MOTT MACDONALD

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

Construction Phase Monthly EM&A Report No. 70
(For October 2021)

November 2021

Airport Authority Hong Kong

Mott MacDonald
3/F International Trade
Tower
348 Kwun Tong Road
Kwun Tong
Kowloon
Hong Kong

T +852 2828 5757
mottmac.hk

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Construction Phase Monthly EM&A Report No. 70 (For October 2021)

November 2021

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

Airport Authority Hong Kong

This Monthly EM&A Report No. 70 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 12 November 2021

AECOM
12/F, Grand Central Plaza, Tower 2, 138 Shatin Rural Committee Road, Shatin, Hong Kong
香港新界沙田鄉事會路 138 號新城市中央廣場第 2 座 12 樓
www.aecom.com

+852 3922 9000 tel
+852 3922 9797 fax

Our Ref : 60440482/C/JCHL211112

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

12 November 2021

Dear Sir,

Contract No. 3102
3RS Independent Environmental Checker Consultancy Services

Submission of Monthly EM&A Report No. 70 (October 2021)

Reference is made to the Environmental Team's submission of the Monthly EM&A Report No. 70 under Condition 3.5 of the Environmental Permit No. EP-489/2014 certified by the ET Leader on 12 November 2021.

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 70th 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 October 2021.

Key Activities in the Reporting Period

The key activities of the Project carried out in the reporting period included reclamation works and land-based works. Works in the reclamation areas included marine filling, seawall and facilities construction, together with runway and associated works such as bored piling for approach lights. Land-based works on existing airport island involved mainly airfield works, foundation and substructure work for Terminal 2 expansion, modification and tunnel work for Automated People Mover (APM) and Baggage Handling System (BHS), and preparation work for utilities, with activities include site establishment, site office construction, 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	16
Water quality monitoring	11
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 Lung Kwu Chau	Scrap Metals generated were Sorted On-site and Transported to Metal Recycler for Recycling	Chemical Spill Drill conducted by Contractor

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 Level, 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

- Land-based ground improvement works; and
- Seawall construction.

Airfield Works

Contract 3301 North Runway Crossover Taxiway

- Cable ducting works; and
- Paving works.

Contract 3302 Eastern Vehicular Tunnel Advance Works

- Piling and structure works;
- Ducting works; and
- Backfilling and reinstatement works.

Contract 3303 Third Runway and Associated Works

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

- Cabling works;
- Consoles installation; and
- System and network installation.

Contract 3307 Fire Training Facility

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

Contract 3308 Foreign Object Debris Detection System

- Site formation; and
- Footing works.

Contract 3310 North Runway Modification Works

- Ground improvement works; and
- Piling work

Third Runway Concourse:

Contract 3403 New Integrated Airport Centres Building and Civil Works

- Architectural, Builder's Work and Finishing works;
- Excavation works;
- Footing works; and
- Underground utilities construction.

Contract 3404 Integrated Airport Control System

- Cable laying.

Contract 3405 Third Runway Concourse Foundation and Substructure Works

- Foundation works;
- Piling work;
- 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 3503 Terminal 2 Foundation and Substructure Works

- T2 re-configuration;
- Excavation works;
- Utilities road works; and
- Piling and structure works.

Contract 3508 Terminal 2 Expansion Works

- Excavation and footing construction;
- Site formation;
- Drainage works;
- Piling work; and
- Builders' 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
- Concreting work.

Contract 3603 Baggage Handling System (BHS)

- BHS installation; and
- Dismantling works.

Construction Support (Facilities):

Contract 3721 Construction Support Infrastructure Works

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

Contract 3722 Construction Support Facilities

- Clearance works

Contract 3723 Construction Support Facilities

- Erection of site office;
- Electrical and mechanical installation; and
- Builders' works.

Airport Support Infrastructure:

Contract 3801 APM and BHS Tunnels on Existing Airport Island

- Excavation and lateral support works; and
- Drainage works.

Contract 3802 APM and BHS Tunnels and Related Works

- Construction of Airside Fire Station and marine sediment treatment plant;
- Installation of sheet pipes and dewatering well;
- Pre-drilling;
- Ground investigation works; and
- Ducting works.

Construction Support (Services / Licences):

Contract 3901A Concrete Batching Facility

- Operation of concrete batching plant; and

- Material conveyor belt construction.

Contract 3901B Concrete Batching Facility

- Operation of concrete batching plant; and
- Superstructure works 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	√		A complaint regarding dust issue at 3RS construction site area was received on 6 October 2021.	ET requested the relevant contractors to provide information related to the complaint. Regular site inspections and ad-hoc inspection were conducted in which no item related to insufficient water spraying was recorded. The contractors were reminded to continue implementing dust suppression measures, especially sufficient water spraying at the site area in accordance with the implementation schedule in the EM&A Manual. Hence, the case was considered closed.
			A complaint regarding dust issue at 3RS construction site area near northeastern quay bus station was received on 28 October 2021.	The complaint is under investigation. Findings will be reported in the next Monthly EM&A Report.
Notification of any summons and status of prosecutions	√		A contractor reported in October 2021 that they had pleaded guilty in court regarding a dust control emission incident for reclamation works in April 2021.	Nil
Change that affect the EM&A		√	There was no change to the construction works that may affect the EM&A.	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**. Description of relevant contracts was presented in **Appendix A**.

1.2 Scope of this Report

This is the 70th 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 October 2021.

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 Leader	Heidi Yu	2828 5704
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	Billy To	9056 6300
Contract 3307 Fire Training Facility (Paul Y. Construction Company Limited)	Project Manager	Steven Meredith	6109 1813
	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. - Fujita Corporation Joint Venture)	Project Manager	Kingsley Chiang	9424 8437
	Environmental Officer	Federick Wong	9842 2703

Third Runway Concourse:

Party	Position	Name	Telephone
Contract 3402 New Integrated Airport Centres Enabling Works (Wing Hing Construction Co., Ltd.)	Contract Manager	Michael Kan	9206 0550
	Environmental Officer	Lisa He	5374 3418
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 3503 Terminal 2 Foundation and Substructure Works (Leighton – Chun Wo Joint Venture)	Project Manager	Eric Wu	3973 1718
	Environmental Officer	Rex Yiu	6465 6861

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) (CRRC Puzhen Bombardier Transportation Systems Limited and CRRC Nanjing Puzhen Co., Ltd. Joint Venture)	Project Manager	Hongdan Wei	158 6180 9450
	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	Xavier Lam	9493 2944
Contract 3722 Western Support Area – Construction Support Facilities (Tapbo Construction Company Limited and Konwo Modular House Limited Joint Venture)	Deputy Project Director	Philip Kong	9337 8700
	Environmental Officer	Eddie Suen	6338 8862
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

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
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 included reclamation works and land-based works. Works in the reclamation areas included seawall and facilities construction, together with runway and associated works such as bored piling for approach lights. Land-based works on existing airport island involved mainly airfield works, foundation and substructure work for Terminal 2 expansion, modification and tunnel work for APM and BHS systems, and preparation work for utilities, with activities include site establishment, site office construction, road and drainage works, cable ducting, demolition of existing facilities, piling, and excavation works.

The locations of key construction activities are presented in **Figure 1.1**.

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

Parameters	EM&A Requirements	Status
		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.
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.	Due to the completion of all marine-based DCM works within May 2021, regular DCM monitoring is ceased at all monitoring stations starting from 24 June 2021 and would be resumed if there are marine-based DCM works in the coming future.
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.

Parameters	EM&A Requirements	Status
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 Passive Acoustic Monitoring (PAM): For the whole duration of baseline period.	Baseline CWD results were reported in the CWD Baseline Monitoring Report and submitted to EPD in accordance with EP Condition 3.4.
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:

- Three skipper training sessions provided by ET: 6, 12 and 27 October 2021.
- Seventeen environmental management meetings for EM&A review with works contracts: 7, 8, 18, 19, 20, 22, 25, 26, 28 and 29 October 2021.

