate	07:38	4.1	Surface	1.0	0.1	25	18.6	18.6	8.2	8.2	32.6	32.6	93.2	93.3	7.2	7.2	7.5	10.1	12	12	44	46	821469	814181	<0.2	<0.2	0.7	0.7
						1.0	0.1	25	18.6		8.2		32.6		93.3		7.2		7.5		13		44				<0.2		0.7	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.1	0.1	31	18.7	18.7	8.2	8.2	32.6	32.6	93.9	94.0	7.2	7.2	12.6		12		47				<0.2		0.7	
						3.1	0.1	31	18.7		8.2		32.6		94.0		7.2		12.7		12		47				<0.2		0.7	
SR3	Cloudy	Moderate	09:01	8.7	Surface	1.0	0.1	350	18.6	18.6	8.2	8.2	31.8	31.8	91.2	91.2	7.1	7.1	4.2	4.0	6	7	-	-	822157	807552	-	-	-	-
						1.0	0.1	354	18.6		8.2		31.8		91.2		7.1		4.2		6		-				-		-	
					Middle	4.4	0.1	321	18.6	18.6	8.2	8.2	31.8	31.8	91.1	91.1	7.1		3.9		8		-				-		-	
						4.4	0.1	351	18.6		8.2		31.8		91.1		7.1		3.8		7		-				-		-	
					Bottom	7.7	0.1	336	18.6	18.6	8.2	8.2	31.8	31.8	91.6	91.7	7.1	7.1	3.8		7		-				-		-	
						7.7	0.1	309	18.6		8.2		31.8		91.7		7.1		3.8		8		-				-		-	
SR4A	Cloudy	Moderate	07:56	8.7	Surface	1.0	0.1	321	19.4	19.4	8.2	8.2	33.0	33.0	93.5	93.5	7.1	7.1	7.8	6.9	13	15	-	-	817207	807830	-	-	-	-
						1.0	0.1	335	19.4		8.2		33.0		93.5		7.1		7.8		14		-				-		-	
					Middle	4.4	0.1	324	19.4	19.4	8.2	8.2	33.0	33.0	93.9	94.0	7.1		6.4		15		-				-		-	
						4.4	0.1	347	19.4		8.2		33.0		94.0		7.1		6.5		15		-				-		-	
					Bottom	7.7	0.1	258	19.4	19.4	8.2	8.2	33.1	33.1	94.7	94.8	7.2	7.2	6.5		15		-				-		-	
						7.7	0.1	259	19.4		8.2		33.1		94.8		7.2		6.5		15		-				-		-	
SR5A	Cloudy	Calm	07:41	4.5	Surface	1.0	0.2	292	19.3	19.3	8.2	8.2	33.1	33.1	94.7	94.7	7.2	7.2	4.7	4.8	15	14	-	-	816574	810682	-	-	-	-
						1.0	0.2	298	19.3		8.2		33.1		94.7		7.2		4.7		14		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.5	0.1	286	19.3	19.3	8.2	8.2	33.1	33.1	95.4	95.4	7.2	7.2	4.9		13		-				-		-	
						3.5	0.1	311	19.3		8.2		33.1		95.4		7.2		4.9		13		-				-		-	
SR6A	Cloudy	Calm	07:13	3.7	Surface	1.0	0.1	281	19.2	19.2	8.0	8.0	33.1	33.1	90.9	91.0	6.9	6.9	4.2	9.6	13	13	-	-	817978	814762	-	-	-	-
						1.0	0.1	300	19.2		8.0		33.1		91.1		6.9		4.1		12		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.7	0.1	280	19.1	19.1	8.0	8.0	33.1	33.1	92.4	92.5	7.0	7.0	15.0		12		-				-		-	
						2.7	0.1	307	19.1		8.0		33.1		92.6		7.0		15.1		13		-				-		-	
SR7	Cloudy	Moderate	06:52	15.6	Surface	1.0	0.3	45	18.7	18.7	8.1	8.1	32.7	32.7	88.9	88.9	6.8	6.8	3.6	6.5	6	7	-	-	823615	823748	-	-	-	-
						1.0	0.3	45	18.7		8.1		32.7		88.9		6.8		3.6		7		-				-		-	
					Middle	7.8	0.3	43	18.7	18.7	8.1	8.1	32.7	32.7	88.5	88.5	6.8		4.6		8		-				-		-	
						7.8	0.3	45	18.7		8.1		32.7		88.5		6.8		4.6		7		-				-		-	
					Bottom	14.6	0.3	37	18.7	18.7	8.1	8.1	32.7	32.7	88.3	88.3	6.8	6.8	11.4		7		-				-		-	
						14.6	0.3	37	18.7		8.1		32.7		88.3		6.8		11.4		8		-				-		-	
SR8	Cloudy	Moderate	08:19	4.5	Surface	1.0	-	-	18.7	18.7	8.2	8.2	32.2	32.2	92.6	92.6	7.1	7.1	4.6	5.0	14	12	-	-	820400	811629	-	-	-	-
						1.0	-	-	18.7		8.2		32.2		92.6		7.1		4.6		13		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.5	-	-	18.6	18.6	8.2	8.2	32.3	32.3	93.3	93.4	7.2	7.2	5.3		10		-				-		-	
						3.5	-	-	18.6		8.2		32.3		93.4		7.2		5.3		11		-				-		-	

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

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 20 January 22 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	Misty	Moderate	13:53	8.0	Surface	1.0	0.0	348	18.9	18.9	8.2	8.2	32.8	32.8	105.1	105.1	8.0	8.0	6.2	7.8	9	8	84	87	815596	804254	<0.2	<0.2	0.9	0.8
						1.0	0.0	320	18.9		8.2		32.8		105.0		8.0		6.3		10		84				<0.2		0.8	
					Middle	4.0	0.1	323	18.7	18.7	8.2	8.2	33.4	33.5	104.0	104.1	8.0		8.5		7		87				<0.2		0.9	
						4.0	0.1	352	18.7		8.2		33.5		104.2		8.0		8.4		8		87				<0.2		0.8	
					Bottom	7.0	0.0	7	18.7	18.7	8.2	8.2	33.6	33.6	104.8	104.9	8.0	8.0	8.5		5		91				<0.2		0.9	
						7.0	0.0	7	18.7		8.2		33.6		105.0		8.0		8.6		6		91				<0.2		0.7	
C2	Cloudy	Moderate	12:53	12.0	Surface	1.0	0.2	133	18.4	18.4	8.2	8.2	32.0	32.0	94.9	94.9	7.4	7.4	5.0	5.3	11	11	44	48	825682	806923	<0.2	<0.2	0.9	0.9
						1.0	0.2	144	18.4		8.2		32.0		94.8		7.4		5.1		12		44				<0.2		0.9	
					Middle	6.0	0.1	141	18.3	18.3	8.2	8.2	32.0	32.0	94.6	94.6	7.4		5.3		11		48				<0.2		0.9	
						6.0	0.1	142	18.3		8.2		32.0		94.6		7.4		5.4		12		48				<0.2		0.9	
					Bottom	11.0	0.1	135	18.3	18.3	8.2	8.2	32.0	32.0	95.1	95.2	7.4	7.4	5.7		10		52				<0.2		0.9	
						11.0	0.1	143	18.3		8.2		32.0		95.2		7.4		5.5		11		53				<0.2		0.9	
C3	Cloudy	Moderate	14:32	11.4	Surface	1.0	0.2	27	18.8	18.8	8.2	8.2	32.6	32.6	90.4	90.4	6.9	7.0	1.9	2.5	7	8	45	49	822090	817818	<0.2	<0.2	0.8	0.9
						1.0	0.2	28	18.8		8.2		32.6		90.4		6.9		1.9		6		46				<0.2		0.9	
					Middle	5.7	0.1	45	18.6	18.6	8.2	8.2	32.7	32.7	90.3	90.4	7.0		2.7		9		49				<0.2		0.9	
						5.7	0.1	46	18.6		8.2		32.7		90.4		7.0		2.7		8		50				<0.2		0.9	
					Bottom	10.4	0.2	51	18.7	18.7	8.2	8.2	32.6	32.6	91.2	91.3	7.0	7.0	3.0		9		51				<0.2		0.9	
						10.4	0.2	51	18.7		8.2		32.6		91.3		7.0		3.0		8		52				<0.2		0.8	
IM1	Misty	Moderate	13:33	4.6	Surface	1.0	0.1	187	19.2	19.2	8.1	8.1	32.8	32.8	104.3	104.3	7.9	7.9	4.1	4.9	9	9	82	87	817966	807136	<0.2	<0.2	0.9	0.9
						1.0	0.1	193	19.2		8.1		32.8		104.3		7.9		4.2		10		82				<0.2		0.9	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.6	0.1	221	19.3	19.4	8.1	8.1	32.6	32.6	105.9	106.1	8.0	8.1	5.6		8		91				<0.2		0.9	
						3.6	0.1	227	19.4		8.1		32.5		106.2		8.1		5.5		7		92				<0.2		1.0	
IM2	Misty	Moderate	13:27	6.6	Surface	1.0	0.1	108	19.1	19.1	8.2	8.2	32.8	32.8	103.9	103.9	7.9	8.0	7.7	8.5	8	11	46	76	818155	806143	<0.2	<0.2	1.0	0.9
						1.0	0.1	110	19.1		8.2		32.8		103.8		7.9		7.8		8		46				<0.2		0.9	
					Middle	3.3	0.0	72	18.9	18.9	8.2	8.2	32.8	32.8	104.1	104.3	8.0		8.7		13		90				<0.2		0.8	
						3.3	0.0	72	18.9		8.2		32.8		104.5		8.0		8.8		12		87				<0.2		0.8	
					Bottom	5.6	0.0	104	18.6	18.6	8.2	8.2	33.0	33.0	106.3	106.4	8.2	8.2	9.1		12		91				<0.2		0.9	
						5.6	0.0	112	18.6		8.2		33.0		106.5		8.2		9.1		13		93				<0.2		0.9	
IM3	Misty	Moderate	13:21	7.0	Surface	1.0	0.1	19	19.0	19.0	8.2	8.2	32.9	32.9	104.2	104.2	8.0	8.0	6.1	7.2	9	9	82	87	818780	805591	<0.2	<0.2	0.7	0.8
						1.0	0.1	20	19.0		8.2		32.9		104.1		8.0		6.0		10		82				<0.2		0.8	
					Middle	3.5	0.1	46	18.9	18.9	8.2	8.2	32.9	32.9	103.5	103.5	7.9		7.1		8		87				<0.2		0.9	
						3.5	0.1	48	18.9		8.2		32.9		103.5		7.9		7.1		9		92				<0.2		0.9	
					Bottom	6.0	0.1	3	18.9	18.9	8.2	8.2	32.9	32.9	104.0	104.1	8.0	8.0	8.3		8		90				<0.2		0.8	
						6.0	0.1	3	18.9		8.2		32.9		104.2		8.0		8.3		7		90				<0.2		0.8	
IM4	Misty	Moderate	13:13	8.6	Surface	1.0	0.1	63	18.9	18.9	8.2	8.2	32.8	32.8	103.4	103.4	7.9	7.9	7.4	8.7	10	10	83	89	819744	804597	<0.2	<0.2	0.9	0.9
						1.0	0.1	63	18.9		8.2		32.8		103.3		7.9		7.5		11		83				<0.2		0.9	
					Middle	4.3	0.0	353	18.8	18.8	8.2	8.2	32.8	32.8	103.1	103.2	7.9		8.6		10		90				<0.2		0.8	
						4.3	0.0	325	18.8		8.2		32.8		103.2		7.9		8.5		11		90				<0.2		0.9	
					Bottom	7.6	0.1	334	18.8	18.8	8.2	8.2	32.9	32.9	104.0	104.1	8.0	8.0	10.0		9		95				<0.2		1.0	
						7.6	0.1	349	18.8		8.2		32.9		104.2		8.0		9.9		10		95				<0.2		0.8	
IM5	Misty	Moderate	13:05	8.2	Surface	1.0	0.2	341	18.9	18.9	8.2	8.2	32.6	32.6	101.9	101.9	7.8	7.8	7.7	8.5	10	12	44	74	820726	804869	<0.2	<0.2	0.8	0.8
						1.0	0.2	314	18.9		8.2		32.6		101.8		7.8		7.6		9		44				<0.2		0.8	
					Middle	4.1	0.2	354	18.8	18.8	8.2	8.2	32.6	32.7	101.9	102.0	7.8		8.7		10		87				<0.2		0.7	
						4.1	0.3	326	18.8		8.2		32.7		102.0		7.8		8.6		11		87				<0.2		0.9	
					Bottom	7.2	0.2	351	18.8	18.8	8.2	8.2	32.7	32.7	103.4	103.5	7.9	7.9	9.1		15		90				<0.2		0.7	
						7.2	0.2	357	18.8		8.2		32.7		103.5		7.9		9.1		15		90				<0.2		0.8	
IM6	Misty	Moderate	12:59	7.4	Surface	1.0	0.1	255	19.1	19.1	8.2	8.2	32.8	32.8	102.2	102.2	7.8	7.8	2.6	3.5	6	6	46	75	821041	805813	<0.2	<0.2	0.8	0.8
						1.0	0.1	273	19.0		8.2		32.8		102.2		7.8		2.6		7		46				<0.2		0.8	
					Middle	3.7	0.2	263	19.0	19.0	8.2	8.2	32.8	32.8	102.3	102.4	7.8		3.4		5		89				<0.2		0.8	
						3.7	0.2	263	19.0		8.2		32.8		102.5		7.8		3.3		6		88				<0.2		0.8	
					Bottom	6.4	0.1	224	18.9	18.9	8.2	8.2	32.8	32.8	103.2	103.3	7.9	7.9	4.6		5		91				<0.2		0.8	
						6.4	0.1	231	18.9		8.2		32.8		103.4		7.9		4.6		6		91				<0.2		0.7	
IM7	Misty	Moderate	12:53	8.4	Surface	1.0	0.2	137	19.0	19.0	8.2	8.2	32.8	32.8	102.9	102.9	7.9	7.9	2.7	3.8	8	7	44	74	821326	806845	<0.2	<0.2	0.9	0.8
						1.0	0.2	139	19.0		8.2		32.8		102.9		7.9		2.8		7		44				<0.2		0.9	
					Middle	4.2	0.1	134	19.0	19.0	8.2	8.3	32.8	32.8	102.7	102.7	7.8		3.8		8		87				<0.2		0.8	
						4.2	0.1	136	19.0		8.3		32.8		102.7		7.8		3.8		7		87				<0.2		0.8	
					Bottom	7.4	0.1	184	19.0	19.0	8.3	8.3	32.9	32.9	102.0	102.0	7.8	7.8	4.7		5		90				<0.2		0.7	
						7.4	0.1	199	19.0		8.3		32.9		102.0		7.8		4.7		6		90				<0.2		0.7	
IM8	Cloudy	Moderate	13:16	7.6	Surface	1.0	0.2	19	18.4	18.4	8.2	8.2	31.9	31.9	95.0	95.0	7.4	7.4	5.3	5.2	10	10	44	48	821840	808156	<0.2	<0.2	0.8	0.8
						1.0	0.2	20	18.4		8.2		31.9		95.0		7.4		5.3		11		46				<0.2		0.8	
					Middle	3.8	0.1	24	18.3	18.3	8.2	8.2	31.9	31.9	95.4	95.4	7.4		5.2		9		48				<0.2		0.9	
						3.8	0.2	24	18.3		8.2		31.9		95.4		7.4		5.3		10		48				<0.2		0.8	
					Bottom	6.6	0.1	59	18.3	18.3	8.2	8.2	31.9	31.9	97.6	97.7	7.6	7.6	5.1		10		51				<0.2		0.9	
						6.6	0.1	60	18.3		8.2		31.9		97.8		7.6		5.0		9		52				<0.2		0.8	

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

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 20 January 22 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	13:21	7.6	Surface	1.0	11.0	26	18.5	18.5	8.2	8.2	31.9	31.9	94.3	94.4	7.3	7.4	4.7	4.6	9	7	44	46	822105	808802	<0.2	<0.2	0.7	0.8
						1.0	11.4	26	18.5		8.2		31.9		94.4		7.3		4.7		8		44				<0.2		0.8	
					Middle	3.8	0.1	61	18.4	18.4	8.2	8.2	31.9	31.9	95.8	95.9	7.4		4.5		8		46				<0.2		0.7	
						3.8	0.1	64	18.4		8.2		31.9		96.0		7.4		4.5		9		47				<0.2		0.8	
					Bottom	6.6	0.1	92	18.6	18.6	8.2	8.2	31.7	31.7	97.0	97.2	7.5	7.5	4.4		4		48				<0.2		0.8	
						6.6	0.1	98	18.6		8.2		31.7		97.3		7.5		4.5		3		49				<0.2		0.9	
IM10	Cloudy	Moderate	13:26	7.8	Surface	1.0	0.1	25	18.6	18.6	8.2	8.2	31.9	31.9	93.9	93.9	7.3	7.3	3.5	3.4	7	9	45	48	822374	809816	<0.2	<0.2	0.7	0.8
						1.0	0.2	26	18.6		8.2		31.9		93.9		7.3		3.4		8		46				<0.2		0.8	
					Middle	3.9	0.1	52	18.4	18.4	8.2	8.2	31.9	31.9	93.9	94.0	7.3		3.3		9		47				<0.2		0.8	
						3.9	0.1	56	18.4		8.2		31.9		94.0		7.3		3.3		8		49				<0.2		0.9	
					Bottom	6.8	0.1	61	18.4	18.4	8.2	8.2	32.0	32.0	95.3	95.4	7.4	7.4	3.4		10		51				<0.2		1.0	
						6.8	0.1	61	18.4		8.2		32.0		95.5		7.4		3.4		11		52				<0.2		0.8	
IM11	Cloudy	Moderate	13:34	8.2	Surface	1.0	0.2	33	18.6	18.6	8.2	8.2	32.1	32.1	95.0	95.0	7.3	7.4	3.9	4.1	6	7	44	49	822045	811445	<0.2	<0.2	0.7	0.8
						1.0	0.2	33	18.6		8.2		32.1		95.0		7.3		3.9		7		47				<0.2		0.9	
					Middle	4.1	0.1	16	18.5	18.5	8.2	8.2	32.1	32.1	95.4	95.5	7.4		4.2		6		49				<0.2		0.7	
						4.1	0.1	17	18.5		8.2		32.1		95.6		7.4		4.2		7		48				<0.2		0.7	
					Bottom	7.2	0.1	50	18.5	18.5	8.2	8.2	32.1	32.1	97.5	97.6	7.6	7.6	4.2		8		52				<0.2		0.8	
						7.2	0.1	51	18.5		8.2		32.1		97.7		7.6		4.2		9		52				<0.2		0.8	
IM12	Cloudy	Moderate	13:39	9.1	Surface	1.0	0.1	37	18.6	18.6	8.2	8.2	32.1	32.1	93.5	93.5	7.2	7.2	3.3	4.2	9	9	44	47	821442	812056	<0.2	<0.2	0.8	0.8
						1.0	0.1	38	18.6		8.2		32.1		93.4		7.2		3.4		8		45				<0.2		0.8	
					Middle	4.6	0.1	37	18.5	18.5	8.2	8.2	32.1	32.1	93.2	93.2	7.2		4.3		9		47				<0.2		0.8	
						4.6	0.1	39	18.5		8.2		32.1		93.2		7.2		4.4		8		47				<0.2		0.9	
					Bottom	8.1	0.1	46	18.5	18.5	8.2	8.2	32.1	32.1	94.1	94.2	7.3	7.3	4.9		10		48				<0.2		0.8	
						8.1	0.1	47	18.5		8.2		32.1		94.2		7.3		5.0		9		49				<0.2		0.9	
SR1A	Cloudy	Moderate	14:03	5.1	Surface	1.0	-	-	18.5	18.5	8.2	8.2	32.2	32.2	98.3	98.4	7.6	7.6	2.9	2.7	4	6	-	-	819979	812657	-	-	-	-
						1.0	-	-	18.5		8.2		32.2		98.4		7.6		2.9		5		-				-		-	
					Middle	2.6	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.6	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.1	-	-	18.5	18.5	8.3	8.3	32.2	32.2	99.8	100.0	7.7	7.8	2.4		6		-				-		-	
						4.1	-	-	18.5		8.3		32.2		100.1		7.8		2.4		7		-				-		-	
SR2	Cloudy	Moderate	14:14	4.6	Surface	1.0	0.1	16	18.5	18.5	8.2	8.2	32.2	32.2	96.6	96.7	7.5	7.5	3.4	3.4	7	8	46	48	821481	814162	<0.2	<0.2	0.9	0.9
						1.0	0.1	17	18.5		8.2		32.2		96.8		7.5		3.5		8		47				<0.2		0.9	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.6	0.1	38	18.8	18.9	8.3	8.3	32.0	32.0	98.1	98.3	7.5	7.6	3.2		7		48				<0.2		0.8	
						3.6	0.1	38	18.9		8.3		31.9		98.4		7.6		3.3		8		49				<0.2		0.9	
SR3	Cloudy	Moderate	13:12	8.7	Surface	1.0	0.2	128	18.5	18.5	8.2	8.2	31.9	31.9	94.7	94.7	7.3	7.4	4.5	7.1	9	8	-	-	822159	807589	-	-	-	-
						1.0	0.2	130	18.5		8.2		31.9		94.7		7.3		4.6		8		-				-		-	
					Middle	4.4	0.1	147	18.5	18.5	8.2	8.2	31.9	31.9	95.2	95.3	7.4		6.6		7		-				-		-	
						4.4	0.1	159	18.5		8.2		31.9		95.3		7.4		7.1		7		-				-		-	
					Bottom	7.7	0.1	111	18.5	18.5	8.2	8.2	31.9	31.9	97.4	97.5	7.6	7.6	9.7		7		-				-		-	
						7.7	0.1	116	18.5		8.2		31.9		97.6		7.6		9.9		7		-				-		-	
SR4A	Misty	Moderate	14:13	8.4	Surface	1.0	0.4	65	19.2	19.2	8.1	8.1	32.8	32.8	104.4	104.4	8.0	8.0	3.6	4.6	8	7	-	-	817176	807801	-	-	-	-
						1.0	0.4	65	19.1		8.1		32.8		104.4		8.0		3.5		7		-				-		-	
					Middle	4.2	0.3	73	19.1	19.1	8.1	8.1	32.8	32.8	104.9	105.1	8.0		4.6		8		-				-		-	
						4.2	0.3	79	19.1		8.1		32.7		105.2		8.0		4.6		7		-				-		-	
					Bottom	7.4	0.3	79	18.9	18.9	8.1	8.1	32.9	33.0	106.4	106.6	8.1	8.2	5.6		5		-				-		-	
						7.4	0.3	83	18.9		8.1		33.0		106.7		8.2		5.8		6		-				-		-	
SR5A	Misty	Moderate	14:28	3.2	Surface	1.0	0.0	13	19.7	19.7	8.1	8.1	33.1	33.1	105.5	105.6	8.0	8.0	7.1	7.6	7	8	-	-	816613	810681	-	-	-	-
						1.0	0.0	13	19.7		8.1		33.1		105.6		8.0		7.2		8		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.2	0.1	351	19.5	19.5	8.2	8.2	33.1	33.1	105.5	105.6	8.0	8.0	8.0		8		-				-		-	
						2.2	0.1	354	19.5		8.2		33.0		105.7		8.0		8.1		8		-				-		-	
SR6A	Misty	Moderate	15:15	4.4	Surface	1.0	0.1	134	19.7	19.7	8.1	8.1	33.0	33.0	105.3	105.3	7.9	7.9	5.0	5.9	6	7	-	-	817985	814737	-	-	-	-
						1.0	0.1	134	19.7		8.1		33.0		105.3		7.9		5.0		7		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.4	0.0	41	19.7	19.7	8.1	8.1	32.6	32.7	105.4	105.4	7.9	8.0	6.9		8		-				-		-	
						3.4	0.0	42	19.7		8.1		32.7		105.4		8.0		6.8		7		-				-		-	
SR7	Cloudy	Moderate	14:57	16.2	Surface	1.0	0.2	29	18.6	18.6	8.2	8.2	32.6	32.6	88.1	88.1	6.8	6.8	2.2	2.8	6	5	-	-	823639	823723	-	-	-	-
						1.0	0.2	29	18.6		8.2		32.6		88.0		6.8		2.2		5		-				-		-	
					Middle	8.1	0.2	52	18.5	18.5	8.2	8.2	32.7	32.7	87.6	87.6	6.8		3.1		4		-				-		-	
						8.1	0.2	52	18.5		8.2		32.7		87.5		6.8		3.1		5		-				-		-	
					Bottom	15.2	0.1	67	18.5	18.5	8.2	8.2	32.7	32.7	87.9	88.0	6.8	6.8	3.2		4		-				-		-	
						15.2	0.1	72	18.5		8.2		32.7		88.1		6.8		3.2		5		-				-		-	
SR8	Cloudy	Moderate	13:45	4.1	Surface	1.0	-	-	18.6	18.6	8.3	8.3	32.0	32.0	98.8	98.8	7.6	7.6	2.8	2.9	8	8	-	-	820374	811600	-	-	-	-
						1.0	-	-	18.6		8.3		32.0		98.8		7.6		2.8		7		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.1	-	-	18.9	19.0	8.3	8.3	31.7	31.7	99.3	99.4	7.6	7.6	2.9		7		-				-		-	
						3.1	-	-	19.0		8.3		31.6		99.5		7.6		2.9		8		-				-		-	

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

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 20 January 22 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	Misty	Moderate	09:44	7.6	Surface	1.0	0.4	53	18.7	18.7	8.1	8.1	32.9	32.9	103.1	103.1	7.9	7.9	5.4	6.3	20	23	78	85	815622	804263	<0.2	<0.2	0.7	0.8
						1.0	0.4	53	18.7		8.1		32.9		103.1		7.9		5.4		21		78				<0.2		0.7	
					Middle	3.8	0.5	47	18.7	18.7	8.1	8.1	32.9	32.9	103.3	103.3	7.9		6.4		21		86				<0.2		0.8	
						3.8	0.5	48	18.7		8.1		32.9		103.3		7.9		6.4		22		86				<0.2		0.7	
					Bottom	6.6	0.3	45	18.7	18.7	8.1	8.1	32.9	32.9	104.6	104.8	8.0	8.0	7.0		26		89				<0.2		0.8	
						6.6	0.4	48	18.7		8.1		32.9		104.9		8.0		7.1		27		90				<0.2		0.8	
C2	Cloudy	Moderate	10:40	11.8	Surface	1.0	0.3	10	18.5	18.5	8.2	8.2	31.7	31.7	92.1	92.1	7.2	7.2	2.7	4.6	16	13	45	48	825668	806948	<0.2	<0.2	0.9	0.9
						1.0	0.3	10	18.5		8.2		31.7		92.1		7.2		2.9		15		44				<0.2		0.9	
					Middle	5.9	0.3	13	18.4	18.4	8.2	8.2	31.8	31.8	92.2	92.3	7.2		4.3		8		48				<0.2		0.9	
						5.9	0.3	13	18.4		8.2		31.8		92.3		7.2		4.4		7		48				<0.2		0.7	
					Bottom	10.8	0.3	35	18.4	18.4	8.2	8.2	31.8	31.8	94.6	94.7	7.3	7.4	6.6		16		53				<0.2		0.9	
						10.8	0.3	38	18.4		8.2		31.8		94.8		7.4		6.5		15		52				<0.2		0.8	
C3	Cloudy	Moderate	08:19	11.2	Surface	1.0	0.5	252	18.4	18.4	8.2	8.2	32.2	32.2	91.5	91.5	7.1	7.1	4.1	7.3	8	10	44	49	822086	817789	<0.2	<0.2	0.8	0.8
						1.0	0.5	273	18.4		8.2		32.2		91.5		7.1		4.1		9		46				<0.2		0.8	
					Middle	5.6	0.5	252	18.4	18.4	8.2	8.2	32.3	32.3	91.1	91.1	7.1		6.3		8		49				<0.2		0.9	
						5.6	0.5	273	18.4		8.2		32.3		91.1		7.1		6.3		9		47				<0.2		0.9	
					Bottom	10.2	0.4	262	18.4	18.4	8.2	8.2	32.3	32.3	96.1	96.1	7.4	7.4	11.2		14		54				<0.2		0.7	
						10.2	0.4	284	18.4		8.2		32.3		96.1		7.4		11.9		13		52				<0.2		0.8	
IM1	Misty	Moderate	10:02	4.6	Surface	1.0	0.1	348	18.9	18.9	8.1	8.1	32.9	32.9	102.8	102.9	7.9	7.9	5.8	6.3	7	9	46	67	817968	807113	<0.2	0.2	0.6	0.8
						1.0	0.1	320	18.9		8.1		32.9		103.0		7.9		5.7		8		46				<0.2		0.8	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.6	0.1	338	18.9	18.9	8.1	8.1	32.9	32.9	103.5	103.6	7.9	7.9	6.8		11		87				0.2		0.8	
						3.6	0.1	311	18.9		8.1		32.9		103.6		7.9		6.8		10		87				0.2		0.8	
IM2	Misty	Moderate	10:09	6.4	Surface	1.0	0.3	2	18.8	18.8	8.1	8.1	32.6	32.6	102.9	103.0	7.9	7.9	6.6	7.5	11	10	46	74	818162	806160	0.2	0.2	0.8	0.7
						1.0	0.3	2	18.8		8.1		32.6		103.0		7.9		6.6		10		45				0.2		0.8	
					Middle	3.2	0.3	353	18.7	18.7	8.1	8.1	32.7	32.7	103.4	103.5	7.9		7.5		10		86				0.2		0.6	
						3.2	0.3	325	18.7		8.1		32.7		103.5		8.0		7.5		10		86				0.2		0.7	
					Bottom	5.4	0.2	351	18.7	18.7	8.1	8.1	32.6	32.6	105.0	105.1	8.1	8.1	8.3		10		90				<0.2		0.7	
						5.4	0.2	356	18.7		8.1		32.6		105.2		8.1		8.2		11		90				<0.2		0.8	
IM3	Misty	Moderate	10:16	6.6	Surface	1.0	0.3	337	18.8	18.8	8.1	8.1	32.5	32.5	102.7	102.7	7.9	7.9	7.0	8.1	10	11	46	74	818779	805586	<0.2	0.2	0.8	0.7
						1.0	0.3	310	18.8		8.1		32.5		102.7		7.9		7.1		9		46				<0.2		0.8	
					Middle	3.3	0.3	341	18.8	18.8	8.1	8.1	32.7	32.7	103.0	103.1	7.9		8.3		11		87				0.2		0.7	
						3.3	0.3	314	18.8		8.1		32.7		103.2		7.9		8.2		10		87				0.2		0.8	
					Bottom	5.6	0.2	340	18.7	18.7	8.1	8.1	32.7	32.7	104.6	104.8	8.0	8.1	9.0		12		90				<0.2		0.7	
						5.6	0.2	313	18.7		8.1		32.7		104.9		8.1		9.1		11		90				<0.2		0.6	
IM4	Misty	Moderate	10:25	8.2	Surface	1.0	0.6	4	18.9	18.9	8.1	8.1	32.6	32.7	100.1	100.1	7.7	7.7	6.3	7.3	9	10	82	88	819734	804594	<0.2	<0.2	0.8	0.8
						1.0	0.7	4	18.9		8.1		32.7		100.1		7.7		6.2		10		82				<0.2		0.8	
					Middle	4.1	0.6	354	18.9	18.9	8.1	8.1	32.7	32.7	100.6	100.8	7.7		7.1		10		90				<0.2		0.8	
						4.1	0.6	326	18.9		8.1		32.7		100.9		7.7		7.1		11		90				<0.2		0.8	
					Bottom	7.2	0.5	350	18.9	18.9	8.1	8.1	32.7	32.7	103.1	103.3	7.9	7.9	8.4		10		91				<0.2		0.8	
						7.2	0.5	322	18.9		8.1		32.7		103.5		7.9		8.5		11		91				<0.2		0.8	
IM5	Misty	Moderate	10:31	6.6	Surface	1.0	0.8	16	18.9	18.9	8.1	8.1	32.8	32.8	100.7	100.8	7.7	7.8	4.9	5.5	11	13	43	74	820730	804853	<0.2	<0.2	0.7	0.8
						1.0	0.8	16	18.9		8.1		32.8		100.8		7.7		4.8		10		43				<0.2		0.9	
					Middle	3.3	0.8	18	18.9	18.9	8.1	8.1	32.8	32.8	102.4	102.6	7.8		5.0		10		88				<0.2		0.8	
						3.3	0.9	18	18.9		8.1		32.8		102.7		7.9		5.1		17		87				<0.2		0.7	
					Bottom	5.6	0.7	20	18.9	18.9	8.1	8.1	32.7	32.7	104.0	104.3	8.0	8.0	6.7		15		91				<0.2		0.9	
						5.6	0.8	21	18.9		8.1		32.7		104.5		8.0		6.7		16		91				<0.2		0.8	
IM6	Misty	Moderate	10:39	7.2	Surface	1.0	0.3	32	18.8	18.8	8.1	8.1	32.9	32.9	102.2	102.2	7.8	7.9	3.6	4.5	6	6	45	74	821041	805850	0.3	0.2	0.9	0.8
						1.0	0.3	32	18.8		8.1		32.9		102.2		7.8		3.6		5		45				0.2		0.9	
					Middle	3.6	0.2	26	18.8	18.8	8.2	8.2	32.9	32.9	102.8	102.9	7.9		4.5		6		86				<0.2		0.8	
						3.6	0.2	26	18.8		8.2		32.9		103.0		7.9		4.4		6		87				<0.2		0.8	
					Bottom	6.2	0.2	45	18.8	18.8	8.2	8.2	32.9	32.9	103.5	103.6	7.9	7.9	5.5		6		91				<0.2		0.7	
						6.2	0.2	47	18.8		8.2		32.9		103.7		7.9		5.5		7		91				<0.2		0.8	
IM7	Misty	Moderate	10:46	8.4	Surface	1.0	0.2	128	19.1	19.1	8.1	8.1	32.7	32.7	99.9	99.9	7.6	7.7	3.2	4.7	4	7	42	74	821359	806841	<0.2	<0.2	0.8	0.9
						1.0	0.2	131	19.1		8.1		32.7		99.9		7.6		3.3		5		43				<0.2		0.9	
					Middle	4.2	0.2	125	19.0	19.0	8.1	8.1	32.7	32.7	100.4	100.5	7.7		4.8		7		88				<0.2		0.8	
						4.2	0.2	129	19.0		8.1		32.7		100.5		7.7		4.9		8		88				<0.2		0.9	
					Bottom	7.4	0.2	127	19.0	19.0	8.1	8.1	32.7	32.7	102.0	102.1	7.8	7.8	5.9		7		90				<0.2		0.8	
						7.4	0.3	138	19.0		8.1		32.7		102.2		7.8		5.9		8		90				<0.2		0.9	
IM8	Cloudy	Moderate	10:17	7.5	Surface	1.0	0.0	42	18.4	18.4	8.2	8.2	31.9	31.9	91.0	91.0	7.1	7.1	5.6	5.5	9	9	44	48	821829	808143	<0.2	<0.2	0.7	0.8
						1.0	0.0	42	18.4		8.2		31.9		91.0		7.1		5.6		10		45				<0.2		0.8	
					Middle	3.8	0.1	27	18.3	18.3	8.2	8.2	31.9	31.9	91.1	91.2	7.1		5.5		10		48				<0.2		0.9	
						3.8	0.1	28	18.3		8.2		31.9		91.2		7.1		5.5		9		49				<0.2		0.8	
					Bottom	6.5	0.0	273	18.3	18.3	8.2	8.2	31.9	31.9	92.6	92.7	7.2	7.2	5.4		9		51				<0.2		0.8	
						6.5	0.0	285	18.3		8.2		31.9		92.8		7.2		5.5		8		50				<0.2		0.7	