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 B**.

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	**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 C**. Monitoring session on 8 October 2021 was rescheduled to 11 October 2021 due to Strong Wind Signal No.3 in force; and the monitoring session on 13 October 2021 was rescheduled to 16 October 2021 due to No. 8 Northeast Gale or Storm Signal in force.

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

Table 2.4: Summary of Air Quality Monitoring Results

Monitoring Station	1-hr TSP Concentration Range ($\mu g/m^3$)	Action Level ($\mu g/m^3$)	Limit Level ($\mu g/m^3$)
AR1A	25 - 177	306	500
AR2	16 - 144	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 C**. Some of the monitoring sessions were rescheduled due to adverse weather: the monitoring session on 8 October 2021 was rescheduled to 11 October 2021 and the session on 12 October 2021 was rescheduled to 15 October 2021 due to Strong Wind Signal No.3 in force; and the noise

monitoring session on 13 October 2021 was rescheduled to 16 October 2021 due to No. 8 Northeast Gale or Storm Signal in force.

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

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 - 72	75
NM4(1)	61 - 66	70(2)
NM5(1)	52 - 59	75
NM6(1)(3)	65 - 68	75

Notes:

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

(2) Reduced to 65dB(A) during school examination periods at NM4. No school examination took place 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, school activities at NM4 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 and suspended solids (SS) 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). **Table 4.1** describes the details of the monitoring stations. **Figure 4.1** shows the locations of the monitoring stations.

Table 4.1: Monitoring Locations of Impact Water Quality Monitoring

Monitoring Station	Description	Coordinates	
		Easting	Northing
C1	Control Station	804247	815620
C2	Control Station	806945	825682
C3[(2)]	Control Station	817803	822109
IM1	Impact Station	807132	817949
IM2	Impact Station	806166	818163
IM3	Impact Station	805594	818784
IM4	Impact Station	804607	819725
IM5	Impact Station	804867	820735
IM6	Impact Station	805828	821060
IM7	Impact Station	806835	821349
IM8	Impact Station	808140	821830
IM9	Impact Station	808811	822094
IM10	Impact Station	809794	822385
IM11	Impact Station	811460	822057
IM12	Impact Station	812046	821459
SR1A[(1)]	Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities (HKBCF) Seawater Intake for cooling	812660	819977
SR2	Planned marine park / hard corals at The Brothers / Tai Mo To	814166	821463
SR3	Sha Chau and Lung Kwu Chau Marine Park / fishing and spawning grounds in North Lantau	807571	822147
SR4A	Sha Lo Wan	807810	817189
SR5A	San Tau Beach SSSI	810696	816593
SR6A[(3)]	Tai Ho Bay, Near Tai Ho Stream SSSI	814739	817963
SR7	Ma Wan Fish Culture Zone (FCZ)	823742	823636
SR8[(4)]	Seawater Intake for cooling at Hong Kong International Airport (East)	811623	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) 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.

(3) 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.

(4) The monitoring location for SR8 is subject to further changes due to silt curtain arrangements and the progressive relocation of this seawater intake.

4.1 Action and Limit Levels

In accordance with the Manual, baseline water quality levels at the 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 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 are presented in **Table 4.3**.

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

Parameters	Action Level (AL)		Limit Level (LL)	
Action and Limit Levels for general water quality monitoring (excluding SR1A & SR8)				
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	
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.

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

Control Station	Impact Stations
Flood Tide	
C1	IM1, IM2, IM3, IM4, IM5, IM6, IM7, IM8, SR3
SR2[(1)]	IM7, IM8, IM9, IM10, IM11, IM12, SR1A, SR3, SR4A, SR5A, SR6A, SR8
Ebb Tide	
C1	SR4A, SR5A, SR6A
C2	IM1, IM2, IM3, IM4, IM5, IM6, IM7, IM8, IM9, IM10, IM11, IM12, SR1A, SR2, SR3, SR7, 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.

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 Sep 2021	Monthly EM&A Report No. 69, Appendix E
	YSI ProDSS (Serial No. 18A104824)	24 Sep 2021	Monthly EM&A Report No. 69, Appendix E
	YSI ProDSS (Serial No. 15M100005)	22 Oct 2021	**Appendix E**
	YSI ProDSS (Serial No. 16H104233)	27 Aug 2021	Monthly EM&A Report No. 68, Appendix D
	YSI ProDSS (Serial No. 16H104234)	27 Aug 2021	Monthly EM&A Report No. 68, Appendix D
	YSI ProDSS (Serial No. 17H105557) [(1)]	26 Jul 2021	Monthly EM&A Report No. 67, Appendix D

Note:

(1) The monitoring equipment was not used after the expiry date of the calibration certificate (25 Oct 2021).

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

Table 4.5: Other Monitoring Equipment

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

4.3 Monitoring Methodology

4.3.1 Measuring Procedure

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

The water samples for all monitoring parameters were collected, stored, preserved and analysed according to the Standard Methods, APHA 22nd ed. and/or other methods as agreed by the EPD. In-situ measurements at monitoring locations including temperature, pH, DO, turbidity, salinity and water depth were collected by equipment listed in **Table 4.4** and **Table 4.5**. Water samples for 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).

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 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 determination. The SS determination works were started within 24 hours after collection of the water samples. The analysis of SS have followed the standard methods summarised in **Table 4.6**. The QA/QC procedures for laboratory measurement/ analysis of SS were presented in Appendix F of the Construction Phase Monthly EM&A Report No.8.

Table 4.6: Laboratory Measurement/ Analysis of SS

Parameters	Instrumentation	Analytical Method	Reporting Limit
SS	Analytical Balance	APHA 2540D	2mg/l

4.4 Summary of Monitoring Results

The water quality monitoring schedule for the reporting period is updated and provided in **Appendix C**. Monitoring for both ebb and flood tides on 9 October 2021 was cancelled due to No. 8 Southeast Gale or Storm Signal in force, and the monitoring for both ebb and flood tides on 12 October 2021 and monitoring for ebb tide on 14 October were cancelled due to Strong Wind Signal No.3 in force.

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 D**.

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

Table 4.7 to **Table 4.8** present the summary of the SS compliance status at IM and SR stations during mid-ebb and mid-flood 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
02/10/2021																				
05/10/2021																				
07/10/2021																				
16/10/2021																				
19/10/2021																				
21/10/2021																				
23/10/2021			D																	
26/10/2021																				
28/10/2021																				
30/10/2021																				
No. of result triggering Action or Limit Level	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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

	IM1	IM2	IM3	IM4	IM5	IM6	IM7	IM8	IM9	IM10	IM11	IM12	SR1A	SR3	SR4A	SR5A	SR6A	SR7	SR8
02/10/2021																			
05/10/2021																			
07/10/2021								D											
14/10/2021																			
16/10/2021																			
19/10/2021																			
21/10/2021																			
23/10/2021					D														
26/10/2021																			
28/10/2021																			
30/10/2021																			
No. of result triggering Action or Limit Level	0	1	0	1	1	0	0	1	0	0	0	0	0	0	1	0	0	0	0

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

Monitoring results triggered the corresponding Action Levels on two monitoring days. Some cases occurred at monitoring stations upstream of the Project during flood 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.

Investigation focusing on the cases which occurred at monitoring stations located downstream of the Project was 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 4.9**.

Table 4.9: Summary of Findings from Investigation of SS Monitoring Results

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
07/10/2021	No marine construction works	Not applicable	Not applicable	No	No	No
23/10/2021	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 IM3, IM5 and IM8 on 7 and 23 October 2021 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 Levels, investigations were conducted accordingly.

Based on the investigation findings, all 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 B**.