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

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 20 January 22 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	10:13	7.2	Surface	1.0	0.1	267	18.3	18.3	8.2	8.2	31.9	31.9	92.4	92.4	7.2	7.2	7.3	9.3	9	9	42	46	822073	808830	<0.2	<0.2	0.7	0.7
						1.0	0.1	276	18.3		8.2		31.9		92.4		7.2		7.3		10		43				<0.2		0.8	
					Middle	3.6	0.1	233	18.3	18.3	8.2	8.3	31.9	31.9	92.8	92.8	7.2		9.0		9		45				<0.2		0.9	
						3.6	0.1	252	18.3		8.3		31.9		92.8		7.2		9.7		8		46				<0.2		0.8	
					Bottom	6.2	0.1	237	18.2	18.2	8.3	8.3	31.9	31.9	94.1	94.2	7.3	7.3	11.1		8		48				<0.2		0.5	
						6.2	0.1	246	18.2		8.3		31.9		94.3		7.3		11.3		7		49				<0.2		0.6	
IM10	Cloudy	Moderate	10:06	6.9	Surface	1.0	0.4	322	18.3	18.3	8.2	8.2	31.9	31.9	92.1	92.1	7.2	7.2	8.9	9.9	12	12	43	47	822389	809787	<0.2	0.2	0.7	0.8
						1.0	0.4	353	18.3		8.2		31.9		92.1		7.2		9.2		13		43				<0.2		0.6	
					Middle	3.5	0.4	321	18.2	18.2	8.2	8.2	31.9	31.9	92.4	92.4	7.2		10.1		11		48				0.2		0.8	
						3.5	0.5	344	18.2		8.2		31.9		92.4		7.2		10.4		12		47				0.2		0.8	
					Bottom	5.9	0.3	328	18.2	18.2	8.2	8.2	31.9	31.9	93.1	93.2	7.3	7.3	10.3		12		52				<0.2		0.8	
						5.9	0.3	334	18.2		8.2		31.9		93.2		7.3		10.2		11		51				<0.2		0.9	
IM11	Cloudy	Moderate	09:57	7.6	Surface	1.0	0.6	320	18.3	18.3	8.2	8.2	32.0	32.0	92.3	92.3	7.2	7.2	8.0	9.7	10	10	43	48	822040	811454	<0.2	<0.2	0.7	0.8
						1.0	0.6	351	18.3		8.2		32.0		92.3		7.2		8.1		9		44				<0.2		0.8	
					Middle	3.8	0.5	315	18.3	18.3	8.2	8.2	32.0	32.0	92.3	92.3	7.2		9.6		9		48				<0.2		0.8	
						3.8	0.5	332	18.3		8.2		32.0		92.3		7.2		9.6		10		47				<0.2		0.7	
					Bottom	6.6	0.3	324	18.3	18.3	8.2	8.2	32.0	32.0	92.6	92.6	7.2	7.2	11.4		10		52				<0.2		0.7	
						6.6	0.4	324	18.3		8.2		32.0		92.6		7.2		11.4		11		51				<0.2		0.8	
IM12	Cloudy	Moderate	09:50	9.4	Surface	1.0	0.2	288	18.3	18.3	8.2	8.2	32.0	32.0	92.1	92.1	7.2	7.2	9.8	10.8	15	14	47	49	821467	812042	<0.2	<0.2	0.7	0.9
						1.0	0.2	308	18.3		8.2		32.0		92.1		7.2		10.0		14		46				<0.2		0.8	
					Middle	4.7	0.2	280	18.3	18.3	8.2	8.2	32.0	32.0	91.9	91.9	7.1	7.2	10.4		15		48				<0.2		0.9	
						4.7	0.2	285	18.3		8.2		32.0		91.9		7.1		10.5		14		49				<0.2		0.8	
					Bottom	8.4	0.2	270	18.3	18.3	8.2	8.2	32.0	32.0	92.2	92.3	7.2	7.2	10.6		13		52				<0.2		0.9	
						8.4	0.2	287	18.3		8.2		32.0		92.3		7.2		13.6		14		51				<0.2		1.0	
SR1A	Cloudy	Moderate	08:51	5.7	Surface	1.0	-	-	18.3	18.3	8.2	8.2	32.2	32.2	94.2	94.3	7.3	7.3	2.9	3.2	12	11	-	-	819975	812659	-	-	-	-
						1.0	-	-	18.3		8.2		32.2		94.4		7.3		3.0		11		-				-		-	
					Middle	2.9	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.9	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.7	-	-	18.3	18.3	8.2	8.2	32.2	32.2	95.5	95.7	7.4	7.4	3.4		10		-				-		-	
						4.7	-	-	18.3		8.2		32.2		95.8		7.4		3.4		11		-				-		-	
SR2	Cloudy	Moderate	08:38	3.9	Surface	1.0	0.1	76	18.2	18.2	8.2	8.2	31.9	31.9	93.7	93.7	7.3	7.3	9.3	9.6	5	6	48	51	821445	814171	0.2	0.2	0.8	0.8
						1.0	0.1	81	18.2		8.2		31.9		93.7		7.3		9.3		5		49				0.2		0.9	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.9	0.1	82	18.2	18.2	8.2	8.2	31.9	31.9	95.5	95.7	7.4	7.5	9.9		6		53				<0.2		0.8	
						2.9	0.1	82	18.2		8.2		31.9		95.8		7.5		10.0		7		52				<0.2		0.8	
SR3	Cloudy	Moderate	10:23	8.8	Surface	1.0	0.0	67	18.5	18.5	8.2	8.2	31.8	31.8	91.5	91.5	7.1	7.1	4.4	5.8	5	5	-	-	822154	807553	-	-	-	-
						1.0	0.0	71	18.4		8.2		31.8		91.5		7.1		4.5		6		-				-		-	
					Middle	4.4	0.1	93	18.4	18.4	8.2	8.2	31.8	31.8	91.6	91.7	7.1		5.4		6		-				-		-	
						4.4	0.1	97	18.4		8.2		31.8		91.7		7.1		5.6		5		-				-		-	
					Bottom	7.8	0.1	75	18.4	18.4	8.2	8.2	31.8	31.8	93.7	93.8	7.3	7.3	7.2		5		-				-		-	
						7.8	0.1	80	18.4		8.2		31.8		93.8		7.3		7.4		4		-				-		-	
SR4A	Misty	Moderate	09:23	8.8	Surface	1.0	0.2	99	18.9	18.9	8.1	8.1	33.0	33.0	101.1	101.1	7.7	7.8	3.8	4.6	8	8	-	-	817199	807828	-	-	-	-
						1.0	0.2	105	18.9		8.1		33.0		101.1		7.7		3.8		9		-				-		-	
					Middle	4.4	0.1	79	18.9	18.9	8.1	8.1	33.0	33.0	101.4	101.4	7.8		4.8		9		-				-		-	
						4.4	0.1	85	18.9		8.1		33.0		101.4		7.8		4.8		9		-				-		-	
					Bottom	7.8	0.1	40	18.9	18.9	8.1	8.1	33.0	33.0	102.4	102.6	7.8	7.9	5.1		7		-				-		-	
						7.8	0.1	40	18.9		8.1		33.0		102.8		7.9		5.2		6		-				-		-	
SR5A	Misty	Moderate	09:06	3.2	Surface	1.0	0.1	288	18.9	18.9	8.1	8.1	33.1	33.1	103.1	103.2	7.9	7.9	6.1	6.8	7	7	-	-	816575	810709	-	-	-	-
						1.0	0.1	288	18.9		8.1		33.1		103.2		7.9		6.1		7		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.2	0.0	292	18.9	18.9	8.1	8.1	33.1	33.1	104.2	104.4	8.0	8.0	7.4		8		-				-		-	
						2.2	0.0	296	18.9		8.1		33.1		104.5		8.0		7.5		7		-				-		-	
SR6A	Misty	Moderate	08:26	4.0	Surface	1.0	0.0	277	18.9	18.9	8.0	8.0	33.1	33.1	101.5	101.7	7.8	7.8	3.7	4.2	5	6	-	-	817965	814748	-	-	-	-
						1.0	0.0	293	18.9		8.0		33.1		101.8		7.8		3.7		6		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.0	0.0	281	18.8	18.8	7.9	7.9	33.0	33.0	103.2	103.5	7.9	7.9	4.7		6		-				-		-	
						3.0	0.0	295	18.8		7.9		33.0		103.7		7.9		4.7		7		-				-		-	
SR7	Cloudy	Moderate	07:52	16.5	Surface	1.0	0.2	52	18.5	18.5	8.1	8.1	32.4	32.4	87.9	87.9	6.8	6.8	4.5	5.6	5	6	-	-	823638	823742	-	-	-	-
						1.0	0.2	52	18.5		8.1		32.4		87.9		6.8		4.6		5		-				-		-	
					Middle	8.3	0.2	55	18.5	18.5	8.1	8.1	32.5	32.5	87.3	87.3	6.7		6.0		5		-				-		-	
						8.3	0.2	55	18.5		8.1		32.5		87.3		6.7		6.1		6		-				-		-	
					Bottom	15.5	0.2	72	18.5	18.5	8.1	8.1	32.5	32.5	87.8	87.8	6.8	6.8	6.3		7		-				-		-	
						15.5	0.2	73	18.5		8.1		32.5		87.8		6.8		6.2		6		-				-		-	
SR8	Cloudy	Moderate	09:43	4.6	Surface	1.0	-	-	18.2	18.2	8.2	8.2	32.0	32.0	96.0	96.1	7.5	7.5	5.1	5.7	11	13	-	-	820411	811603	-	-	-	-
						1.0	-	-	18.2		8.2		32.0		96.1		7.5		5.3		11		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.6	-	-	18.2	18.2	8.2	8.2	32.0	32.0	96.9	97.0	7.5	7.6	6.2		15		-				-		-	
						3.6	-	-	18.2		8.2		32.0		97.1		7.6		6.1		16		-				-		-	

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

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 22 January 22 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	Misty	Moderate	15:11	7.6	Surface	1.0	0.1	184	18.8	18.8	8.2	8.2	32.8	32.8	103.2	103.2	7.9	7.9	4.8	5.3	8	8	84	87	815616	804261	<0.2	<0.2	1.0	0.9
						1.0	0.1	191	18.8		8.2		32.8		103.1		7.9		4.7		9		84				<0.2		0.9	
					Middle	3.8	0.1	192	18.8	18.8	8.2	8.2	32.9	32.9	103.2	103.3	7.9		5.1		8		87				<0.2		0.8	
						3.8	0.1	210	18.8		8.2		32.9		103.3		7.9		5.1		7		87				<0.2		0.8	
					Bottom	6.6	0.2	206	18.7	18.7	8.2	8.2	33.0	33.0	105.0	105.1	8.1	8.1	6.1		7		91				<0.2		0.8	
						6.6	0.2	224	18.7		8.2		33.0		105.2		8.1		6.1		7		91				<0.2		0.8	
C2	Fine	Rough	14:12	8.3	Surface	1.0	0.0	8	18.6	18.6	8.2	8.2	31.3	31.3	94.6	94.6	7.3	7.3	2.8	3.6	3	4	44	48	825671	806950	<0.2	<0.2	1.1	1.1
						1.0	0.0	8	18.6		8.2		31.3		94.5		7.3		2.8		3		44				<0.2		1.2	
					Middle	4.2	0.3	48	18.5	18.5	8.2	8.3	31.6	31.6	94.3	94.4	7.3		2.4		4		48				<0.2		1.0	
						4.2	0.3	52	18.5		8.3		31.6		94.4		7.3		2.5		4		48				<0.2		1.1	
					Bottom	7.3	0.3	58	18.4	18.4	8.2	8.2	31.9	31.9	94.3	94.4	7.3	7.3	5.6		4		51				<0.2		1.1	
						7.3	0.3	62	18.4		8.2		31.9		94.4		7.3		5.6		4		51				<0.2		1.2	
C3	Fine	Rough	16:09	11.9	Surface	1.0	0.3	120	18.5	18.5	8.2	8.2	32.1	32.1	92.8	92.8	7.2	7.2	1.8	1.8	3	3	44	48	822087	817785	<0.2	<0.2	1.1	1.0
						1.0	0.3	120	18.5		8.2		32.1		92.8		7.2		1.8		3		44				<0.2		1.1	
					Middle	6.0	0.3	119	18.6	18.6	8.2	8.2	32.2	32.2	91.6	91.6	7.1		1.8		3		48				<0.2		1.1	
						6.0	0.3	120	18.6		8.2		32.2		91.6		7.1		1.8		3		48				<0.2		1.0	
					Bottom	10.9	0.3	108	18.5	18.5	8.2	8.2	32.3	32.3	90.4	90.4	7.0	7.0	2.0		3		51				<0.2		1.0	
						10.9	0.3	116	18.5		8.2		32.3		90.4		7.0		2.0		4		51				<0.2		0.9	
IM1	Misty	Moderate	14:53	5.0	Surface	1.0	0.1	177	19.0	19.0	8.1	8.1	32.7	32.7	104.1	104.1	8.0	8.0	5.4	6.0	7	9	82	85	817957	807128	<0.2	<0.2	0.7	0.8
						1.0	0.1	188	19.0		8.1		32.7		104.1		8.0		5.5		6		82				<0.2		0.9	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.0	0.1	185	18.9	18.9	8.1	8.1	32.8	32.8	104.2	104.3	8.0	8.0	6.6		11		87				<0.2		0.8	
						4.0	0.1	201	18.9		8.1		32.8		104.4		8.0		6.6		11		87				<0.2		0.9	
IM2	Misty	Moderate	14:46	7.0	Surface	1.0	0.1	127	18.9	18.9	8.1	8.1	32.7	32.7	102.7	102.7	7.9	7.9	6.9	7.8	9	10	46	75	818172	806149	<0.2	<0.2	0.9	0.8
						1.0	0.1	134	18.9		8.1		32.7		102.6		7.9		7.1		9		46				<0.2		0.9	
					Middle	3.5	0.0	76	18.9	18.9	8.1	8.1	32.7	32.7	102.8	102.9	7.9		8.0		10		87				<0.2		0.8	
						3.5	0.0	76	18.9		8.1		32.7		103.0		7.9		8.1		9		87				<0.2		0.8	
					Bottom	6.0	0.1	137	18.7	18.7	8.1	8.1	32.8	32.9	105.2	105.3	8.1	8.1	8.4		11		91				<0.2		0.7	
						6.0	0.1	138	18.6		8.1		32.9		105.4		8.1		8.5		10		92				<0.2		0.7	
IM3	Misty	Moderate	14:39	7.0	Surface	1.0	0.1	320	18.9	18.9	8.1	8.1	32.7	32.7	103.4	103.4	7.9	7.9	6.8	7.6	10	9	44	76	818800	805597	<0.2	<0.2	0.8	0.7
						1.0	0.1	338	18.9		8.1		32.7		103.4		7.9		6.8		10		44				<0.2		0.8	
					Middle	3.5	0.1	346	18.9	18.9	8.1	8.1	32.7	32.7	103.7	103.8	7.9		7.2		9		91				<0.2		0.6	
						3.5	0.1	349	18.9		8.1		32.7		103.9		8.0		7.3		9		91				<0.2		0.7	
					Bottom	6.0	0.1	12	18.7	18.7	8.2	8.2	32.9	32.9	105.5	105.6	8.1	8.1	8.7		9		94				<0.2		0.6	
						6.0	0.1	12	18.6		8.2		33.0		105.7		8.1		8.8		9		94				<0.2		0.7	
IM4	Misty	Moderate	14:30	7.6	Surface	1.0	0.2	264	19.0	19.0	8.1	8.1	32.6	32.6	103.5	103.6	7.9	8.0	4.1	5.6	13	10	83	89	819739	804608	<0.2	<0.2	0.6	0.7
						1.0	0.2	289	19.0		8.1		32.6		103.6		7.9		4.1		12		83				<0.2		0.6	
					Middle	3.8	0.1	308	18.9	18.9	8.2	8.2	32.7	32.7	104.2	104.3	8.0		5.8		11		90				<0.2		0.8	
						3.8	0.1	316	18.9		8.2		32.7		104.4		8.0		5.8		10		90				<0.2		0.7	
					Bottom	6.6	0.1	325	18.8	18.8	8.2	8.2	32.8	32.8	105.1	105.2	8.1	8.1	6.7		8		95				<0.2		0.6	
						6.6	0.1	344	18.8		8.2		32.8		105.3		8.1		6.7		7		95				<0.2		0.6	
IM5	Misty	Moderate	14:23	8.4	Surface	1.0	0.2	354	18.9	18.9	8.1	8.1	32.7	32.7	101.2	101.2	7.7	7.7	4.3	5.3	6	8	46	75	820716	804877	<0.2	<0.2	0.8	0.8
						1.0	0.2	326	18.9		8.1		32.7		101.2		7.7		4.3		7		46				<0.2		0.7	
					Middle	4.2	0.2	2	18.9	18.9	8.1	8.1	32.6	32.6	101.2	101.2	7.7		5.4		8		88				<0.2		0.9	
						4.2	0.2	2	18.9		8.1		32.6		101.2		7.7		5.3		9		88				<0.2		0.7	
					Bottom	7.4	0.2	13	19.0	19.0	8.1	8.1	32.6	32.6	102.9	103.1	7.9	7.9	6.1		9		90				<0.2		0.8	
						7.4	0.2	13	19.0		8.1		32.6		103.2		7.9		6.1		6		90				<0.2		0.8	
IM6	Misty	Moderate	14:16	7.6	Surface	1.0	0.1	250	19.1	19.1	8.1	8.1	32.5	32.5	100.9	100.9	7.7	7.7	2.3	3.2	14	14	46	75	821064	805816	<0.2	<0.2	0.7	0.8
						1.0	0.1	252	19.1		8.1		32.5		100.9		7.7		2.3		14		45				<0.2		0.8	
					Middle	3.8	0.1	242	19.1	19.1	8.1	8.1	32.6	32.6	100.5	100.5	7.7		3.3		14		88				<0.2		0.8	
						3.8	0.1	251	19.1		8.1		32.6		100.5		7.7		3.3		14		88				<0.2		0.7	
					Bottom	6.6	0.1	290	19.1	19.1	8.1	8.1	32.7	32.7	101.9	102.1	7.8	7.8	4.2		13		91				<0.2		0.8	
						6.6	0.1	308	19.1		8.1		32.7		102.2		7.8		4.1		13		91				<0.2		0.8	
IM7	Misty	Moderate	14:11	8.4	Surface	1.0	0.2	241	19.1	19.1	8.2	8.2	32.5	32.6	101.9	101.9	7.8	7.8	3.4	4.4	9	10	47	75	821348	806826	<0.2	<0.2	0.8	0.7
						1.0	0.2	257	19.1		8.2		32.6		101.9		7.8		3.5		9		47				<0.2		0.6	
					Middle	4.2	0.1	237	19.0	19.0	8.2	8.2	32.7	32.7	102.0	102.1	7.8		4.9		10		88				<0.2		0.6	
						4.2	0.1	248	19.0		8.2		32.7		102.1		7.8		4.9		10		88				<0.2		0.8	
					Bottom	7.4	0.1	166	19.0	19.0	8.2	8.2	32.6	32.6	103.5	103.6	7.9	7.9	5.0		12		90				<0.2		0.8	
						7.4	0.1	178	19.0		8.2		32.6		103.7		7.9		5.0		12		90				<0.2		0.8	
IM8	Fine	Rough	14:43	8.1	Surface	1.0	0.3	69	18.5	18.5	8.2	8.2	31.6	31.6	93.9	93.9	7.3	7.3	3.4	6.5	3	4	44	48	821817	808146	<0.2	<0.2	1.1	1.1
						1.0	0.3	69	18.5		8.2		31.6		93.8		7.3		3.4		3		44				<0.2		1.0	
					Middle	4.1	0.3	65	18.4	18.4	8.2	8.2	31.8	31.8	93.6	93.6	7.3		8.2		4		48				<0.2		1.2	
						4.1	0.4	67	18.4		8.2		31.8		93.6		7.3		8.2		4		48				<0.2		1.0	
					Bottom	7.1	0.2	64	18.4	18.4	8.2	8.2	31.9	31.9	93.6	93.6	7.3	7.3	7.9		4		52				<0.2		1.2	
						7.1	0.2	67	18.4		8.2		31.9		93.6		7.3		7.9		4		52				<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 22 January 22 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	Rough	14:48	8.0	Surface	1.0	0.3	71	18.7	18.7	8.2	8.2	31.3	31.3	93.2	93.2	7.2	7.2	1.8	3.5	2	4	40	46	822114	808828	<0.2	<0.2	1.2	1.1
						1.0	0.3	72	18.7		8.2		31.3		93.2		7.2		1.8		3		40				<0.2		1.2	
					Middle	4.0	0.3	65	18.5	18.5	8.2	8.2	31.6	31.6	92.3	92.3	7.2		3.9		4		47				<0.2		1.1	
						4.0	0.3	69	18.5		8.2		31.6		92.3		7.2		3.9		4		47				<0.2		1.2	
					Bottom	7.0	0.3	64	18.5	18.5	8.2	8.2	31.8	31.8	92.6	92.6	7.2	7.2	4.9		4		51				<0.2		1.1	
						7.0	0.4	69	18.5		8.2		31.8		92.6		7.2		4.9		4		51				<0.2		1.0	
IM10	Fine	Rough	14:55	8.5	Surface	1.0	0.4	74	18.7	18.7	8.2	8.2	31.3	31.3	93.3	93.3	7.2	7.2	1.6	2.0	4	4	44	48	822381	809772	<0.2	<0.2	1.0	1.1
						1.0	0.5	78	18.7		8.2		31.3		93.3		7.2		1.6		4		44				<0.2		1.1	
					Middle	4.3	0.5	84	18.5	18.5	8.2	8.2	31.7	31.7	92.2	92.2	7.2		1.9		4		47				<0.2		1.1	
						4.3	0.5	84	18.5		8.2		31.7		92.2		7.2		1.9		4		47				<0.2		1.1	
					Bottom	7.5	0.2	102	18.5	18.5	8.2	8.2	32.0	32.0	92.6	92.6	7.2	7.2	2.5		4		52				<0.2		1.2	
						7.5	0.2	111	18.5		8.2		32.0		92.6		7.2		2.5		3		52				<0.2		1.2	
IM11	Fine	Rough	15:05	9.8	Surface	1.0	0.3	108	18.5	18.5	8.2	8.2	32.0	32.0	93.2	93.2	7.2	7.2	2.2	2.9	4	3	42	47	822051	811452	<0.2	<0.2	1.1	1.1
						1.0	0.3	109	18.5		8.2		32.0		93.2		7.2		2.2		3		42				<0.2		1.1	
					Middle	4.9	0.3	112	18.4	18.4	8.2	8.2	32.0	32.0	92.9	92.9	7.2		2.7		3		49				<0.2		1.2	
						4.9	0.3	118	18.4		8.2		32.0		92.8		7.2		2.7		3		49				<0.2		1.3	
					Bottom	8.8	0.3	106	18.4	18.4	8.2	8.2	32.0	32.0	92.7	92.7	7.2	7.2	3.8		3		51				<0.2		1.0	
						8.8	0.3	110	18.4		8.2		32.0		92.7		7.2		3.9		3		51				<0.2		1.1	
IM12	Fine	Rough	15:10	8.1	Surface	1.0	0.2	97	18.4	18.4	8.2	8.2	32.0	32.0	93.5	93.5	7.3	7.3	2.4	2.8	3	4	42	48	821458	812026	<0.2	<0.2	1.2	1.2
						1.0	0.2	102	18.4		8.2		32.0		93.5		7.3		2.4		3		42				<0.2		1.1	
					Middle	4.1	0.3	100	18.4	18.4	8.2	8.2	32.0	32.0	93.3	93.3	7.2		2.7		4		49				<0.2		1.2	
						4.1	0.3	108	18.4		8.2		32.0		93.3		7.2		2.7		4		49				<0.2		1.1	
					Bottom	7.1	0.2	102	18.4	18.4	8.2	8.2	32.0	32.0	93.2	93.2	7.2	7.2	3.2		4		52				<0.2		1.2	
						7.1	0.2	104	18.4		8.2		32.0		93.2		7.2		3.2		4		52				<0.2		1.1	
SR1A	Fine	Moderate	15:35	5.3	Surface	1.0	-	-	18.5	18.5	8.2	8.2	32.0	32.0	93.2	93.2	7.2	7.2	2.0	1.9	4	4	-	-	819979	812659	-	-	-	-
						1.0	-	-	18.5		8.2		32.0		93.2		7.2		1.9		4		-				-		-	
					Middle	2.7	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.7	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.3	-	-	18.5	18.5	8.2	8.2	32.0	32.0	94.0	94.1	7.3	7.3	1.8		4		-				-		-	
						4.3	-	-	18.5		8.2		32.0		94.1		7.3		1.8		3		-				-		-	
SR2	Fine	Moderate	15:49	4.7	Surface	1.0	0.2	46	18.5	18.5	8.2	8.2	32.0	32.0	93.1	93.1	7.2	7.2	2.1	2.1	5	4	43	46	821485	814161	<0.2	<0.2	1.1	1.1
						1.0	0.2	49	18.5		8.2		32.0		93.1		7.2		2.1		3		44				<0.2		1.0	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.7	0.2	51	18.5	18.5	8.2	8.2	32.0	32.0	93.0	93.0	7.2	7.2	2.1		3		49				<0.2		1.1	
						3.7	0.2	55	18.5		8.2		32.0		93.0		7.2		2.1		3		49				<0.2		1.1	
SR3	Fine	Rough	14:38	8.5	Surface	1.0	0.1	58	18.6	18.6	8.2	8.2	31.4	31.4	94.6	94.6	7.3	7.3	1.8	3.8	4	5	-	-	822165	807571	-	-	-	-
						1.0	0.1	59	18.6		8.2		31.4		94.6		7.3		1.9		4		-				-		-	
					Middle	4.3	0.2	65	18.5	18.5	8.2	8.2	31.7	31.7	94.6	94.6	7.3		3.2		5		-				-		-	
						4.3	0.2	70	18.5		8.2		31.7		94.6		7.3		3.2		5		-				-		-	
					Bottom	7.5	0.3	65	18.4	18.4	8.2	8.2	31.9	31.9	94.7	94.7	7.4	7.4	6.2		5		-				-		-	
						7.5	0.3	68	18.4		8.2		31.9		94.7		7.4		6.3		5		-				-		-	
SR4A	Misty	Moderate	15:31	8.8	Surface	1.0	0.2	83	19.0	19.0	8.1	8.1	32.7	32.7	104.1	104.1	8.0	8.0	3.6	4.6	9	9	-	-	817193	807798	-	-	-	-
						1.0	0.2	87	19.0		8.1		32.7		104.1		8.0		3.6		9		-				-		-	
					Middle	4.4	0.2	76	19.0	19.0	8.2	8.2	32.8	32.8	105.1	105.3	8.0		4.2		9		-				-		-	
						4.4	0.2	78	19.0		8.2		32.8		105.4		8.1		4.2		9		-				-		-	
					Bottom	7.8	0.2	60	18.6	18.6	8.2	8.2	33.1	33.1	106.3	106.4	8.2	8.2	5.9		9		-				-		-	
						7.8	0.2	65	18.5		8.2		33.2		106.4		8.2		6.0		8		-				-		-	
SR5A	Misty	Moderate	15:46	3.2	Surface	1.0	0.1	27	19.2	19.2	8.1	8.1	32.8	32.8	105.9	106.0	8.1	8.1	3.1	3.8	7	6	-	-	816594	810678	-	-	-	-
						1.0	0.1	27	19.2		8.1		32.8		106.1		8.1		3.0		8		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.2	0.1	32	19.2	19.2	8.1	8.1	32.7	32.7	106.6	106.6	8.1	8.1	4.5		5		-				-		-	
						2.2	0.1	33	19.2		8.1		32.7		106.5		8.1		4.5		5		-				-		-	
SR6A	Misty	Moderate	16:30	4.0	Surface	1.0	0.0	42	19.2	19.2	8.1	8.1	32.8	32.8	104.6	104.7	8.0	8.0	5.9	6.0	7	8	-	-	817956	814721	-	-	-	-
						1.0	0.0	44	19.2		8.1		32.8		104.7		8.0		6.0		8		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.0	0.0	44	19.2	19.2	8.1	8.1	32.8	32.8	105.0	105.1	8.0	8.0	6.0		8		-				-		-	
						3.0	0.0	46	19.2		8.1		32.8		105.1		8.0		6.1		8		-				-		-	
SR7	Fine	Rough	16:34	15.4	Surface	1.0	0.6	95	18.5	18.5	8.2	8.2	32.4	32.4	88.6	88.6	6.8	6.8	1.5	1.8	3	3	-	-	823627	823727	-	-	-	-
						1.0	0.7	97	18.5		8.2		32.4		88.6		6.8		1.5		3		-				-		-	
					Middle	7.7	0.5	91	18.5	18.5	8.2	8.2	32.5	32.5	87.8	87.8	6.8		1.7		3		-				-		-	
						7.7	0.5	97	18.5		8.2		32.5		87.8		6.8		1.7		3		-				-		-	
					Bottom	14.4	0.3	75	18.5	18.5	8.2	8.2	32.5	32.5	88.2	88.3	6.8	6.8	2.1		3		-				-		-	
						14.4	0.3	80	18.5		8.2		32.5		88.3		6.8		2.1		3		-				-		-	
SR8	Fine	Moderate	15:16	5.1	Surface	1.0	-	-	18.6	18.6	8.2	8.2	32.0	32.0	94.6	94.6	7.3	7.3	2.2	2.4	3	3	-	-	820373	811628	-	-	-	-
						1.0	-	-	18.6		8.2		32.0		94.6		7.3		2.2		3		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.1	-	-	18.5	18.5	8.2	8.2	32.0	32.0	95.0	95.1	7.4	7.4	2.7		4		-				-		-	
						4.1	-	-	18.5		8.2		32.0		95.1		7.4		2.7		3		-				-		-	

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

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 22 January 22 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	Misty	Moderate	10:14	7.2	Surface	1.0	0.5	35	18.9	18.9	8.1	8.1	32.8	32.8	103.1	103.1	7.9	8.0	4.3	5.6	5	6	78	85	815636	804241	<0.2	<0.2	1.0	0.9
						1.0	0.5	37	18.9		8.1		32.8		103.1		7.9		4.3		5		77				<0.2		0.9	
					Middle	3.6	0.5	30	18.8	18.8	8.1	8.1	32.8	32.8	104.7	104.9	8.0		5.8		6		86				<0.2		0.8	
						3.6	0.5	31	18.8		8.1		32.8		105.0		8.0		5.8		6		86				<0.2		0.8	
					Bottom	6.2	0.4	28	18.4	18.4	8.1	8.1	33.1	33.1	106.4	106.5	8.2	8.2	6.8		8		90				<0.2		0.8	
						6.2	0.5	30	18.4		8.1		33.2		106.5		8.2		6.8		7		90				<0.2		0.8	
C2	Cloudy	Rough	11:41	8.9	Surface	1.0	0.2	318	18.7	18.7	8.1	8.1	31.0	31.0	92.4	92.4	7.2	7.2	2.2	3.0	5	5	45	48	825703	806938	<0.2	<0.2	1.0	1.1
						1.0	0.3	321	18.7		8.1		31.0		92.4		7.2		2.2		5		45				<0.2		1.0	
					Middle	4.5	0.2	354	18.6	18.6	8.1	8.1	31.1	31.1	91.4	91.4	7.1		2.3		5		47				<0.2		1.1	
						4.5	0.2	326	18.6		8.1		31.1		91.4		7.1		2.3		5		47				<0.2		1.2	
					Bottom	7.9	0.2	1	18.6	18.6	8.1	8.1	31.1	31.1	91.4	91.5	7.1	7.1	4.3		4		52				<0.2		1.1	
						7.9	0.2	1	18.6		8.1		31.2		91.5		7.1		4.3		3		52				<0.2		1.1	
C3	Cloudy	Moderate	09:39	10.5	Surface	1.0	0.6	245	18.5	18.5	8.2	8.2	32.1	32.1	91.2	91.2	7.1	7.1	3.9	7.1	3	3	43	48	822125	817799	<0.2	<0.2	1.1	1.1
						1.0	0.6	264	18.5		8.2		32.1		91.2		7.1		3.9		3		43				<0.2		1.0	
					Middle	5.3	0.5	243	18.5	18.5	8.2	8.2	32.1	32.1	91.3	91.3	7.1		7.2		3		47				<0.2		1.2	
						5.3	0.6	266	18.5		8.2		32.1		91.3		7.1		7.2		3		48				<0.2		1.1	
					Bottom	9.5	0.3	248	18.5	18.5	8.2	8.2	32.1	32.1	91.7	91.7	7.1	7.1	10.3		3		52				<0.2		1.1	
						9.5	0.3	272	18.5		8.2		32.1		91.7		7.1		10.3		2		52				<0.2		1.1	
IM1	Misty	Moderate	10:31	5.2	Surface	1.0	0.2	12	19.0	19.0	8.1	8.1	32.7	32.7	104.4	104.5	8.0	8.0	5.6	5.9	8	8	73	78	817965	807143	<0.2	<0.2	0.7	0.9
						1.0	0.2	13	19.0		8.1		32.7		104.5		8.0		5.7		8		73				<0.2		0.8	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.2	0.2	13	18.9	18.9	8.1	8.1	32.7	32.7	105.0	105.1	8.0	8.0	6.1		7		83				<0.2		0.9	
						4.2	0.2	13	18.9		8.1		32.7		105.1		8.0		6.1		7		83				<0.2		1.0	
IM2	Misty	Moderate	10:37	6.8	Surface	1.0	0.2	1	18.9	18.9	8.1	8.1	32.7	32.7	103.3	103.4	7.9	7.9	5.4	6.7	11	10	45	74	818160	806175	<0.2	<0.2	0.7	0.7
						1.0	0.2	1	18.9		8.1		32.7		103.4		7.9		5.4		11		45				<0.2		0.7	
					Middle	3.4	0.2	358	18.9	18.9	8.1	8.1	32.7	32.7	103.7	103.8	7.9		6.7		10		87				<0.2		0.6	
						3.4	0.2	329	18.9		8.1		32.7		103.8		8.0		6.8		9		87				<0.2		0.7	
					Bottom	5.8	0.3	5	18.9	18.9	8.1	8.1	32.7	32.7	104.6	104.7	8.0	8.0	8.0		9		89				<0.2		0.7	
						5.8	0.3	5	18.9		8.1		32.7		104.8		8.0		7.9		8		89				<0.2		0.8	
IM3	Misty	Moderate	10:42	7.0	Surface	1.0	0.3	354	18.9	18.9	8.1	8.1	32.6	32.6	103.0	103.1	7.9	7.9	6.0	7.4	14	13	46	74	818797	805608	<0.2	<0.2	0.7	0.9
						1.0	0.3	326	18.9		8.1		32.6		103.1		7.9		6.1		15		46				<0.2		0.8	
					Middle	3.5	0.3	341	18.9	18.9	8.1	8.1	32.6	32.6	103.4	103.5	7.9		7.2		14		87				<0.2		0.8	
						3.5	0.3	314	18.9		8.1		32.6		103.5		7.9		7.3		14		87				<0.2		0.9	
					Bottom	6.0	0.3	333	18.9	18.9	8.1	8.1	32.7	32.7	104.3	104.5	8.0	8.0	8.9		11		90				<0.2		1.0	
						6.0	0.3	344	18.9		8.1		32.7		104.7		8.0		8.7		12		90				<0.2		1.0	
IM4	Misty	Moderate	10:50	8.8	Surface	1.0	0.5	355	18.9	18.9	8.1	8.1	32.6	32.6	100.9	100.9	7.7	7.7	7.2	8.6	11	10	82	85	819716	804600	<0.2	<0.2	0.8	0.8
						1.0	0.5	327	18.9		8.1		32.6		100.9		7.7		7.3		12		83				<0.2		0.8	
					Middle	4.4	0.5	357	18.9	18.9	8.1	8.1	32.6	32.5	101.1	101.2	7.7		8.8		10		86				<0.2		0.8	
						4.4	0.5	328	18.9		8.1		32.5		101.2		7.8		9.0		10		86				<0.2		0.8	
					Bottom	7.8	0.4	351	18.9	18.9	8.1	8.1	32.6	32.6	101.4	101.4	7.8	7.8	9.5		9		86				<0.2		0.8	
						7.8	0.4	323	18.9		8.1		32.6		101.4		7.8		9.6		9		86				<0.2		0.7	
IM5	Misty	Moderate	10:57	7.8	Surface	1.0	0.7	20	19.0	19.0	8.1	8.1	32.6	32.6	100.5	100.5	7.7	7.7	4.2	5.3	8	9	69	82	820758	804875	<0.2	<0.2	0.8	0.8
						1.0	0.7	20	19.0		8.1		32.6		100.5		7.7		4.3		9		69				<0.2		0.7	
					Middle	3.9	0.6	25	19.0	19.0	8.1	8.1	32.6	32.6	100.7	100.8	7.7		5.1		9		87				<0.2		0.9	
						3.9	0.7	27	19.0		8.1		32.6		100.8		7.7		5.1		10		87				<0.2		1.0	
					Bottom	6.8	0.7	26	19.0	19.0	8.1	8.1	32.6	32.6	102.0	102.1	7.8	7.8	6.7		10		91				<0.2		0.8	
						6.8	0.7	28	19.0		8.1		32.6		102.1		7.8		6.7		10		91				<0.2		0.8	
IM6	Misty	Moderate	11:03	7.4	Surface	1.0	0.2	84	19.0	19.0	8.1	8.1	32.8	32.8	102.9	102.9	7.9	7.9	7.9	8.5	7	8	46	75	821039	805830	<0.2	<0.2	0.8	0.8
						1.0	0.2	91	19.0		8.1		32.8		102.9		7.9		7.9		7		45				<0.2		0.7	
					Middle	3.7	0.3	87	19.0	19.0	8.1	8.1	32.8	32.8	103.6	103.7	7.9		8.5		8		87				<0.2		0.9	
						3.7	0.3	90	19.0		8.1		32.8		103.7		7.9		8.6		8		87				<0.2		0.8	
					Bottom	6.4	0.2	77	19.0	19.0	8.1	8.1	32.7	32.7	104.2	104.3	8.0	8.0	9.1		10		91				<0.2		0.9	
						6.4	0.2	81	19.0		8.1		32.7		104.4		8.0		9.1		9		91				<0.2		0.8	
IM7	Misty	Moderate	11:11	8.2	Surface	1.0	0.0	95	19.2	19.2	8.1	8.1	32.1	32.1	99.6	99.6	7.6	7.6	3.2	4.4	11	9	43	74	821346	806835	<0.2	<0.2	0.7	0.8
						1.0	0.0	98	19.2		8.1		32.1		99.6		7.6		3.3		10		43				<0.2		0.9	
					Middle	4.1	0.1	96	19.2	19.2	8.1	8.1	32.2	32.2	99.8	99.9	7.6		4.3		9		88				<0.2		0.9	
						4.1	0.1	96	19.2		8.1		32.2		100.0		7.6		4.3		9		88				<0.2		0.8	
					Bottom	7.2	0.1	103	19.1	19.1	8.1	8.1	32.3	32.3	101.8	102.0	7.8	7.8	5.6		7		90				<0.2		0.7	
						7.2	0.1	111	19.1		8.1		32.3		102.2		7.8		5.6		7		91				<0.2		0.8	
IM8	Cloudy	Rough	11:06	8.1	Surface	1.0	0.1	273	18.5	18.5	8.2	8.2	31.3	31.3	93.3	93.3	7.2	7.2	2.2	2.6	6	8	40	46	821831	808163	<0.2	<0.2	1.1	1.1
						1.0	0.1	290	18.5		8.2		31.3		93.3		7.2		2.2		7		40				<0.2		1.1	
					Middle	4.1	0.1	299	18.4	18.4	8.2	8.2	31.7	31.7	92.3	92.3	7.2		2.8		9		47				<0.2		1.0	
						4.1	0.1	326	18.4		8.2		31.7		92.3		7.2		2.8		9		47				<0.2		1.0	
					Bottom	7.1	0.1	270	18.4	18.4	8.2	8.2	31.8	31.8	92.2	92.2	7.2	7.2	2.9		9		52				<0.2		1.1	
						7.1	0.1	283	18.4		8.2		31.8		92.2		7.2		2.9		9		52				<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 22 January 22 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	Rough	11:02	7.8	Surface	1.0	0.2	266	18.4	18.4	8.2	8.2	31.8	31.8	92.5	92.5	7.2	7.2	3.7	5.0	5	8	44	48	822090	808805	<0.2	<0.2	1.1	1.1
						1.0	0.2	281	18.4		8.2		31.8		92.5		7.2		3.7		5		44				<0.2		1.2	
					Middle	3.9	0.2	288	18.4	18.4	8.2	8.2	31.8	31.8	92.6	92.6	7.2		4.7		9		47				<0.2		1.1	
						3.9	0.2	309	18.4		8.2		31.8		92.6		7.2		4.8		9		47				<0.2		1.2	
					Bottom	6.8	0.2	291	18.4	18.4	8.2	8.2	31.8	31.8	92.9	92.9	7.2	7.2	6.7		10		51				<0.2		1.0	
						6.8	0.2	301	18.4		8.2		31.8		92.9		7.2		6.7		10		52				<0.2		1.1	
IM10	Cloudy	Rough	10:55	9.2	Surface	1.0	0.4	303	18.4	18.4	8.2	8.2	31.9	31.9	92.1	92.1	7.2	7.2	6.0	6.8	7	6	40	46	822373	809811	<0.2	<0.2	1.3	1.2
						1.0	0.4	307	18.4		8.2		31.9		92.1		7.2		6.0		6		40				<0.2		1.3	
					Middle	4.6	0.4	286	18.4	18.4	8.2	8.2	31.9	31.9	91.9	91.9	7.1		7.0		6		47				<0.2		1.1	
						4.6	0.4	299	18.4		8.2		31.9		91.9		7.1		6.9		6		47				<0.2		1.3	
					Bottom	8.2	0.3	288	18.4	18.4	8.2	8.2	31.8	31.8	91.8	91.8	7.1	7.1	7.5		5		52				<0.2		1.1	
						8.2	0.3	309	18.4		8.2		31.8		91.8		7.1		7.5		5		52				<0.2		1.2	
IM11	Cloudy	Rough	10:45	8.5	Surface	1.0	0.4	278	18.4	18.4	8.2	8.2	31.9	31.9	93.0	93.0	7.2	7.2	5.3	6.5	4	6	43	48	822033	811471	<0.2	<0.2	1.1	1.1
						1.0	0.5	293	18.4		8.2		31.9		93.0		7.2		5.2		4		44				<0.2		1.2	
					Middle	4.3	0.4	285	18.4	18.4	8.2	8.2	31.9	31.9	93.0	93.0	7.2		6.8		6		48				<0.2		1.1	
						4.3	0.4	289	18.4		8.2		31.9		93.0		7.2		6.9		6		48				<0.2		1.1	
					Bottom	7.5	0.2	295	18.4	18.4	8.2	8.2	31.9	31.9	93.1	93.2	7.2	7.2	7.3		7		51				<0.2		1.0	
						7.5	0.3	308	18.4		8.2		31.9		93.2		7.2		7.3		7		51				<0.2		1.1	
IM12	Cloudy	Moderate	10:39	9.1	Surface	1.0	0.5	306	18.4	18.4	8.2	8.2	32.0	32.0	92.5	92.5	7.2	7.2	9.5	8.4	7	6	40	44	821473	812030	<0.2	<0.2	1.1	1.2
						1.0	0.5	310	18.4		8.2		32.0		92.5		7.2		9.5		6		40				<0.2		1.2	
					Middle	4.6	0.4	303	18.4	18.4	8.2	8.2	32.0	32.0	92.5	92.5	7.2		9.5		6		44				<0.2		1.3	
						4.6	0.5	323	18.4		8.2		32.0		92.5		7.2		9.5		6		44				<0.2		1.3	
					Bottom	8.1	0.4	303	18.4	18.4	8.2	8.2	32.0	32.0	92.6	92.6	7.2	7.2	6.2		5		48				<0.2		1.2	
						8.1	0.4	322	18.4		8.2		32.0		92.6		7.2		6.3		6		48				<0.2		1.3	
SR1A	Cloudy	Calm	10:11	4.6	Surface	1.0	-	-	18.5	18.5	8.2	8.2	32.0	32.0	91.2	91.2	7.1	7.1	2.1	2.2	4	3	-	-	819980	812654	-	-	-	-
						1.0	-	-	18.5		8.2		32.0		91.1		7.1		2.1		2		-				-		-	
					Middle	2.3	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.3	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.6	-	-	18.5	18.5	8.2	8.2	32.0	32.0	91.3	91.4	7.1	7.1	2.4		3		-				-		-	
						3.6	-	-	18.5		8.2		32.0		91.4		7.1		2.4		2		-				-		-	
SR2	Cloudy	Moderate	09:59	5.1	Surface	1.0	0.2	259	18.3	18.3	8.2	8.2	32.0	32.0	93.4	93.4	7.3	7.3	6.7	9.4	5	4	44	46	821461	814156	<0.2	<0.2	1.2	1.2
						1.0	0.2	276	18.3		8.2		32.0		93.4		7.3		6.7		5		44				<0.2		1.2	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.1	0.1	297	18.3	18.3	8.2	8.2	32.0	32.0	93.7	93.8	7.3	7.3	12.2		3		47				<0.2		1.1	
						4.1	0.1	323	18.3		8.2		32.0		93.8		7.3		12.2		2		47				<0.2		1.1	
SR3	Cloudy	Rough	11:12	9.1	Surface	1.0	0.1	221	18.6	18.6	8.1	8.1	31.1	31.1	92.0	92.0	7.2	7.2	1.7	1.9	5	4	-	-	822162	807569	-	-	-	-
						1.0	0.1	242	18.6		8.1		31.1		92.0		7.2		1.8		4		-				-		-	
					Middle	4.6	0.0	254	18.6	18.6	8.1	8.1	31.1	31.1	91.6	91.6	7.1		1.9		4		-				-		-	
						4.6	0.0	267	18.6		8.1		31.1		91.6		7.1		1.9		4		-				-		-	
					Bottom	8.1	0.1	58	18.6	18.6	8.1	8.1	31.2	31.2	91.3	91.3	7.1	7.1	2.1		3		-				-		-	
						8.1	0.1	59	18.6		8.1		31.2		91.3		7.1		2.1		3		-				-		-	
SR4A	Misty	Moderate	09:53	8.8	Surface	1.0	0.1	258	19.1	19.1	8.1	8.1	32.7	32.7	101.6	101.6	7.8	7.8	3.1	4.5	5	5	-	-	817203	807817	-	-	-	-
						1.0	0.1	271	19.1		8.1		32.7		101.6		7.8		3.1		5		-				-		-	
					Middle	4.4	0.1	259	19.1	19.1	8.1	8.1	32.7	32.7	101.8	101.9	7.8		4.8		5		-				-		-	
						4.4	0.1	263	19.1		8.1		32.7		101.9		7.8		4.7		5		-				-		-	
					Bottom	7.8	0.1	238	19.1	19.1	8.1	8.1	32.7	32.7	102.9	103.0	7.8	7.9	5.6		5		-				-		-	
						7.8	0.1	259	19.1		8.1		32.7		103.1		7.9		5.6		5		-				-		-	
SR5A	Misty	Moderate	09:36	3.2	Surface	1.0	0.1	263	19.1	19.1	8.1	8.1	32.8	32.8	103.1	103.2	7.9	7.9	4.7	5.1	5	6	-	-	816604	810698	-	-	-	-
						1.0	0.1	279	19.1		8.1		32.8		103.3		7.9		4.7		6		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	2.2	0.1	267	19.1	19.1	8.1	8.1	32.8	32.8	104.6	104.8	8.0	8.0	5.6		6		-				-		-	
						2.2	0.1	284	19.1		8.1		32.8		104.9		8.0		5.6		6		-				-		-	
SR6A	Misty	Moderate	09:10	4.2	Surface	1.0	0.1	221	19.1	19.1	8.0	8.0	32.9	32.9	99.2	99.3	7.6	7.6	4.6	4.9	10	9	-	-	817981	814727	-	-	-	-
						1.0	0.1	238	19.1		8.0		32.9		99.3		7.6		4.6		10		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.2	0.2	249	19.1	19.1	8.0	8.0	32.9	32.9	100.2	100.3	7.6	7.7	5.2		9		-				-		-	
						3.2	0.2	268	19.0		8.0		32.9		100.4		7.7		5.1		8		-				-		-	
SR7	Cloudy	Moderate	09:11	14.7	Surface	1.0	0.2	37	18.5	18.5	8.1	8.1	32.3	32.3	89.4	89.4	6.9	6.9	3.6	4.6	3	3	-	-	823638	823758	-	-	-	-
						1.0	0.2	39	18.5		8.1		32.3		89.4		6.9		3.6		3		-				-		-	
					Middle	7.4	0.1	44	18.5	18.5	8.1	8.1	32.3	32.3	89.3	89.3	6.9		4.9		3		-				-		-	
						7.4	0.1	46	18.5		8.1		32.3		89.3		6.9		4.9		3		-				-		-	
					Bottom	13.7	0.2	35	18.5	18.5	8.1	8.1	32.3	32.3	89.4	89.4	6.9	6.9	5.2		3		-				-		-	
						13.7	0.2	36	18.5		8.1		32.3		89.4		6.9		5.3		3		-				-		-	
SR8	Cloudy	Calm	10:32	4.5	Surface	1.0	-	-	18.4	18.4	8.2	8.2	31.9	31.9	93.0	93.0	7.2	7.2	2.9	2.9	3	4	-	-	820380	811618	-	-	-	-
						1.0	-	-	18.4		8.2		31.9		93.0		7.2		2.8		3		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.5	-	-	18.4	18.4	8.2	8.2	31.9	31.9	93.2	93.3	7.2	7.2	2.9		5		-				-		-	
						3.5	-	-	18.4		8.2		31.9		93.3		7.2		2.9		5		-				-		-	

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

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

Water Quality Monitoring

Water Quality Monitoring Results on 25 January 22 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		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	05:25	7.8	Surface	1.0	0.5	203	19.0	19.0	8.1	8.1	32.3	32.3	101.1	101.1	7.7	7.7	5.8	5.9	7	8	46	48	815613	804231	<0.2	<0.2	1.0	1.0
						1.0	0.5	208	19.0		8.1		32.3		101.1		7.7		5.8		8		45				<0.2		0.9	
					Middle	3.9	0.6	217	19.0	19.0	8.1	8.1	32.3	32.3	101.0	101.0	7.7		6.0		8		47				<0.2		1.0	
						3.9	0.6	214	19.0		8.1		32.3		101.0		7.7		6.0		8		48				<0.2		1.0	
					Bottom	6.8	0.5	224	19.0	19.0	8.1	8.1	32.3	32.3	101.0	101.0	7.7	7.7	5.9		8		50				<0.2		1.0	
						6.8	0.6	225	19.0		8.1		32.3		101.0		7.7		6.1		9		51				<0.2		1.0	
C2	Cloudy	Moderate	06:48	11.1	Surface	1.0	0.4	155	19.2	19.2	8.0	8.0	30.0	30.0	99.5	99.5	7.7	7.6	2.6	3.7	3	4	46	48	825677	806962	<0.2	<0.2	1.1	1.0
						1.0	0.4	154	19.2		8.0		30.0		99.5		7.7		2.6		3		46				<0.2		1.1	
					Middle	5.6	0.4	155	19.4	19.4	8.0	8.0	31.0	31.0	97.8	97.8	7.5		2.7		3		48				<0.2		1.1	
						5.6	0.4	149	19.4		8.0		31.0		97.7		7.5		2.7		3		48				<0.2		1.0	
					Bottom	10.1	0.4	182	19.3	19.3	8.0	8.0	31.5	31.5	96.6	96.6	7.4	7.4	5.9		4		51				<0.2		0.8	
						10.1	0.4	188	19.3		8.0		31.5		96.6		7.4		6.0		5		50				<0.2		0.8	
C3	Cloudy	Moderate	05:07	11.2	Surface	1.0	0.4	79	18.5	18.5	8.0	8.0	31.6	31.6	90.0	90.0	7.0	7.0	1.4	2.9	2	3	47	48	822092	817819	<0.2	<0.2	1.3	1.3
						1.0	0.4	78	18.5		8.0		31.6		90.0		7.0		1.4		3		46				<0.2		1.2	
					Middle	5.6	0.3	58	18.6	18.6	8.0	8.0	31.7	31.7	89.3	89.3	6.9		2.0		2		48				<0.2		1.4	
						5.6	0.3	64	18.6		8.0		31.7		89.3		6.9		2.0		3		48				<0.2		1.3	
					Bottom	10.2	0.4	48	18.6	18.6	8.0	8.0	31.8	31.8	89.2	89.3	6.9	6.9	5.1		2		50				<0.2		1.3	
						10.2	0.4	49	18.6		8.0		31.8		89.3		6.9		5.4		3		51				<0.2		1.2	
IM1	Cloudy	Moderate	05:45	6.1	Surface	1.0	0.4	195	19.0	19.0	8.1	8.1	32.0	32.0	100.4	100.4	7.7	7.7	3.8	4.5	6	6	45	47	818345	806451	<0.2	<0.2	1.2	1.1
						1.0	0.4	196	19.0		8.1		32.0		100.4		7.7		3.8		5		45				<0.2		1.1	
					Middle	3.1	0.5	199	19.0	19.0	8.1	8.1	32.0	32.0	100.4	100.4	7.7		3.7		6		46				<0.2		1.0	
						3.1	0.5	206	19.0		8.1		32.0		100.4		7.7		3.8		5		47				<0.2		1.0	
					Bottom	5.1	0.5	207	19.0	19.0	8.1	8.1	32.3	32.3	100.7	100.7	7.7	7.7	6.0		7		49				<0.2		1.1	
						5.1	0.5	214	19.0		8.1		32.3		100.7		7.7		6.0		6		49				<0.2		1.1	
IM2	Cloudy	Moderate	05:53	6.6	Surface	1.0	0.6	220	19.1	19.1	8.1	8.1	32.0	32.0	101.6	101.7	7.8	7.8	3.2	3.7	5	4	44	47	819189	806225	<0.2	<0.2	1.2	1.0
						1.0	0.6	223	19.1		8.1		32.0		101.7		7.8		3.2		4		45				<0.2		1.1	
					Middle	3.3	0.6	194	19.1	19.1	8.2	8.2	32.1	32.1	102.1	102.1	7.8		3.4		4		47				<0.2		1.1	
						3.3	0.6	193	19.1		8.2		32.1		102.1		7.8		3.5		4		47				<0.2		1.0	
					Bottom	5.6	0.6	202	19.1	19.1	8.2	8.2	32.1	32.1	102.0	102.0	7.8	7.8	4.5		3		49				<0.2		0.9	
						5.6	0.6	200	19.1		8.2		32.1		102.0		7.8		4.6		3		50				<0.2		0.9	
IM7	Cloudy	Moderate	06:16	7.7	Surface	1.0	0.5	207	19.3	19.3	8.1	8.1	31.3	31.3	100.0	100.1	7.7	7.7	3.8	5.1	6	6	44	47	821337	806844	<0.2	0.2	1.2	1.1
						1.0	0.5	212	19.3		8.1		31.3		100.1		7.7		3.7		6		44				<0.2		1.1	
					Middle	3.9	0.4	196	19.2	19.2	8.1	8.1	31.3	31.3	100.0	100.1	7.7		4.6		7		47				0.2		1.2	
						3.9	0.5	195	19.2		8.1		31.3		100.1		7.7		4.6		6		47				0.2		1.1	
					Bottom	6.7	0.4	190	19.2	19.2	8.1	8.1	31.3	31.3	100.2	100.2	7.7	7.7	6.8		5		48				<0.2		1.1	
						6.7	0.4	197	19.2		8.1		31.4		100.2		7.7		6.8		6		49				<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: Monitoring at IM3, IM4, IM5, IM6, IM8, IM9, SR5A, SR6A, SR7 were terminated after 25 January 2022.

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 25 January 22 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		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
IM10	Cloudy	Moderate	06:47	6.5	Surface	1.0	0.3	141	18.7	18.7	8.1	8.1	30.5	30.5	93.1	93.1	7.3	7.3	1.8	2.0	3	5	47	49	822252	809840	<0.2	<0.2	1.2	1.2
						1.0	0.3	135	18.6		8.1		30.5		93.1		7.3		1.7		3		46				<0.2		1.2	
					Middle	3.3	0.3	143	18.6	18.6	8.1	8.1	30.5	30.5	93.1	93.1	7.3		1.9		5		48				<0.2		1.2	
						3.3	0.4	136	18.6		8.1		30.5		93.1		7.3		1.9		4		49				<0.2		1.1	
					Bottom	5.5	0.3	160	18.6	18.6	8.1	8.1	30.5	30.5	94.3	94.5	7.4	7.4	2.4		6		52				<0.2		1.3	
						5.5	0.3	167	18.6		8.1		30.5		94.6		7.4		2.3		7		51				<0.2		1.3	
IM11	Cloudy	Moderate	06:39	7.1	Surface	1.0	0.3	121	18.6	18.6	8.1	8.1	30.6	30.6	92.6	92.6	7.2	7.2	1.7	3.1	3	3	46	49	821506	810556	<0.2	<0.2	1.3	1.3
						1.0	0.2	113	18.6		8.1		30.6		92.6		7.2		1.7		4		45				<0.2		1.3	
					Middle	3.6	0.3	121	18.6	18.6	8.1	8.1	30.6	30.6	92.5	92.5	7.2		1.4		3		48				<0.2		1.2	
						3.6	0.3	114	18.6		8.1		30.6		92.5		7.2		1.4		3		49				<0.2		1.3	
					Bottom	6.1	0.3	141	18.6	18.6	8.1	8.1	30.7	30.7	92.5	92.6	7.2	7.2	6.1		3		51				<0.2		1.2	
						6.1	0.3	141	18.6		8.1		30.7		92.6		7.2		6.2		3		52				<0.2		1.3	
IM12	Cloudy	Moderate	06:30	8.0	Surface	1.0	0.3	117	18.6	18.6	8.1	8.1	30.6	30.6	92.8	92.8	7.2	7.2	1.5	2.0	4	4	46	48	821159	811532	<0.2	<0.2	1.2	1.2
						1.0	0.3	109	18.6		8.1		30.6		92.8		7.2		1.6		5		47				<0.2		1.2	
					Middle	4.0	0.4	108	18.6	18.6	8.1	8.1	30.7	30.7	92.7	92.7	7.2		1.8		5		48				<0.2		1.2	
						4.0	0.4	105	18.6		8.1		30.7		92.7		7.2		1.9		4		47				<0.2		1.1	
					Bottom	7.0	0.4	110	18.6	18.6	8.1	8.1	30.7	30.7	92.7	92.7	7.2	7.2	2.5		3		51				<0.2		1.3	
						7.0	0.5	109	18.6		8.1		30.7		92.7		7.2		2.7		3		50				<0.2		1.2	
SR1A	Cloudy	Moderate	05:53	5.1	Surface	1.0	0.0	85	18.6	18.6	8.1	8.1	31.0	31.0	91.7	91.7	7.1	7.1	1.7	3.1	3	4	-	-	819971	812657	-	-	-	-
						1.0	0.0	81	18.6		8.1		31.0		91.7		7.1		1.7		4		-				-		-	
					Middle	2.6	0.0	96	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.6	0.1	99	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.1	0.0	70	18.7	18.7	8.1	8.1	31.2	31.2	92.5	92.6	7.2	7.2	4.4		5		-				-		-	
						4.1	-	68	18.7		8.1		31.2		92.7		7.2		4.7		4		-				-		-	
SR2	Cloudy	Moderate	05:36	4.2	Surface	1.0	0.5	41	18.6	18.6	8.1	8.1	31.0	31.0	92.3	92.4	7.2	7.2	2.8	3.1	2	3	48	47	821451	814186	<0.2	<0.2	1.2	1.2
						1.0	0.5	39	18.6		8.1		31.0		92.4		7.2		2.9		2		47				<0.2		1.2	
					Middle	-	0.6	18	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	0.6	21	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.2	0.6	43	18.6	18.6	8.1	8.1	31.0	31.0	94.0	94.2	7.3	7.3	3.3		3		47				<0.2		1.0	
						3.2	0.6	40	18.6		8.1		31.0		94.4		7.3		3.3		3		47				<0.2		1.2	
SR3	Cloudy	Moderate	06:26	8.4	Surface	1.0	0.5	193	19.5	19.5	8.0	8.0	30.6	30.6	101.3	101.3	7.8	7.8	2.6	4.4	3	3	-	-	822147	807558	-	-	-	-
						1.0	0.5	191	19.5		8.0		30.6		101.2		7.8		2.6		4		-				-		-	
					Middle	4.2	0.4	200	19.4	19.4	8.1	8.1	31.1	31.1	99.9	99.9	7.7		3.3		3		-				-		-	
						4.2	0.5	199	19.4		8.1		31.1		99.9		7.7		3.3		2		-				-		-	
					Bottom	7.4	0.5	177	19.3	19.3	8.1	8.1	31.3	31.3	99.6	99.6	7.6	7.6	7.2		<2		-				-		-	
						7.4	0.5	179	19.3		8.1		31.3		99.6		7.6		7.3		<2		-				-		-	
SR4A	Cloudy	Calm	05:04	9.0	Surface	1.0	0.0	46	19.0	19.0	8.1	8.1	32.1	32.1	101.4	101.4	7.8	7.8	4.1	4.3	7	6	-	-	817203	807799	-	-	-	-
						1.0	0.0	40	19.0		8.1		32.1		101.4		7.8		4.1		6		-				-		-	
					Middle	4.5	0.1	30	19.1	19.1	8.0	8.0	32.0	32.0	101.2	101.2	7.8		4.0		6		-				-		-	
						4.5	0.1	32	19.1		8.0		32.0		101.2		7.8		4.0		5		-				-		-	
					Bottom	8.0	0.0	35	19.0	19.0	8.0	8.0	32.1	32.1	101.3	101.3	7.8	7.8	4.8		5		-				-		-	
						8.0	0.1	36	19.0		8.0		32.1		101.3		7.8		4.8		6		-				-		-	
SR8	Cloudy	Moderate	06:16	4.0	Surface	1.0	-	-	18.9	19.0	8.2	8.2	30.8	30.8	89.0	88.8	6.9	6.9	2.9	6.5	<2	3	-	-	820394	811623	-	-	-	-
						1.0	-	-	19.0		8.2		30.8		88.5		6.8		3.0		<2		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.0	-	-	18.8	18.8	8.4	8.4	30.6	30.5	82.1	80.2	6.4	6.3	10.1		3		-				-		-	
						3.0	-	-	18.8		8.4		30.5		78.2		6.1		10.2		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**
Note: Monitoring at IM3, IM4, IM5, IM6, IM8, IM9, SR5A, SR6A, SR7 were terminated after 25 January 2022.

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

Water Quality Monitoring

Water Quality Monitoring Results on 25 January 22 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		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
C1	Cloudy	Moderate	11:51	8.0	Surface	1.0	0.4	33	18.9	18.9	8.1	8.1	32.1	32.1	102.1	102.1	7.8	7.8	4.5	5.5	5	6	46	49	815598	804240	<0.2	<0.2	0.8	0.9
						1.0	0.4	25	18.9		8.1		32.1		102.1		7.8		4.6		5		46				<0.2		0.9	
					Middle	4.0	0.4	34	18.9	18.9	8.1	8.1	32.1	32.1	102.0	102.0	7.8		4.5		5		48				<0.2		0.7	
						4.0	0.3	32	18.9		8.1		32.1		101.9		7.8		4.6		6		49				<0.2		0.9	
					Bottom	7.0	0.4	59	18.9	18.9	8.1	8.1	32.3	32.2	101.7	101.7	7.8	7.8	7.2		6		51				<0.2		1.1	
						7.0	0.4	61	18.9		8.1		32.2		101.7		7.8		7.4		6		51				<0.2		1.1	
C2	Cloudy	Moderate	10:37	11.6	Surface	1.0	0.4	350	19.3	19.3	8.0	8.0	30.1	30.1	99.0	99.0	7.6	7.6	2.4	3.5	<2	3	46	48	825666	806957	<0.2	<0.2	1.5	1.5
						1.0	0.4	351	19.3		8.0		30.1		98.9		7.6		2.4		<2		45				<0.2		1.4	
					Middle	5.8	0.5	334	19.4	19.4	8.0	8.0	31.2	31.2	97.6	97.6	7.5		2.6		2		49				<0.2		1.4	
						5.8	0.5	334	19.3		8.0		31.2		97.6		7.5		2.6		3		48				<0.2		1.5	
					Bottom	10.6	0.4	0	19.3	19.3	8.1	8.1	31.6	31.6	96.4	96.4	7.4	7.4	5.6		3		51				<0.2		1.5	
						10.6	0.4	6	19.3		8.1		31.6		96.4		7.4		5.6		3		51				<0.2		1.4	
C3	Cloudy	Moderate	12:01	11.6	Surface	1.0	0.4	252	18.6	18.6	8.1	8.1	31.5	31.6	89.1	89.0	6.9	6.9	0.6	1.9	3	4	48	49	822089	817807	<0.2	<0.2	1.1	1.2
						1.0	0.3	252	18.6		8.1		31.6		88.8		6.9		0.7		3		47				<0.2		1.1	
					Middle	5.8	0.3	243	18.6	18.6	8.1	8.1	32.0	32.0	87.6	87.6	6.8		2.0		4		48				<0.2		1.3	
						5.8	0.3	247	18.6		8.1		32.0		87.5		6.8		2.0		5		49				<0.2		1.3	
					Bottom	10.6	0.3	253	18.6	18.6	8.1	8.1	32.0	32.0	88.4	88.4	6.8	6.8	3.0		4		53				<0.2		1.1	
						10.6	0.3	246	18.6		8.1		32.0		88.4		6.8		2.9		5		51				<0.2		1.2	
IM1	Cloudy	Moderate	11:31	6.7	Surface	1.0	0.3	30	19.0	19.0	8.1	8.1	32.0	32.0	101.8	101.8	7.8	7.8	4.8	5.3	4	4	45	48	819196	806247	<0.2	<0.2	0.9	1.0
						1.0	0.3	36	19.0		8.1		32.0		101.8		7.8		4.8		4		46				<0.2		0.9	
					Middle	3.4	0.3	4	19.0	19.0	8.1	8.1	32.0	32.0	101.4	101.4	7.8		5.6		4		47				<0.2		1.1	
						3.4	0.3	-	19.0		8.1		32.0		101.4		7.8		5.6		4		48				<0.2		1.0	
					Bottom	5.7	0.3	356	19.1	19.1	8.1	8.1	32.0	32.0	101.5	101.5	7.8	7.8	5.3		4		49				<0.2		0.9	
						5.7	0.3	356	19.1		8.1		32.0		101.5		7.8		5.3		5		50				<0.2		1.0	
IM2	Cloudy	Moderate	11:24	7.2	Surface	1.0	0.3	16	19.1	19.1	8.1	8.1	31.7	31.7	101.9	101.9	7.8	7.8	3.6	4.7	3	3	45	47	819185	806225	<0.2	<0.2	1.4	1.4
						1.0	0.3	15	19.1		8.1		31.8		101.9		7.8		3.7		2		44				<0.2		1.5	
					Middle	3.6	0.3	34	19.1	19.1	8.1	8.1	32.0	32.0	101.8	101.8	7.8		4.3		3		48				<0.2		1.4	
						3.6	0.3	31	19.1		8.1		32.0		101.8		7.8		4.3		4		47				<0.2		1.4	
					Bottom	6.2	0.4	17	19.1	19.1	8.1	8.1	32.1	32.1	101.3	101.3	7.8	7.8	6.0		4		50				<0.2		1.4	
						6.2	0.4	12	19.1		8.1		32.1		101.3		7.8		6.2		4		50				<0.2		1.4	
IM7	Cloudy	Moderate	11:03	7.9	Surface	1.0	0.2	17	19.5	19.5	8.1	8.1	30.8	30.8	101.5	101.5	7.8	7.8	2.6	3.1	3	3	45	47	821345	806824	<0.2	<0.2	1.9	1.7
						1.0	0.3	13	19.5		8.1		30.8		101.5		7.8		2.6		2		45				<0.2		1.8	
					Middle	4.0	0.3	9	19.3	19.3	8.1	8.1	31.2	31.2	100.8	100.8	7.7		3.2		4		47				<0.2		1.6	
						4.0	0.3	6	19.3		8.1		31.2		100.8		7.7		3.2		3		48				<0.2		1.7	
					Bottom	6.9	0.2	350	19.3	19.3	8.1	8.1	31.3	31.3	100.6	100.6	7.7	7.7	3.4		3		50				<0.2		1.6	
						6.9	0.2	345	19.3		8.1		31.3		100.6		7.7		3.4		4		49				<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**

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

Water Quality Monitoring

Water Quality Monitoring Results on 25 January 22 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		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
IM10	Cloudy	Moderate	10:37	7.4	Surface	1.0	0.4	284	18.8	18.8	8.2	8.2	30.5	30.5	93.5	93.5	7.3	7.3	1.0	1.5	3	2	44	49	822258	809839	<0.2	<0.2	1.3	1.3
						1.0	0.4	283	18.8		8.2		30.5		93.5		7.3		1.0		2		45				<0.2		1.2	
					Middle	3.7	0.4	304	18.6	18.6	8.2	8.2	30.6	30.6	92.6	92.6	7.2		1.7		2		49				<0.2		1.3	
						3.7	0.3	298	18.6		8.2		30.6		92.6		7.2		1.7		2		50				<0.2		1.2	
					Bottom	6.4	0.4	295	18.6	18.6	8.2	8.2	30.6	30.6	92.5	92.5	7.2	7.2	1.8		<2		52				<0.2		1.3	
						6.4	0.3	300	18.6		8.2		30.6		92.5		7.2		1.8		<2		51				<0.2		1.3	
IM11	Cloudy	Moderate	10:43	7.4	Surface	1.0	0.4	291	18.7	18.7	8.2	8.2	30.6	30.6	93.3	93.3	7.3	7.3	1.0	1.6	4	3	45	49	821483	810531	<0.2	<0.2	1.2	1.2
						1.0	0.4	290	18.7		8.2		30.6		93.2		7.3		1.0		3		46				<0.2		1.2	
					Middle	3.7	0.5	299	18.6	18.6	8.2	8.2	30.6	30.6	92.9	92.9	7.2		1.3		2		48				<0.2		1.2	
						3.7	0.5	295	18.6		8.2		30.6		92.9		7.2		1.3		3		49				<0.2		1.1	
					Bottom	6.4	0.4	259	18.6	18.6	8.2	8.2	30.6	30.6	92.8	92.8	7.2	7.2	2.5		3		51				<0.2		1.1	
						6.4	0.5	258	18.6		8.2		30.6		92.7		7.2		2.6		3		52				<0.2		1.1	
IM12	Cloudy	Moderate	10:52	8.0	Surface	1.0	0.4	295	18.6	18.6	8.2	8.2	30.8	30.8	91.6	91.6	7.1	7.1	3.9	7.8	3	3	44	48	821164	811497	<0.2	<0.2	1.3	1.2
						1.0	0.4	301	18.6		8.2		30.8		91.5		7.1		4.0		3		45				<0.2		1.3	
					Middle	4.0	0.5	292	18.6	18.6	8.2	8.2	30.8	30.8	91.5	91.5	7.1		8.2		2		47				<0.2		1.2	
						4.0	0.5	294	18.6		8.2		30.8		91.5		7.1		8.5		3		48				<0.2		1.1	
					Bottom	7.0	0.5	274	18.6	18.6	8.2	8.2	30.8	30.8	91.6	91.6	7.1	7.1	11.1		2		51				<0.2		1.2	
						7.0	0.5	272	18.6		8.2		30.8		91.6		7.1		11.4		2		50				<0.2		1.1	
SR1A	Cloudy	Moderate	11:22	4.3	Surface	1.0	0.1	202	18.7	18.7	8.1	8.1	31.1	31.1	91.9	92.0	7.1	7.1	2.0	2.0	3	3	-	-	819977	812661	-	-	-	-
						1.0	0.0	198	18.7		8.1		31.1		92.0		7.1		2.0		2		-				-		-	
					Middle	2.2	0.0	195	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.2	0.0	189	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.3	-	186	18.8	18.8	8.1	8.1	31.1	31.1	93.3	93.4	7.2	7.2	2.1		3		-				-		-	
						3.3	0.0	181	18.8		8.1		31.1		93.5		7.2		2.0		2		-				-		-	
SR2	Cloudy	Moderate	11:37	4.5	Surface	1.0	0.0	247	18.7	18.7	8.1	8.1	31.0	31.0	92.9	93.0	7.2	7.2	1.8	1.7	2	2	48	50	821457	814174	<0.2	<0.2	1.3	1.2
						1.0	0.1	247	18.7		8.1		31.0		93.0		7.2		1.8		2		48				<0.2		1.3	
					Middle	-	0.1	272	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	0.1	271	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.5	0.0	264	18.7	18.7	8.1	8.1	30.9	30.9	93.4	93.5	7.3	7.3	1.6		2		52				<0.2		1.1	
						3.5	0.0	265	18.7		8.1		30.9		93.6		7.3		1.6		2		52				<0.2		1.1	
SR3	Cloudy	Moderate	10:56	8.5	Surface	1.0	0.4	353	19.5	19.5	8.1	8.1	30.9	30.9	101.3	101.3	7.7	7.7	3.2	4.2	<2	2	-	-	822139	807552	-	-	-	-
						1.0	0.3	348	19.5		8.1		30.9		101.3		7.7		3.2		<2		-				-		-	
					Middle	4.3	0.4	349	19.4	19.4	8.1	8.1	31.1	31.1	100.5	100.5	7.7		4.0		2		-				-		-	
						4.3	0.4	351	19.4		8.1		31.1		100.5		7.7		4.0		2		-				-		-	
					Bottom	7.5	0.4	327	19.4	19.4	8.1	8.1	31.2	31.2	99.9	100.0	7.7	7.7	5.3		3		-				-		-	
						7.5	0.4	329	19.4		8.1		31.2		100.0		7.7		5.5		2		-				-		-	
SR4A	Cloudy	Calm	12:10	9.1	Surface	1.0	0.0	149	19.2	19.2	8.1	8.1	32.0	32.0	100.4	100.4	7.7	7.7	4.0	4.0	6	5	-	-	817180	807791	-	-	-	-
						1.0	0.1	142	19.2		8.1		32.0		100.4		7.7		4.0		7		-				-		-	
					Middle	4.6	0.0	136	19.2	19.2	8.1	8.1	32.0	32.0	100.0	100.0	7.6		4.0		6		-				-		-	
						4.6	0.1	137	19.2		8.1		32.0		100.0		7.6		4.0		5		-				-		-	
					Bottom	8.1	0.0	151	19.2	19.2	8.1	8.1	32.0	32.0	99.9	99.9	7.6	7.6	3.9		3		-				-		-	
						8.1	0.0	143	19.2		8.1		32.0		99.9		7.6		4.0		4		-				-		-	
SR8	Cloudy	Moderate	10:58	4.0	Surface	1.0	-	-	18.8	18.8	8.3	8.3	30.6	30.6	92.2	92.1	7.2	7.2	7.8	7.4	2	2	-	-	820413	811611	-	-	-	-
						1.0	-	-	18.8		8.3		30.6		92.0		7.2		8.7		2		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.0	-	-	18.7	18.7	8.3	8.3	30.5	30.5	90.6	90.5	7.0	7.0	6.4		3		-				-		-	
						3.0	-	-	18.7		8.3		30.5		90.4		7.0		6.5		2		-				-		-	

DA: Depth-Averaged

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

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

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 27 January 22 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		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	07:27	8.3	Surface	1.0	0.3	213	19.0	19.0	8.1	8.1	32.5	32.5	103.3	103.3	7.9	7.9	3.7	5.3	3	3	48	50	815638	804252	<0.2	<0.2	1.5	1.5
						1.0	0.3	208	19.0		8.1		32.5		103.2		7.9		3.8		3		47				<0.2		1.4	
					Middle	4.2	0.3	196	19.0	19.0	8.1	8.1	32.7	32.7	102.6	102.6	7.8		4.9		3		49				<0.2		1.6	
						4.2	0.3	201	19.0		8.1		32.7		102.6		7.8		4.9		2		50				<0.2		1.4	
					Bottom	7.3	0.3	231	19.0	19.0	8.1	8.1	32.8	32.7	103.5	103.7	7.9	7.9	6.9		2		52				<0.2		1.5	
						7.3	0.3	233	19.0		8.1		32.7		103.8		7.9		7.8		2		52				<0.2		1.6	
C2	Cloudy	Moderate	08:50	11.2	Surface	1.0	0.2	169	19.4	19.4	8.0	8.0	31.5	31.6	97.3	97.2	7.4	7.4	2.4	2.6	<2	2	52	78	825686	806922	<0.2	<0.2	1.0	1.0
						1.0	0.3	164	19.4		8.0		31.6		97.1		7.4		2.4		<2		52				<0.2		0.9	
					Middle	5.6	0.2	183	19.4	19.4	8.0	8.0	32.1	32.1	96.1	96.1	7.3		2.4		2		91				<0.2		0.9	
						5.6	0.2	184	19.4		8.0		32.1		96.0		7.3		2.5		2		91				<0.2		1.0	
					Bottom	10.2	0.2	162	19.3	19.3	8.1	8.1	32.3	32.3	96.0	96.1	7.3	7.3	2.8		3		90				<0.2		1.0	
						10.2	0.2	166	19.3		8.1		32.3		96.1		7.3		2.8		3		90				<0.2		1.0	
C3	Misty	Calm	07:53	12.0	Surface	1.0	0.1	15	18.7	18.7	8.0	8.0	31.7	31.7	89.7	89.7	6.9	6.9	1.1	1.2	<2	2	44	72	822087	817820	<0.2	<0.2	1.2	1.2
						1.0	0.0	12	18.7		8.0		31.7		89.7		6.9		1.1		<2		44				<0.2		1.3	
					Middle	6.0	0.1	15	18.7	18.7	8.0	8.0	31.9	31.9	88.1	88.1	6.8		1.1		2		86				<0.2		1.3	
						6.0	0.1	16	18.7		8.0		31.9		88.0		6.8		1.1		2		86				<0.2		1.1	
					Bottom	11.0	0.1	5	18.6	18.7	8.0	8.0	32.0	32.0	89.3	89.5	6.9	6.9	1.3		2		86				<0.2		1.1	
						11.0	0.1	7	18.7		8.0		32.0		89.6		6.9		1.3		3		86				<0.2		1.2	
IM1	Cloudy	Moderate	07:47	6.5	Surface	1.0	0.3	182	19.2	19.2	8.1	8.1	32.2	32.2	103.5	103.5	7.9	7.9	3.8	6.6	3	3	47	49	818335	806444	<0.2	<0.2	0.9	0.9
						1.0	0.3	189	19.2		8.1		32.3		103.4		7.9		3.9		3		46				<0.2		0.8	
					Middle	-	0.3	185	-	-	-	-	-	-	-	-	-		-		3		-				<0.2		1.0	
						-	0.3	182	-		-		-		-		-		-		3		-				<0.2		0.8	
					Bottom	5.5	0.3	197	19.1	19.1	8.1	8.1	32.4	32.4	102.1	102.2	7.8	7.8	9.1		3		50				<0.2		0.9	
						5.5	0.3	192	19.1		8.1		32.4		102.2		7.8		9.6		2		51				<0.2		0.8	
IM2	Cloudy	Moderate	07:53	7.4	Surface	1.0	0.3	202	19.2	19.2	8.1	8.1	32.2	32.2	103.3	103.3	7.9	7.9	3.7	4.6	3	3	46	48	819178	806224	<0.2	<0.2	0.8	0.9
						1.0	0.3	194	19.2		8.1		32.3		103.3		7.9		3.8		4		46				<0.2		0.8	
					Middle	3.7	0.3	205	19.1	19.1	8.1	8.1	32.3	32.3	102.3	102.3	7.8		4.0		3		47				<0.2		0.8	
						3.7	0.4	207	19.1		8.1		32.4		102.3		7.8		4.2		3		49				<0.2		0.9	
					Bottom	6.4	0.4	239	19.1	19.1	8.1	8.1	32.5	32.5	101.7	101.7	7.8	7.8	5.9		3		50				<0.2		1.1	
						6.4	0.4	240	19.1		8.1		32.5		101.7		7.8		6.0		3		50				<0.2		1.0	
IM7	Cloudy	Moderate	08:22	8.0	Surface	1.0	0.3	228	19.5	19.5	8.1	8.1	31.2	31.2	102.2	102.2	7.8	7.8	2.2	3.9	4	3	46	48	821356	806846	<0.2	<0.2	0.9	1.1
						1.0	0.3	227	19.5		8.1		31.2		102.1		7.8		2.2		4		46				<0.2		0.8	
					Middle	4.0	0.3	231	19.3	19.3	8.1	8.1	31.8	31.8	100.2	100.2	7.7		3.3		3		48				<0.2		0.9	
						4.0	0.3	236	19.3		8.1		31.8		100.2		7.7		3.5		3		48				<0.2		1.0	
					Bottom	7.0	0.3	243	19.2	19.2	8.1	8.1	32.1	32.1	100.0	100.0	7.6	7.6	6.1		<2		50				<0.2		1.4	
						7.0	0.3	249	19.2		8.1		32.1		100.0		7.6		6.1		<2		50				<0.2		1.3	