Based on updated information provided by contractors, construction waste generated in the reporting period is summarised in **Table 5.2**. Proactive measures have been undertaken during the re-configuration of T2 building. The contractor has established the recycling strategy for C&D materials with proper planning and design to maximize recycling and reuse. Dedicated recyclers were employed for different kinds of recyclable materials by the contractor, and ET and IEC have carried out site visit to recyclers' faciltities to review recycling process. 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)
September 2021 [2][3]	13,736	72,778	294	4,178	0	0	1,986
October 2021[2][4]	8,018	20,471	24,211	3,910	30	3,400	1,744

Notes:

(1) C&D refers to Construction and Demolition.
(2) Metals, paper and/or plastics were recycled in the reporting period.
(3) Updated figure for the previous month is reported and marked with an asterisk (*). Updated figures for earlier months will be reported in the forthcoming Quarterly and Annual EM&A Reports.
(4) 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 6, 7, 11, 15, 18, 19, 20 and 27 October 2021, covering all transects in NEL, NWL, AW, WL and SWL survey areas for twice.

A total of around 449.98 km of survey effort was collected from these surveys and 350.35 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 D**.

Sighting Distribution

In October 2021, 13 sightings with 40 dolphins were sighted. All these sightings are 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 D**.

Distribution of all CWD sightings recorded in October 2021 is illustrated in **Figure 6.3**. In WL, CWD groups were clustered at waters near Tai O and waters between Yi O and Peaked Hill. While in SWL, the only CWD sighting was spotted at the coastal water near Lo Kei Wan. There was no CWD sighting recorded in NEL and NWL survey areas during the reporting period.

Figure 6.3: Sightings Distribution of Chinese White Dolphins

Remarks: (1) Please note that there are 13 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 October 2021, a total of around 350.35 km of survey effort were conducted under Beaufort Sea State 3 or below with favourable visibility, whilst a total number of 13 on-effort sightings with 40 dolphins were sighted under such condition. Calculation of the encounter rates for the month are shown in **Appendix D**.

For the running quarter of the reporting period (i.e., from August to October 2021), a total of around 1226.52 km of survey effort were conducted under Beaufort Sea State 3 or below with favourable visibility, whilst a total number of 34 on-effort sightings and a total number of 111 dolphins from on-effort sightings were obtained under such condition. Calculation of the running quarterly encounter rates are shown in **Appendix D**.

The STG and ANI of CWD in the whole survey area (i.e. NEL, NWL, AW, WL and SWL) during the month of October 2021 and during the running quarter are presented in **Table 6.4** below and compared with the Action Level. Although the running quarterly encounter rate ANI falls below the Action Level, the Action Level is not triggered as the running quarterly STG remains above the Action Level.

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

	Encounter Rate (STG)	Encounter Rate (ANI)
October 2021	3.71	11.42
Running Quarter from August to October 2021(1)	2.77	9.05
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 August to October 2021, 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 October 2021, 13 groups of 40 dolphins in total were sighted, and the average group size of CWDs was 3.1 dolphins per group. CWD sightings with small group size (i.e. 1-2 dolphins) were dominant. There was one CWD sighting with large group size (i.e. 10 or more dolphins) recorded in WL.

Activities and Association with Fishing Boats

Seven CWD sightings were recorded engaging in feeding activities in October 2021. One of these sightings was observed associated with operating shrimp trawler near the border of Hong Kong in WL.

Mother-calf Pair

In October 2021, there were three CWD sightings recorded with the presence of mother-and-unspotted juvenile pair(s). These three sightings were all recorded in WL survey area.

6.4.2 Photo Identification

In October 2021, a total number of 17 different CWD individuals were identified for totally 17 times. A summary of photo identification works is presented in **Table 6.5**. Representative photos of these individuals are given in **Appendix D**.

Table 6.5: Summary of Photo Identification

Individual ID	Date of Sighting (dd-mmm-yy)	Sighting Group No.	Area	Individual ID	Date of Sighting (dd-mmm-yy)	Sighting Group No.	Area
NLMM081	06-Oct-21	4	WL	WLMM007	06-Oct-21	4	WL
SLMM003	06-Oct-21	6	WL	WLMM043	06-Oct-21	1	WL
SLMM007	06-Oct-21	4	WL	WLMM062	06-Oct-21	4	WL
SLMM025	06-Oct-21	4	WL	WLMM071	06-Oct-21	2	WL
SLMM030	19-Oct-21	2	WL	WLMM079	06-Oct-21	6	WL
SLMM031	27-Oct-21	3	SWL	WLMM168	06-Oct-21	2	WL
SLMM037	06-Oct-21	6	WL	WLMM169	06-Oct-21	4	WL
SLMM049	06-Oct-21	4	WL	WLMM170	06-Oct-21	4	WL
SLMM052	06-Oct-21	4	WL				

6.4.3 Land-based Theodolite Tracking Survey

Survey Effort

Land-based theodolite tracking surveys were conducted at SC on 15 October 2021 and at LKC on 25 October 2021, with a total of two days of land-based theodolite tracking survey effort accomplished in this reporting period. Three CWD groups were tracked from LKC station 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 D**. The first sighting location of CWD group tracked at LKC station during land-based theodolite tracking survey in October 2021 was depicted in **Figure 6.4**.

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	3	0.5
Sha Chau	1	6:00	0	0
TOTAL	**2**	**12:00**	**3**	**0.25**

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

Remark: Marine park excludes land area and the landward boundary generally follows the high water mark along the coastline.

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 11 October 2021 and subsequently deployed 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, silt curtains were in place by the contractor for marine filling and bored piling, in which dolphin observers were deployed by contractor in accordance with the MMWP. Overall, 2 to 5 dolphin observation stations and teams of at least two dolphin observers were deployed by the contractors for continuous monitoring of the DEZ for bored piling 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' MMWP observation records, no dolphin or other marine mammals were observed within or around the silt curtains. As for 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 C**. 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 were 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 B**.

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 B**) 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 are 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 were 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 have been 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 have been provided in the relevant Contract Specifications respectively for implementation by the Contractors under the Project where trees will 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 were currently monitored by ET annually.	3503, 3508, 3801 3802 (To be implemented)
CM 10 – 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.	To be implemented

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)	

In accordance with the 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 were 55 and 26, respectively. Four retained trees under Contract 3508 were removed due to safety concern of Airport Express Line (AEL) operation. Moreover, a storage area including 30 retained trees were handed over from Contract 3801 to AAHK during the reporting period. These 30 trees have been excluded from the Project. 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.	

Event Action Level	Action			
Non-conformity on one occasion	Identify source. Inform IEC and AAHK / PM. Discuss remedial actions with IEC, AAHK / PM and Contractor. Monitor remedial actions until rectification has been completed.	Check report. Check Contractor's working method. Discuss with ET and Contractor on possible remedial measures. Advise AAHK / PM on effectiveness of proposed remedial measures. Check implementation of remedial measures.	Notify Contractor. Ensure remedial measures are properly implemented.	Amend working methods to prevent 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	8	6	3	0
3508(1)	21	12	0	0
3602	2	0	0	0
3801	15	0	5(2)	0
Sub-total	55	18	8	0
Provisional				
Contract	**Retain (nos.)**	**Transplanted (nos.)**		**To-be-transplanted (nos.)**
3508(1)	51	0		10
Sub-total	51	0		10
Grand Total	**106**	**26**		**10**

Notes:

(1) As some of the site areas have been handed over to Contract 3508, Contractor of Contract 3508 is currently managing some of the trees. 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 2021. Photos of the last inspection in October 2021 were shown in **Table 7.7**.
T814	20 Dec 2020	Establishment period 21 Dec 2020 – Dec 2021	Contract 3503	
T815	15 Dec 2020	Establishment period 16 Dec 2020 – Dec 2021	Contract 3503	
T829	18 Dec 2020	Establishment period 19 Dec 2020 – Dec 2021	Contract 3503	
T830	14 Dec 2020	Establishment period 15 Dec 2020 – Dec 2021	Contract 3503	
T831	19 Dec 2020	Establishment period 20 Dec 2020 – Dec 2021	Contract 3503	
T1493	6 Jul 2021	Establishment period 7 Jul 2021 – Jul 2022	Contract 3508	Next inspection will be conducted in November 2021. Photos of the last inspection in October 2021 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	

Tree ID	Transplant Date	Management Stage	Management Agency	Remarks
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 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.
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

Under 12-month Establishment Period:		
T812	T814	T815
T829	T830	T831
T1493	T1494	T1495

Under 12-month Establishment Period:

T1496	T1497	T1498
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 October 2021. 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., 1 to 7 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 Q3 to Q4 2021. 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 October 2021
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	1 to 7 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:

- Three skipper training sessions were held for contractors' concerned skippers of relevant construction vessels to familiarize them with the predefined routes; general education on local cetaceans; guidelines for avoiding adverse water quality impact; the required environmental practices / measures while operating construction and associated vessels under the Project; and guidelines for operating vessels safely in the presence of CWDs. The list of all trained skippers was properly recorded and maintained by ET.
- In this reporting period, 5 skippers were trained by ET. In total, 1818 skippers were trained from August 2016 to October 2021.
- 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 bored piling 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	

EP Condition	Submission	Status
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 F**.

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

7.9.1 Complaints

A complaint regarding dust issue at 3RS construction site area was received on 6 October 2021.The case was investigated by ET in accordance with the Manual and the Complaint Management Plan of the Project. The ET identified sixteen related contractors and requested them to provide information regarding the complaint. According to the information provided by the contractors, all reported that they had provided water spraying on site and their watering records within October 2021 showed they had conducted water spraying at all active works area in accordance with the implementation schedule in the EM&A Manual. Based on the ET's weekly site inspections, no item related to insufficient water spraying was recorded on the checklists for all works contracts. A joint ad-hoc inspection by EPD, ET, IEC and AAHK was also carried out at 3RS reclaimed land after receiving the complaint, in which no adverse comments related to insufficient water spraying was identified. Nevertheless, all air quality monitoring results from 4 to 8 October 2021 were within the corresponding Action and Limit Levels. ET reminded all contractors to continue implementing dust suppression measures, especially sufficient water spraying at the site area in accordance with the implementation schedule in the EM&A Manual. Hence, the complaint case was considered closed.

A complaint regarding dust issue at 3RS construction site area near northeastern quay bus station was received on 28 October 2021. The case is under investigation and findings of the investigation will be reported in the next Monthly EM&A Report.

7.9.2 Notifications of Summons or Status of Prosecution

A contractor reported in October 2021 that they had pleaded guilty in court and was fined by the court regarding summonses as laid by EPD upon a dust control emission incident for reclamation works in April 2021 contravening the Air Pollution Control Ordinance Cap. 311.

7.9.3 Cumulative Statistics

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

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

- Land-based ground improvement works; and
- Seawall construction.

Airfield Works:

Contract 3301 North Runway Crossover Taxiway

- Cable ducting works; and
- Paving works.

Contract 3302 Eastern Vehicular Tunnel Advance Works

- Piling and structure works;
- Ducting works; and
- Backfilling and reinstatement works.

Contract 3303 Third Runway and Associated Works

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

- Cabling works;
- Consoles installation; and
- System and network installation.

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
- Footing works.

Contract 3310 North Runway Modification Works

- Ground improvement works; and
- Piling works.

Third Runway Concourse:

Contract 3403 New Integrated Airport Centres Building and Civil Works

- Architectural, Builder's Work and Finishing works;
- Excavation works;
- Footing works; and
- Underground utilities construction.

Contract 3404 Integrated Airport Control System

- Cable laying.

Contract 3405 Third Runway Concourse Foundation and Substructure Works

- Foundation works;
- Piling work;
- 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 3503 Terminal 2 Foundation and Substructure Works

- T2 re-configuration;
- Excavation works;
- Utilities and road works; and
- Piling and structure works.

Contract 3508 Terminal 2 Expansion Works

- Excavation and footing construction;
- Site formation;
- Drainage works;
- Piling work; and
- Builders' 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
- Concreting work.

Contract 3603 Baggage Handling System (BHS)

- BHS installation; and
- Dismantling works.

Construction Support (Facilities):

Contract 3721 Construction Support Infrastructure Works

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

Contract 3722 Construction Support Facilities

- Clearance works.

Contract 3723 Construction Support Facilities

- Erection of site office;
- Electrical and mechanical installation; and
- Builders' works.

Airport Support Infrastructure:

Contract 3801 APM and BHS Tunnels on Existing Airport Island

- Excavation and lateral support works; and
- Drainage works.

Contract 3802 APM and BHS Tunnels and Related Works

- Construction of Airside Fire Station and marine sediment treatment plant;
- Installation of sheet pipes and dewatering well;
- Pre-drilling;
- Ground investigation works; and
- Ducting works.

Construction Support (Services / Licenses):

Contract 3901A Concrete Batching Facility

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

Contract 3901B Concrete Batching Facility

- Operation of concrete batching plant; and
- Superstructure works 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 marine filling;
- DEZ monitoring for 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 C**.

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 included reclamation works and land-based works. Works in the reclamation areas included marine filling, seawall and facilities construction, together with runway and associated works such as bored piling for approach lights. Land-based works on existing airport island involved mainly airfield works, foundation and substructure work for Terminal 2 expansion, modification and tunnel work for APM and BHS systems, and preparation work for utilities, with activities include site establishment, site office construction, road and drainage works, cable ducting, demolition of existing facilities, 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 1 to 7 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.

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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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A	21AUG19	FIRST ISSUE	VL

香港國際機場 HONG KONG INTERNATIONAL AIRPORT

Airport Authority 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

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 4.1

Scale at A3 1 : 60000

Rev. A

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

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

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B	27JUL16	GENERAL REVISION	JT
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F	04APR19	GENERAL REVISION	SH

香港國際機場 HONG KONG INTERNATIONAL AIRPORT

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

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FIGURE 6.1

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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
Design	JC	29OCT18
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Approver	EC	29OCT18

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

Drawing No. FIGURE 6.2

Scale at A3 1 : 45000

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香港國際機場 HONG KONG INTERNATIONAL AIRPORT

Airport Authority HKIA Tower, 1 Sky Plaza Road, Hong Kong International Airport, Lantau, Hong Kong
Tel: (852) 2188 7111 Fax: (852) 2824 0747

MOTT MACDONALD

Title

LOCATION FOR AUTONOMOUS PASSIVE ACOUSTIC MONITORING

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

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

Drawing No. FIGURE 6.5

Scale at A3 1 : 45000

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Appendix A. Contract Description

Contract Description

Contract No.	Contract Title	Contractor	Key Construction Activities
3206	Reclamation Contract	Zhen Hua Engineering Company Ltd.-China Communications Construction Company Ltd.-CCCC Dredging (Group) Company Ltd. Joint Venture	The works covered by the Contract 3206 comprise the formation of approximately 650 hectares of land north of the existing airport island for the project, the major construction activities including without limitation the following • Geotechnical and ground improvement works; • Seawall construction; • Marine and land filling works; and • Civil works.
3301	North Runway Crossover Taxiway	Fujita Corporation-China Harbour Engineering Company Ltd.-Zhen Hua Engineering Company Ltd. Joint Venture	The works covered by the Contract 3301 comprise the construction of a new dual taxiway across the existing north runway and utility services and cable ducting systems. The major construction activities include without limitation the following: • Construction of a new dual taxiway; • Cable ducting works; • Extension of existing portable water supply system; and • All associated works.
3302	Eastern Vehicular Tunnel Advance Works	China Road and Bridge Corporation	The works covered by the Contract 3302 comprise the design and construction of the first section of the new Eastern Vehicular Tunnel and a Road Tunnel Plant Building. The major construction activities include without limitation the following: • Foundation and structural works; • Cast-in / Underground electrical & mechanical works and utility services; and • All associated testing and commissioning works.
3303	Third Runway and Associated Works	Sinohydro Corporation Limited, Powerchina Airport Construction Company Limited, Paul Y. Construction Company Limited, and Rock-One	The works covered by the Contract 3303 comprise all elements of permanent works and temporary works required for the completion, commissioning and operation of the new North Runway and existing South Runway following the closure of the existing North Runway. The major construction activities include without limitation the following: • New runway, taxiways, and associated works;