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Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 27 January 22 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		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
IM10	Misty	Calm	09:22	7.4	Surface	1.0	0.1	240	18.8	18.8	8.2	8.2	30.9	30.9	93.9	93.9	7.3	7.3	1.0	2.2	4	4	49	75	822238	809819	<0.2	<0.2	1.3	1.4
						1.0	0.1	243	18.8		8.2		30.9		93.8		7.3		1.0		4		49				<0.2		1.4	
					Middle	3.7	0.1	250	18.7	18.7	8.2	8.2	31.0	31.0	93.7	93.7	7.3		2.2		4		86				<0.2		1.3	
						3.7	0.2	252	18.7		8.2		31.0		93.7		7.3		2.4		4		86				<0.2		1.3	
					Bottom	6.4	0.2	256	18.7	18.7	8.2	8.2	31.0	31.0	95.4	95.5	7.4	7.4	3.2		3		89				<0.2		1.4	
						6.4	0.2	251	18.7		8.2		31.0		95.6		7.4		3.2		3		89				<0.2		1.4	
IM11	Misty	Calm	09:14	7.6	Surface	1.0	0.1	261	18.7	18.7	8.2	8.2	31.0	31.0	94.3	94.3	7.3	7.3	1.0	1.4	3	3	52	76	821504	810554	<0.2	<0.2	1.3	1.1
						1.0	0.1	256	18.7		8.2		31.0		94.3		7.3		1.0		3		52				<0.2		1.2	
					Middle	3.8	0.1	272	18.7	18.7	8.2	8.2	31.0	31.0	94.4	94.4	7.3		1.5		3		87				<0.2		1.1	
						3.8	0.2	273	18.7		8.2		31.0		94.4		7.3		1.6		3		87				<0.2		1.0	
					Bottom	6.6	0.1	236	18.5	18.5	8.1	8.1	31.1	31.2	95.2	96.7	7.4	7.5	1.8		3		90				<0.2		1.1	
						6.6	0.2	230	18.5		8.1		31.2		98.1		7.6		1.8		2		90				<0.2		1.1	
IM12	Misty	Calm	09:06	8.4	Surface	1.0	0.0	282	18.7	18.7	8.2	8.2	31.1	31.1	93.2	93.2	7.2	7.2	1.0	1.3	3	3	45	73	821178	811500	<0.2	<0.2	1.2	1.3
						1.0	0.0	284	18.7		8.2		31.1		93.1		7.2		1.0		3		46				<0.2		1.3	
					Middle	4.2	0.1	262	18.7	18.7	8.2	8.2	31.2	31.2	93.2	93.2	7.2		1.2		3		86				<0.2		1.3	
						4.2	0.1	260	18.7		8.2		31.2		93.2		7.2		1.2		3		86				<0.2		1.3	
					Bottom	7.4	0.1	280	18.7	18.7	8.2	8.2	31.2	31.2	93.7	93.8	7.3	7.3	1.8		2		87				<0.2		1.4	
						7.4	0.1	279	18.7		8.2		31.2		93.8		7.3		1.8		2		87				<0.2		1.3	
SR1A	Misty	Calm	08:31	5.0	Surface	1.0	0.1	178	18.8	18.8	8.1	8.1	31.3	31.3	92.1	92.2	7.1	7.1	1.1	1.4	2	3	-	-	819978	812655	-	-	-	-
						1.0	0.1	170	18.8		8.1		31.4		92.3		7.1		1.0		2		-				-		-	
					Middle	2.5	0.0	176	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.5	0.0	171	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.0	-	158	18.8	18.8	8.1	8.1	31.4	31.4	93.1	93.2	7.2	7.2	1.7		3		-				-		-	
						4.0	0.0	157	18.7		8.1		31.4		93.2		7.2		1.7		3		-				-		-	
SR2	Misty	Calm	08:17	5.0	Surface	1.0	0.1	20	18.7	18.7	8.2	8.2	31.4	31.4	93.7	93.7	7.3	7.3	1.1	1.2	3	3	43	65	821456	814179	<0.2	<0.2	1.4	1.5
						1.0	0.1	13	18.7		8.2		31.4		93.7		7.3		1.1		3		44				<0.2		1.6	
					Middle	-	0.1	37	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	0.2	39	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.0	0.2	30	18.5	18.5	8.2	8.2	31.6	31.6	98.2	98.3	7.6	7.6	1.3		<2		87				<0.2		1.4	
						4.0	0.2	25	18.5		8.2		31.6		98.4		7.6		1.4		<2		87				<0.2		1.6	
SR3	Cloudy	Moderate	08:30	8.4	Surface	1.0	0.3	171	19.5	19.5	8.0	8.0	31.0	31.0	102.3	102.3	7.8	7.8	2.2	2.6	3	2	-	-	822151	807561	-	-	-	-
						1.0	0.2	174	19.5		8.1		31.0		102.3		7.8		2.2		3		-				-		-	
					Middle	4.2	0.3	176	19.4	19.4	8.1	8.1	31.7	31.7	100.4	100.4	7.7		2.6		2		-				-		-	
						4.2	0.4	182	19.4		8.1		31.7		100.3		7.7		2.6		2		-				-		-	
					Bottom	7.4	0.3	201	19.4	19.4	8.1	8.1	31.8	31.8	100.5	100.6	7.7	7.7	2.9		2		-				-		-	
						7.4	0.3	195	19.4		8.1		31.8		100.6		7.7		3.0		2		-				-		-	
SR4A	Cloudy	Moderate	07:08	8.7	Surface	1.0	0.0	315	19.2	19.2	8.0	8.0	32.2	32.2	103.8	103.8	7.9	7.9	3.5	3.6	3	4	-	-	817188	807821	-	-	-	-
						1.0	0.0	314	19.2		8.0		32.2		103.8		7.9		3.5		3		-				-		-	
					Middle	4.4	0.0	287	19.1	19.1	8.0	8.0	32.3	32.3	103.7	103.7	7.9		3.6		4		-				-		-	
						4.4	0.0	289	19.1		8.0		32.3		103.7		7.9		3.6		4		-				-		-	
					Bottom	7.7	0.0	309	19.1	19.1	8.0	8.0	32.2	32.2	103.6	103.6	7.9	7.9	3.6		4		-				-		-	
						7.7	0.0	310	19.1		8.0		32.2		103.6		7.9		3.6		4		-				-		-	
SR8	Misty	Calm	08:50	5.0	Surface	1.0	-	-	18.9	18.9	8.2	8.2	31.3	31.3	94.1	94.1	7.3	7.3	1.5	1.9	7	8	-	-	820410	811624	-	-	-	-
						1.0	-	-	18.8		8.2		31.3		94.1		7.3		1.6		6		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.0	-	-	18.7	18.7	8.2	8.2	31.4	31.4	94.5	94.6	7.3	7.3	2.2		9		-				-		-	
						4.0	-	-	18.7		8.2		31.4		94.6		7.3		2.2		9		-				-		-	

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Water Quality Monitoring
Water Quality Monitoring Results on 27 January 22 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		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	13:22	8.2	Surface	1.0	0.3	42	19.0	19.0	8.1	8.1	32.8	32.8	102.7	102.7	7.8	7.8	5.7	9.5	3	3	47	49	815616	804259	<0.2	<0.2	1.3	1.5
						1.0	0.3	34	19.0		8.1		32.8		102.6		7.8		5.8		3		46				<0.2		1.4	
					Middle	4.1	0.3	49	18.9	18.9	8.1	8.1	33.0	33.0	102.0	102.0	7.8		7.5		3		47				<0.2		1.5	
						4.1	0.3	55	18.9		8.1		33.1		102.0		7.8		7.8		3		49				<0.2		1.6	
					Bottom	7.2	0.4	39	18.9	18.9	8.1	8.1	33.1	33.1	102.9	103.0	7.9	7.9	15.2		3		52				<0.2		1.6	
						7.2	0.4	35	18.9		8.1		33.0		103.0		7.9		15.2		3		51				<0.2		1.7	
C2	Cloudy	Moderate	12:09	11.6	Surface	1.0	0.4	345	19.6	19.6	8.1	8.1	30.9	30.9	104.4	104.4	8.0	7.7	2.1	2.7	4	3	47	74	825689	806939	<0.2	0.2	0.8	0.9
						1.0	0.4	338	19.6		8.1		31.0		104.3		8.0		2.1		3		47				<0.2		0.8	
					Middle	5.8	0.4	358	19.4	19.4	8.1	8.1	32.0	32.0	96.9	96.8	7.4		2.3		3		82				<0.2		0.8	
						5.8	0.4	356	19.4		8.1		32.0		96.7		7.4		2.5		3		83				<0.2		0.8	
					Bottom	10.6	0.4	6	19.4	19.4	8.1	8.1	32.3	32.3	96.0	96.0	7.3	7.3	3.5		2		91				0.2		1.0	
						10.6	0.4	3	19.4		8.1		32.3		96.0		7.3		3.6		2		91				0.2		1.1	
C3	Misty	Calm	13:34	12.0	Surface	1.0	0.2	248	18.7	18.7	8.2	8.2	31.9	31.9	90.0	90.0	7.0	7.0	1.3	2.3	2	3	51	74	822132	817817	<0.2	<0.2	1.4	1.4
						1.0	0.3	244	18.7		8.2		31.9		89.9		6.9		1.2		2		51				<0.2		1.4	
					Middle	6.0	0.3	240	18.7	18.7	8.2	8.2	32.0	32.0	90.2	90.2	7.0		2.6		3		85				<0.2		1.4	
						6.0	0.3	234	18.7		8.2		32.0		90.2		7.0		2.7		2		85				<0.2		1.4	
					Bottom	11.0	0.3	241	19.1	19.2	8.2	8.2	31.7	31.7	91.3	91.5	7.0	7.0	3.1		4		87				<0.2		1.4	
						11.0	0.3	236	19.2		8.2		31.6		91.6		7.0		3.1		4		87				<0.2		1.5	
IM1	Cloudy	Moderate	13:04	6.9	Surface	1.0	0.2	4	19.3	19.3	8.1	8.1	32.3	32.3	107.8	107.8	8.2	8.2	2.9	6.1	5	3	46	68	819195	806219	<0.2	<0.2	1.4	1.3
						1.0	0.3	359	19.3		8.1		32.3		107.8		8.2		2.9		4		47				<0.2		1.3	
					Middle	-	0.3	23	-	-	-	-	-	-	-	-	-		-		3		-				<0.2		1.3	
						-	0.3	20	-		-		-		-		-		-		3		-				<0.2		1.5	
					Bottom	5.9	0.2	39	19.1	19.1	8.1	8.1	32.4	32.4	103.0	103.0	7.9	7.9	9.5		2		89				<0.2		1.2	
						5.9	0.2	45	19.1		8.1		32.4		103.0		7.9		9.2		2		89				<0.2		1.3	
IM2	Cloudy	Moderate	12:58	6.9	Surface	1.0	0.3	11	19.4	19.4	8.1	8.1	32.3	32.3	105.4	105.3	8.0	8.0	2.8	6.0	<2	<2	46	48	819174	806247	<0.2	<0.2	1.0	1.0
						1.0	0.2	12	19.4		8.1		32.3		105.2		8.0		2.9		<2		46				<0.2		1.0	
					Middle	3.5	0.2	18	19.2	19.2	8.1	8.1	32.4	32.4	103.7	103.7	7.9		5.1		<2		47				<0.2		1.0	
						3.5	0.3	23	19.1		8.1		32.4		103.7		7.9		5.1		<2		49				<0.2		1.0	
					Bottom	5.9	0.3	35	19.1	19.1	8.1	8.1	32.4	32.4	103.8	103.9	7.9	7.9	10.1		<2		50				<0.2		0.8	
						5.9	0.3	27	19.1		8.1		32.4		103.9		7.9		10.0		<2		50				<0.2		0.9	
IM7	Cloudy	Moderate	12:38	7.9	Surface	1.0	0.2	354	19.7	19.7	8.1	8.1	30.8	30.8	105.2	105.3	8.0	7.9	1.9	2.2	<2	<2	45	48	821344	806830	<0.2	<0.2	0.8	0.8
						1.0	0.3	351	19.7		8.1		30.8		105.3		8.0		1.9		<2		46				<0.2		0.8	
					Middle	4.0	0.2	5	19.5	19.5	8.1	8.1	31.4	31.4	102.6	102.5	7.8		2.2		<2		47				<0.2		0.8	
						4.0	0.2	2	19.5		8.1		31.4		102.4		7.8		2.2		<2		48				<0.2		0.8	
					Bottom	6.9	0.2	1	19.4	19.4	8.1	8.1	31.7	31.7	102.2	102.3	7.8	7.8	2.6		<2		50				<0.2		0.8	
						6.9	0.2	6	19.4		8.1		31.7		102.3		7.8		2.6		<2		50				<0.2		0.8	

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

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 27 January 22 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 Value	Total Alkalinity 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
IM10	Misty	Calm	12:18	8.4	Surface	1.0	0.4	278	18.9	18.9	8.2	8.2	30.7	30.7	95.3	95.3	7.4	7.4	1.1	1.2	<2	2	52	77	822249	809819	<0.2	<0.2	1.2	1.3
						1.0	0.4	279	18.9		8.2		30.7		95.2		7.4		1.0		<2		52				<0.2		1.3	
					Middle	4.2	0.3	296	18.8	18.8	8.2	8.2	30.8	30.8	94.3	94.3	7.3		1.2		<2		89				<0.2		1.3	
						4.2	0.4	294	18.8		8.2		30.8		94.2		7.3		1.2		<2		89				<0.2		1.4	
					Bottom	7.4	0.3	314	18.8	18.8	8.3	8.3	30.9	30.9	94.4	94.4	7.3	7.3	1.3		2		90				<0.2		1.4	
						7.4	0.3	312	18.8		8.3		30.9		94.4		7.3		1.2		2		90				<0.2		1.4	
IM11	Misty	Calm	12:26	8.2	Surface	1.0	0.4	295	18.8	18.8	8.2	8.2	30.9	30.9	95.1	95.0	7.4	7.4	1.8	2.7	3	2	62	75	821522	810549	<0.2	<0.2	1.3	1.3
						1.0	0.4	290	18.8		8.2		30.9		94.9		7.4		1.8		3		63				<0.2		1.4	
					Middle	4.1	0.3	288	18.8	18.8	8.2	8.2	30.9	30.9	94.5	94.5	7.3		2.5		2		78				<0.2		1.2	
						4.1	0.4	283	18.8		8.2		31.0		94.4		7.3		2.6		2		78				<0.2		1.3	
					Bottom	7.2	0.4	280	18.8	18.9	8.2	8.2	30.9	30.9	95.3	95.5	7.4	7.4	3.9		2		84				<0.2		1.4	
						7.2	0.4	273	18.9		8.2		30.9		95.6		7.4		3.9		2		85				<0.2		1.2	
IM12	Misty	Calm	12:33	8.6	Surface	1.0	0.3	293	18.8	18.8	8.2	8.2	31.1	31.1	94.2	94.2	7.3	7.3	1.1	1.8	<2	2	48	74	821181	811520	<0.2	<0.2	1.4	1.3
						1.0	0.3	296	18.8		8.2		31.1		94.2		7.3		1.2		<2		48				<0.2		1.3	
					Middle	4.3	0.3	264	18.8	18.8	8.2	8.2	31.1	31.1	94.6	94.6	7.3		1.9		2		86				<0.2		1.4	
						4.3	0.3	265	18.8		8.2		31.1		94.6		7.3		1.9		2		86				<0.2		1.5	
					Bottom	7.6	0.4	298	18.8	18.8	8.2	8.2	31.1	31.1	95.2	95.3	7.4	7.4	2.4		3		88				<0.2		1.2	
						7.6	0.4	295	18.8		8.2		31.1		95.3		7.4		2.3		3		88				<0.2		1.2	
SR1A	Misty	Calm	12:51	5.0	Surface	1.0	0.0	206	19.0	19.0	8.2	8.2	30.8	30.8	98.7	98.7	7.6	7.6	1.1	1.7	<2	<2	-	-	819975	812661	-	-	-	-
						1.0	0.1	204	19.0		8.2		30.8		98.6		7.6		1.1		<2		-				-		-	
					Middle	2.5	0.0	189	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.5	0.0	187	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.0	0.0	198	19.1	19.1	8.2	8.2	30.7	30.7	98.6	98.6	7.6	7.6	2.2		<2		-				-		-	
						4.0	0.1	200	19.1		8.2		30.7		98.5		7.6		2.2		<2		-				-		-	
SR2	Misty	Calm	13:10	5.2	Surface	1.0	0.0	269	18.9	18.9	8.2	8.2	31.4	31.4	95.8	95.9	7.4	7.4	5.4	5.7	2	2	74	83	821452	814175	<0.2	<0.2	1.4	1.3
						1.0	0.0	264	18.9		8.2		31.4		95.9		7.4		5.3		2		74				<0.2		1.3	
					Middle	-	0.1	242	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	0.1	243	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.2	0.0	240	19.1	19.1	8.2	8.2	31.3	31.3	97.2	97.4	7.5	7.5	6.0		2		92				<0.2		1.2	
						4.2	0.0	234	19.1		8.2		31.2		97.5		7.5		6.0		3		92				<0.2		1.4	
SR3	Cloudy	Moderate	12:31	8.4	Surface	1.0	0.3	332	19.7	19.7	8.1	8.1	30.9	30.9	108.4	108.4	8.3	8.1	2.0	2.2	2	2	-	-	822137	807585	-	-	-	-
						1.0	0.3	327	19.7		8.1		30.9		108.4		8.3		2.0		2		-				-		-	
					Middle	4.2	0.2	346	19.5	19.5	8.1	8.1	31.5	31.5	101.8	101.8	7.8		2.2		<2		-				-		-	
						4.2	0.2	343	19.5		8.1		31.5		101.8		7.8		2.3		<2		-				-		-	
					Bottom	7.4	0.3	347	19.5	19.5	8.1	8.1	31.6	31.6	101.6	101.7	7.7	7.8	2.5		<2		-				-		-	
						7.4	0.3	345	19.5		8.1		31.6		101.7		7.8		2.5		<2		-				-		-	
SR4A	Cloudy	Moderate	13:41	8.5	Surface	1.0	0.0	135	19.4	19.4	8.1	8.1	32.2	32.2	106.0	105.9	8.1	8.0	3.3	3.3	4	3	-	-	817203	807792	-	-	-	-
						1.0	0.0	137	19.4		8.1		32.2		105.8		8.0		3.3		3		-				-		-	
					Middle	4.3	-	120	19.3	19.3	8.1	8.1	32.2	32.2	103.9	103.9	7.9		3.3		2		-				-		-	
						4.3	0.0	116	19.3		8.1		32.3		103.9		7.9		3.3		<2		-				-		-	
					Bottom	7.5	0.1	125	19.3	19.3	8.1	8.1	32.3	32.3	104.1	104.2	7.9	7.9	3.3		2		-				-		-	
						7.5	0.1	120	19.3		8.1		32.3		104.2		7.9		3.2		2		-				-		-	
SR8	Misty	Calm	12:39	4.8	Surface	1.0	-	-	19.0	19.0	8.2	8.2	30.9	30.9	97.2	97.2	7.5	7.5	1.0	1.2	<2	<2	-	-	820395	811645	-	-	-	-
						1.0	-	-	19.0		8.2		30.9		97.1		7.5		1.0		<2		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.8	-	-	19.1	19.1	8.2	8.2	30.8	30.8	97.3	97.4	7.5	7.5	1.5		<2		-				-		-	
						3.8	-	-	19.1		8.2		30.8		97.5		7.5		1.5		<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 29 January 22 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		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	Misty	Calm	10:50	9.0	Surface	1.0	0.1	9	19.1	19.1	8.1	8.1	32.4	32.4	104.7	104.6	8.0	8.0	4.7	5.4	4	5	46	73	815605	804254	<0.2	<0.2	1.1	1.2
						1.0	0.1	14	19.0		8.1		32.5		104.5		8.0		4.7		5		45				<0.2		1.0	
					Middle	4.5	0.1	27	19.0	19.0	8.1	8.1	32.7	32.7	105.0	105.2	8.0		5.1		6		86				<0.2		1.2	
						4.5	0.1	34	19.0		8.1		32.7		105.3		8.0		5.0		5		86				<0.2		1.1	
					Bottom	8.0	0.1	11	18.8	18.8	8.1	8.1	32.9	32.9	105.8	105.9	8.1	8.1	6.4		5		87				<0.2		1.3	
						8.0	0.1	3	18.7		8.1		32.9		105.9		8.1		6.5		6		87				<0.2		1.2	
C2	Misty	Calm	12:04	12.2	Surface	1.0	0.1	327	19.5	19.5	8.0	8.0	32.1	32.1	100.6	100.6	7.6	7.6	1.5	2.6	6	5	44	71	825686	806929	<0.2	<0.2	1.2	1.1
						1.0	0.1	322	19.5		8.0		32.1		100.5		7.6		1.5		5		44				<0.2		1.2	
					Middle	6.1	0.1	353	19.6	19.7	8.0	8.0	32.1	32.1	100.8	100.9	7.6		2.5		5		78				<0.2		1.2	
						6.1	0.2	357	19.7		8.0		32.1		100.9		7.6		2.6		5		79				<0.2		1.2	
					Bottom	11.2	0.1	321	19.8	19.8	8.0	8.0	32.0	32.0	101.8	102.2	7.7	7.8	3.9		4		91				<0.2		1.0	
						11.2	0.2	325	19.8		8.0		32.0		102.6		7.8		3.9		3		91				<0.2		0.9	
C3	Cloudy	Moderate	09:53	11.4	Surface	1.0	0.1	261	18.6	18.6	8.0	8.0	32.1	32.1	86.3	86.3	6.7	6.7	0.5	2.3	3	4	50	50	822104	817811	<0.2	<0.2	1.4	1.5
						1.0	0.1	262	18.6		8.0		32.1		86.3		6.7		0.5		4		48				<0.2		1.5	
					Middle	5.7	0.1	256	18.6	18.6	8.0	8.0	32.1	32.1	86.1	86.1	6.6		0.6		5		51				<0.2		1.5	
						5.7	0.1	262	18.6		8.0		32.1		86.1		6.6		0.6		4		50				<0.2		1.5	
					Bottom	10.4	0.1	242	18.6	18.6	8.0	8.0	32.2	32.2	85.2	85.3	6.6	6.6	5.6		4		51				<0.2		1.5	
						10.4	0.1	240	18.6		8.0		32.2		85.3		6.6		5.9		5		52				<0.2		1.5	
IM1	Misty	Calm	11:09	6.8	Surface	1.0	0.0	16	19.2	19.2	8.1	8.1	32.3	32.3	104.3	104.3	8.0	8.0	6.4	7.3	3	3	52	77	818344	806473	<0.2	<0.2	0.9	0.9
						1.0	0.0	21	19.2		8.1		32.3		104.2		8.0		6.4		2		53				<0.2		0.9	
					Middle	3.4	0.0	16	19.2	19.2	8.1	8.1	32.4	32.4	103.7	103.7	7.9		7.3		2		87				<0.2		1.0	
						3.4	0.1	12	19.2		8.1		32.4		103.7		7.9		7.4		3		87				<0.2		1.0	
					Bottom	5.8	0.0	14	19.1	19.1	8.1	8.1	32.5	32.5	103.6	103.5	7.9	7.9	8.1		4		90				<0.2		0.9	
						5.8	0.1	18	19.1		8.1		32.5		103.4		7.9		8.1		5		90				<0.2		0.9	
IM2	Misty	Calm	11:16	7.8	Surface	1.0	0.0	262	19.3	19.3	8.1	8.1	32.2	32.2	104.3	104.3	8.0	8.0	2.0	3.5	4	5	49	75	819186	806231	<0.2	<0.2	0.9	1.1
						1.0	0.1	254	19.3		8.1		32.2		104.2		7.9		2.1		3		49				<0.2		1.0	
					Middle	3.9	-	284	19.3	19.3	8.1	8.1	32.2	32.2	104.3	104.4	8.0		3.5		6		87				<0.2		1.1	
						3.9	0.0	283	19.3		8.1		32.2		104.5		8.0		3.5		6		87				<0.2		1.0	
					Bottom	6.8	0.1	271	19.2	19.2	8.1	8.1	32.3	32.3	106.2	106.3	8.1	8.1	5.0		6		88				<0.2		1.2	
						6.8	0.0	264	19.2		8.1		32.3		106.4		8.1		5.0		6		89				<0.2		1.3	
IM7	Misty	Calm	11:37	8.8	Surface	1.0	0.1	278	19.5	19.5	8.1	8.1	31.4	31.4	104.7	104.6	8.0	8.0	2.2	3.5	7	5	53	79	821346	806857	<0.2	<0.2	1.2	1.2
						1.0	0.1	274	19.4		8.1		31.5		104.5		8.0		2.3		6		55				<0.2		1.2	
					Middle	4.4	0.1	278	19.3	19.3	8.1	8.1	32.0	32.0	103.5	103.5	7.9		3.4		5		91				<0.2		1.4	
						4.4	0.1	277	19.3		8.1		32.0		103.5		7.9		3.5		4		91				<0.2		1.2	
					Bottom	7.8	0.1	265	19.3	19.3	8.1	8.1	32.1	32.1	103.8	103.9	7.9	7.9	4.7		5		91				<0.2		1.1	
						7.8	0.1	266	19.3		8.1		32.1		104.0		7.9		4.8		4		91				<0.2		1.2	

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

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 29 January 22 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		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
IM10	Cloudy	Moderate	11:21	7.6	Surface	1.0	0.2	282	18.9	18.9	8.2	8.2	30.5	30.6	95.3	95.3	7.4	7.4	1.4	2.2	3	3	48	49	822221	809835	<0.2	<0.2	1.4	1.5
						1.0	0.2	288	18.8		8.2		30.6		95.2		7.4		1.6		4		47				<0.2		1.4	
					Middle	3.8	0.2	262	18.8	18.8	8.2	8.2	30.9	30.9	95.4	95.4	7.4		2.3		2		48				<0.2		1.5	
						3.8	0.2	255	18.8		8.2		30.9		95.4		7.4		2.3		2		49				<0.2		1.5	
					Bottom	6.6	0.2	264	18.8	18.8	8.2	8.2	30.9	30.9	96.6	96.6	7.5	7.5	2.6		2		50				<0.2		1.6	
						6.6	0.2	257	18.8		8.2		30.9		96.6		7.5		2.6		2		51				<0.2		1.6	
IM11	Cloudy	Moderate	11:11	8.3	Surface	1.0	0.2	273	18.9	18.9	8.2	8.2	30.9	30.9	93.6	93.6	7.3	7.3	0.7	0.7	<2	3	47	49	821500	810542	<0.2	<0.2	1.5	1.5
						1.0	0.2	266	18.9		8.2		30.9		93.6		7.3		0.8		<2		47				<0.2		1.5	
					Middle	4.2	0.3	294	18.8	18.8	8.2	8.2	31.2	31.2	93.9	93.9	7.3		0.5		3		48				<0.2		1.6	
						4.2	0.2	298	18.8		8.2		31.2		93.9		7.3		0.5		2		49				<0.2		1.7	
					Bottom	7.3	0.2	289	18.8	18.8	8.2	8.2	31.3	31.3	94.4	94.5	7.3	7.3	0.9		3		50				<0.2		1.4	
						7.3	0.2	295	18.8		8.2		31.3		94.5		7.3		1.0		3		50				<0.2		1.5	
IM12	Cloudy	Moderate	11:02	9.0	Surface	1.0	0.2	292	18.9	18.9	8.2	8.2	30.8	30.9	94.6	94.6	7.3	7.3	0.7	0.7	3	4	46	48	821150	811526	<0.2	<0.2	1.5	1.6
						1.0	0.2	289	18.8		8.2		30.9		94.5		7.3		0.4		4		46				<0.2		1.5	
					Middle	4.5	0.2	294	18.8	18.8	8.2	8.2	31.4	31.4	93.4	93.4	7.2		0.6		5		48				<0.2		1.7	
						4.5	0.2	292	18.8		8.2		31.4		93.3		7.2		0.6		4		48				<0.2		1.6	
					Bottom	8.0	0.2	296	18.8	18.8	8.2	8.2	31.4	31.4	93.5	93.6	7.2	7.2	1.2		4		48				<0.2		1.5	
						8.0	0.3	294	18.8		8.2		31.4		93.6		7.2		1.2		5		50				<0.2		1.5	
SR1A	Cloudy	Moderate	10:31	5.0	Surface	1.0	0.1	184	18.8	18.8	8.2	8.2	31.4	31.4	93.6	93.6	7.2	7.2	1.1	1.1	4	5	-	-	819972	812659	-	-	-	-
						1.0	0.1	189	18.8		8.2		31.4		93.6		7.2		1.0		5		-				-		-	
					Middle	2.5	0.0	180	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.5	0.1	185	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.0	0.1	190	18.7	18.7	8.1	8.1	31.4	31.4	95.2	95.3	7.4	7.4	1.2		5		-				-		-	
						4.0	0.1	190	18.7		8.1		31.4		95.4		7.4		1.1		5		-				-		-	
SR2	Cloudy	Moderate	10:16	5.1	Surface	1.0	0.0	250	18.8	18.8	8.1	8.1	31.4	31.4	93.6	93.6	7.2	7.2	0.5	0.5	2	3	47	48	821459	814159	<0.2	<0.2	1.5	1.5
						1.0	0.0	244	18.8		8.1		31.4		93.6		7.2		0.6		3		46				<0.2		1.5	
					Middle	-	0.0	244	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	0.0	248	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.1	0.0	238	18.7	18.7	8.1	8.1	31.5	31.5	94.8	95.0	7.3	7.4	0.4		3		49				<0.2		1.4	
						4.1	0.0	232	18.7		8.1		31.5		95.1		7.4		0.4		4		49				<0.2		1.4	
SR3	Misty	Calm	11:45	9.2	Surface	1.0	0.1	322	19.5	19.5	8.1	8.1	31.0	31.1	103.1	103.0	7.9	7.9	3.5	3.5	4	3	-	-	822159	807575	-	-	-	-
						1.0	0.1	327	19.5		8.1		31.1		102.9		7.9		2.9		3		-				-		-	
					Middle	4.6	0.0	305	19.4	19.4	8.1	8.1	31.7	31.7	102.3	102.3	7.8		3.3		2		-				-		-	
						4.6	0.1	305	19.4		8.1		31.7		102.3		7.8		3.3		3		-				-		-	
					Bottom	8.2	0.1	301	19.5	19.6	8.0	8.0	31.7	31.7	103.1	103.2	7.8	7.8	4.4		3		-				-		-	
						8.2	0.1	305	19.6		8.0		31.7		103.2		7.8		4.3		2		-				-		-	
SR4A	Misty	Calm	10:31	9.4	Surface	1.0	0.0	288	19.2	19.2	8.1	8.0	32.3	32.3	104.4	104.4	8.0	8.0	3.6	3.6	6	7	-	-	817205	807822	-	-	-	-
						1.0	0.1	293	19.2		8.0		32.3		104.3		8.0		2.8		7		-				-		-	
					Middle	4.7	0.0	292	19.2	19.2	8.0	8.0	32.3	32.3	104.4	104.4	8.0		3.1		7		-				-		-	
						4.7	0.0	292	19.2		8.0		32.3		104.4		8.0		3.1		7		-				-		-	
					Bottom	8.4	0.0	260	19.2	19.2	8.0	8.0	32.3	32.3	105.6	105.7	8.1	8.1	5.0		7		-				-		-	
						8.4	0.0	254	19.2		8.0		32.3		105.7		8.1		4.9		8		-				-		-	
SR8	Cloudy	Moderate	10:55	4.1	Surface	1.0	-	-	18.8	18.8	8.3	8.3	31.3	31.3	94.5	94.5	7.3	7.3	4.0	4.0	6	5	-	-	820402	811623	-	-	-	-
						1.0	-	-	18.8		8.3		31.3		94.5		7.3		2.0		5		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.1	-	-	18.8	18.8	8.3	8.3	31.3	31.3	95.6	95.7	7.4	7.4	6.1		5		-				-		-	
						3.1	-	-	18.8		8.3		31.3		95.8		7.4		6.5		5		-				-		-	

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

Water Quality Monitoring

Water Quality Monitoring Results on 29 January 22 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		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	Misty	Calm	15:12	8.6	Surface	1.0	0.3	30	19.2	19.2	8.1	8.1	32.3	32.3	108.7	108.6	8.3	8.2	6.2	6.9	6	4	51	75	815642	804240	<0.2	<0.2	1.0	1.0
						1.0	0.3	22	19.1		8.1		32.4		108.5		8.3		6.1		6		52				<0.2		0.9	
					Middle	4.3	0.3	24	19.0	19.1	8.1	8.1	32.7	32.7	104.2	104.3	8.0		7.1		3		85				<0.2		1.1	
						4.3	0.3	24	19.1		8.1		32.7		104.3		8.0		7.0		4		85				<0.2		1.0	
					Bottom	7.6	0.2	57	19.3	19.3	8.1	8.1	32.4	32.4	105.6	105.7	8.0	8.0	7.5		3		87				<0.2		1.0	
						7.6	0.2	59	19.3		8.1		32.3		105.8		8.0		7.6		4		87				<0.2		0.9	
C2	Misty	Calm	14:05	12.2	Surface	1.0	0.3	356	19.6	19.6	8.0	8.0	30.0	30.0	104.8	104.8	8.0	7.8	1.1	1.8	4	4	46	74	825689	806924	<0.2	<0.2	1.0	1.4
						1.0	0.2	3	19.6		8.0		30.0		104.7		8.0		1.1		4		46				<0.2		1.0	
					Middle	6.1	0.3	332	19.5	19.5	8.0	8.0	32.3	32.3	100.0	100.1	7.6		1.6		4		87				<0.2		1.6	
						6.1	0.3	333	19.5		8.0		32.2		100.1		7.6		1.6		5		87				<0.2		1.5	
					Bottom	11.2	0.3	349	19.6	19.6	8.0	8.0	32.1	32.1	101.7	102.0	7.7	7.8	2.8		5		90				<0.2		1.5	
						11.2	0.3	350	19.6		8.0		32.0		102.2		7.8		2.8		4		90				<0.2		1.6	
C3	Cloudy	Moderate	15:23	11.2	Surface	1.0	0.2	279	18.8	18.8	8.2	8.2	31.7	31.7	92.1	92.1	7.1	6.9	0.5	2.6	6	5	48	49	822105	817797	<0.2	<0.2	1.5	1.5
						1.0	0.2	281	18.8		8.2		31.7		92.1		7.1		0.5		7		47				<0.2		1.6	
					Middle	5.6	0.2	265	18.7	18.7	8.1	8.1	32.1	32.1	87.3	87.3	6.7		1.8		5		49				<0.2		1.5	
						5.6	0.2	266	18.7		8.1		32.1		87.3		6.7		1.9		4		48				<0.2		1.5	
					Bottom	10.2	0.2	283	18.6	18.6	8.1	8.1	32.1	32.1	87.9	88.0	6.8	6.8	5.8		4		51				<0.2		1.5	
						10.2	0.2	286	18.6		8.1		32.1		88.0		6.8		5.1		5		52				<0.2		1.5	
IM1	Misty	Calm	14:53	7.8	Surface	1.0	0.2	19	19.4	19.4	8.1	8.1	32.3	32.3	104.9	104.9	8.0	8.0	4.4	5.2	8	6	48	74	819170	806257	<0.2	<0.2	1.6	1.4
						1.0	0.2	26	19.4		8.1		32.3		104.8		8.0		4.5		7		48				<0.2		1.4	
					Middle	3.9	0.2	18	19.2	19.2	8.1	8.1	32.4	32.4	104.0	104.0	7.9		5.1		7		86				<0.2		1.0	
						3.9	0.2	10	19.2		8.1		32.4		103.9		7.9		5.2		7		86				<0.2		0.9	
					Bottom	6.8	0.2	24	19.4	19.4	8.0	8.0	32.3	32.2	103.2	103.2	7.8	7.8	6.1		4		88				<0.2		1.6	
						6.8	0.2	28	19.4		8.0		32.2		103.1		7.8		6.1		5		88				<0.2		1.6	
IM2	Misty	Calm	14:48	7.6	Surface	1.0	0.2	14	19.3	19.3	8.1	8.1	32.2	32.2	105.0	104.9	8.0	8.0	5.4	6.4	5	4	63	75	819165	806243	<0.2	<0.2	1.6	1.6
						1.0	0.2	9	19.3		8.1		32.2		104.8		8.0		5.4		4		62				<0.2		1.7	
					Middle	3.8	0.2	358	19.2	19.2	8.1	8.1	32.3	32.3	104.1	104.2	7.9		6.5		3		78				<0.2		1.6	
						3.8	0.2	356	19.2		8.1		32.3		104.3		8.0		6.7		4		79				<0.2		1.4	
					Bottom	6.6	0.2	23	19.5	19.6	8.1	8.1	32.1	32.1	106.0	106.1	8.0	8.1	7.3		3		85				<0.2		1.5	
						6.6	0.2	26	19.6		8.1		32.1		106.2		8.1		7.2		4		85				<0.2		1.6	
IM7	Misty	Calm	14:30	8.6	Surface	1.0	0.2	2	19.5	19.5	8.1	8.1	31.4	31.4	106.5	106.5	8.1	8.1	1.7	2.3	4	5	52	77	821359	806858	<0.2	<0.2	1.3	1.2
						1.0	0.1	6	19.5		8.1		31.4		106.4		8.1		1.7		5		52				<0.2		1.2	
					Middle	4.3	0.2	22	19.4	19.4	8.1	8.1	31.9	31.9	105.0	105.0	8.0		2.1		4		89				<0.2		1.4	
						4.3	0.2	16	19.4		8.1		31.9		104.9		8.0		2.0		5		89				<0.2		1.4	
					Bottom	7.6	0.1	5	19.7	19.7	8.1	8.0	31.8	31.7	104.2	104.3	7.9	7.9	3.2		5		90				<0.2		0.9	
						7.6	0.1	2	19.7		8.0		31.7		104.4		7.9		3.2		4		90				<0.2		1.0	

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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		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
IM10	Cloudy	Moderate	14:11	7.1	Surface	1.0	0.2	288	18.8	18.8	8.2	8.2	30.7	30.7	96.7	96.7	7.5	7.5	1.0	1.5	3	4	46	48	822246	809854	<0.2	<0.2	1.5	1.5
						1.0	0.2	287	18.8		8.2		30.7		96.6		7.5		1.0		3		46				<0.2		1.5	
					Middle	3.6	0.3	311	18.7	18.7	8.2	8.2	31.1	31.1	96.0	96.1	7.4		1.6		4		48				<0.2		1.4	
						3.6	0.3	309	18.7		8.2		31.1		96.2		7.5		1.6		4		48				<0.2		1.5	
					Bottom	6.1	0.3	294	18.7	18.7	8.2	8.2	31.1	31.1	96.8	96.9	7.5	7.5	1.8		5		50				<0.2		1.5	
						6.1	0.3	294	18.7		8.2		31.1		97.0		7.5		1.8		4		51				<0.2		1.4	
IM11	Cloudy	Moderate	14:17	7.8	Surface	1.0	0.2	274	18.9	18.9	8.2	8.2	30.4	30.4	95.8	95.7	7.4	7.4	0.6	1.0	3	3	47	49	821509	810557	<0.2	<0.2	1.6	1.6
						1.0	0.2	274	18.9		8.2		30.5		95.6		7.4		0.7		2		47				<0.2		1.5	
					Middle	3.9	0.3	288	18.8	18.8	8.2	8.2	30.8	30.8	94.9	94.9	7.4		1.1		4		48				<0.2		1.6	
						3.9	0.3	285	18.8		8.2		30.9		94.9		7.4		1.1		3		48				<0.2		1.5	
					Bottom	6.8	0.3	303	18.8	18.8	8.2	8.2	31.0	31.0	96.4	96.7	7.5	7.5	1.2		3		50				<0.2		1.5	
						6.8	0.3	309	18.8		8.2		31.0		96.9		7.5		1.3		4		51				<0.2		1.6	
IM12	Cloudy	Moderate	14:24	8.7	Surface	1.0	0.3	282	19.0	19.0	8.2	8.2	30.4	30.4	95.8	95.7	7.4	7.4	0.3	1.1	4	4	47	49	821153	811513	<0.2	<0.2	1.6	1.5
						1.0	0.3	276	18.9		8.2		30.5		95.6		7.4		0.3		3		47				<0.2		1.4	
					Middle	4.4	0.3	263	18.8	18.8	8.2	8.2	31.1	31.2	95.2	95.3	7.4		0.9		4		48				<0.2		1.5	
						4.4	0.3	259	18.8		8.2		31.2		95.3		7.4		1.0		5		48				<0.2		1.6	
					Bottom	7.7	0.3	300	18.8	18.8	8.2	8.2	31.3	31.3	96.1	96.2	7.4	7.5	1.8		5		50				<0.2		1.6	
						7.7	0.2	298	18.8		8.2		31.3		96.3		7.5		2.3		4		51				<0.2		1.5	
SR1A	Cloudy	Moderate	14:50	4.9	Surface	1.0	0.0	215	18.9	18.9	8.2	8.2	31.4	31.4	95.9	96.1	7.4	7.4	0.6	0.6	3	3	-	-	819973	812654	-	-	-	-
						1.0	0.0	220	18.9		8.2		31.4		96.2		7.4		0.6		2		-				-		-	
					Middle	2.5	0.0	229	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						2.5	0.0	226	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.9	0.1	200	18.9	18.9	8.1	8.1	31.4	31.4	96.7	96.8	7.5	7.5	0.6		3		-				-		-	
						3.9	0.1	205	18.9		8.1		31.4		96.9		7.5		0.5		2		-				-		-	
SR2	Cloudy	Moderate	15:03	4.3	Surface	1.0	0.0	357	18.9	18.9	8.2	8.2	31.1	31.1	96.2	96.3	7.4	7.5	0.6	0.9	4	5	47	49	821460	814177	<0.2	<0.2	1.5	1.5
						1.0	0.1	358	18.9		8.2		31.1		96.3		7.5		0.7		4		48				<0.2		1.5	
					Middle	-	0.0	27	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	0.0	22	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.3	0.0	4	18.9	18.9	8.2	8.2	31.1	31.1	97.2	97.3	7.5	7.5	1.2		5		51				<0.2		1.5	
						3.3	0.0	2	18.9		8.2		31.1		97.3		7.5		1.2		5		50				<0.2		1.6	
SR3	Misty	Calm	14:23	8.8	Surface	1.0	0.3	342	19.5	19.5	8.1	8.1	31.2	31.3	103.2	103.1	7.9	7.9	1.8	2.7	3	3	-	-	822139	807549	-	-	-	-
						1.0	0.3	336	19.5		8.1		31.3		102.9		7.9		1.8		4		-				-		-	
					Middle	4.4	0.3	340	19.4	19.4	8.1	8.1	31.7	31.7	102.6	102.6	7.8		2.6		3		-				-		-	
						4.4	0.3	338	19.4		8.1		31.7		102.6		7.8		2.7		4		-				-		-	
					Bottom	7.8	0.2	353	19.6	19.7	8.1	8.0	31.6	31.6	102.7	102.7	7.8	7.8	3.7		2		-				-		-	
						7.8	0.2	345	19.7		8.0		31.5		102.7		7.8		3.7		3		-				-		-	
SR4A	Misty	Calm	15:32	9.0	Surface	1.0	0.0	126	19.2	19.2	8.1	8.1	32.3	32.3	107.8	107.8	8.2	8.3	3.1	4.5	5	5	-	-	817177	807789	-	-	-	-
						1.0	0.0	127	19.2		8.1		32.3		107.8		8.2		3.2		4		-				-		-	
					Middle	4.5	0.0	114	19.2	19.2	8.1	8.1	32.4	32.4	108.4	108.5	8.3		4.9		4		-				-		-	
						4.5	-	119	19.2		8.1		32.4		108.6		8.3		4.9		5		-				-		-	
					Bottom	8.0	0.0	145	19.3	19.3	8.1	8.1	32.3	32.3	108.8	108.9	8.3	8.3	5.3		5		-				-		-	
						8.0	0.0	143	19.3		8.1		32.2		108.9		8.3		5.3		4		-				-		-	
SR8	Cloudy	Moderate	14:30	4.2	Surface	1.0	-	-	19.2	19.2	8.2	8.2	31.0	31.0	97.1	97.1	7.5	7.5	0.4	0.5	4	4	-	-	820406	811642	-	-	-	-
						1.0	-	-	19.2		8.2		31.0		97.0		7.5		0.4		4		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.2	-	-	19.0	19.0	8.2	8.2	31.2	31.2	97.3	97.4	7.5	7.5	0.5		3		-				-		-	
						3.2	-	-	19.0		8.2		31.2		97.4		7.5		0.6		3		-				-		-	

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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 31 January 22 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		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	13:47	8.3	Surface	1.0	0.1	206	17.0	17.0	8.1	8.1	31.1	31.1	100.9	100.8	8.1	8.0	8.5	9.2	4	5	47	49	815626	804241	<0.2	<0.2	1.0	1.1
						1.0	0.1	198	16.9		8.1		31.1		100.7		8.1		8.5		5		46				<0.2		1.0	
					Middle	4.2	0.1	217	16.8	16.9	8.1	8.1	31.5	31.5	96.4	96.5	7.8		9.4		4		49				<0.2		1.2	
						4.2	0.1	215	16.9		8.1		31.5		96.5		7.8		9.4		5		48				<0.2		1.0	
					Bottom	7.3	0.1	175	17.1	17.1	8.1	8.1	31.2	31.2	97.8	97.9	7.9	7.9	9.9		6		51				<0.2		1.1	
						7.3	0.1	181	17.1		8.1		31.1		98.0		7.9		9.9		7		51				<0.2		1.1	
C2	Cloudy	Moderate	12:40	11.8	Surface	1.0	0.1	106	17.4	17.4	8.1	8.1	28.8	28.8	97.0	97.0	7.9	7.7	3.4	4.1	5	6	46	49	825669	806956	<0.2	<0.2	1.0	1.1
						1.0	0.1	111	17.4		8.1		28.8		96.9		7.9		3.4		4		46				<0.2		1.2	
					Middle	5.9	0.0	126	17.3	17.3	8.1	8.1	31.1	31.0	92.2	92.3	7.4		3.9		6		48				<0.2		1.1	
						5.9	0.0	123	17.3		8.1		31.0		92.3		7.4		4.0		6		49				<0.2		1.0	
					Bottom	10.8	0.0	137	17.4	17.4	8.1	8.0	30.9	30.8	93.9	94.2	7.5	7.6	5.1		6		51				<0.2		1.2	
						10.8	0.1	130	17.4		8.0		30.8		94.4		7.6		5.1		6		52				<0.2		1.3	
C3	Cloudy	Moderate	14:03	11.6	Surface	1.0	0.3	82	17.0	17.0	8.1	8.1	31.7	31.7	99.4	99.4	7.9	7.7	5.5	7.4	6	6	46	49	822090	817806	<0.2	<0.2	1.6	1.4
						1.0	0.2	78	17.0		8.1		31.7		99.4		7.9		5.5		5		46				<0.2		1.6	
					Middle	5.8	0.3	77	16.9	16.9	8.1	8.1	32.1	32.1	94.6	94.6	7.5		7.2		6		48				<0.2		1.5	
						5.8	0.3	83	16.9		8.1		32.1		94.6		7.5		7.5		6		49				<0.2		1.5	
					Bottom	10.6	0.3	95	16.8	16.8	8.1	8.1	32.1	32.1	95.2	95.2	7.6	7.6	9.2		6		51				<0.2		1.1	
						10.6	0.2	88	16.8		8.1		32.1		95.3		7.6		9.5		6		52				<0.2		1.1	
IM1	Cloudy	Moderate	13:28	7.0	Surface	1.0	0.0	117	17.2	17.2	8.1	8.1	31.0	31.0	97.1	97.1	7.8	7.8	6.8	7.5	5	5	47	48	818345	806436	<0.2	<0.2	1.1	1.1
						1.0	0.1	115	17.2		8.1		31.1		97.0		7.8		6.8		4		46				<0.2		1.0	
					Middle	3.5	0.0	132	17.0	17.0	8.1	8.1	31.2	31.2	96.2	96.2	7.7		7.5		4		48				<0.2		1.0	
						3.5	0.0	131	17.0		8.1		31.2		96.1		7.7		7.5		5		48				<0.2		1.1	
					Bottom	6.0	0.0	112	17.2	17.2	8.0	8.0	31.0	31.0	95.4	95.4	7.7	7.7	8.4		6		50				<0.2		1.1	
						6.0	0.1	104	17.2		8.0		31.0		95.3		7.6		8.4		5		50				<0.2		1.1	
IM2	Cloudy	Moderate	13:23	6.9	Surface	1.0	0.0	83	17.1	17.1	8.1	8.1	31.0	31.0	97.2	97.1	7.8	7.8	7.7	8.7	5	6	47	49	819186	806221	<0.2	<0.2	1.0	1.0
						1.0	0.0	77	17.1		8.1		31.0		97.0		7.8		7.7		6		46				<0.2		0.9	
					Middle	3.5	0.1	73	17.0	17.0	8.1	8.1	31.1	31.1	96.3	96.4	7.8		8.8		5		49				<0.2		1.0	
						3.5	0.0	67	17.0		8.1		31.1		96.5		7.8		9.0		6		49				<0.2		1.1	
					Bottom	5.9	0.1	74	17.3	17.4	8.1	8.1	30.9	30.9	98.2	98.3	7.9	7.9	9.6		6		51				<0.2		0.9	
						5.9	0.1	74	17.4		8.1		30.9		98.4		7.9		9.6		7		52				<0.2		1.0	
IM7	Cloudy	Moderate	13:05	7.9	Surface	1.0	0.3	61	17.3	17.3	8.1	8.1	30.2	30.2	98.7	98.7	7.9	7.9	4.0	4.6	7	7	47	49	821350	806838	<0.2	<0.2	0.9	1.1
						1.0	0.3	57	17.3		8.1		30.2		98.6		7.9		4.0		7		46				<0.2		0.8	
					Middle	4.0	0.3	65	17.2	17.2	8.1	8.1	30.6	30.6	97.2	97.2	7.8		4.4		7		49				<0.2		1.2	
						4.0	0.3	68	17.2		8.1		30.7		97.1		7.8		4.3		7		48				<0.2		1.1	
					Bottom	6.9	0.2	46	17.5	17.5	8.1	8.1	30.5	30.5	96.4	96.5	7.7	7.7	5.5		6		51				<0.2		1.2	
						6.9	0.3	50	17.5		8.1		30.5		96.6		7.7		5.5		6		52				<0.2		1.1	

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Water Quality Monitoring
Water Quality Monitoring Results on 31 January 22 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		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
IM10	Cloudy	Moderate	12:51	7.4	Surface	1.0	0.2	44	17.0	17.0	8.1	8.1	30.7	30.7	98.8	98.7	7.9	7.9	6.4	6.9	7	6	48	50	822241	809845	<0.2	<0.2	1.4	1.1
						1.0	0.1	38	17.0		8.1		30.7		98.7		7.9		6.5		6		47				<0.2		1.3	
					Middle	3.7	0.2	44	16.9	16.9	8.1	8.1	31.1	31.1	98.1	98.2	7.9		7.0		7		50				<0.2		1.0	
						3.7	0.1	42	16.9		8.1		31.1		98.3		7.9		7.1		6		50				<0.2		1.0	
					Bottom	6.4	0.1	25	16.9	16.9	8.2	8.2	31.1	31.1	98.9	99.0	7.9	8.0	7.2		5		54				<0.2		1.0	
						6.4	0.1	20	16.9		8.2		31.1		99.1		8.0		7.2		6		52				<0.2		1.1	
IM11	Cloudy	Moderate	12:57	7.8	Surface	1.0	0.1	62	17.1	17.1	8.1	8.1	30.4	30.4	97.9	97.8	7.9	7.8	6.1	6.4	9	8	47	49	821478	810528	<0.2	<0.2	1.2	1.1
						1.0	0.1	55	17.1		8.1		30.5		97.7		7.8		6.1		8		47				<0.2		1.2	
					Middle	3.9	0.1	93	17.0	17.0	8.1	8.1	30.8	30.8	97.0	97.0	7.8		6.5		8		49				<0.2		1.1	
						3.9	0.1	97	17.0		8.1		30.9		97.0		7.8		6.5		7		48				<0.2		1.2	
					Bottom	6.8	0.2	86	17.0	17.0	8.1	8.1	31.0	31.0	98.5	98.7	7.9	7.9	6.6		8		51				<0.2		1.0	
						6.8	0.2	80	17.0		8.1		31.0		99.0		7.9		6.7		7		51				<0.2		1.1	
IM12	Cloudy	Moderate	13:04	8.9	Surface	1.0	0.1	72	17.2	17.2	8.1	8.1	30.4	30.4	97.9	97.8	7.9	7.8	5.7	6.5	5	6	47	50	821144	811513	<0.2	<0.2	1.0	1.4
						1.0	0.1	68	17.1		8.1		30.5		97.7		7.8		5.7		6		47				<0.2		1.0	
					Middle	4.5	0.2	89	17.0	17.0	8.1	8.1	31.1	31.2	97.3	97.3	7.8		6.3		7		49				<0.2		1.9	
						4.5	0.2	83	17.0		8.1		31.2		97.4		7.8		6.4		6		50				<0.2		1.8	
					Bottom	7.9	0.1	110	17.0	17.0	8.1	8.1	31.3	31.3	98.2	98.3	7.9	7.9	7.3		6		52				<0.2		1.2	
						7.9	0.2	113	17.0		8.1		31.3		98.4		7.9		7.7		7		52				<0.2		1.3	
SR1A	Cloudy	Moderate	13:30	5.1	Surface	1.0	-	2	17.1	17.1	8.1	8.1	31.4	31.4	98.0	98.1	7.8	7.9	6.0	6.0	7	7	-	-	819981	812657	-	-	-	-
						1.0	0.0	7	17.1		8.1		31.4		98.3		7.9		6.0		8		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.1	0.0	22	17.1	17.1	8.1	8.1	31.4	31.4	98.8	98.9	7.9	7.9	6.0		7		-				-		-	
						4.1	0.1	28	17.1		8.1		31.4		99.0		7.9		5.9		7		-				-		-	
SR2	Cloudy	Moderate	13:43	4.2	Surface	1.0	0.1	69	17.1	17.1	8.1	8.1	31.1	31.1	98.3	98.3	7.9	7.9	6.1	6.4	7	5	48	49	821459	814176	<0.2	<0.2	1.1	1.1
						1.0	0.2	65	17.1		8.1		31.1		98.4		7.9		6.1		6		47				<0.2		1.0	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.2	0.1	73	17.1	17.1	8.1	8.1	31.1	31.1	99.3	99.3	7.9	8.0	6.6		4		50				<0.2		1.1	
						3.2	0.1	66	17.1		8.1		31.1		99.4		8.0		6.6		4		51				<0.2		1.1	
SR3	Cloudy	Moderate	12:58	8.4	Surface	1.0	0.1	60	17.3	17.3	8.1	8.1	30.0	30.0	95.4	95.3	7.7	7.7	4.1	5.0	4	5	-	-	822148	807554	-	-	-	-
						1.0	0.1	64	17.3		8.1		30.1		95.1		7.7		4.1		5		-				-		-	
					Middle	4.2	0.1	50	17.2	17.2	8.1	8.1	30.5	30.5	94.8	94.8	7.6		5.0		5		-				-		-	
						4.2	0.2	56	17.2		8.1		30.5		94.8		7.6		5.0		6		-				-		-	
					Bottom	7.4	0.2	76	17.4	17.5	8.1	8.1	30.4	30.4	94.9	94.9	7.6	7.6	6.0		6		-				-		-	
						7.4	0.1	75	17.5		8.1		30.3		94.9		7.6		6.0		5		-				-		-	
SR4A	Cloudy	Moderate	14:07	8.8	Surface	1.0	0.0	74	17.0	17.0	8.2	8.2	31.0	31.0	100.0	100.0	8.1	8.1	5.4	6.8	5	5	-	-	817178	807825	-	-	-	-
						1.0	0.0	80	17.0		8.2		31.0		100.0		8.1		5.5		4		-				-		-	
					Middle	4.4	-	73	17.0	17.0	8.1	8.1	31.1	31.1	100.6	100.7	8.1		7.2		5		-				-		-	
						4.4	0.0	77	17.0		8.1		31.1		100.8		8.1		7.3		6		-				-		-	
					Bottom	7.8	0.0	72	17.1	17.1	8.1	8.1	31.1	31.1	101.0	101.1	8.1	8.1	7.7		5		-				-		-	
						7.8	0.1	78	17.1		8.1		31.0		101.1		8.1		7.6		6		-				-		-	
SR8	Cloudy	Moderate	13:10	4.2	Surface	1.0	-	-	17.4	17.4	8.1	8.1	31.0	31.0	99.2	99.1	7.9	7.9	5.8	5.9	6	6	-	-	820369	811602	-	-	-	-
						1.0	-	-	17.4		8.1		31.0		99.1		7.9		5.8		7		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.2	-	-	17.2	17.2	8.1	8.1	31.2	31.2	99.4	99.4	7.9	7.9	6.0		4		-				-		-	
						3.2	-	-	17.2		8.1		31.2		99.5		7.9		6.0		5		-				-		-	

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Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 31 January 22 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		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	07:50	8.4	Surface	1.0	0.2	42	16.9	16.9	8.1	8.1	31.2	31.2	91.7	91.6	7.4	7.4	7.0	7.7	6	6	46	49	815641	804264	<0.2	<0.2	1.0	1.0
						1.0	0.3	36	16.8		8.1		31.2		91.5		7.4		7.0		7		47				<0.2		1.2	
					Middle	4.2	0.3	32	16.8	16.8	8.1	8.1	31.5	31.5	92.0	92.2	7.4		7.4		6		48				<0.2		0.7	
						4.2	0.3	26	16.8		8.1		31.5		92.3		7.5		7.3		7		48				<0.2		0.7	
					Bottom	7.4	0.2	32	16.6	16.6	8.1	8.1	31.7	31.7	92.8	92.9	7.5	7.5	8.8		4		52				<0.2		1.1	
						7.4	0.2	33	16.5		8.1		31.7		92.9		7.5		8.8		5		52				<0.2		1.2	
C2	Cloudy	Moderate	09:04	11.6	Surface	1.0	0.3	354	17.3	17.3	8.0	8.0	30.9	30.9	87.6	87.6	7.0	7.0	3.9	5.0	4	5	45	48	825666	806966	<0.2	<0.2	0.8	0.9
						1.0	0.3	349	17.3		8.0		30.9		87.5		7.0		3.8		5		46				<0.2		0.9	
					Middle	5.8	0.3	356	17.4	17.5	8.0	8.0	30.9	30.9	87.8	87.9	7.0		4.9		5		49				<0.2		0.9	
						5.8	0.3	353	17.5		8.0		30.9		87.9		7.0		4.9		6		48				<0.2		1.0	
					Bottom	10.6	0.3	2	17.6	17.6	8.0	8.0	30.8	30.8	88.8	89.2	7.1	7.2	6.2		6		51				<0.2		0.9	
						10.6	0.3	354	17.6		8.0		30.8		89.6		7.2		6.2		5		51				<0.2		0.9	
C3	Cloudy	Moderate	07:23	11.6	Surface	1.0	0.4	268	17.2	17.2	8.1	8.1	32.1	32.1	89.5	89.5	7.1	7.1	5.9	6.4	6	6	48	50	822116	817825	<0.2	<0.2	1.1	1.0
						1.0	0.5	261	17.2		8.1		32.1		89.5		7.1		5.9		7		49				<0.2		1.1	
					Middle	5.8	0.5	266	17.2	17.2	8.1	8.1	32.1	32.1	89.3	89.3	7.1		6.0		5		50				<0.2		1.0	
						5.8	0.5	265	17.2		8.1		32.1		89.3		7.1		6.0		6		51				<0.2		1.0	
					Bottom	10.6	0.4	255	17.2	17.2	8.0	8.0	32.2	32.2	88.4	88.5	7.0	7.0	7.3		5		52				<0.2		0.8	
						10.6	0.4	259	17.2		8.0		32.2		88.5		7.0		7.3		6		52				<0.2		0.9	
IM1	Cloudy	Moderate	08:09	6.2	Surface	1.0	0.2	26	17.0	17.0	8.1	8.1	31.1	31.1	91.3	91.3	7.4	7.4	8.7	9.0	5	5	46	49	818345	806452	<0.2	<0.2	1.0	0.9
						1.0	0.2	19	17.0		8.1		31.1		91.2		7.4		8.7		4		46				<0.2		1.0	
					Middle	3.1	0.2	11	17.0	17.0	8.1	8.1	31.2	31.2	90.7	90.7	7.3		9.7		5		48				<0.2		0.9	
						3.1	0.1	9	17.0		8.1		31.2		90.7		7.3		9.7		4		48				<0.2		0.8	
					Bottom	5.2	0.2	35	16.9	16.9	8.1	8.1	31.3	31.3	90.6	90.5	7.3	7.3	8.5		5		51				<0.2		0.8	
						5.2	0.3	32	16.9		8.1		31.3		90.4		7.3		8.5		5		52				<0.2		0.9	
IM2	Cloudy	Moderate	08:16	7.3	Surface	1.0	0.2	353	17.1	17.1	8.1	8.1	30.9	30.9	91.3	91.3	7.4	7.4	4.4	5.8	4	5	47	49	819180	806256	<0.2	<0.2	0.8	0.8
						1.0	0.2	359	17.1		8.1		30.9		91.2		7.3		4.4		4		46				<0.2		0.7	
					Middle	3.7	0.2	15	17.1	17.1	8.1	8.1	31.0	31.0	91.3	91.4	7.4		5.8		6		49				<0.2		1.0	
						3.7	0.2	17	17.1		8.1		31.0		91.5		7.4		5.8		5		48				<0.2		0.9	
					Bottom	6.3	0.2	357	17.0	17.0	8.1	8.1	31.0	31.1	93.2	93.3	7.5	7.5	7.3		6		51				<0.2		0.8	
						6.3	0.1	350	17.0		8.1		31.1		93.4		7.5		7.3		7		51				<0.2		0.7	
IM7	Cloudy	Moderate	08:37	8.0	Surface	1.0	0.2	332	17.3	17.3	8.1	8.1	30.2	30.2	91.7	91.6	7.4	7.4	4.5	5.8	4	6	46	48	821342	806827	<0.2	<0.2	0.8	1.1
						1.0	0.2	325	17.2		8.1		30.3		91.5		7.4		4.6		5		46				<0.2		0.8	
					Middle	4.0	0.2	345	17.1	17.1	8.1	8.1	30.8	30.8	90.5	90.5	7.3		5.8		5		48				<0.2		1.3	
						4.0	0.2	342	17.1		8.1		30.8		90.5		7.3		5.8		6		48				<0.2		1.2	
					Bottom	7.0	0.2	328	17.1	17.1	8.1	8.1	30.9	30.8	90.8	90.9	7.3	7.3	7.0		7		51				<0.2		1.2	
						7.0	0.1	325	17.1		8.1		30.8		91.0		7.3		7.1		6		50				<0.2		1.2	

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Water Quality Monitoring
Water Quality Monitoring Results on 31 January 22 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		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
IM10	Cloudy	Moderate	08:41	7.4	Surface	1.0	0.3	281	17.5	17.5	8.1	8.1	30.5	30.6	98.5	98.5	7.9	7.9	6.9	7.6	5	5	46	49	822234	809859	<0.2	<0.2	1.1	1.3
						1.0	0.3	287	17.4		8.1		30.6		98.4		7.9		7.0		6		46				<0.2		1.0	
					Middle	3.7	0.4	285	17.4	17.4	8.1	8.1	30.9	30.9	98.6	98.6	7.9		7.7		6		48				<0.2		1.5	
						3.7	0.4	284	17.4		8.1		30.9		98.6		7.9		7.7		5		49				<0.2		1.4	
					Bottom	6.4	0.4	305	17.4	17.4	8.1	8.1	30.9	30.9	99.8	99.8	8.0	8.0	8.1		4		51				<0.2		1.4	
						6.4	0.4	311	17.4		8.1		30.9		99.8		8.0		8.1		5		52				<0.2		1.4	
IM11	Cloudy	Moderate	08:31	8.1	Surface	1.0	0.5	271	17.5	17.5	8.1	8.1	30.9	30.9	96.8	96.8	7.7	7.7	6.2	6.2	4	6	46	48	821524	810556	<0.2	<0.2	1.8	1.7
						1.0	0.4	278	17.5		8.1		30.9		96.8		7.7		6.2		5		47				<0.2		1.7	
					Middle	4.1	0.4	268	17.4	17.4	8.1	8.1	31.2	31.2	97.1	97.1	7.7		5.9		6		48				<0.2		1.5	
						4.1	0.4	269	17.4		8.1		31.2		97.1		7.7		5.9		6		48				<0.2		1.7	
					Bottom	7.1	0.5	289	17.4	17.4	8.1	8.1	31.3	31.3	97.6	97.7	7.8	7.8	6.3		6		50				<0.2		1.8	
						7.1	0.5	294	17.4		8.1		31.3		97.7		7.8		6.4		6		51				<0.2		1.9	
IM12	Cloudy	Moderate	08:22	9.1	Surface	1.0	0.5	290	17.5	17.5	8.1	8.1	30.8	30.9	97.8	97.8	7.8	7.8	5.8	6.2	6	6	47	50	821157	811501	<0.2	<0.2	1.8	1.5
						1.0	0.5	294	17.4		8.1		30.9		97.7		7.8		5.8		5		47				<0.2		2.0	
					Middle	4.6	0.5	303	17.4	17.4	8.1	8.1	31.4	31.4	96.6	96.6	7.7		6.0		5		49				<0.2		1.5	
						4.6	0.5	309	17.4		8.1		31.4		96.5		7.7		6.0		6		50				<0.2		1.6	
					Bottom	8.1	0.4	267	17.4	17.4	8.1	8.1	31.4	31.4	96.7	96.8	7.7	7.7	6.6		7		53				<0.2		1.2	
						8.1	0.4	264	17.4		8.1		31.4		96.8		7.7		6.7		7		52				<0.2		1.0	
SR1A	Cloudy	Moderate	08:01	5.3	Surface	1.0	0.0	200	17.4	17.4	8.1	8.1	31.4	31.4	96.8	96.8	7.7	7.7	6.4	6.5	3	5	-	-	819977	812664	-	-	-	-
						1.0	-	192	17.4		8.1		31.4		96.8		7.7		6.4		4		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	4.3	0.0	185	17.3	17.3	8.1	8.1	31.4	31.4	98.4	98.5	7.8	7.9	6.6		6		-				-		-	
						4.3	0.0	177	17.3		8.1		31.4		98.6		7.9		6.5		6		-				-		-	
SR2	Cloudy	Moderate	07:46	4.2	Surface	1.0	0.0	251	17.4	17.4	8.1	8.1	31.4	31.4	96.8	96.8	7.7	7.7	6.0	5.9	5	6	48	50	821444	814188	<0.2	<0.2	1.2	1.2
						1.0	0.0	254	17.4		8.1		31.4		96.8		7.7		6.0		5		49				<0.2		1.1	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.2	0.1	259	17.3	17.3	8.1	8.1	31.5	31.5	98.0	98.2	7.8	7.8	5.8		7		51				<0.2		1.2	
						3.2	0.1	251	17.3		8.1		31.5		98.3		7.8		5.8		7		51				<0.2		1.2	
SR3	Cloudy	Moderate	08:45	8.6	Surface	1.0	0.2	346	17.3	17.3	8.1	8.1	29.8	29.8	90.1	90.0	7.3	7.3	5.2	5.8	4	4	-	-	822170	807585	-	-	-	-
						1.0	0.2	342	17.3		8.1		29.9		89.9		7.3		5.2		5		-				-		-	
					Middle	4.3	0.3	332	17.2	17.2	8.1	8.1	30.4	30.4	89.3	89.3	7.2		5.7		5		-				-		-	
						4.3	0.2	325	17.2		8.1		30.5		89.3		7.2		5.6		4		-				-		-	
					Bottom	7.6	0.2	311	17.3	17.4	8.1	8.1	30.5	30.5	90.1	90.2	7.2	7.2	6.7		3		-				-		-	
						7.6	0.2	317	17.4		8.1		30.5		90.2		7.2		6.7		4		-				-		-	
SR4A	Cloudy	Moderate	07:31	8.9	Surface	1.0	0.0	212	17.0	17.0	8.1	8.1	31.1	31.1	91.4	91.4	7.4	7.4	5.0	5.9	6	7	-	-	817209	807830	-	-	-	-
						1.0	0.1	208	17.0		8.1		31.1		91.3		7.4		5.1		7		-				-		-	
					Middle	4.5	0.1	180	17.0	17.0	8.1	8.1	31.1	31.1	91.4	91.4	7.4		5.4		7		-				-		-	
						4.5	0.0	179	17.0		8.1		31.1		91.4		7.4		5.4		6		-				-		-	
					Bottom	7.9	0.0	179	17.0	17.0	8.0	8.0	31.1	31.1	92.6	92.7	7.5	7.5	7.3		8		-				-		-	
						7.9	0.0	172	17.0		8.0		31.1		92.7		7.5		7.2		7		-				-		-	
SR8	Cloudy	Moderate	08:15	4.2	Surface	1.0	-	-	17.4	17.4	8.2	8.2	31.3	31.3	97.7	97.7	7.8	7.8	6.7	7.9	6	6	-	-	820409	811625	-	-	-	-
						1.0	-	-	17.4		8.2		31.3		97.7		7.8		7.4		6		-				-		-	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-		-				-		-	
						-	-	-	-		-		-		-		-		-		-		-				-		-	
					Bottom	3.2	-	-	17.4	17.4	8.3	8.3	31.3	31.3	98.8	98.9	7.9	7.9	8.5		6		-				-		-	
						3.2	-	-	17.4		8.3		31.3		99.0		7.9		8.9		6		-				-		-	

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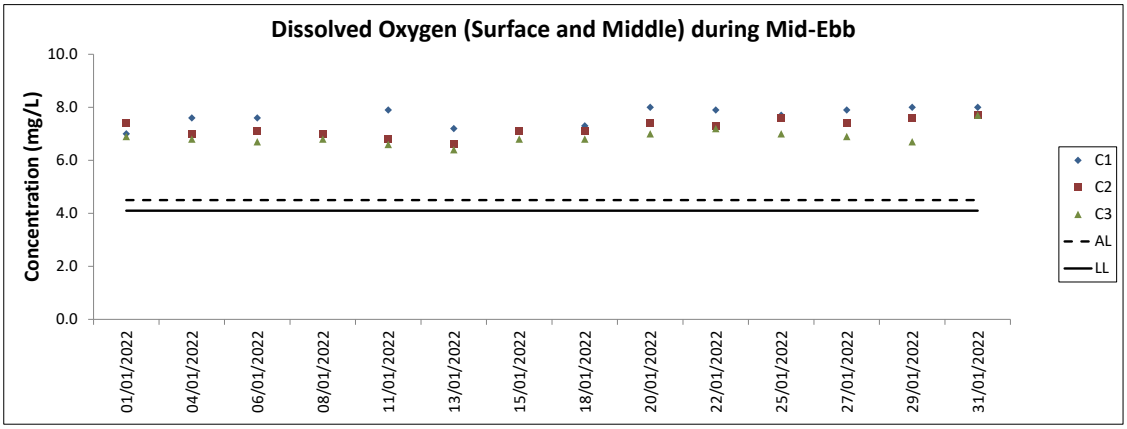
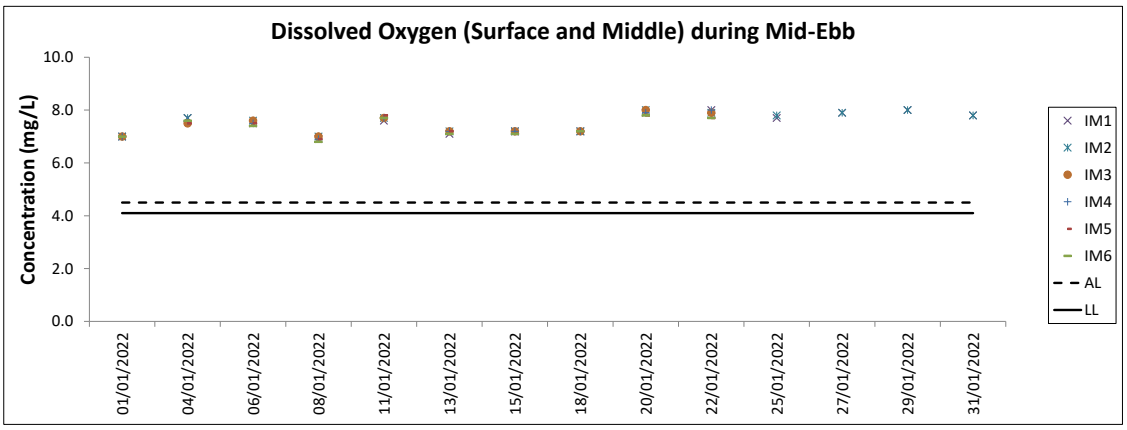
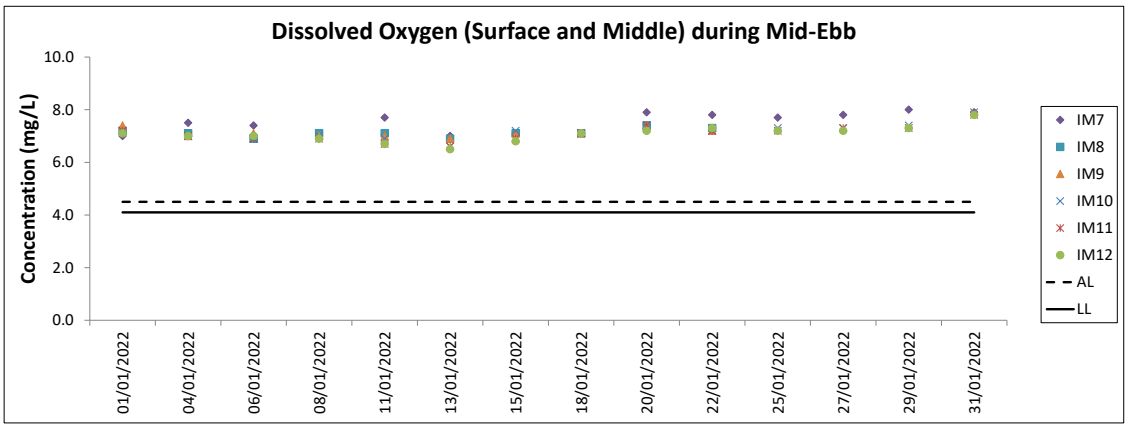
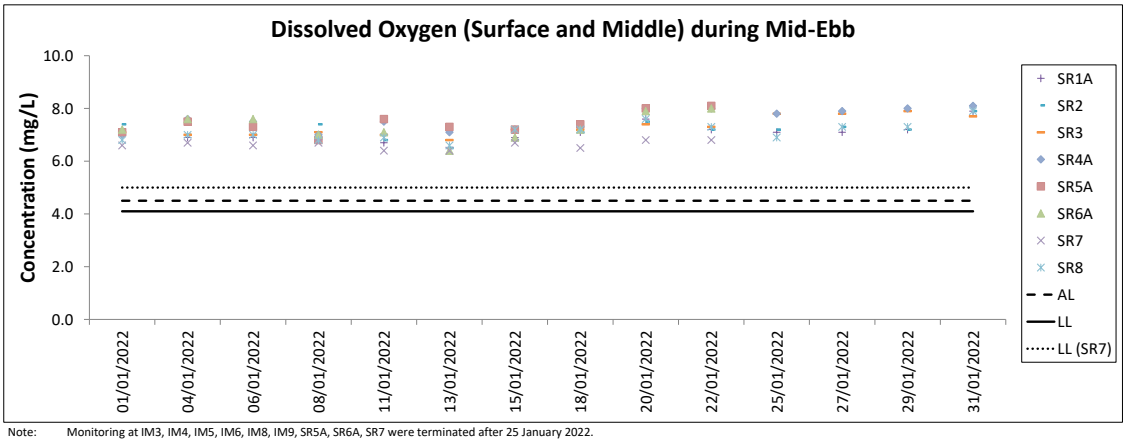
Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher
Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

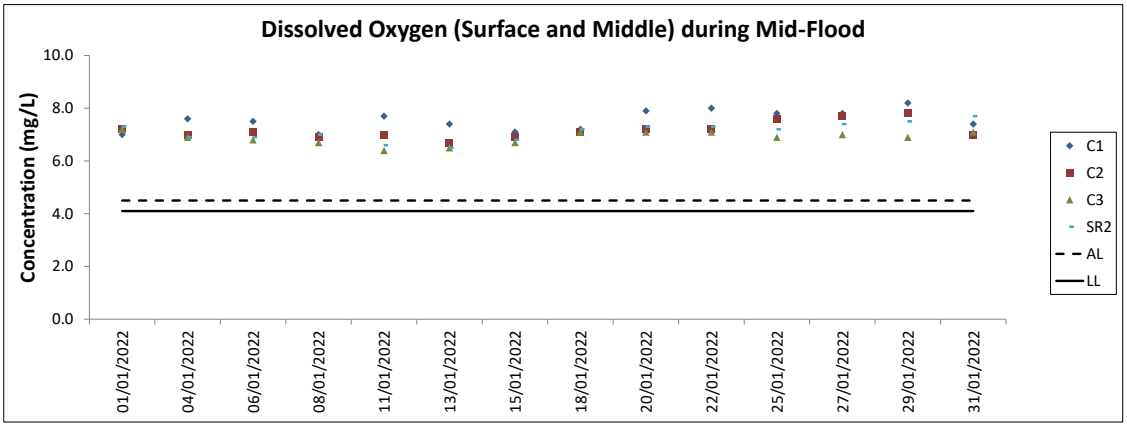


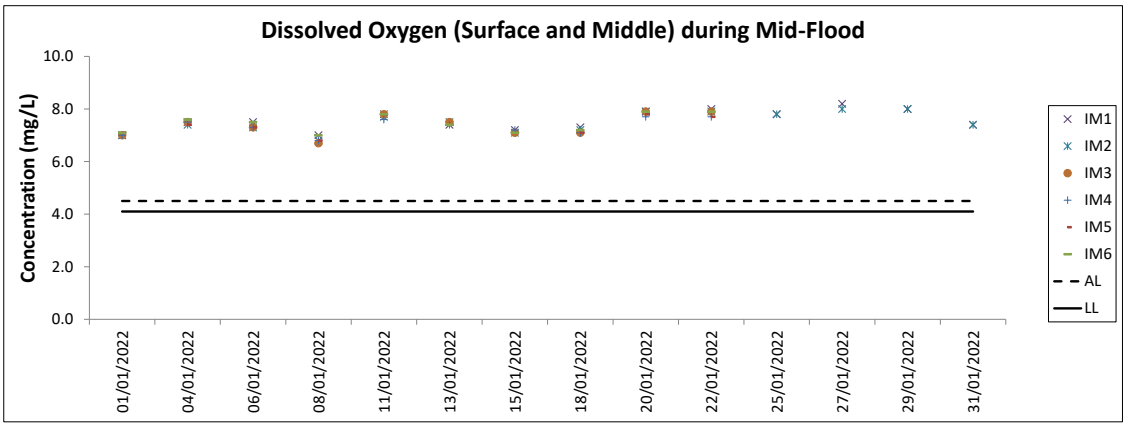






Note: Monitoring at IM3, IM4, IM5, IM6, IM8, IM9, SR5A, SR6A, SR7 were terminated after 25 January 2022.