Contract No.	Contract Title	Contractor	Key Construction Activities
		Engineering Company Limited Joint Venture	• Infrastructure works; • Construction of ancillary buildings and facilities; • Set up of various airport systems; and • All associated testing and commissioning works.
3305	Airfield Ground Lighting System	ADB Safegate Hong Kong Limited	The works covered by the Contract 3305 comprise the design, manufacture, installation and handover of the Airfield Ground Lighting (AGL) System. The major construction activities include without limitation the following: • Light fittings works; • Power Supply System installation; • Fibre optic cables and data cables supply and connection; • Set up Control and Communication system; • All associated testing and commissioning works.
3306	Observation Facility Control Systems Supporting Interim 2RS and 3RS	Chinney Alliance Engineering Limited	The works covered by the Contract 3306 comprise the design, procurement, manufacture, supply, installation, testing and commissioning of the Observation Facility Control Systems and Airfield Network for the interim Two-Runway System and Three-Runway System respectively. The major construction activities include without limitation the following: • Power Supply System installation; • Fibre optic cables and data cables supply and connection; • Set up Control and Communication system; • Minor building work and accessories; and • All associated testing and commissioning works.
3307	Fire Training Facility	Paul Y. Construction Company Limited	The works covered by the Contract 3307 comprise the construction of a Fire Training Facility on the new reclamation area to replace the existing facility at the Airport Island. The major construction activities include without limitation the following: • Building services works; • Civil works; and • All associated testing and temporary works.
3308	Foreign Object Debris Detection System	DAS Aviation Services Group	The works cover by the Contract 3308 comprise the entire expanded Foreign Object Debris (FOD) detection system required for the operation of new Three-Runway System at Hong Kong International Airport. The major construction activities include without limitation the following:

Contract No.	Contract Title	Contractor	Key Construction Activities
			• Excavation works; • Construction of FOD sensor towers; • Set up FOD detection system; • Civil and structural works; and • All associated electrical and mechanical works.
3310	North Runway Modification Works	China State Construction Engineering (Hong Kong) Ltd. - Fujita Corporation Joint Venture	The works cover by the Contract 3310 comprise the modification of north runway and the connections of taxiways to the modified north runway on existing airport island. The major construction activities include without limitation the following: • Modification works for existing north runway; • Connections works for new taxiways; • Construction of ancillary buildings/ facilities; • Building services and airport systems; • Infrastructure Works; • Underground utilities and services; and • All associated asphalt pavement work and earthwork.
3402	New Integrated Airport Centers Enabling Works	Wing Hing Construction Co., Ltd.	The works covered by the Contract 3402 comprise the enabling works for the new Integrated Airport Centers. The major construction activities include without limitation the following: • Site clearance and demolition; • Building services works; • Utilities diversion and installation works; • Roadworks including associated facilities; and • All associated testing and commissioning works.
3403	New Integrated Airport Centres – Building and Civil Works	Sun Fook Kong Construction Limited	The works covered by the Contract 3403 comprise the construction of a new Integrated Airport Centre (IAC) and a number of ancillary facilities and Additions and Alteration (A&A) works for converting the existing IAC into a back-up IAC, including without limitation the following: • Site clearance and demolition; • Building structure and envelope; • Building Services and Airport Systems; and • Utilities division and installations.

Contract No.	Contract Title	Contractor	Key Construction Activities
3404	Integrated Airport Control System	Shun Hing Systems Integration Co., Ltd.	The works covered by the Contract 3404 comprise the design, supply, manufacture, delivery, installation, testing and commissioning of Integrated Airport Control System and conversion of the existing Integrated Airport Centre (IAC) into a Back-up IAC for the operation of interim Two-Runway System and Three-Runway System. The major construction activities include without limitation the following: • Cabling works • System configuration and programming works; • Set up Control and Communication system; • Decommissioning works; and • All associated testing and commissioning works.
3405	Third Runway Concourse Foundation and Substructure Works	China Road and Bridge Corporation - Bachy Soletanche Group Limited - LT Sambo Co., Ltd. Joint Venture	The works covered by the Contract 3405 comprise without limitation the following: • Piled foundation works; • Basement and tunnel structure works; • Associated internal reinforced concrete structures; • Backfilling and compaction of works area; and • Associated testing and temporary works.
3408	Third Runway Concourse and Apron Works	Beijing Urban Construction Group Company Limited and Chevalier (Construction) Company Limited Joint Venture	The works covered by the Contract 3408 comprise the design and construction of the Third Runway Concourse (TRC), the TRC Apron, two cross-field taxiways, Ancillary Buildings, specific section of the Eastern Vehicular Tunnel (EVT), and the associated infrastructure, testing, and commissioning works.
3503	Terminal 2 Foundation and Substructure Works	Leighton - Chun Wo Joint Venture	The works covered by the Contract 3503 comprise the foundations for the new T2 terminal, two annex buildings and associated viaducts, construction of the new T2 basement and south annex building structures, diaphragm walls, utility services and other advance works. The major construction activities include without limitation the following: • Re-configuration and demolition of existing utilities and structures;

Contract No.	Contract Title	Contractor	Key Construction Activities
			• Pile foundations for the expanded T2 Terminal Building, South Annex Building, and North Annex Building; • Construction of new South Annex Building; • Diversion and provisions of utilities; and • All associated testing and commissioning works.
3508	Terminal 2 Expansion Works	Gammon Engineering and Construction Co., Ltd	The works covered by the Contract 3508 comprise the construction of T2, North Annex Building (NAB) and South Annex Building (SAB) with interconnecting bridges, landside transport infrastructure including viaducts and at grade roads, underground utility services, one sewage pumping station with the associated electrical building, footbridges, external works and modification works to existing facilities. The major construction activities include without limitation the following: • Superstructure, interior landscaping, building services and airport system of T2, NAB, SAB and associated footbridges; • Additions and Alteration (A&A) works of the existing Airport World Trade Centre (AWTC); • Modification of the existing APM and BHS tunnels; • External works and road networks around T2; and • Utilities.
3601	New Automated People Mover System (TRC Line)	CRRC Puzhen Bombardier Transportation Systems Limited and CRRC Nanjing Puzhen Co., Ltd. Joint Venture	The works covered by the Contract 3601 comprise the initial phase of the Automated People Mover (APM) system connecting the Third Runway Concourse (TRC) and the APM Interchange Station in the modified T2, and extension of the new APM system into the new APM Depot east of T2. The major construction activities include without limitation the following: • New 3-guideway APM system between TRC and T2; • Extension of the TRC Line into the new APM Depot; • APM associated sub-systems (communications, signalling, etc.) • Associated civil works; and • All associated testing, commissioning works.