Dissolved Oxygen (Surface and Middle) during Mid-Flood
Concentration (mg/L)
10.0
8.0
6.0
4.0
2.0
0.0
01/01/2022
04/01/2022
06/01/2022
08/01/2022
11/01/2022
13/01/2022
15/01/2022
18/01/2022
20/01/2022
22/01/2022
25/01/2022
27/01/2022
29/01/2022
31/01/2022
C1
C2
C3
SR2
AL
LL


Dissolved Oxygen (Surface and Middle) during Mid-Flood
Concentration (mg/L)
10.0
8.0
6.0
4.0
2.0
0.0
01/01/2022
04/01/2022
06/01/2022
08/01/2022
11/01/2022
13/01/2022
15/01/2022
18/01/2022
20/01/2022
22/01/2022
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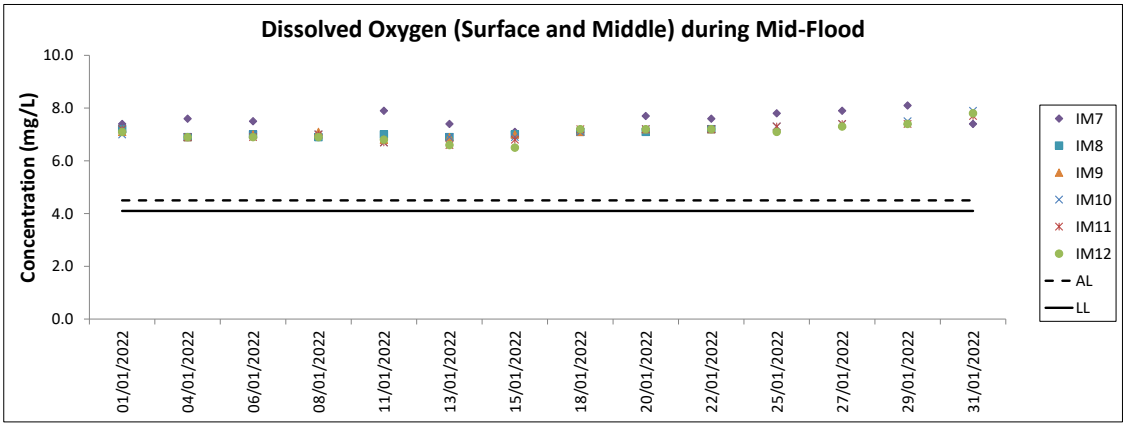
29/01/2022
31/01/2022
IM1
IM2
IM3
IM4
IM5
IM6
AL
LL


Dissolved Oxygen (Surface and Middle) during Mid-Flood
Concentration (mg/L)
10.0
8.0
6.0
4.0
2.0
0.0
01/01/2022
04/01/2022
06/01/2022
08/01/2022
11/01/2022
13/01/2022
15/01/2022
18/01/2022
20/01/2022
22/01/2022
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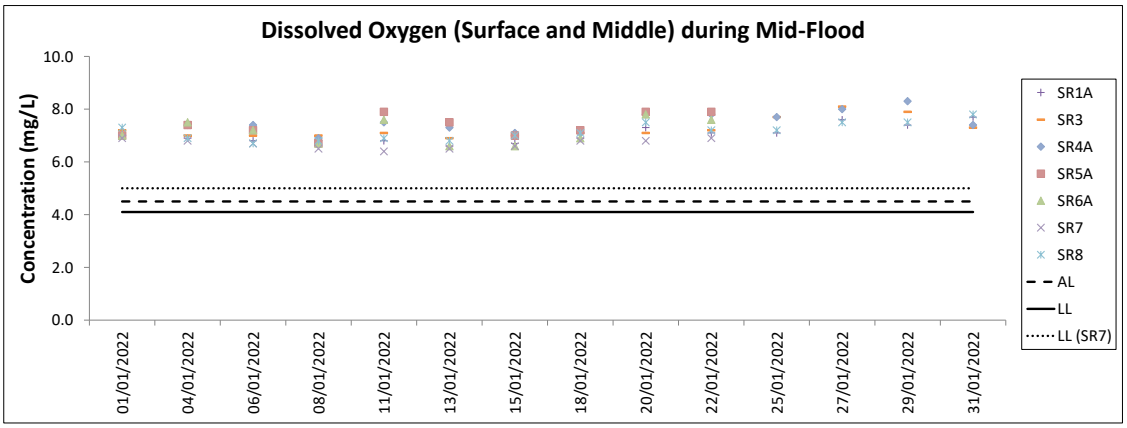
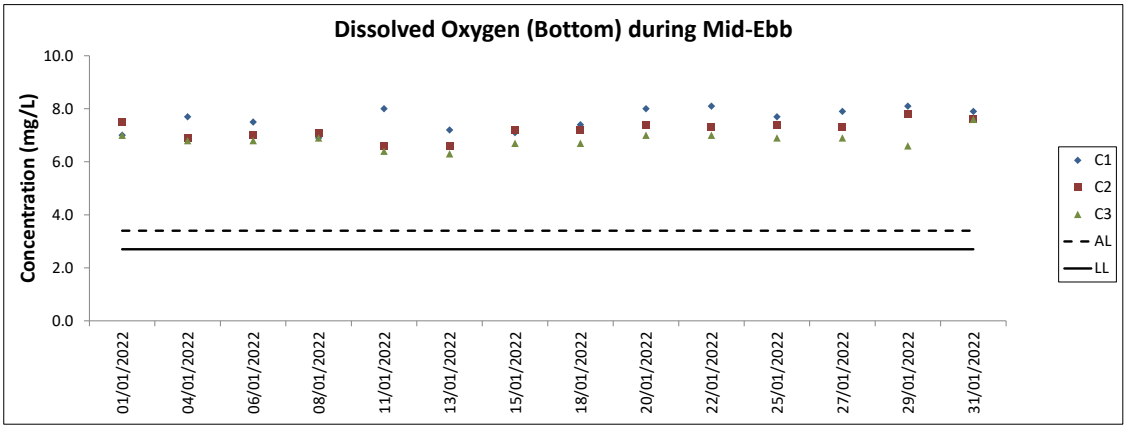
29/01/2022
31/01/2022
IM7
IM8
IM9
IM10
IM11
IM12
AL
LL


Dissolved Oxygen (Surface and Middle) during Mid-Flood
Concentration (mg/L)
10.0
8.0
6.0
4.0
2.0
0.0
01/01/2022
04/01/2022
06/01/2022
08/01/2022
11/01/2022
13/01/2022
15/01/2022
18/01/2022
20/01/2022
22/01/2022
25/01/2022
27/01/2022
29/01/2022
31/01/2022
SR1A
SR3
SR4A
SR5A
SR6A
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
0.0
01/01/2022
04/01/2022
06/01/2022
08/01/2022
11/01/2022
13/01/2022
15/01/2022
18/01/2022
20/01/2022
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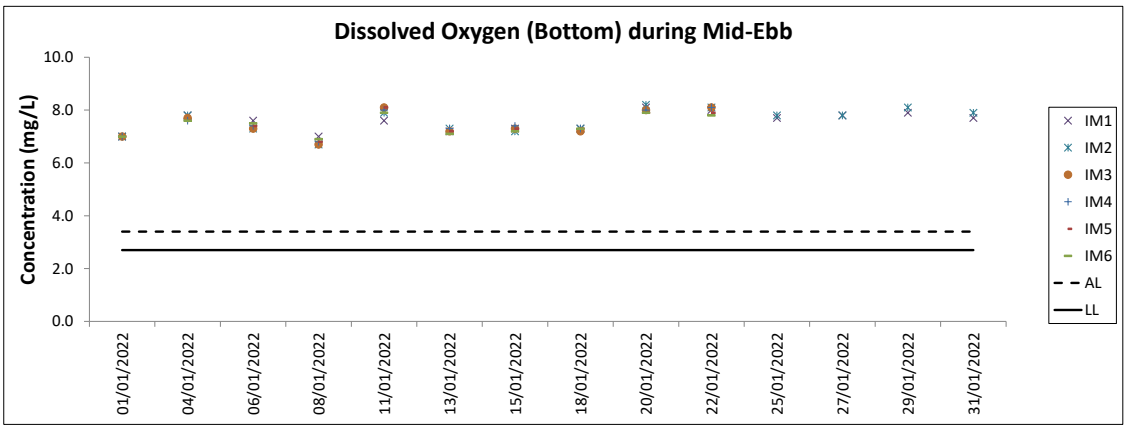
29/01/2022
31/01/2022
C1
C2
C3
AL
LL


Dissolved Oxygen (Bottom) during Mid-Ebb
Concentration (mg/L)
10.0
8.0
6.0
4.0
2.0
0.0
01/01/2022
04/01/2022
06/01/2022
08/01/2022
11/01/2022
13/01/2022
15/01/2022
18/01/2022
20/01/2022
22/01/2022
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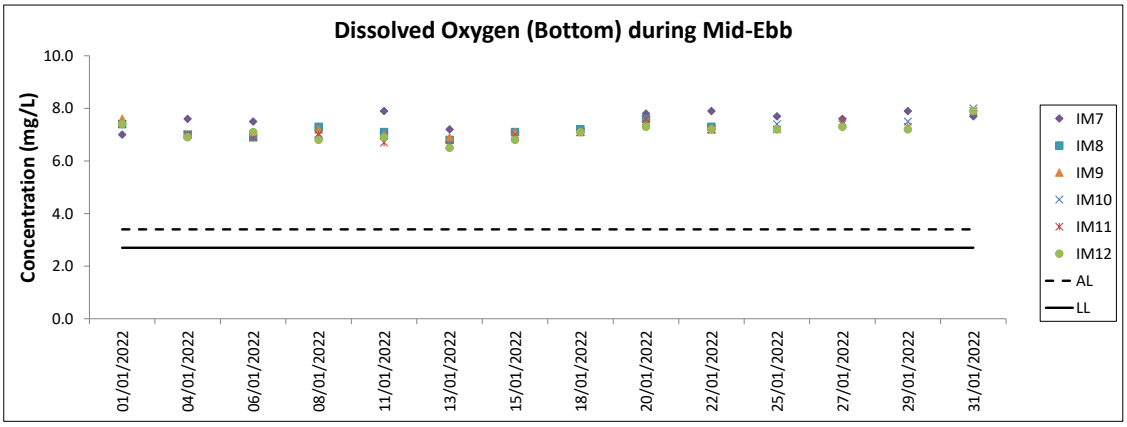
29/01/2022
31/01/2022
IM1
IM2
IM3
IM4
IM5
IM6
AL
LL


Dissolved Oxygen (Bottom) during Mid-Ebb
Concentration (mg/L)
10.0
8.0
6.0
4.0
2.0
0.0
01/01/2022
04/01/2022
06/01/2022
08/01/2022
11/01/2022
13/01/2022
15/01/2022
18/01/2022
20/01/2022
22/01/2022
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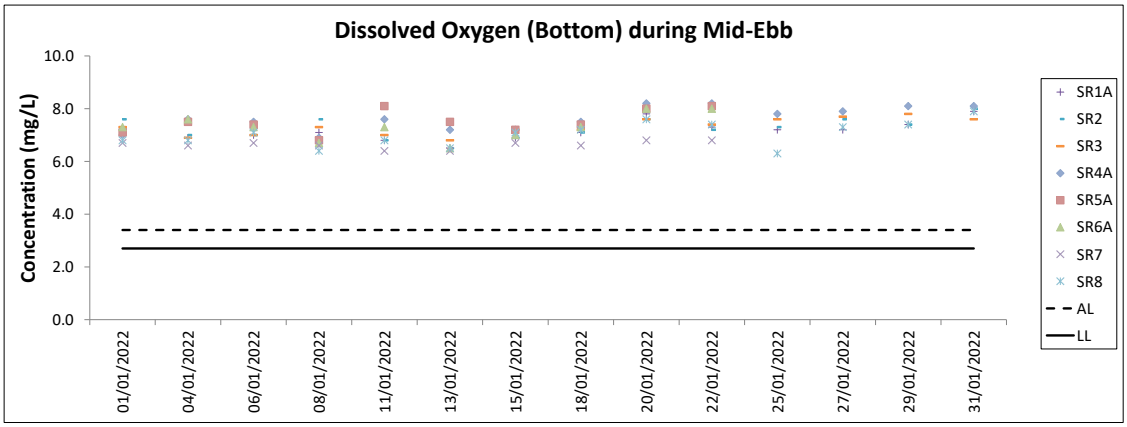
IM7
IM8
IM9
IM10
IM11
IM12
AL
LL


Dissolved Oxygen (Bottom) during Mid-Ebb
Concentration (mg/L)
10.0
8.0
6.0
4.0
2.0
0.0
01/01/2022
04/01/2022
06/01/2022
08/01/2022
11/01/2022
13/01/2022
15/01/2022
18/01/2022
20/01/2022
22/01/2022
25/01/2022
27/01/2022
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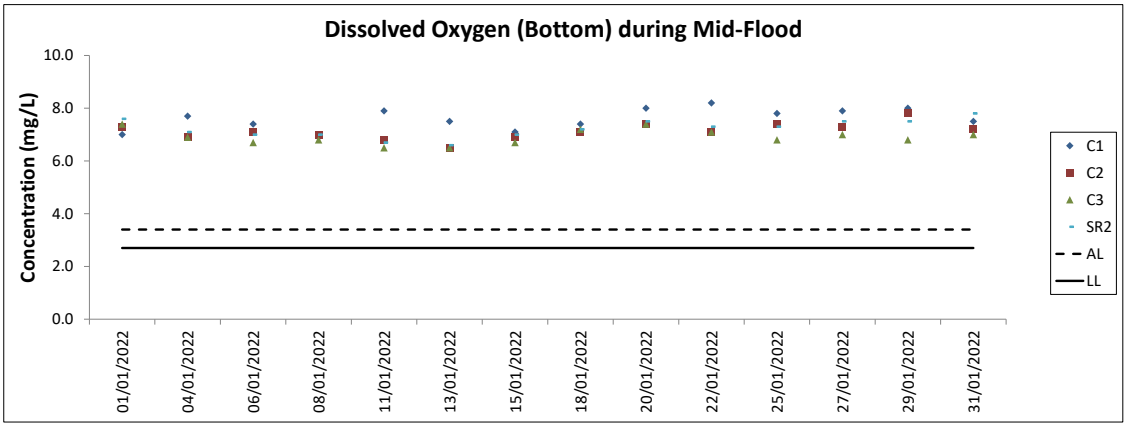
SR1A
SR2
SR3
SR4A
SR5A
SR6A
SR7
SR8
AL
LL


Dissolved Oxygen (Bottom) during Mid-Flood
Concentration (mg/L)
10.0
8.0
6.0
4.0
2.0
0.0
01/01/2022
04/01/2022
06/01/2022
08/01/2022
11/01/2022
13/01/2022
15/01/2022
18/01/2022
20/01/2022
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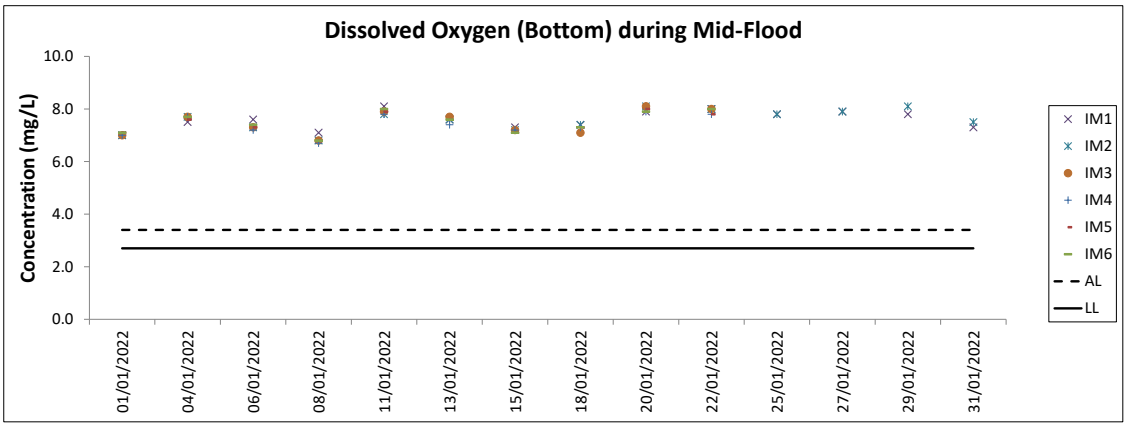
31/01/2022
C1
C2
C3
SR2
AL
LL


Dissolved Oxygen (Bottom) during Mid-Flood
Concentration (mg/L)
10.0
8.0
6.0
4.0
2.0
0.0
01/01/2022
04/01/2022
06/01/2022
08/01/2022
11/01/2022
13/01/2022
15/01/2022
18/01/2022
20/01/2022
22/01/2022
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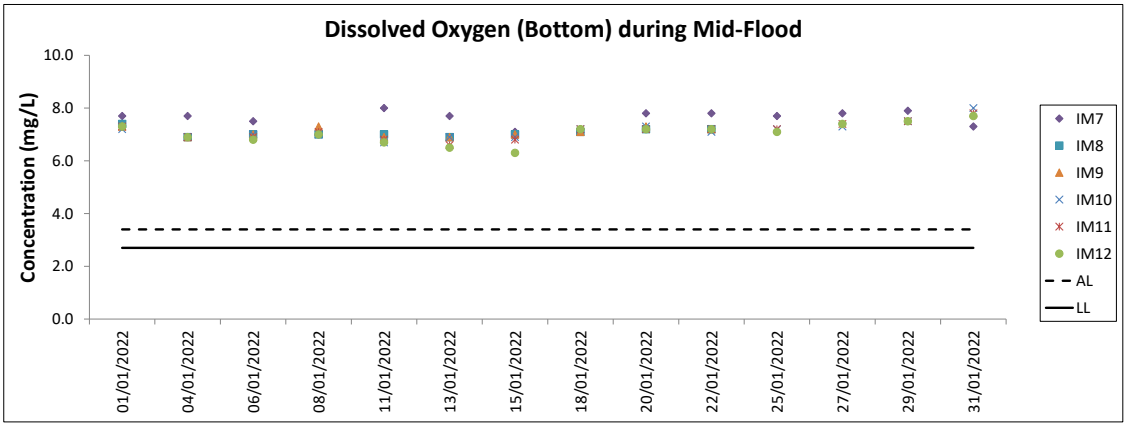
31/01/2022
IM1
IM2
IM3
IM4
IM5
IM6
AL
LL


Dissolved Oxygen (Bottom) during Mid-Flood
Concentration (mg/L)
10.0
8.0
6.0
4.0
2.0
0.0
01/01/2022
04/01/2022
06/01/2022
08/01/2022
11/01/2022
13/01/2022
15/01/2022
18/01/2022
20/01/2022
22/01/2022
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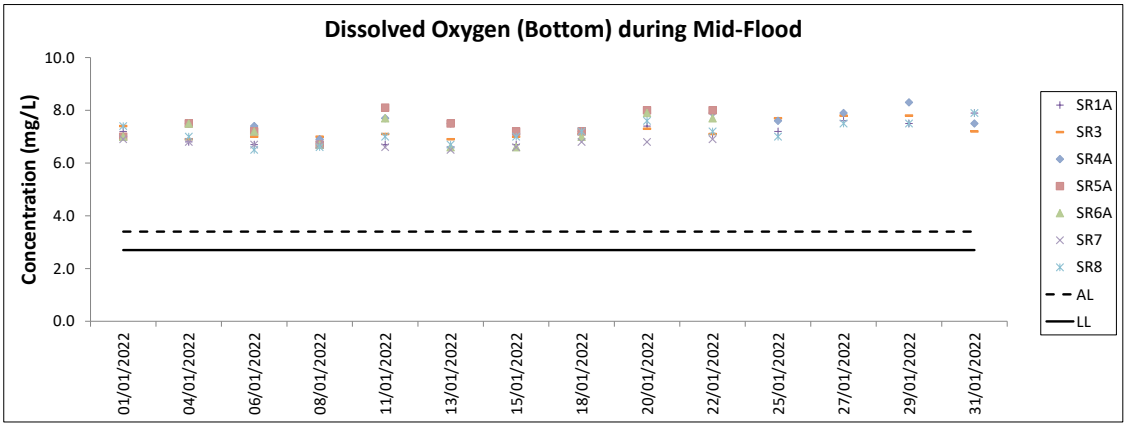
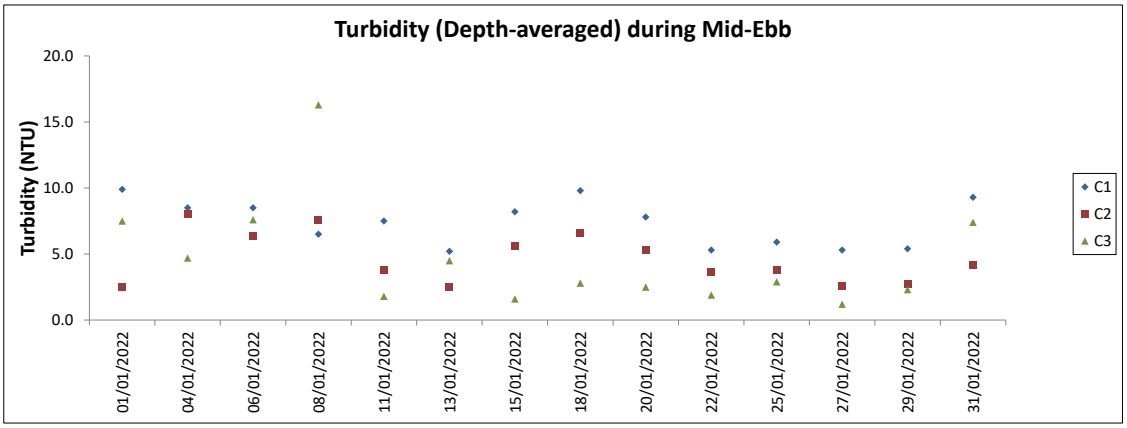
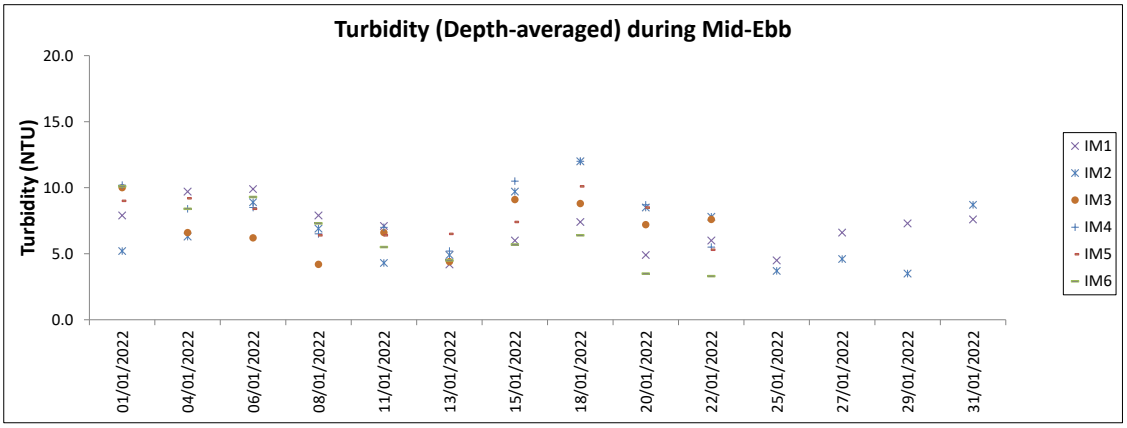
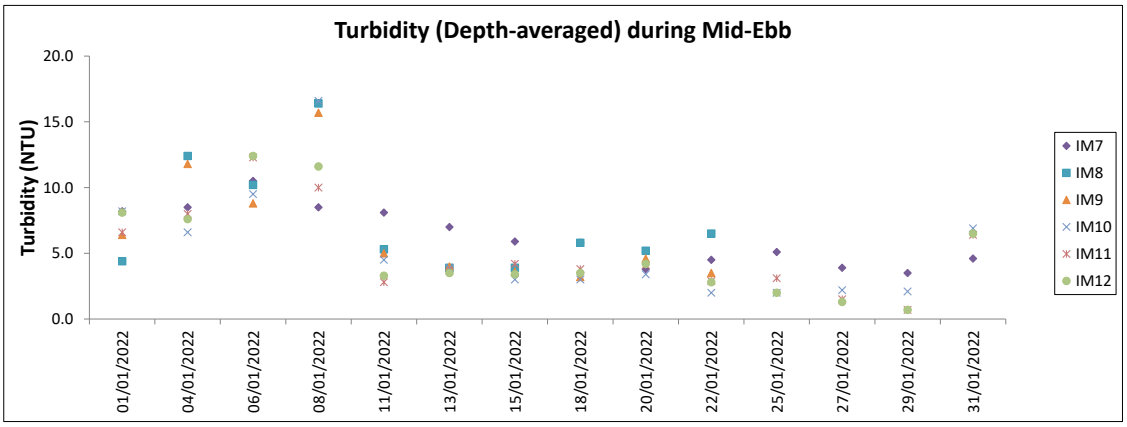
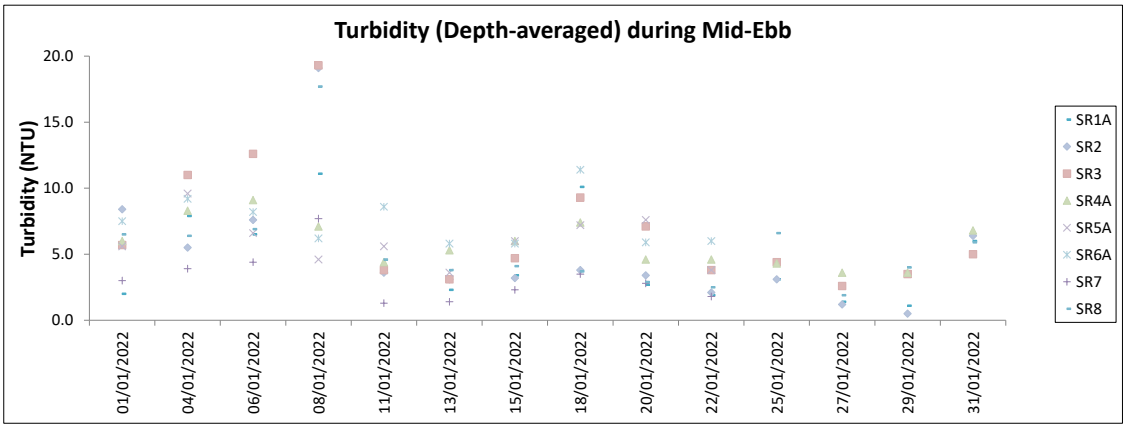
IM7
IM8
IM9
IM10
IM11
IM12
AL
LL


Dissolved Oxygen (Bottom) during Mid-Flood
Concentration (mg/L)
10.0
8.0
6.0
4.0
2.0
0.0
01/01/2022
04/01/2022
06/01/2022
08/01/2022
11/01/2022
13/01/2022
15/01/2022
18/01/2022
20/01/2022
22/01/2022
25/01/2022
27/01/2022
29/01/2022
31/01/2022
SR1A
SR3
SR4A
SR5A
SR6A
SR7
SR8
AL
LL

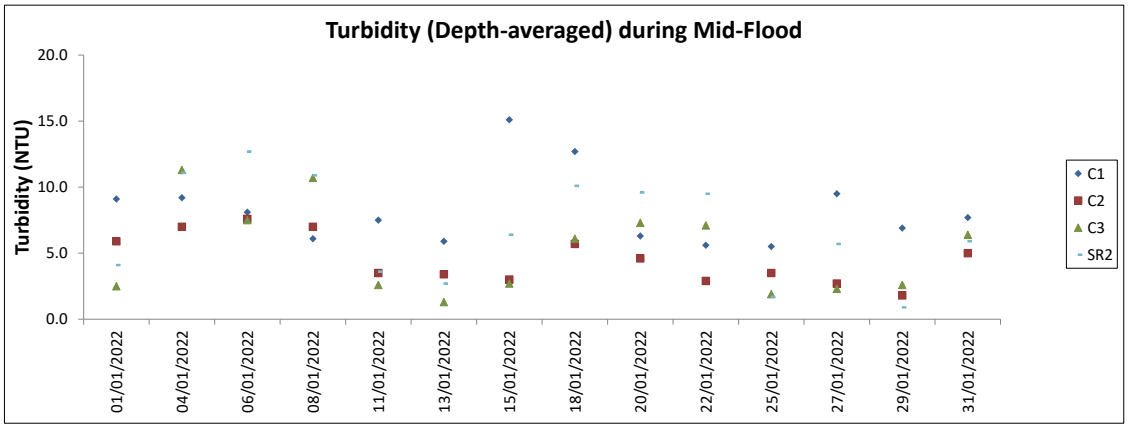


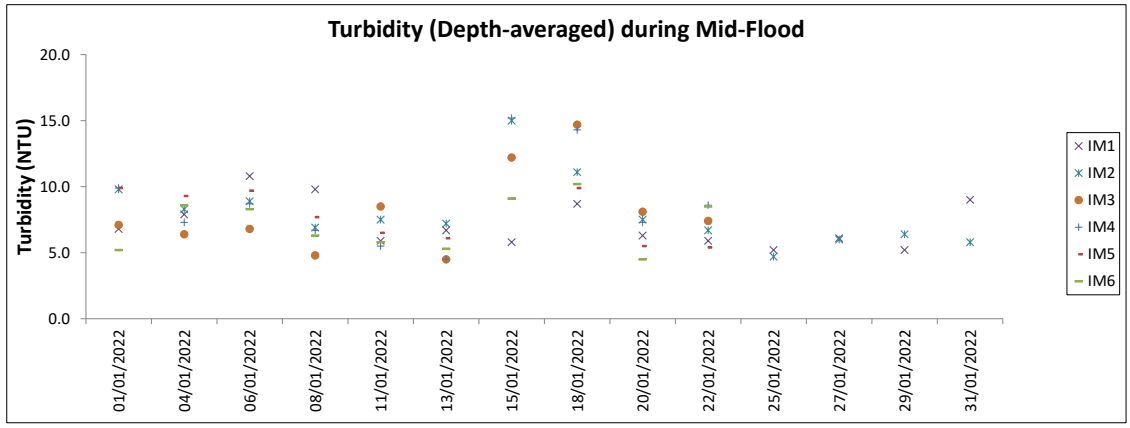


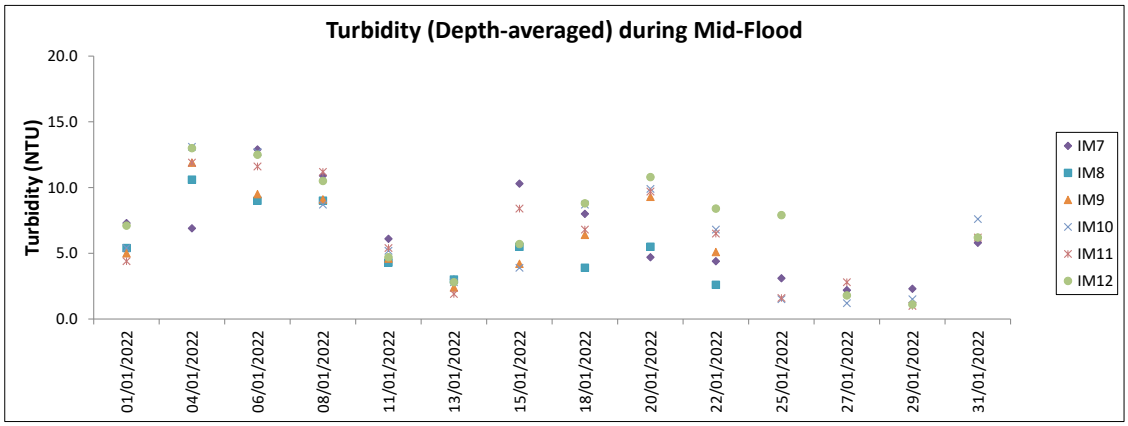


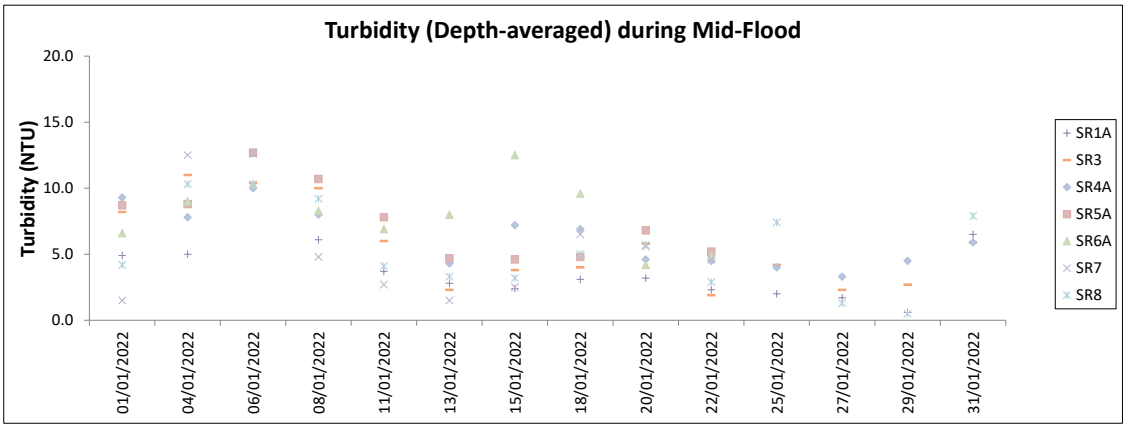


Note: The Action and Limit Level of turbidity can be referred to Table 4.2 of the monthly EM&A report.
Monitoring at IM3, IM4, IM5, IM6, IM8, IM9, SR5A, SR6A, SR7 were terminated after 25 January 2022.

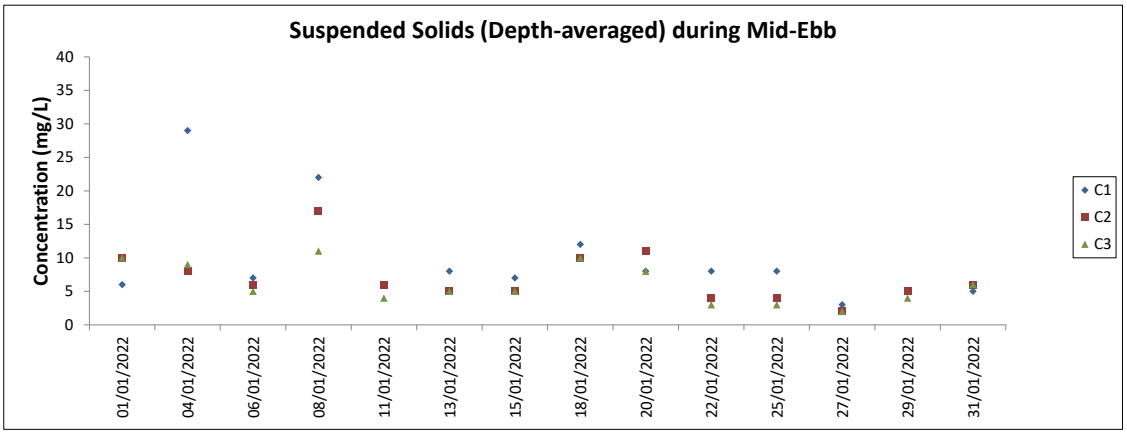


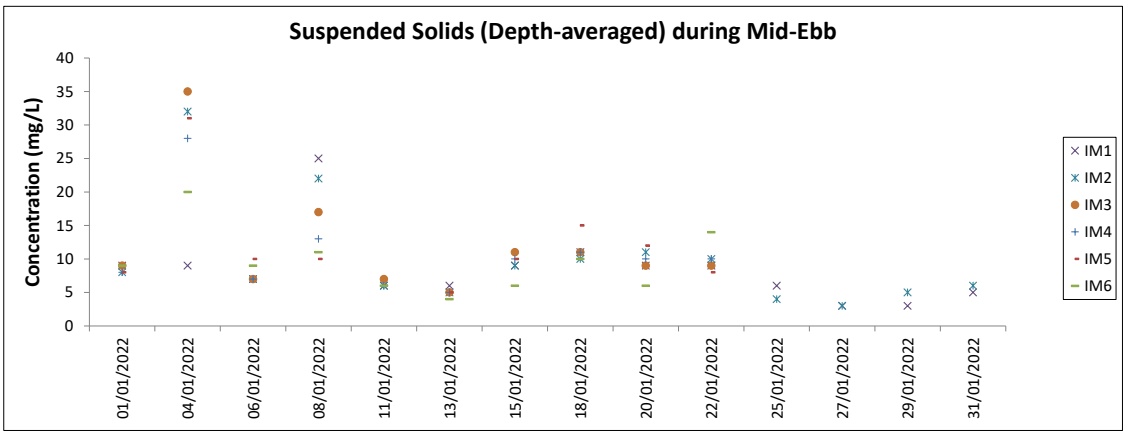


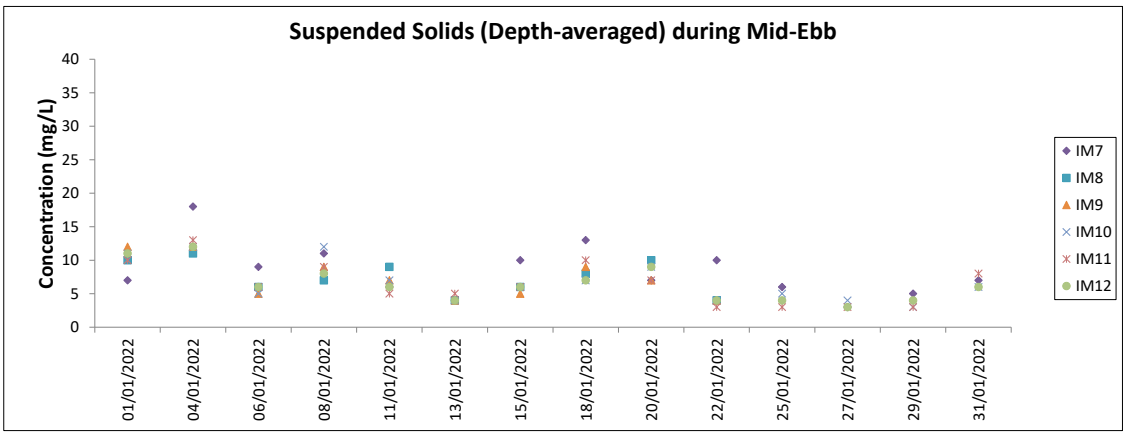


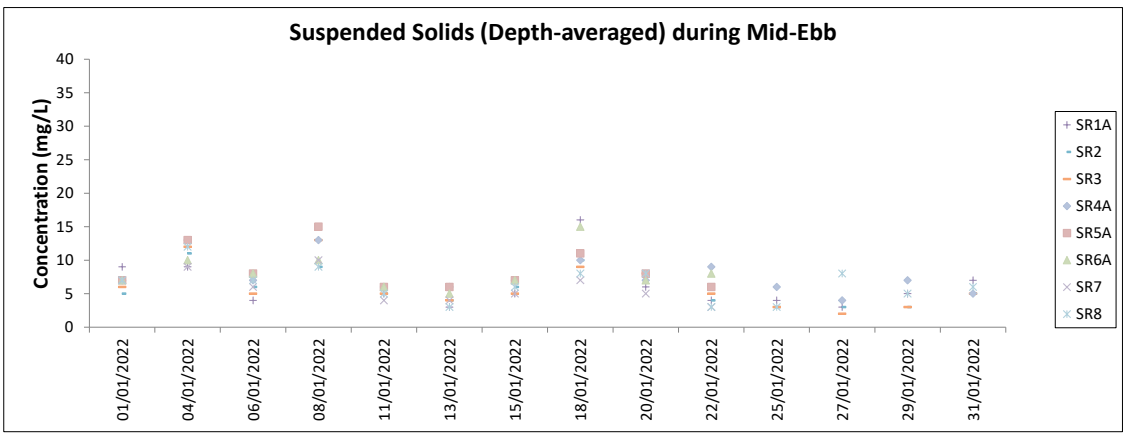


Note: The Action and Limit Level of turbidity can be referred to Table 4.2 of the monthly EM&A report.

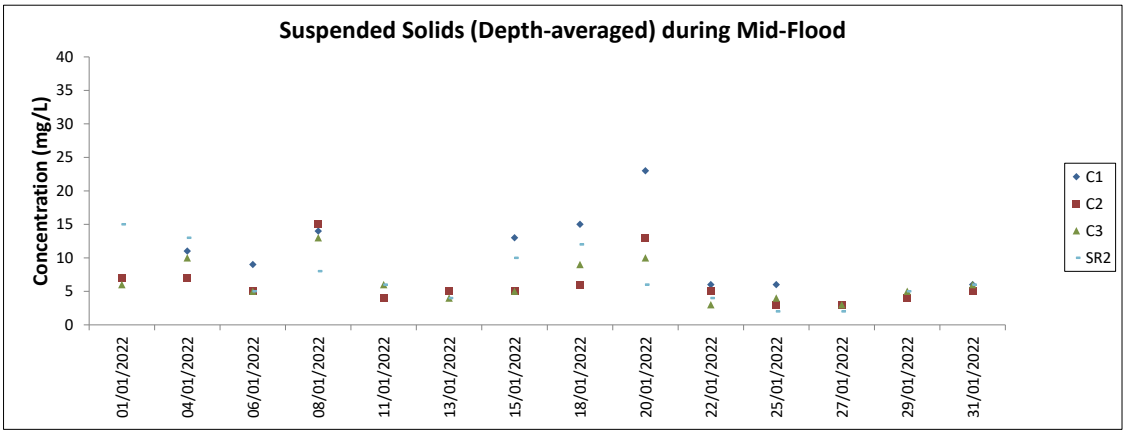


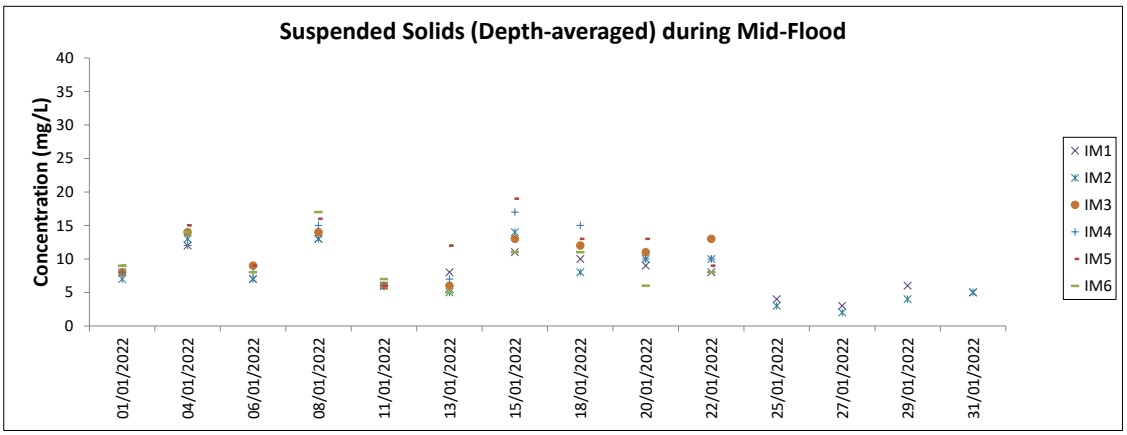


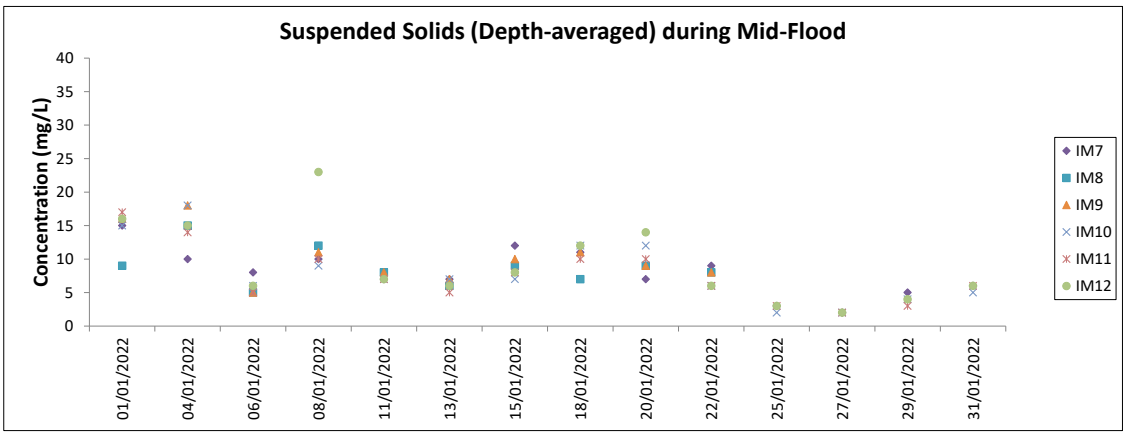


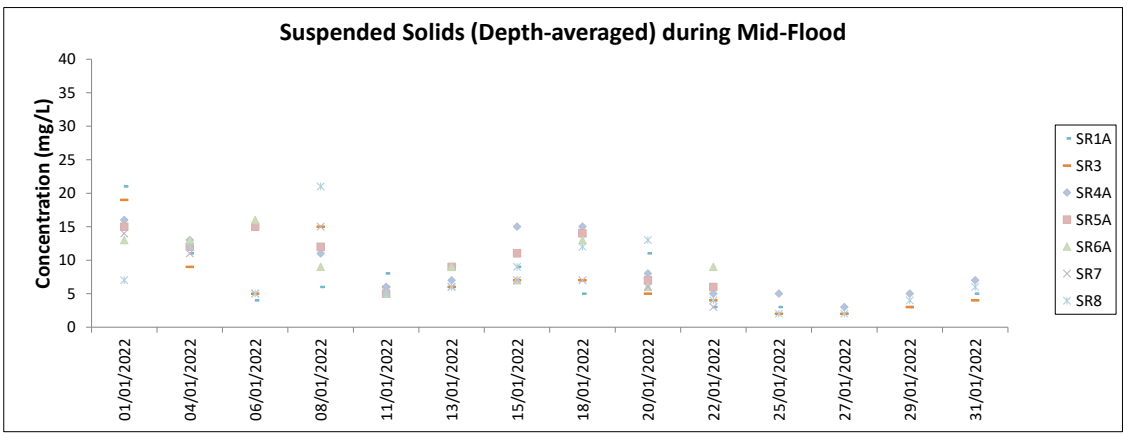


Note: The Action and Limit Level of suspended solids can be referred to Table 4.2 of the monthly EM&A report.
Monitoring at IM3, IM4, IM5, IM6, IM8, IM9, SR5A, SR6A, SR7 were terminated after 25 January 2022.

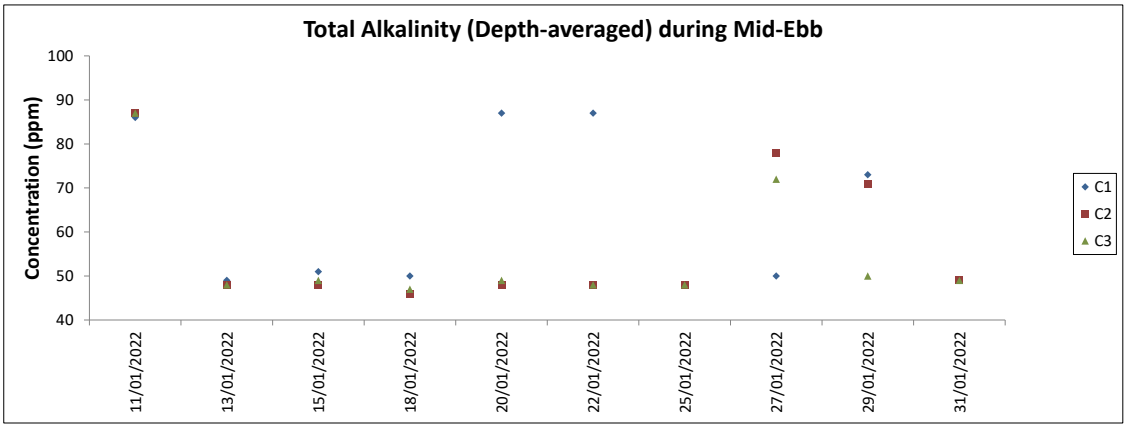


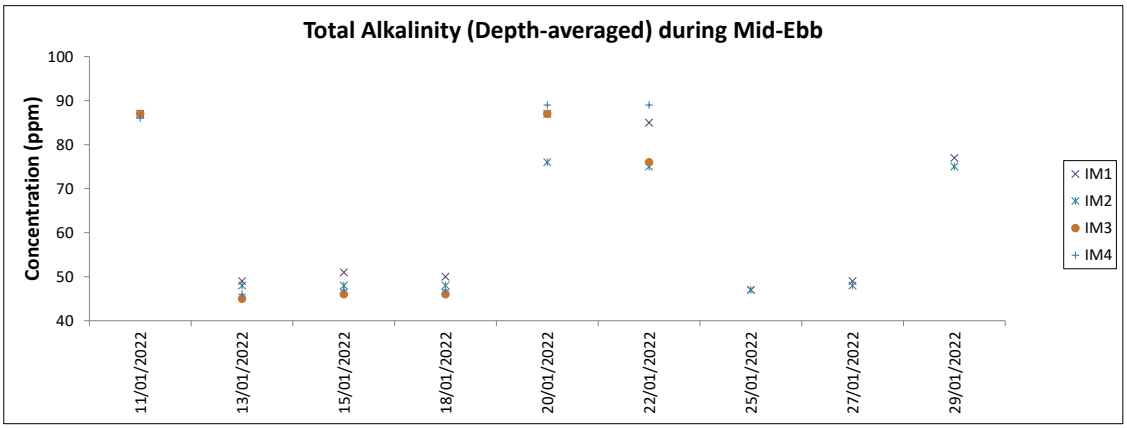


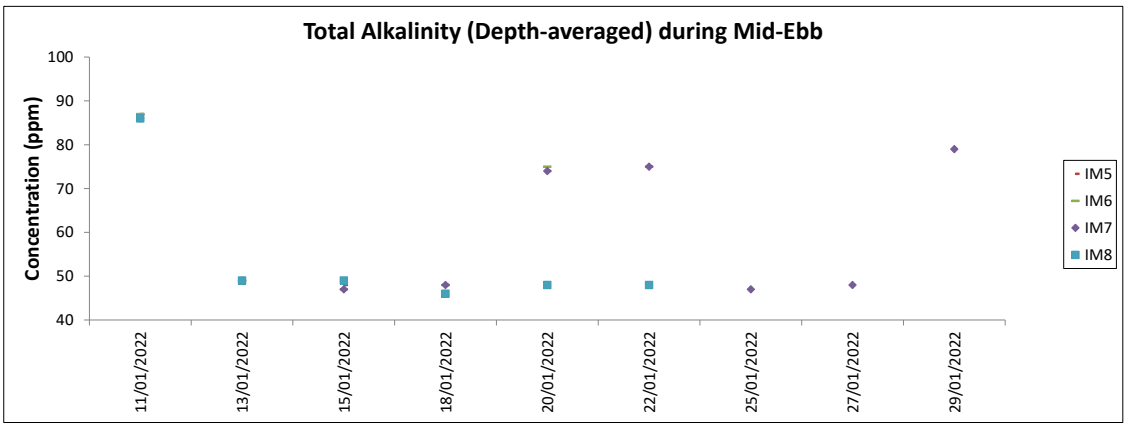


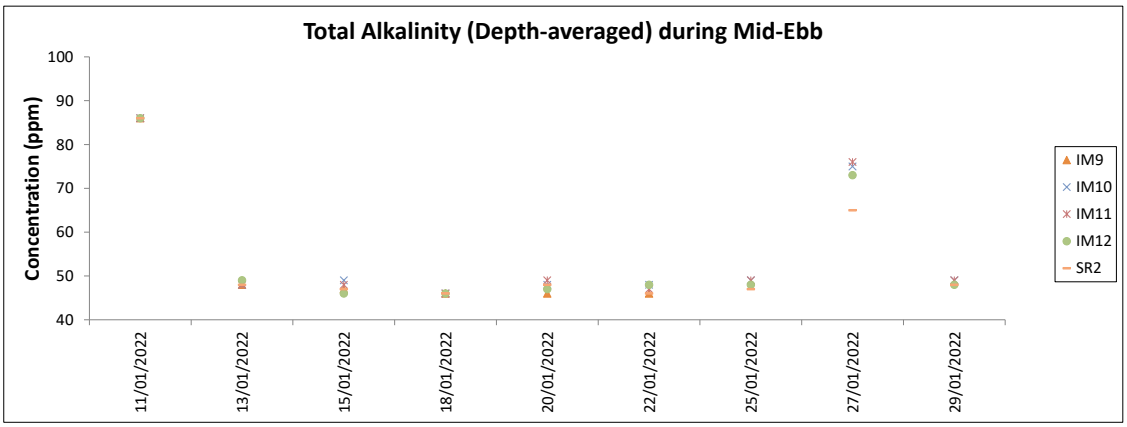


Note: The Action and Limit Level of suspended solids can be referred to Table 4.2 of the monthly EM&A report.
Major site activities carried out during the reporting period are summarized in Section 1.4 of the monthly EM&A report.

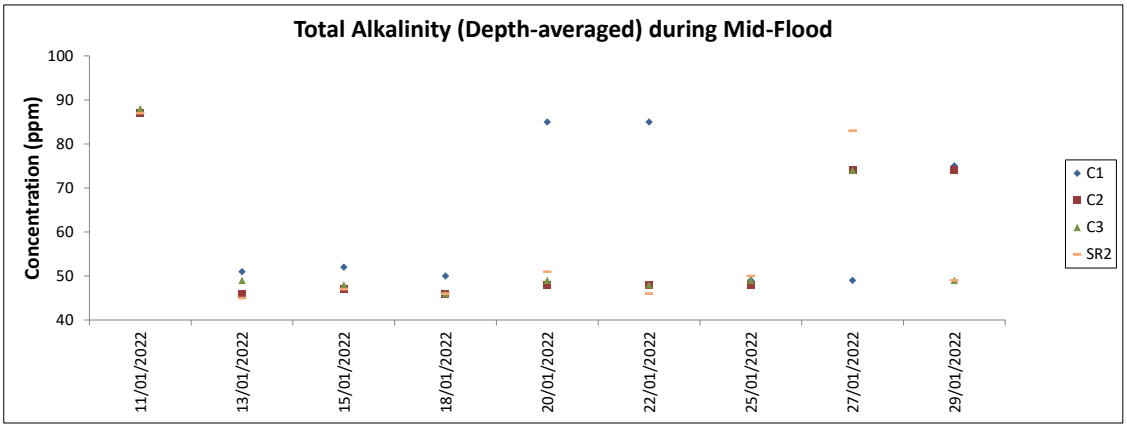


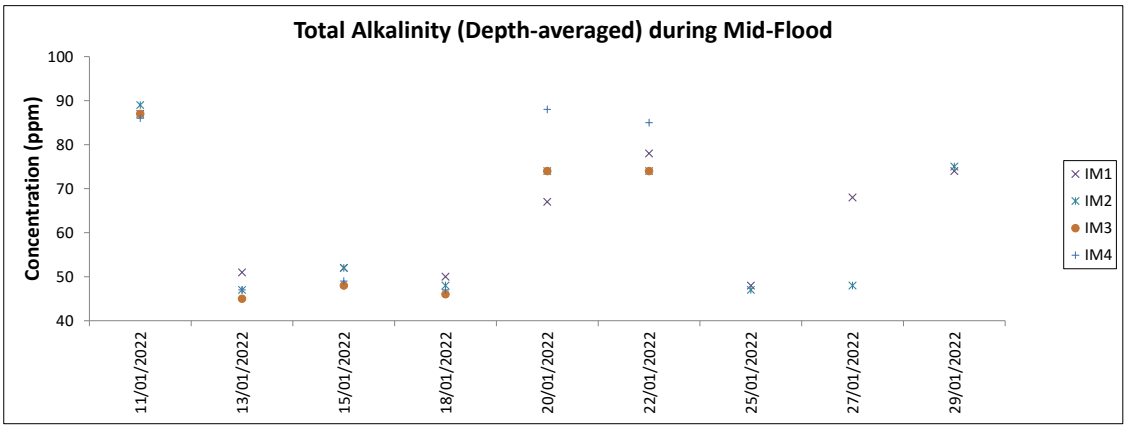


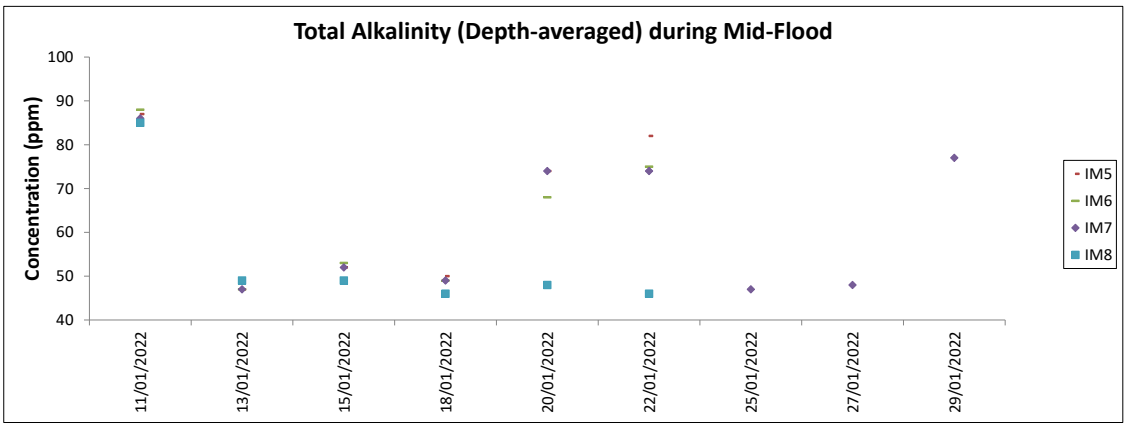


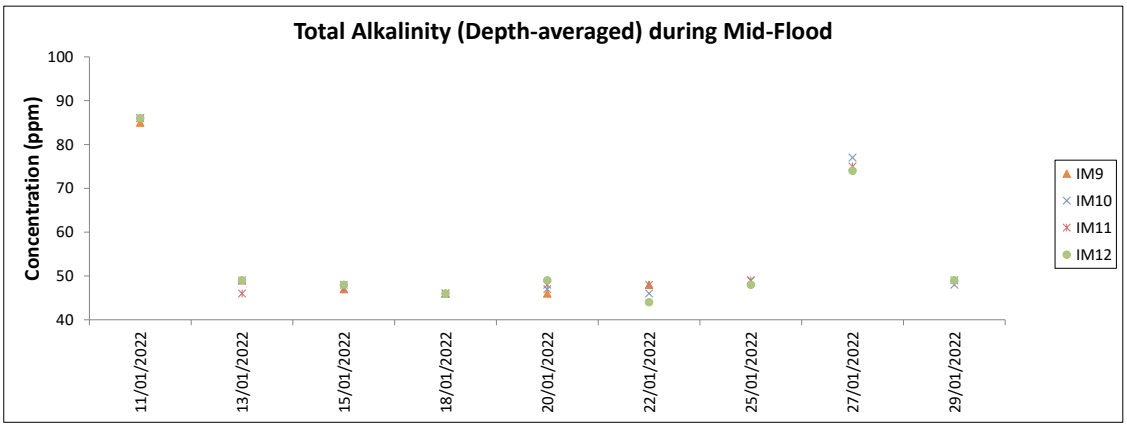


Note: The Action and Limit Level of total alkalinity can be referred to Table 4.2 of the monthly EM&A report.
Monitoring at IM3, IM4, IM5, IM6, IM8, IM9, SR5A, SR6A, SR7 were terminated after 25 January 2022.

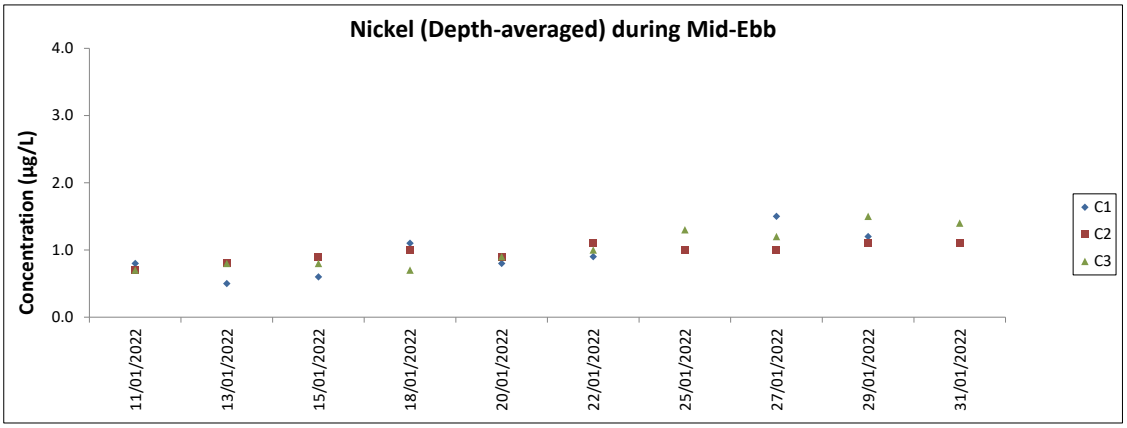


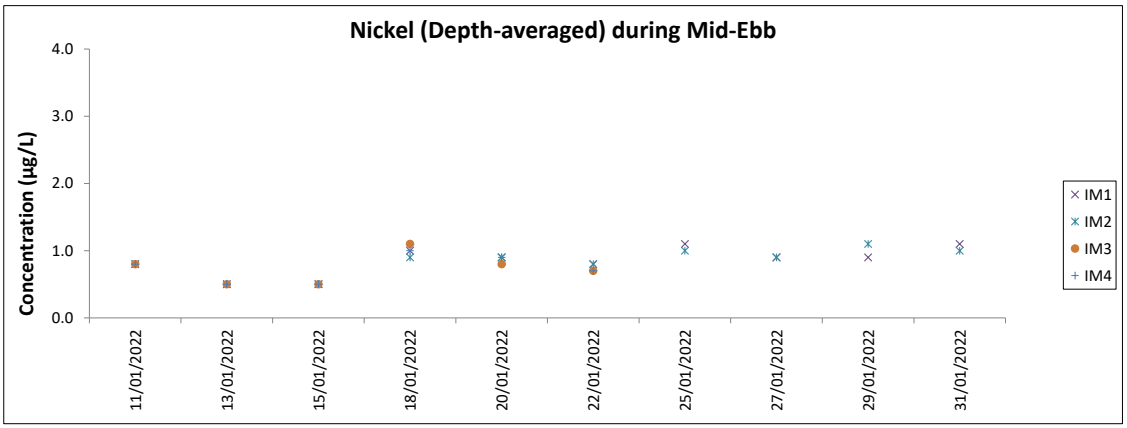


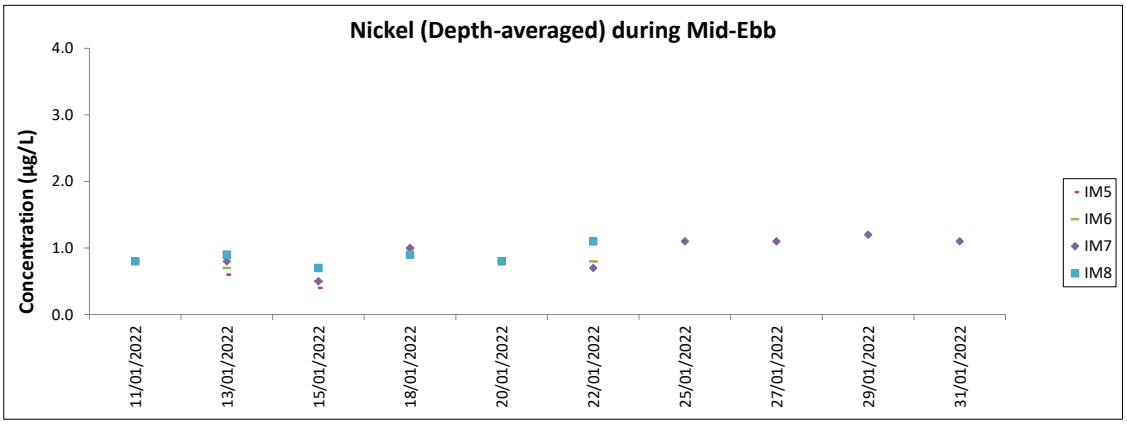


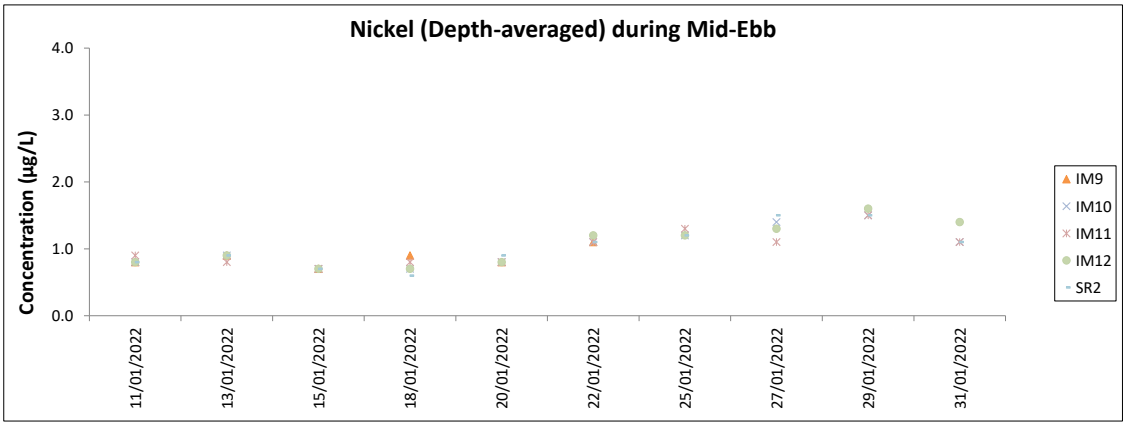


Note: The Action and Limit Level of total alkalinity can be referred to Table 4.2 of the monthly EM&A report.

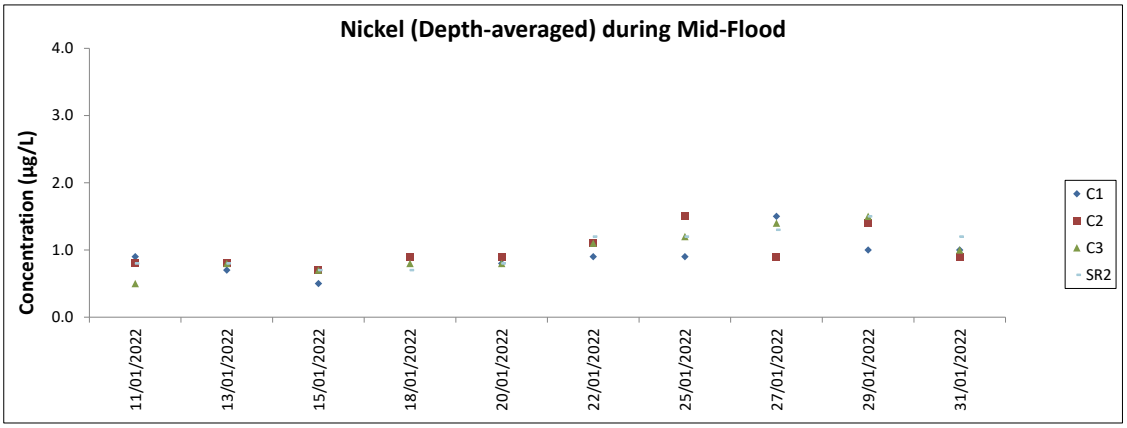


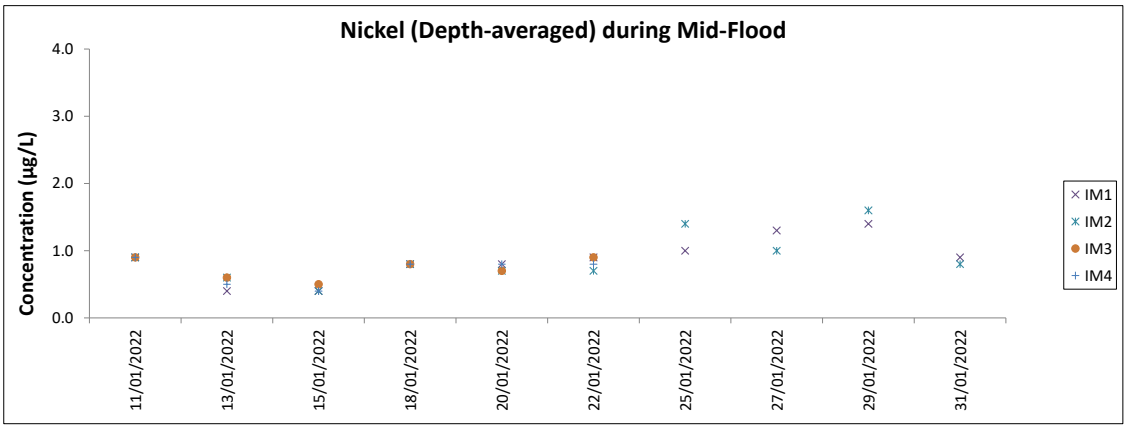


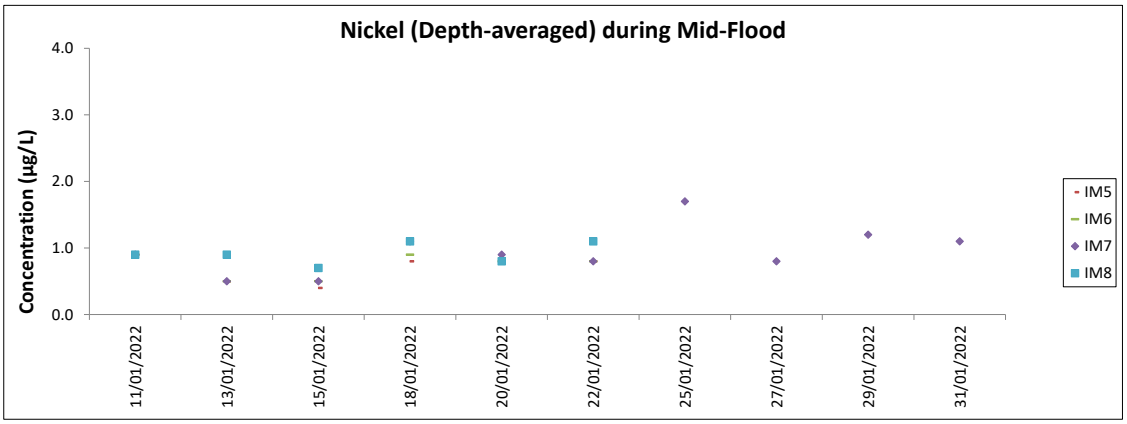


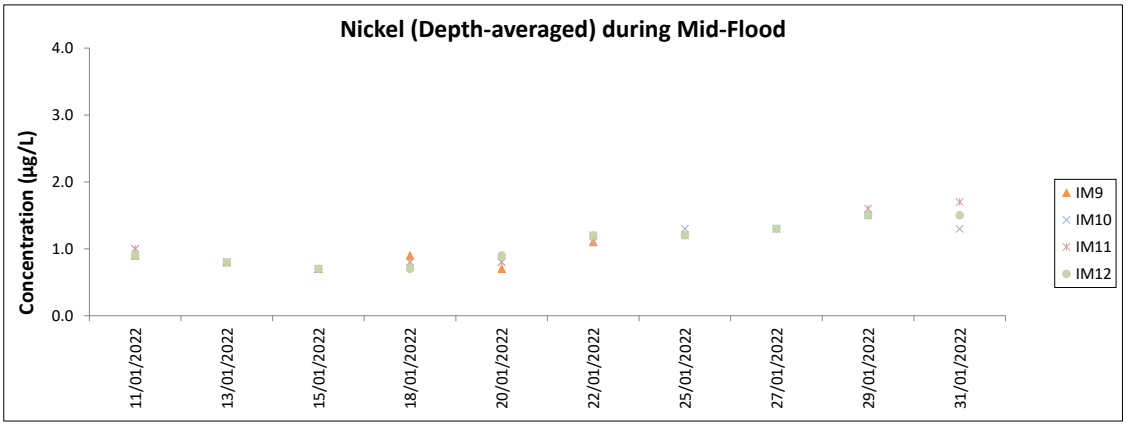


Note: The Action and Limit Level of nickel can be referred to Table 4.2 of the monthly EM&A report.
Monitoring at IM3, IM4, IM5, IM6, IM8, IM9, SR5A, SR6A, SR7 were terminated after 25 January 2022.

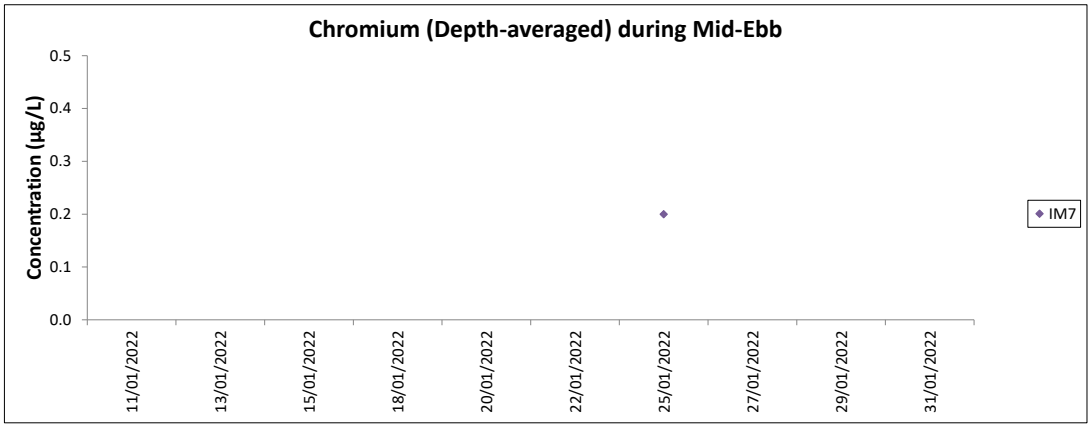


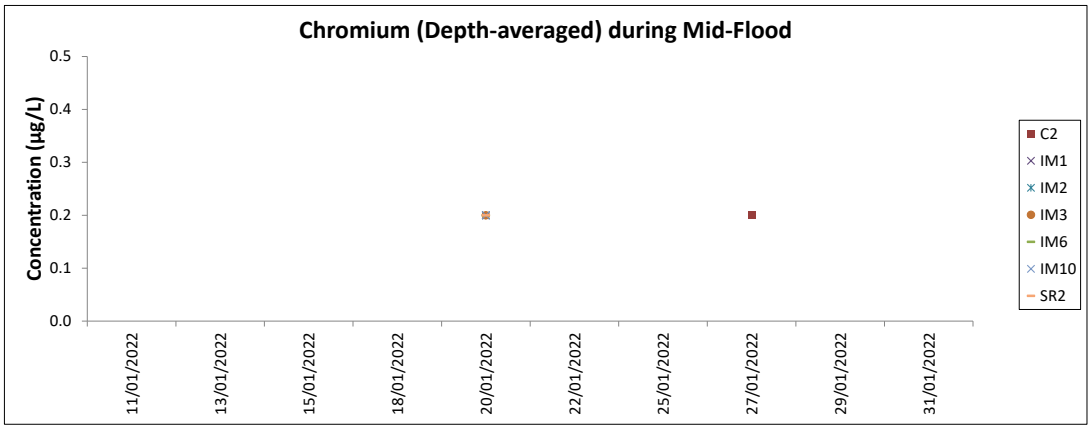






Note: The Action and Limit Level of nickel can be referred to Table 4.2 of the monthly EM&A report.
Major site activities carried out during the reporting period are summarized in Section 1.4 of the monthly EM&A report.
Weather conditions during monitoring are presented in the data tables above.
QA/ QC requirements as stipulated in the EM&A Manual were carried out during measurement.





Note:
Monitoring at IM3, IM4, IM5, IM6, IM8, IM9, SR5A, SR6A, SR7 were terminated after 25 January 2022.