Contract No.	Contract Title	Contractor	Key Construction Activities
3602	Existing APM System Modification Works	Niigata Transys Co., Ltd.	The works covered by the Contract 3602 comprise the detailed design, supply, manufacture, fabrication, implementation, testing and commissioning of the following modification works of the existing APM systems: • Modification of existing APM depot and APM cars; • Modification of existing T1 & T2 tunnels; and • Preparation of new APM depot.
3603	3RS Baggage Handling System	Vanderlande Industries Hong Kong Limited and Shun Hing Systems Integration Company Limited	The works covered by the Contract 3603 comprise the design, supply, manufacture, delivery, installation, testing and commissioning of the high-speed baggage handling system.
3721	Construction Support Infrastructure Works	China State Construction Engineering (Hong Kong) Limited	The works covered by the Contract 3721 comprise the construction of the infrastructure works and building facilities on the reclaimed land formation. The major construction activities include without limitation the following: • Project site road; • Utilities; • Cargo loading quays; and • Security fencing and hoarding.
3722	Western Support Area – Construction Support Facilities	Tapbo Construction Company Limited and Konwo Modular House Limited Joint Venture	The works covered by the Contract 3722 comprise the design and construction of support facilities, including site office, Canteen, Safety Induction Centre and Medical Centre, Material Testing Laboratories and Typhoon Shelter, Vehicle Maintenance Facility and Fuel Storage Facility. The major construction activities include without limitation the following: • Construction of support facilities; • Foundation and structural works; and • Building services works.
3723	Eastern Support Area – Construction Support Facilities	Tapbo Construction Company Limited and Konwo Modular House Ltd. Joint Venture	The works covered by the Contract 3723 comprise the design and construction of support facilities, including site office, sewage treatment facility, canteen, and centralised power supply building. The major construction activities include without limitation the following: • Construction of support facilities; • Foundation, structural and superstructure works;

Contract No.	Contract Title	Contractor	Key Construction Activities
			• Sewage pipe network and connection works; and • Building services works.
3728	Minor Site Works	Shun Yuen Construction Company Limited	The works to be executed by the Contract 3728 comprise minor works within the Airside and Landside areas of the existing airport island to support the Project.
3801	APM and BHS Tunnels on Existing Airport Island	China State Construction Engineering (Hong Kong) Limited	The works covered by the Contract 3801 comprise the construction of the APM and Baggage Handling System (BHS) tunnels on existing airport island. The major construction activities include without limitation the following: • Construction of APM and BHS tunnels; • Construction of ventilation building and associated infrastructure; and • Construction, testing and commissioning of sewerage pumping station; and • Civil and structural engineering works.
3802	APM and BHS Tunnels and Related Works	Gammon Construction Limited	The works covered by the Contract 3802 comprise the construction of the APM and BHS tunnels on existing airport island. The major construction activities include without limitation the following: • Construction of APM/ BHS Tunnels; • Construction of ancillary buildings/ facilities; • Building services and airport systems; • Infrastructure Works; • Underground utilities and services; and • All associated testing and commissioning works.
3901A	Concrete Batching Facility	K. Wah Concrete Company Limited	The works covered by the Contract 3901A comprise the establishment, operation and maintenance of a concrete batching facility at the Project Site and the supply of concrete products. The major construction activities include without limitation the following: • Supply of all equipment for the installation of the Facility to the Site; and • Supply of all raw materials required for the production of ready mixed concrete products and the continual operation of the Facility.
3901B	Concrete Batching Facility	Gammon Construction Limited	The works covered by the Contract 3901B comprise the establishment, operation and maintenance of a concrete batching facility at the Project Site

Contract No.	Contract Title	Contractor	Key Construction Activities
			and the supply of concrete products. The major construction activities include without limitation the following: • Supply of all equipment for the installation of the Facility to the Site; and • Supply of all raw materials required for the production of ready mixed concrete products and the continual operation of the Facility.

Appendix B. 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, stock piles and material discharge points; ▪ All receiving hoppers for unloading relevant materials shall be enclosed on three sides up to 3 m above the unloading point. In no case shall these hoppers be used as the material storage devices; ▪ The belt conveyor for handling materials shall be enclosed on top and two sides with a metal board at the bottom to eliminate any dust emission due to wind-whipping effect. Other type of enclosure will also be accepted by EPD if it can be demonstrated that the proposed enclosure can achieve same performance; ▪ All conveyor transfer points shall be totally enclosed. Openings for the passage of conveyors shall be fitted with adequate flexible seals; ▪ Scrapers shall be provided at the turning points of all conveyors to remove dust adhered to the belt surface; ▪ Conveyors discharged to stockpiles of relevant materials shall be arranged to minimize free fall as far as practicable. All free falling transfer points from conveyors to stockpiles shall be enclosed with chute(s) and water sprayed; ▪ Aggregates with a nominal size less than or equal to 5 mm should be stored in totally enclosed structure such as storage bin and should not be handled in open area. Where there is sufficient buffer area surrounding the concrete batching plant, ground stockpiling may be used;	Within Concrete Batching Plant / Duration of the construction phase	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;	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?^
			▪ All hot bins shall be totally enclosed and dust tight with close-fitted access inspection opening. Gaskets shall be installed to seal off any cracks and edges of any inspection openings. The air shall be extracted and ducted to a dust collection system to meet the required particulates limiting value; and ▪ Appropriate control measures shall be adopted in order to meet the required bitumen emission limit as well as the ambient odour level (2 odour units).		
			Material transportation ▪ The loading, unloading, handling, transfer or storage of other raw materials which may generate airborne dust emissions such as crushed rocks, sands, stone aggregates, reject fines, shall be carried out in such a manner as to minimize dust emissions; ▪ Roadways from the entrance of the plant to the product loading points and/or any other working areas where there are regular movements of vehicles shall be paved or hard surfaced; and ▪ Haul roads inside the Works shall be adequately wetted with water and/or chemical suppressants by water trucks or water sprayers.	Within Concrete Batching Plant / Duration of the construction phase	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:	Within Concrete Batching Plant / Duration of the construction phase	N/A

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

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

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

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
8.8.1.2 and 8.8.1.3	5.1	2.26	**Marine Construction Activities** General Measures to be Applied to All Works Areas ▪ Barges or hoppers shall not be filled to a level which will cause overflow of materials or pollution of water during loading or transportation; ▪ Use of Lean Material Overboard (LMOB) systems shall be prohibited; ▪ Excess materials shall be cleaned from the decks and exposed fittings of barges and hopper dredgers before the vessels are moved; ▪ Plants should not be operated with leaking pipes and any pipe leakages shall be repaired quickly; ▪ Adequate freeboard shall be maintained on barges to reduce the likelihood of decks being washed by wave action; ▪ All vessels shall be sized such that adequate clearance is maintained between vessels and the sea bed at all states of the tide to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash; ▪ The works shall not cause foam, oil, grease, litter or other objectionable matter to be present in the water within and adjacent to the works site; and ▪ For ground improvement activities including DCM, the wash water from cleaning of the drilling shaft should be appropriately treated before discharge. The Contractor should ensure the waste water meets the WPCO/TM requirements before discharge. No direct discharge of contaminated water is permitted.	Within construction site / Duration of the construction phase	I
			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
			▪ 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;		I
			▪ Closed grab dredger shall be used to excavate marine sediment; ▪ Silt curtains surrounding the closed grab dredger shall be deployed in accordance with the Silt Curtain Deployment Plan; and		N/A *(The arrangement of silt curtain has been modified. The details can be referred to Silt Curtain Deployment Plan)
			▪ The Silt Curtain Deployment Plan shall be implemented.		I