Chinese White Dolphin Monitoring Results

CWD Small Vessel Line-transect Survey — Survey Effort Data

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE	P/S
2-Nov-21	NEL	2	3.500	AUTUMN	32166	3RS ET	P
2-Nov-21	NEL	3	25.180	AUTUMN	32166	3RS ET	P
2-Nov-21	NEL	4	8.390	AUTUMN	32166	3RS ET	P
2-Nov-21	NEL	2	2.700	AUTUMN	32166	3RS ET	S
2-Nov-21	NEL	3	6.030	AUTUMN	32166	3RS ET	S
2-Nov-21	NEL	4	0.900	AUTUMN	32166	3RS ET	S
3-Nov-21	AW	2	2.830	AUTUMN	32166	3RS ET	P
3-Nov-21	AW	3	1.910	AUTUMN	32166	3RS ET	P
3-Nov-21	WL	2	13.015	AUTUMN	32166	3RS ET	P
3-Nov-21	WL	3	4.635	AUTUMN	32166	3RS ET	P
3-Nov-21	WL	4	2.430	AUTUMN	32166	3RS ET	P
3-Nov-21	WL	2	5.150	AUTUMN	32166	3RS ET	S
3-Nov-21	WL	3	3.530	AUTUMN	32166	3RS ET	S
3-Nov-21	WL	4	2.100	AUTUMN	32166	3RS ET	S
4-Nov-21	AW	2	4.780	AUTUMN	32166	3RS ET	P
4-Nov-21	WL	2	15.006	AUTUMN	32166	3RS ET	P
4-Nov-21	WL	4	4.543	AUTUMN	32166	3RS ET	P
4-Nov-21	WL	2	6.324	AUTUMN	32166	3RS ET	S
4-Nov-21	WL	4	2.097	AUTUMN	32166	3RS ET	S
5-Nov-21	SWL	3	48.320	AUTUMN	32166	3RS ET	P
5-Nov-21	SWL	4	6.250	AUTUMN	32166	3RS ET	P
5-Nov-21	SWL	3	15.130	AUTUMN	32166	3RS ET	S
5-Nov-21	SWL	4	1.000	AUTUMN	32166	3RS ET	S
8-Nov-21	NEL	3	15.680	AUTUMN	32166	3RS ET	P
8-Nov-21	NEL	4	21.020	AUTUMN	32166	3RS ET	P
8-Nov-21	NEL	3	5.800	AUTUMN	32166	3RS ET	S
8-Nov-21	NEL	4	4.300	AUTUMN	32166	3RS ET	S
10-Nov-21	NWL	3	47.000	AUTUMN	32166	3RS ET	P
10-Nov-21	NWL	4	16.600	AUTUMN	32166	3RS ET	P
10-Nov-21	NWL	3	11.200	AUTUMN	32166	3RS ET	S
10-Nov-21	NWL	4	1.200	AUTUMN	32166	3RS ET	S
11-Nov-21	SWL	2	45.610	AUTUMN	32166	3RS ET	P
11-Nov-21	SWL	3	8.300	AUTUMN	32166	3RS ET	P
11-Nov-21	SWL	2	15.490	AUTUMN	32166	3RS ET	S
11-Nov-21	SWL	3	0.500	AUTUMN	32166	3RS ET	S
12-Nov-21	NWL	3	53.300	AUTUMN	32166	3RS ET	P
12-Nov-21	NWL	4	10.400	AUTUMN	32166	3RS ET	P
12-Nov-21	NWL	3	9.700	AUTUMN	32166	3RS ET	S
12-Nov-21	NWL	4	1.900	AUTUMN	32166	3RS ET	S
1-Dec-21	NEL	3	6.110	WINTER	32166	3RS ET	P
1-Dec-21	NEL	4	30.730	WINTER	32166	3RS ET	P
1-Dec-21	NEL	3	2.210	WINTER	32166	3RS ET	P
1-Dec-21	NEL	4	7.450	WINTER	32166	3RS ET	S
3-Dec-21	NWL	3	49.900	WINTER	32166	3RS ET	P
3-Dec-21	NWL	4	14.000	WINTER	32166	3RS ET	P
3-Dec-21	NWL	3	8.400	WINTER	32166	3RS ET	S
3-Dec-21	NWL	4	3.100	WINTER	32166	3RS ET	S

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE	P/S
6-Dec-21	SWL	2	3.350	WINTER	32166	3RS ET	P
6-Dec-21	SWL	3	50.190	WINTER	32166	3RS ET	P
6-Dec-21	SWL	2	0.900	WINTER	32166	3RS ET	S
6-Dec-21	SWL	3	14.960	WINTER	32166	3RS ET	S
7-Dec-21	NWL	2	7.900	WINTER	32166	3RS ET	P
7-Dec-21	NWL	3	53.100	WINTER	32166	3RS ET	P
7-Dec-21	NWL	4	2.000	WINTER	32166	3RS ET	S
7-Dec-21	NWL	3	12.300	WINTER	32166	3RS ET	P
13-Dec-21	NEL	2	1.290	WINTER	32166	3RS ET	P
13-Dec-21	NEL	3	29.980	WINTER	32166	3RS ET	P
13-Dec-21	NEL	4	5.880	WINTER	32166	3RS ET	P
13-Dec-21	NEL	2	0.440	WINTER	32166	3RS ET	S
13-Dec-21	NEL	3	8.270	WINTER	32166	3RS ET	S
13-Dec-21	NEL	4	1.040	WINTER	32166	3RS ET	S
15-Dec-21	AW	2	4.940	WINTER	32166	3RS ET	P
15-Dec-21	WL	2	19.188	WINTER	32166	3RS ET	P
15-Dec-21	WL	2	10.482	WINTER	32166	3RS ET	S
16-Dec-21	SWL	2	28.760	WINTER	32166	3RS ET	P
16-Dec-21	SWL	3	26.150	WINTER	32166	3RS ET	P
16-Dec-21	SWL	2	6.185	WINTER	32166	3RS ET	S
16-Dec-21	SWL	3	8.280	WINTER	32166	3RS ET	S
17-Dec-21	AW	3	4.970	WINTER	32166	3RS ET	P
17-Dec-21	WL	3	11.890	WINTER	32166	3RS ET	P
17-Dec-21	WL	4	8.700	WINTER	32166	3RS ET	P
17-Dec-21	WL	3	6.710	WINTER	32166	3RS ET	S
17-Dec-21	WL	4	4.000	WINTER	32166	3RS ET	S
03-Jan-22	NWL	2	48.340	WINTER	32166	3RS ET	P
03-Jan-22	NWL	3	13.940	WINTER	32166	3RS ET	P
03-Jan-22	NWL	2	11.440	WINTER	32166	3RS ET	S
04-Jan-22	NEL	2	6.300	WINTER	32166	3RS ET	P
04-Jan-22	NEL	3	23.630	WINTER	32166	3RS ET	P
04-Jan-22	NEL	4	7.300	WINTER	32166	3RS ET	P
04-Jan-22	NEL	3	7.770	WINTER	32166	3RS ET	S
04-Jan-22	NEL	4	1.800	WINTER	32166	3RS ET	S
05-Jan-22	AW	2	0.800	WINTER	32166	3RS ET	P
05-Jan-22	AW	3	1.770	WINTER	32166	3RS ET	P
05-Jan-22	AW	4	1.920	WINTER	32166	3RS ET	P
05-Jan-22	WL	2	10.474	WINTER	32166	3RS ET	P
05-Jan-22	WL	2	5.590	WINTER	32166	3RS ET	S
05-Jan-22	WL	3	0.504	WINTER	32166	3RS ET	S
10-Jan-22	AW	2	4.820	WINTER	32166	3RS ET	P
10-Jan-22	WL	2	12.835	WINTER	32166	3RS ET	P
10-Jan-22	WL	3	6.493	WINTER	32166	3RS ET	P
10-Jan-22	WL	2	5.225	WINTER	32166	3RS ET	S
10-Jan-22	WL	3	4.587	WINTER	32166	3RS ET	S
11-Jan-22	NEL	2	7.450	WINTER	32166	3RS ET	P
11-Jan-22	NEL	3	28.850	WINTER	32166	3RS ET	P
11-Jan-22	NEL	4	1.100	WINTER	32166	3RS ET	P
11-Jan-22	NEL	2	3.390	WINTER	32166	3RS ET	S

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE	P/S
11-Jan-22	NEL	3	5.510	WINTER	32166	3RS ET	S
11-Jan-22	NEL	4	0.800	WINTER	32166	3RS ET	S
12-Jan-22	NWL	2	12.600	WINTER	32166	3RS ET	P
12-Jan-22	NWL	3	50.400	WINTER	32166	3RS ET	P
12-Jan-22	NWL	2	3.300	WINTER	32166	3RS ET	S
12-Jan-22	NWL	3	8.600	WINTER	32166	3RS ET	S
13-Jan-22	SWL	2	38.742	WINTER	32166	3RS ET	P
13-Jan-22	SWL	3	14.940	WINTER	32166	3RS ET	P
13-Jan-22	SWL	2	13.268	WINTER	32166	3RS ET	S
13-Jan-22	SWL	3	2.260	WINTER	32166	3RS ET	S
19-Jan-22	SWL	2	26.240	WINTER	32166	3RS ET	P
19-Jan-22	SWL	3	21.930	WINTER	32166	3RS ET	P
19-Jan-22	SWL	4	5.500	WINTER	32166	3RS ET	P
19-Jan-22	SWL	2	10.780	WINTER	32166	3RS ET	S
19-Jan-22	SWL	3	3.510	WINTER	32166	3RS ET	S
19-Jan-22	SWL	4	1.920	WINTER	32166	3RS ET	S

Notes: CWD monitoring survey data of the two preceding survey months 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.	P/S
3-Nov-21	1	1102	CWD	1	WL	2	63	ON	3RS ET	22.2610	113.8531	AUTUMN	NONE	S
3-Nov-21	2	1140	CWD	2	WL	2	229	ON	3RS ET	22.2414	113.8311	AUTUMN	NONE	P
3-Nov-21	3	1248	CWD	1	WL	4	75	ON	3RS ET	22.1869	113.8395	AUTUMN	NONE	P
4-Nov-21	1	1038	CWD	3	WL	2	87	ON	3RS ET	22.2664	113.8593	AUTUMN	NONE	S
4-Nov-21	2	1101	CWD	7	WL	2	296	ON	3RS ET	22.2603	113.8428	AUTUMN	NONE	P
4-Nov-21	3	1154	CWD	6	WL	2	286	ON	3RS ET	22.2244	113.8372	AUTUMN	NONE	S
4-Nov-21	4	1224	CWD	1	WL	2	171	ON	3RS ET	22.2240	113.8236	AUTUMN	NONE	P
4-Nov-21	5	1242	CWD	5	WL	2	32	ON	3RS ET	22.2142	113.8315	AUTUMN	NONE	P
5-Nov-21	1	1306	FP	2	SWL	3	95	ON	3RS ET	22.1643	113.8970	AUTUMN	NONE	P
11-Nov-21	1	1456	CWD	7	SWL	3	375	ON	3RS ET	22.1853	113.8486	AUTUMN	NONE	P
6-Dec-21	1	1119	FP	1	SWL	3	11	ON	3RS ET	22.1765	113.9280	WINTER	NONE	P
6-Dec-21	2	1504	CWD	3	SWL	3	22	ON	3RS ET	22.1878	113.8497	WINTER	NONE	P
7-Dec-21	1	0945	CWD	1	NWL	2	N/A	OFF	3RS ET	22.3983	113.8873	WINTER	NONE	N/A
15-Dec-21	1	1043	CWD	4	WL	2	471	ON	3RS ET	22.2500	113.8357	WINTER	NONE	P
15-Dec-21	2	1112	CWD	1	WL	2	113	ON	3RS ET	22.2415	113.8315	WINTER	NONE	P
16-Dec-21	1	1333	CWD	5	SWL	2	134	ON	3RS ET	22.1885	113.8880	WINTER	NONE	P
16-Dec-21	2	1448	CWD	1	SWL	2	16	ON	3RS ET	22.1989	113.8685	WINTER	NONE	P
16-Dec-21	3	1507	CWD	3	SWL	2	63	ON	3RS ET	22.1998	113.8622	WINTER	GILLNETTER	S
03-Jan-22	1	0959	CWD	3	NWL	3	868	ON	3RS ET	22.3497	113.8684	WINTER	NONE	P
03-Jan-22	2	1039	CWD	5	NWL	2	466	ON	3RS ET	22.2726	113.8700	WINTER	GILLNETTER	P
03-Jan-22	3	1159	CWD	4	NWL	2	130	ON	3RS ET	22.3693	113.8773	WINTER	NONE	P
03-Jan-22	4	1331	CWD	2	NWL	2	563	ON	3RS ET	22.3616	113.8979	WINTER	NONE	P
05-Jan-22	1	0946	CWD	1	AW	3	262	ON	3RS ET	22.2919	113.8752	WINTER	NONE	P
05-Jan-22	2	1024	CWD	5	WL	2	430	ON	3RS ET	22.2854	113.8614	WINTER	GILLNETTER	P
05-Jan-22	3	1048	CWD	3	WL	2	789	ON	3RS ET	22.2764	113.8512	WINTER	NONE	S
05-Jan-22	4	1052	CWD	3	WL	2	173	ON	3RS ET	22.2749	113.8492	WINTER	NONE	S
05-Jan-22	5	1108	CWD	3	WL	2	295	ON	3RS ET	22.2695	113.8523	WINTER	GILLNETTER	P
05-Jan-22	6	1115	CWD	1	WL	2	8	ON	3RS ET	22.2683	113.8597	WINTER	GILLNETTER	S
05-Jan-22	7	1125	CWD	7	WL	2	178	ON	3RS ET	22.2593	113.8440	WINTER	NONE	P
05-Jan-22	8	1143	CWD	3	WL	2	155	ON	3RS ET	22.2502	113.8373	WINTER	NONE	P
05-Jan-22	9	1159	CWD	1	WL	2	304	ON	3RS ET	22.2448	113.8497	WINTER	GILLNETTER	S
05-Jan-22	10	1233	CWD	4	WL	2	74	ON	3RS ET	22.2323	113.8373	WINTER	NONE	P

DATE	STG #	TIME	CWD/FP	GP SZ	AREA	BEAU	PSD	EFFORT	TYPE	DEC LAT	DEC LON	SEASON	BOAT ASSOC.	P/S
05-Jan-22	11	1253	CWD	3	WL	2	215	ON	3RS ET	22.2236	113.8309	WINTER	NONE	P
05-Jan-22	12	1313	CWD	1	WL	2	240	ON	3RS ET	22.2142	113.8264	WINTER	NONE	P
05-Jan-22	13	1328	CWD	11	WL	2	598	ON	3RS ET	22.2060	113.8393	WINTER	NONE	S
10-Jan-22	1	1017	CWD	1	WL	2	63	ON	3RS ET	22.2759	113.8501	WINTER	NONE	S
10-Jan-22	2	1140	CWD	5	WL	3	331	ON	3RS ET	22.2142	113.8259	WINTER	NONE	P
10-Jan-22	3	1211	CWD	8	WL	3	103	ON	3RS ET	22.2059	113.8291	WINTER	NONE	P
13-Jan-22	1	1152	FP	1	SWL	2	40	ON	3RS ET	22.1586	113.9179	WINTER	NONE	P
13-Jan-22	2	1314	FP	3	SWL	2	261	ON	3RS ET	22.1492	113.8923	WINTER	NONE	S
13-Jan-22	3	1433	CWD	5	SWL	2	366	ON	3RS ET	22.1978	113.8685	WINTER	NONE	P
19-Jan-22	1	1337	FP	2	SWL	3	43	ON	3RS ET	22.1859	113.8977	WINTER	NONE	P
19-Jan-22	2	1453	CWD	5	SWL	3	38	ON	3RS ET	22.1827	113.8592	WINTER	NONE	P

Abbreviations: STG# = Sighting Number; GP SZ = 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; P/S = Primary Transect / Secondary Transect

Notes:

CWD monitoring survey data of the two preceding survey months are presented for reference only. No relevant figure or text will be mentioned in this 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 encounter rates STG and ANI in the whole survey area (NEL, NWL, AW, WL, SWL):

A total of 416.288 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 84 dolphins from on-effort sightings were collected under such condition. Calculation of the encounter rates in January 2022 are shown as below:

Encounter Rate by Number of Dolphin Sightings (STG) in January 2022

$$STG = \frac{22}{416.288}\ x\ 100 = 5.28$$

Encounter Rate by Number of Dolphins (ANI) in January 2022

$$ANI = \frac{84}{416.288}\ x\ 100 = 20.18$$

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

A total of 1163.763 km of survey effort was collected under Beaufort Sea State 3 or below with favourable visibility; total no. of 36 on-effort sightings and total number of 133 dolphins from on-effort sightings were collected under such condition. Calculation of the running quarterly encounter rates are shown as below:

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

$$STG = \frac{36}{1163.763}\ x\ 100 = 3.09$$

Running Quarterly Encounter Rate by Number of Dolphins (ANI)

$$ANI = \frac{133}{1163.763}\ x\ 100 = 11.43$$

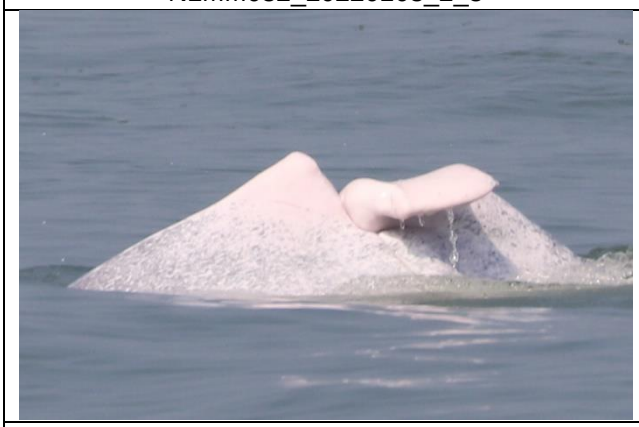
CWD Small Vessel Line-transect Survey **Photo Identification**

WLMM027_20220103_2_6

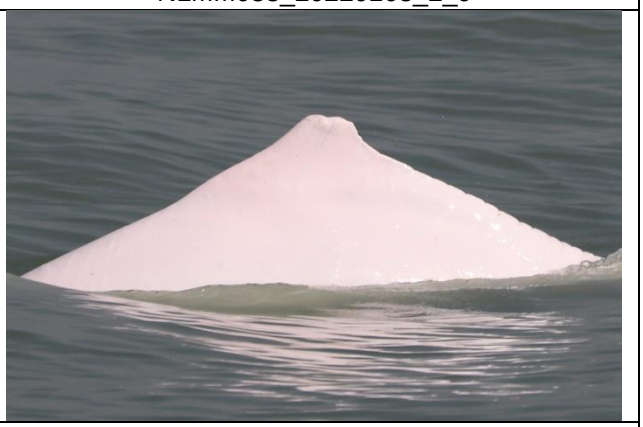
WLMM131_20220103_2_1

NLMM082_20220103_2_8

NLMM083_20220103_2_9



NLMM016_20220103_3_1



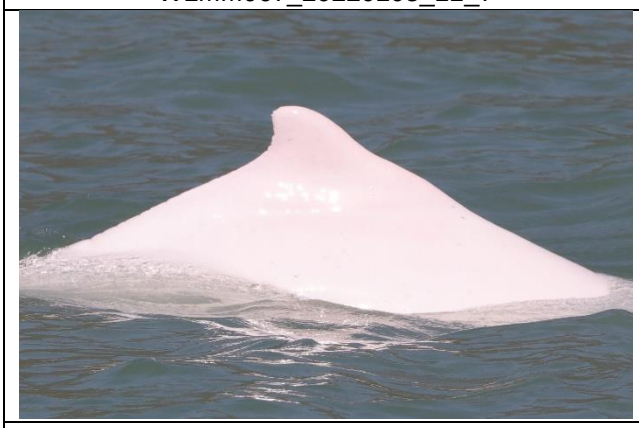
NLMM063_20220103_3_2

WLMM065_20220103_3_5

SLMM030_20220105_1_6

	
SLMM055_20220105_2_1	WLMM027_20220105_2_10
	
WLMM165_20220105_2_5	WLMM095_20220105_4_1
	
SLMM055_20220105_5_3	WLMM065_20220105_5_2
	
WLMM065_20220105_6_1	WLMM003_20220105_7_1

	
WLMM073_20220105_7_1	WLMM118_20220105_7_1
	
SLMM044_20220105_8_2	WLMM003_20220105_8_2
	
SLMM007_20220105_10_7	SLMM052_20220105_10_10
	
SLMM073_20220105_10_3_Left	WLMM001_20220105_10_6

	
WLMM067_20220105_11_7	SLMM007_20220105_13_9
	
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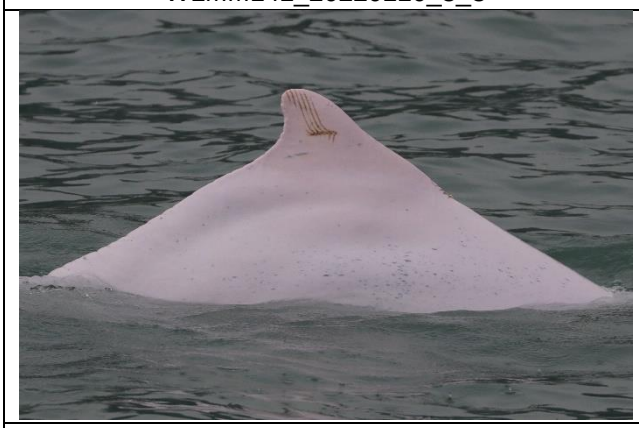
SLMM044_20220105_13_7	SLMM049_20220105_13_4
	
SLMM073_20220105_13_7	WLMM001_20220105_13_8

	
WLMM003_20220105_13_5	WLMM118_20220105_13_3
	
WLMM171_20220105_13_13	WLMM079_20220110_2_1
	
SLMM007_20220110_3_4	SLMM010_20220110_3_5
	
SLMM029_20220110_3_5	SLMM073_20220110_3_1

	
WLMM141_20220110_3_3	SLMM037_20220113_3_2
	
WLMM001_20220113_3_2	WLMM114_20220113_3_9
	
SLMM007_20220119_2_1	SLMM064_20220119_2_6
	
WLMM067_20220119_2_2	

CWD Land-based Theodolite Tracking Survey

CWD Groups by Survey Date

Date	Station	Start Time	End Time	Duration	Beaufort Range	Visibility	No. of Focal Follow Dolphin Groups Tracked	Dolphin Group Size Range
17/Jan/22	Sha Chau	10:42	16:42	6:00	2	3	0	-
24/Jan/22	Lung Kwu Chau	9:28	15:28	6:00	2	3-4	0	-

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

Appendix D. Calibration Certificates

專業化驗有限公司
QUALITY PRO TEST-CONSULT LIMITED
Unit 10, 14/F, Wah Wai Centre, 38-40 Au Pui Wan St., Fotan, Hong Kong
Email: info@qualityprotest.com; Website: www.qualityprotest.com
Tel: (852) 3956 8717; Fax: (852) 3956 3928

REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. : R-BB010018
Date of Issue : 10 January 2022

PART A - CUSTOMER INFORMATION

Enovative Environmental Service Ltd.
Flat 2207, Yu Fun House Yu Chui Court, Shatin
New Territories (HK) Hong Kong
Attn :

PART B - SAMPLE INFORMATION

Name of Equipment :	Titrette® bottle-top burette, 50mL
Manufacturer :	BRAND
Serial Number :	10N64701
Date of Received :	06 January 2022
Date of Calibration :	07 January 2022
Date of Next Calibration :	06 April 2022

PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

Test Parameter	Reference Method
Accuracy Test	In-house Method (Gravimetric Method)

PART D - CALIBRATION RESULT

(1) Accuracy Test

TRIAL	TESTED VOLUME (INTERNAL)	RANGE (1-4)	TESTED VOLUME (INTERNAL)	RANGE (16-19)	TESTED VOLUME (INTERNAL)	RANGE (23-26)	TESTED VOLUME (INTERNAL)	RANGE (34-37)	TESTED VOLUME (INTERNAL)	RANGE (42-45)
No	Weight of Water(g)	Volume, V (mL)	Weight of Water(g)	Volume, V (mL)	Weight of Water(g)	Volume, V (mL)	Weight of Water(g)	Volume, V (mL)	Weight of Water(g)	Volume, V (mL)
1	2.9935	3.0034	2.9886	2.9985	2.9951	3.005	2.9879	2.9978	2.9866	2.9965
2	2.9973	3.0072	2.9919	3.0018	2.9930	3.0029	2.9900	2.9999	2.9934	3.0033
3	2.9867	2.9966	2.9914	3.0013	2.9882	2.9981	2.9932	3.0031	2.9842	2.9940
4	2.9828	2.9926	2.9968	3.0067	2.9984	3.0083	2.9882	2.9981	2.9894	2.9993
5	2.9868	2.9967	2.9873	2.9972	2.9895	2.9994	2.9854	2.9953	2.9894	2.9993
6	2.9892	2.9991	2.9922	3.0021	2.9875	2.9974	2.9867	2.9966	2.9847	2.9945
7	2.9874	2.9973	2.9948	3.0047	2.9910	3.0009	2.9911	3.0010	2.9915	3.0014
8	2.9921	3.0020	2.9837	2.9935	2.9943	3.0042	2.9843	2.9941	2.9897	2.9996
9	2.9924	3.0023	2.9896	2.9995	2.9976	3.0075	2.9835	2.9933	2.9843	2.9941
10	2.9868	2.9967	2.9923	3.0022	2.9922	3.0021	2.9966	3.0065	2.9866	2.9965
Average	2.9895	2.9994	2.9909	3.0007	2.9927	3.0026	2.9887	2.9986	2.988	2.9978
SD	0.0043		0.0038		0.0037		0.0041		0.0032	
Accuracy	-0.0212		0.0243		0.0852		-0.0482		-0.072	
RSD, %	0.1422		0.125		0.1244		0.1372		0.1062	

Tolerance of Accuracy Test should be less than ± 1.0 (%)

--- CONTINUED ON NEXT PAGE ---

AUTHORIZED SIGNATORY:

LEE Chun-ning
Assistant Manager (Chemical Testing)

專業化驗有限公司
QUALITY PRO TEST-CONSULT LIMITED
Unit 10, 14/F, Wah Wai Centre, 38-40 Au Pui Wan St., Fotan, Hong Kong
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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Acceptance Criteria:
Accuracy: <±1%
Precision (RSD): <1%

Environmental conditions of the calibration:
Water temperature: 24.7°C
Relative humidity: 54%
Z-Factor: 1.0030
Nominal volume: 3.0ml

Remark(s)

·The "Date of Next Calibration" is recommended according to best practice principals as practiced by QPT or quoted form relevant international standards.

·The results relate only to the calibrated equipment as received

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

·The "Tolerance Limit" mentioned is the acceptance criteria applicable for similar equipment used by Quality Pro Test-Consult Ltd. or quoted form relevant international standards.

· All chemical and microbiological tests were performed at unit 10-5/F and unit 10-14/F respectively of the company address stated above.

--- END OF REPORT ---

Appendix E. Status of Environmental Permits and Licenses

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

Contract No.	Description	Location	Permit/ Reference No.	Status
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-RS0757-21	Valid from 6 Oct 2021 to 2 Apr 2022
	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
	Discharge License under WPCO	Works area of 3301	WT00029286-2017	Valid from 20 Sep 2017 to 30 Sep 2022
	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	GW-RS0631-21	Valid from 22 Aug 2021 to 21 Feb 2022
		Works area of 3301 (Cable ducting works) (Special Case)	GW-RS0744-21	Valid from 2 Oct 2021 to 29 Mar 2022
3302	Notification of Construction Work under APCO	Works area of 3302	440222	Receipt acknowledged by EPD on 10 Dec 2018
		Staging area of 3302	2018CES1	Receipt acknowledged by EPD on 21 Dec 2018
			454882	Receipt acknowledged by EPD on 2 Apr 2020
			476068	Receipt acknowledged by EPD on 17 Jan 2022

Contract No.	Description	Location	Permit/ Reference No.	Status
	Registration as Chemical Waste Producer	Works area of 3302	5296-951-C4331-01	Completion of Registration on 4 Jan 2019
	Discharge License under WPCO	Works area of 3302	WT00034539-2019	Valid from 11 Mar 2020 to 31 Mar 2025
		Works area of 3302	WT00034541-2019	Valid from 14 Oct 2019 to 31 Oct 2024
	Bill Account for disposal	Works area of 3302	A/C 7032881	Approval granted from EPD on 8 Jan 2019
	Construction Noise Permit (General Works)	Works area of 3302	GW-RS0842-21	Valid from 10 Nov 2021 to 8 May 2022
			GW-RS0501-21	Superseded by GW-RS1005-21
			GW-RS1005-21	Valid from 7 Jan 2022 to 6 Jul 2022
3303	Notification of Construction Work under APCO	Works area of 3303	445611	Receipt acknowledged by EPD on 27 May 2019
	Specified Process license under APCO	Works area of 3303	L-15-040 (1)	Valid from 29 Mar 2021 to 28 Mar 2025
	Registration as Chemical Waste Producer	Works area of 3303	5213-951-S4174-01	Completion of Registration on 17 Jun 2019
	Discharge License under WPCO	Works area of 3303	WT00035689-2020	Valid from 11 May 2020 to 31 May 2025
		Works area of 3303	WT00036734-2020	Valid from 1 Dec 2020 to 31 Dec 2025
	Bill Account for disposal	Works area of 3303	A/C 7034272	Approval granted from EPD on 10 Jun 2019
	Construction Noise Permit (General Works)	Works area of 3303 (Existing airport)	GW-RS0823-21	Valid from 16 Nov 2021 to 15 May 2022
		Works area of 3303 (Reclamation area)	GW-RS0803-21	Valid from 29 Oct 2021 to 26 Apr 2022
3305	Notification of Construction Work under APCO	Works area of 3305	460857	Receipt acknowledged by EPD on 12 Oct 2020
	Registration as Chemical Waste Producer	Works area of 3305	5213-951-A3024-01	Completion of Registration on 13 Nov 2020
	Bill Account for disposal	Works area of 3305	A/C 7035360	Approval granted from EPD on 9 Oct 2019
3306	Registration as Chemical Waste Producer	Works area of 3306	8335-951-C4434-01	Completion of Registration on 1 Apr 2020
	Bill Account for disposal	Works area of 3306	A/C 7035868	Approval granted from EPD on 27 Nov 2019
3307	Notification of Construction Work under APCO	Works area of 3307	454964	Receipt acknowledged by EPD on 6 Apr 2020
	Registration as Chemical Waste Producer	Works area of 3307	5211-951-P3379-01	Completion of Registration on 8 Jun 2020
	Discharge License under WPCO	Works area of 3307	WT00036926-2020	Valid from 31 Dec 2020 to 31 Dec 2025

Contract No.	Description	Location	Permit/ Reference No.	Status
	Bill Account for disposal	Works area of 3307	A/C 7037129	Approval granted from EPD on 5 May 2020
	Construction Noise Permit (General Works)	Works area of 3307	GW-RS0562-21	Valid from 6 Aug 2021 to 5 Feb 2022
3308	Bill Account for disposal	Works area of 3308	A/C 7038988	Approval granted from EPD on 24 Nov 2020
	Construction Noise Permit (General Works)	Works area of 3308	GW-RS0655-21	Valid from 2 Sep 2021 to 28 Feb 2022
3310	Notification of Construction Work under APCO	Works area of 3310	474782	Receipt acknowledged by EPD on 10 Dec 2021
	Registration as Chemical Waste Producer	Works area of 3310	5213-951-C4682-01	Completion of Registration on 21 Dec 2021
	Discharge License under WPCO	Works area of 3310	WT00039654-2021	Valid from 31 Dec 2021 to 31 Dec 2026
	Bill Account for disposal	Works area of 3310	A/C 7042793	Approval granted from EPD on 4 Jan 2022
	Construction Noise Permit (General Works)	Works area of 3310	GW-RS1038-21	Valid from 28 Dec 2021 to 27 Jun 2022
3403	Notification of Construction Work under APCO	Works area of 3403	450860	Receipt acknowledged by EPD on 11 Nov 2019
		Works area of 3403 (with Area 17 and Area 15)	475369	Receipt acknowledged by EPD on 28 Dec 2021
	Registration as Chemical Waste Producer	Works area of 3403	WPN 5213-951-S4218-01	Completion of Registration on 9 Jan 2020
	Discharge License under WPCO	Works area of 3403	WT00035841-2020	Valid from 5 Jun 2020 to 30 Jun 2025
	Bill Account for disposal	Works area of 3403	A/C 7035267	Approval granted from EPD on 30 Sep 2019
	Construction Noise Permit (General Works)	Works area of 3403	GW-RS0653-21	Valid from 4 Sep 2021 to 28 Feb 2022
	Construction Noise Permit (Special Case)	Works area of 3403	GW-RS0909-21	Valid from 1 Dec 2021 to 31 May 2022
3404	Bill Account for disposal	Works area of 3404	A/C 7035158	Approval granted from EPD on 12 Sep 2019
3405	Notification of Construction Work under APCO	Works area of 3405	453447	Receipt acknowledged by EPD on 18 Feb 2020
	Registration as Chemical Waste Producer	Works area of 3405	WPN 5218-951-C4431-01	Completion of Registration on 12 Mar 2020
	Discharge License under WPCO	Works area of 3405	WT00037084-2020	Valid from 17 Mar 2021 to 31 Mar 2026
	Bill Account for disposal	Works area of 3405	A/C 7036796	Approval granted from EPD on 20 Mar 2020
	Construction Noise Permit (General Works)	Works area of 3405	GW-RS0966-21	Valid from 13 Dec 2021 to 12 Jun 2022

Contract No.	Description	Location	Permit/ Reference No.	Status
3408	Notification of Construction Work under APCO	Works area of 3408	461958	Receipt acknowledged by EPD on 17 Nov 2020
	Registration as Chemical Waste Producer	Works area of 3408	WPN 5218-951-B2621-01	Completion of Registration on 16 Jul 2021
	Discharge License under WPCO	Works area of 3408	WT00038836-2021	Valid from 27 Sep 2021 to 30 Sep 2026
	Bill Account for disposal	Works area of 3408	A/C 7039063	Approval granted from EPD on 2 Dec 2020
	Construction Noise Permit (General Works)	Works area of 3408	GW-RS0818-21	Valid from 29 Oct 2021 to 31 Mar 2022 Superseded by GW-RS0020-22 on 15 Jan 2022
		Works area of 3408	GW-RS0020-22	Valid from 15 Jan 2022 to 30 Jun 2022
3503	Notification of Construction Work under APCO	Works area of 3503	459394	Receipt acknowledged by EPD on 28 Aug 2020
		Stockpiling area of 3503	459392	Receipt acknowledged by EPD on 28 Aug 2020
	Bill Account for disposal	Works area of 3503	A/C 7029665	Approval granted from EPD on 27 Dec 2017
3508	Notification of Construction Work under APCO	Works area of 3508	459017	Receipt acknowledged by EPD on 19 Aug 2020
			459469	Receipt acknowledged by EPD on 4 Sep 2020
		Works area of 3508 (Area J)	467132	Receipt acknowledged by EPD on 3 May 2021
	Registration as Chemical Waste Producer	Works area of 3508	WPN-5218-951-G2898-01	Completion of Registration on 28 Sep 2020
	Discharge License under WPCO	Works area of 3508	WT00037209-2020	Valid from 11 Mar 2021 to 31 Mar 2026
			WT00037523-2021	Valid from 1 Apr 2021 to 30 Apr 2026
			WT00037225-2020	Valid from 1 Apr 2021 to 30 Apr 2026
			WT00037549-2021	Valid from 1 Apr 2021 to 30 Apr 2026
	Bill Account for disposal	Works area of 3508	7038224	Approval granted from EPD on 8 Sep 2020
	Construction Noise Permit (General Works)	Works area of 3508	GW-RS0979-21	Valid from 19 Dec 2021 to 31 May 2022
		Works area of 3508	GW-RS0778-21	Valid from 15 Oct 2021 to 12 Apr 2022
		Works area of 3508 (Area 10)	GW-RS0016-22	Valid from 9 Jan 2022 to 3 Jul 2022
		Works area of 3508 (Special Case)	GW-RS0963-21	Valid from 17 Dec 2021 to 27 May 2022
		Works area of 3508 (Special Case)	GW-RS0862-21	Valid from 13 Nov 2021 to 19 May 2022
		Works area of 3508 (Area 13)	GW-RS0999-21	Valid from 25 Dec 2021 to 31 May 2022

Contract No.	Description	Location	Permit/ Reference No.	Status
3601	Notification of Construction Work under APCO	Works area of 3601	451762	Receipt acknowledged by EPD on 10 Dec 2019
	Registration as Chemical Waste Producer	Works area of 3601	WPN 7119-951-C4421-01	Completion of Registration on 9 Jan 2020
	Bill Account for disposal	Works area of 3601	A/C 7029991	Approval granted from EPD on 1 Feb 2018
	Construction Noise Permit (General Works)	Works area of 3601	GW-RS0899-21	Valid from 1 Dec 2021 to 31 May 2022
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
	Construction Noise Permit (General Works)	Works area of 3602	GW-RS0650-21	Valid from 1 Oct 2021 to 1 Mar 2022
3603	Notification of Construction Work under APCO	Site office of 3603	433604	Receipt acknowledged by EPD on 16 May 2018
	Registration as Chemical Waste Producer	Site office of 3603	5296-951-S4069-01	Completion of Registration on 22 Jan 2018
		Test Loop Site of 3603	8334-512-S4273-01	Completion of Registration on 17 Sep 2020
	Bill Account for disposal	Works area of 3603	A/C 7030002	Approval granted from EPD on 1 Feb 2018
	Construction Noise Permit (General Works)	Works area of 3603	GW-RS0878-21	Valid from 24 Nov 2021 to 23 May 2022
3721	Notification of Construction Work under APCO	Works area of 3721	448657	Receipt acknowledged by EPD on 02 Sep 2019
	Registration as Chemical Waste Producer	Works area of 3721	WPN 5218-951-C4412-01	Completion of Registration on 9 Dec 2019
	Bill Account for disposal	Works area of 3721	A/C 7035234	Approval granted from EPD on 25 Sep 2019
	Construction Noise Permit (General Works)	Works area of 3721	GW-RS0748-21	Valid from 6 Oct 2021 to 6 Mar 2022
		Works area of 3721	GW-RS0058-22	Valid from 31 Jan 2022 to 30 Jun 2022
3723	Notification of Construction Work under APCO	3723A	464440	Receipt acknowledged by EPD on 9 Feb 2021
		3723B	464444	Receipt acknowledged by EPD on 9 Feb 2021
		3723A	WPN 5218-951-T3920-01	Completion of Registration on 9 Feb 2021

Contract No.	Description	Location	Permit/ Reference No.	Status
	Registration as Chemical Waste Producer	3723B	WPN 5218-951-T3921-01	Completion of Registration on 9 Feb 2021
	Discharge License under WPCO	Works area of 3723A & 3723B	WT00039451-2021	Valid from 28 Oct 2021 to 31 Oct 2023
	Bill Account for disposal	Works area of 3723A	A/C 7039755	Approval granted from EPD on 24 Feb 2021
		Works area of 3723B	A/C 7039754	Approval granted from EPD on 24 Feb 2021
	Construction Noise Permit (General Works)	Works area of 3723A & 3723B	GW-RS0697-21	Valid from 16 Sep 2021 to 13 Mar 2022
		Works area of 3723A & 3723B	GW-RS1013-21	Valid from 14 Jan 2022 to 13 Jul 2022
3728	Registration as Chemical Waste Producer	Works area of 3728	WPN 5111-951-S3467-03	Completion of Registration on 7 May 2021
	Discharge License under WPCO	Works area of 3728	WT00037809-2021	Valid from 27 Jul 2021 to 31 Jul 2026
	Bill Account for disposal	Works area of 3728	A/C 7039409	Approval granted from EPD on 22 Jan 2021
3733	Notification of Construction Work under APCO	Works area of 3733	472772	Receipt acknowledged by EPD on 18 Oct 2021
	Registration as Chemical Waste Producer	Works area of 3733	474728	Receipt acknowledged by EPD on 9 Dec 2021
	Bill Account for disposal	Works area of 3733	7041945	Approval granted from EPD on 21 Oct 2021
3801	Notification of Construction Work under APCO	Works area of 3801	430372	Receipt acknowledged by EPD on 2 Feb 2018
			435652	Receipt acknowledged by EPD on 16 Jul 2018
			451991	Receipt acknowledged by EPD on 18 Dec 2019
		Stockpiling area of 3801	450940	Receipt acknowledged by EPD on 13 Nov 2019
	Registration as Chemical Waste Producer	Works area of 3801	WPN 5296-951-C1169-53	Completion of Registration on 14 Aug 2018
	Discharge License under WPCO	Works and stockpiling area of 3801	WT00029535-2017	Valid from 30 Jul 2019 to 30 Nov 2022
		Stockpiling area of 3801	WT00037354-2021	Valid from 8 Mar 2021 to 31 Mar 2026
	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 area of 3801	GW-RS0634-21	Valid from 27 Aug 2021 to 26 Feb 2022
3802	Notification of Construction Work under APCO	Works area of 3802	458122	Receipt acknowledged by EPD on 14 Jul 2020
		Works area of 3802	WPN 5218-951-G2895-01	Completion of Registration on 28 Aug 2020

Contract No.	Description	Location	Permit/ Reference No.	Status
	Registration as Chemical Waste Producer	Works area of 3802 (Existing Airport)	WPN 5218-951-G2945-01	Completion of Registration on 29 Sep 2020
	Discharge License under WPCO	Works area of 3802	WT00037032-2020	Valid from 25 May 2021 to 31 May 2026
		Works area of 3802	WT00039092-2021	Valid from 30 Nov 2021 to 31 Nov 2026
	Bill Account for disposal	Works area of 3802	A/C 7037575	Approval granted from EPD on 15 Jun 2020
	Construction Noise Permit (General Works)	Works area of 3802	GW-RS0959-21	Valid from 13 Dec 2021 to 12 Jun 2022
		Works area of 3802	GW-RS0888-21	Valid from 29 Nov 2021 to 19 May 2022
3901A	Notification of Construction Work under APCO	Works area of 3901A	466883	Receipt acknowledged by EPD on 26 Apr 2021
	Air Pollution Control (Furnaces, Ovens and Chimneys) (Installation and Alteration) Regulations	Works area of 3901A	EP/RS/0000443 053	Approval granted on 11 Dec 2020
	Specified Process license under APCO	Works area of 3901A	L-3-261(1)	Valid from 14 Sep 2020 to 13 Sep 2024
	Registration as Chemical Waste Producer	Works area of 3901A	WPN 5218-951-K3400-01	Completion of Registration on 17 Jul 2020
	Landfill disposal of waste concrete from batching plant	Works area of 3901A	EP195/01/18	Valid from 5 May 2021 to 2 Feb 2022
	Bill Account for disposal	Works area of 3901A	A/C 7037889	Approval granted from EPD on 20 Jul 2020
	Construction Noise Permit (General Works)	Works area of 3901A	GW-RS0597-21	Valid from 7 Aug 2021 to 4 Feb 2022
3901B	Notification of Construction Work under APCO	Works area of 3901B	466885	Receipt acknowledged by EPD on 26 Apr 2021
	Air Pollution Control (Furnaces, Ovens and Chimneys) (Installation and Alteration) Regulations	Works area of 3901B	EP/RS/0000438 488	Approval granted on 26 Jun 2020
	Specified Process license under APCO	Works area of 3901B	L-3-262(1)	Valid from 17 Nov 2020 to 16 Nov 2024
	Registration as Chemical Waste Producer	Works area of 3901B	WPN 5218-951-G2880-01	Completion of Registration on 17 Jan 2020
	Bill Account for disposal	Works area of 3901B	A/C 7032417	Approval granted from EPD on 13 Nov 2018

Contract No.	Description	Location	Permit/ Reference No.	Status
	Construction Noise Permit (General Works)	Works area of 3901B	GW-RS0702-21	Valid from 16 Sep 2021 to 13 Mar 2022

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

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 Prosecutions

Reporting Period	Cumulative Statistics		
	Complaints	Notifications of Summons	Prosecutions
This reporting period	0	0	0
From 28 December 2015 to end of the reporting period	47	2	2