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

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			Specific Measures to be Applied to the Field Joint Excavation Works for the Submarine Cable Diversion ▪ Only closed grabs designed and maintained to avoid spillage shall be used and should seal tightly when operated. Excavated materials shall be disposed at designated marine disposal area in accordance with the Dumping 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
8.8.1.4	5.1	-	**Modification of the Existing Seawall** ▪ Silt curtains shall be deployed around the seawall modification activities to completely enclose the active works areas, and care should be taken to avoid splashing of rockfill / rock armour into the surrounding marine environment. For the connecting sections with the existing outfalls, works for these connection areas should be undertaken during the dry season in order that individual drainage culvert cells may be isolated for interconnection works.	At the existing northern seawall / Duration of the construction phase	I
8.8.1.5	5.1	-	**Construction of New Stormwater Outfalls and Modifications to Existing Outfalls** ▪ During operation of the temporary drainage channel, runoff control measures such as bunding or silt fence shall be provided on both sides of the channel to prevent accumulation and release of SS via the temporary channel. Measures should also be taken to minimise the ingress of site drainage into the culvert excavations.	Within construction site / Duration of the construction phase	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	I
			For construction of the eastern approach lights at the CMPs ▪ Ground improvement via DCM using a close-spaced layout shall be completed prior to commencement of piling works; ▪ Steel casings shall be installed to enclose the excavation area prior to commencement of excavation; ▪ The excavated materials shall be removed using a closed grab within the steel casings; ▪ No discharge of the cement mixed materials into the marine environment will be allowed; and ▪ Excavated materials shall be treated and reused on-site.		I
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 sand bag barriers should be provided on site to direct storm water to silt removal facilities. The design of the temporary on-site		I

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			drainage system should be undertaken by the Contractors prior to the commencement of construction (for works areas located on the existing Airport island) or as soon as the new land is completed (for works areas located on the new landform);		
			▪ Sand/silt removal facilities such as sand/silt traps and sediment basins should be provided to remove sand/silt particles from runoff to meet the requirements of the TM-DSS standards under the WPCO. The design of efficient silt removal facilities should make reference to the guidelines in Appendix A1 of ProPECC Note PN 1/94. Sizes may vary depending upon the flow rate. The detailed design of the sand/silt traps should be undertaken by the Contractors prior to the commencement of construction;		I
			▪ All drainage facilities and erosion and sediment control structures should be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly during rainstorms. Deposited silt and grit should be regularly removed, at the onset of and after each rainstorm to ensure that these facilities are functioning properly;		I
			▪ Measures should be taken to minimize the ingress of site drainage into excavations. If excavation of trenches in wet periods is necessary, they should be dug and backfilled in short sections wherever practicable. Water pumped out from foundation excavations should be discharged into storm drains via silt removal facilities;		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
8.8.1.9	5.1	-	**Sewage Effluent from Construction Workforce** ▪ Temporary sanitary facilities, such as portable chemical toilets, should be employed on-site where necessary to handle sewage from the workforce. A licensed contractor should be employed to provide appropriate and adequate portable toilets and be responsible for appropriate disposal and maintenance.	Within construction site / During construction phase	I
8.8.1.10 8.8.1.11	5.1		**General Construction Activities** ▪ Construction solid waste, debris and refuse generated on-site should be collected, handled and disposed of properly to avoid entering any nearby storm water drain. Stockpiles of cement and other construction materials should be kept covered when not being used; and	Within construction site / During construction phase	I

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

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			▪ For the marine sediments expected to be excavated from the piling works of TRC, APM & BHS tunnels, airside tunnels and other facilities on the proposed land formation area, piling work of marine sections of the approach lights and HKIAAA beacons, basement works for some of T2 expansion area and excavation works for the proposed APM depot should be treated and reused on-site as backfilling materials, although required treatment level / detail and the specific re-use mode are under development.		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; ▪ Adoption of repetitive design to allow reuse of formworks as far as practicable; ▪ Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal;	Project Site Area / Construction Phase	I

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

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

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			▪ After completion of SI, the Contamination Assessment Report (CAR) will be prepared and submitted to EPD for approval prior to start of the proposed construction works at the golf course, the underground and above-ground fuel storage tank areas, emergency power generation units, airside petrol filling station and fuel tank room.		I *(CAR for golf course and Terminal 2 Emergency Power Supply System Nos.1, 2, 3, 4 and 5)
			▪ Should remediation be required, Remediation Action Plan (RAP) and Remediation Report (RR) will be prepared for EPD's approval prior to commencement of the proposed remediation and any construction works respectively.		N/A
11.8.1.2	8.1	-	If contaminated soil is identified, the following mitigation measures are for the excavation and transportation of contaminated materials (if any): ▪ To minimize the incidents of construction workers coming in contact with any contaminated materials, bulk earth-moving excavation equipment should be employed; ▪ Contact with contaminated materials can be minimised by wearing appropriate clothing and personal protective equipment such as gloves and masks (especially when working directly with contaminated material), provision of washing facilities and prohibition of smoking and eating on site; ▪ Stockpiling of contaminated excavated materials on site should be avoided as far as possible; ▪ The use of any contaminated soil for landscaping purpose should be avoided unless pre-treatment was carried out; ▪ Vehicles containing any excavated materials should be suitably covered to reduce dust emissions and/or release of contaminated wastewater; ▪ Truck bodies and tailgates should be sealed to prevent any discharge; ▪ Only licensed waste haulers should be used to collect and transport contaminated material to treatment/disposal site and should be equipped with tracking system to avoid fly tipping; ▪ Speed control for trucks carrying contaminated materials should be exercised. 8km/h is the recommended speed limit; ▪ Strictly observe all relevant regulations in relation to waste handling, such as Waste Disposal Ordinance (Cap 354), Waste Disposal (Chemical Waste) (General) Regulation (Cap 354) and obtain all necessary permits where required; and ▪ Maintain records of waste generation and disposal quantities and disposal arrangements.	Project Site Area / Construction Phase	N/A
			Terrestrial Ecological – Construction Phase		
12.10.1.1	9.2	2.14	**Pre-construction Egretry Survey** ▪ Conduct ecological survey for Sha Chau egretry to update the latest boundary of the egretry.	Breeding season (April - July) prior to commencement of	I

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

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

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
13.11.1.3 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
13.11.5.14 to 13.11.5.18	10.3.1	2.31	**Dolphin Exclusion Zone** ▪ Establishment of a 24 hr Dolphin Exclusion Zone (DEZ) with a 250 m radius around the land formation works areas;	Marine waters around land formation works area during construction phase	I
			▪ A DEZ would also be implemented during ground improvement works (e.g. DCM), water jetting works for submarine cables diversion, open trench dredging at the field joint locations and seawall construction; and		I
			▪ A DEZ would also be implemented during bored piling work but as a precautionary measure only.		I
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**	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?^
			▪ 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.		
13.11.5.21 to 13.11.5.23	10.6.1	-	**Construction Vessel Speed Limits and Skipper Training** ▪ A speed limit of 10 knots should be strictly observed for construction vessels at areas with the highest CWD densities; and ▪ Vessels traversing through the work areas should be required to use predefined and regular routes (which would presumably become known to resident dolphins) to reduce disturbance to cetaceans due to vessel movements. Specific marine routes shall be specified by the Contractor prior to construction commencing.	All areas north and west of Lantau Island during construction phase	I
			Fisheries Impact – Construction Phase		
14.9.1.2 to 14.9.1.5	-		**Minimisation of Land Formation Area** ▪ Minimise the overall size of the land formation needed for the additional facilities to minimise the overall loss of habitat for fisheries resources.	Land formation footprint / during detailed design phase to completion of construction	I
14.9.1.6	-	-	**Use of Construction Methods with Minimal Risk/Disturbance** ▪ Use of non-dredge method for the main land formation and ancillary works including the diversion of the aviation fuel pipeline to the AFRF;	During construction phase at marine works area	I
			▪ Use of Deep Cement Mixing (DCM) method instead of conventional seabed dredging for the land formation works to reduce the risk of negative impacts through the elevation of suspended solids and contaminants on fisheries and the marine environment;		I
			▪ Use of bored piling in short duration to form the new approach lights and marker beacons for the new runway; and		I
			▪ Use of horizontal directional drilling (HDD) method and water jetting methods for placement of undersea cables and pipelines to minimise the disturbance to fisheries resources.		I
14.9.1.11	-		**Strict Enforcement of No-Dumping Policy** ▪ A policy prohibiting dumping of wastes, chemicals, oil, trash, plastic, or any other substance that would potentially be harmful to dolphins and/or their habitat in the work area; ▪ Mandatory educational programme of the no-dumpling policy be made available to all construction site personnel for all project-related works; ▪ Fines for infractions should be implemented; and ▪ Unscheduled, on-site audits shall be implemented.	All works area during the construction phase	I

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
14.9.1.12	-		**Good Construction Site Practices** ▪ Regular inspection of the integrity and effectiveness of all silt curtains and monitoring of effluents to ensure that any discharge meets effluent discharge guidelines; ▪ Keep the number of working or stationary vessels present on-site to the minimum anytime; and ▪ Unscheduled, on-site audits for all good site practice restrictions should be conducted, and fines or penalties sufficient to be an effective deterrent need to be levied against violators.	All works area during the construction phase	I
14.9.1.13 to 14.9.1.18	-		**Mitigation for Indirect Disturbance due to Deterioration of Water Quality** ▪ Water quality mitigation measures during construction phases include consideration of alternative construction methods, deployment of silt curtain and good site practices;	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		I
			▪ Use of horizontal directional drilling (HDD) method and water jetting methods for placement of undersea cables and pipelines to minimise the disturbance to fisheries resources.		I
			Landscape and Visual Impact – Construction Phase		
Table 15.6	12.3	-	**CM1 -** The construction area and contractor's temporary works areas should be minimised to avoid impacts on adjacent landscape.	All works areas for duration of works; Upon handover and completion of works.	I
Table 15.6	12.3	-	**CM2 -** Reduction of construction period to practical minimum.	All works areas for duration of works; Upon handover and completion of works.	I
Table 15.6	12.3	-	**CM3 -** Phasing of the construction stage to reduce visual impacts during the construction phase.	All works areas for duration of works; Upon handover and completion of works.	I
Table 15.6	12.3	-	**CM4 -** Construction traffic (land and sea) including construction plants, construction vessels and barges should be kept to a practical minimum.	All works areas for duration of works; Upon handover and completion of works.	I

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	-	**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
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;	N/A

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

Notes:

" - " 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 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 C. Monitoring Schedule

Monitoring Schedule of This Reporting Period

Oct-21

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1	2 AR1A, AR2 WQ General mid-ebb: 09:56 mid-flood: 17:33
3	4 Site Inspection	5 Site Inspection WQ General mid-ebb: 12:14 mid-flood: 05:43	6 Site Inspection CWD Survey (Vessel) NM4, NM6	7 Site Inspection CWD Survey (Vessel) WQ General mid-ebb: 13:32 mid-flood: 07:18	8 Site Inspection	9 WQ General [1] mid-ebb: 14:56 mid-flood: 09:01
10	11 Site Inspection CWD Survey (Vessel) AR1A, AR2 [3] NM1A, NM5 [3]	12 Site Inspection WQ General [2] mid-ebb: 04:48 mid-flood: 12:39	13	14 WQ General [2] mid-ebb: 07:12 mid-flood: 20:11	15 Site Inspection CWD Survey (Vessel, Land-based) NM4, NM6 [4]	16 AR1A, AR2 [5] NM1A, NM5 [5] WQ General mid-ebb: 10:00 mid-flood: 17:27
17	18 Site Inspection CWD Survey (Vessel) NM4, NM6	19 Site Inspection CWD Survey (Vessel) AR1A, AR2 NM1A, NM5 WQ General mid-ebb: 12:14 mid-flood: 06:00	20 CWD Survey (Vessel)	21 Site Inspection WQ General mid-ebb: 13:19 mid-flood: 07:24	22 Site Inspection	23 WQ General mid-ebb: 14:21 mid-flood: 08:45
24	25 Site Inspection CWD Survey (Land-based) AR1A, AR2 NM1A, NM5	26 Site Inspection NM4, NM6 WQ General mid-ebb: 15:52 mid-flood: 11:08	27 CWD Survey (Vessel)	28 Site Inspection WQ General mid-ebb: 05:12 mid-flood: 17:36	29 Site Inspection	30 AR1A, AR2 WQ General mid-ebb: 07:28 mid-flood: 16:21
31						

Notes:

CWD - Chinese White Dolphin

Air quality and Noise Monitoring Station
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

WQ - Water Quality

[1] Water quality monitoring session on 9 October 2021 was cancelled due to No. 8 Southeast Gale or Storm Signal in force.
[2] Water quality monitoring sessions on 12 October 2021 and ebb tide on 14 October were cancelled due to Strong Wind Signal No.3 in force.
[3] Air quality and noise monitoring session on 8 October 2021 was rescheduled to 11 October 2021 due to Strong Wind Signal No.3 in force.
[4] Noise monitoring session on 12 October 2021 was rescheduled to 15 October 2021 due to Strong Wind Signal No.3 in force.
[5] Air quality and noise monitoring session on 13 October 2021 was rescheduled to 16 October 2021 due to No. 8 Northeast Gale or Storm Signal in force.

Tentative Monitoring Schedule of Next Reporting Period

Nov-21

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1 Site Inspection	2 Site Inspection CWD Survey (Vessel) WQ General mid-ebb: 10:56 mid-flood: 17:26	3 CWD Survey (Vessel)	4 Site Inspection CWD Survey (Vessel) NM4, NM6 WQ General mid-ebb: 12:25 mid-flood: 18:20	5 Site Inspection CWD Survey (Vessel, Land-based) AR1A, AR2 NM1A, NM5	6 WQ General mid-ebb: 13:59 mid-flood: 8:14
7	8 Site Inspection CWD Survey (Vessel, Land-based)	9 Site Inspection WQ General mid-ebb: 16:26 mid-flood: 11:18	10 CWD Survey (Vessel) NM4, NM6	11 Site Inspection CWD Survey (Vessel) AR1A, AR2 NM1A, NM5 WQ General mid-ebb: 5:32 mid-flood: 18:09	12 Site Inspection CWD Survey (Vessel)	13 WQ General mid-ebb: 8:16 mid-flood: 16:06
14	15 Site Inspection	16 Site Inspection NM4, NM6 WQ General mid-ebb: 11:05 mid-flood: 17:28	17 AR1A, AR2 NM1A, NM5	18 Site Inspection WQ General mid-ebb: 12:20 mid-flood: 18:07	19 Site Inspection	20 WQ General mid-ebb: 13:28 mid-flood: 8:05
21	22 Site Inspection NM4, NM6	23 Site Inspection AR1A, AR2 NM1A, NM5 WQ General mid-ebb: 14:59 mid-flood: 10:11	24	25 Site Inspection WQ General mid-ebb: 4:00 mid-flood: 16:19	26 Site Inspection	27 WQ General mid-ebb: 5:36 mid-flood: 18:10
28	29 Site Inspection AR1A, AR2 NM1A, NM5	30 Site Inspection NM4, NM6 WQ General mid-ebb: 9:17 mid-flood: 16:02				

Notes:

CWD - Chinese White Dolphin

Air quality and Noise Monitoring Station

WQ - Water Quality

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 D. Monitoring Results

Air Quality Monitoring Results

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

Date	Time	Weather	Wind Speed (m/s)	Wind Direction (deg)	1-hr TSP (μg/m^3)	Action Level (μg/m^3)	Limit Level (μg/m^3)
02-Oct-21	9:23	Sunny	2.2	253	38	306	500
02-Oct-21	10:23	Sunny	1.7	271	31	306	500
02-Oct-21	11:23	Sunny	3.1	258	25	306	500
11-Oct-21	13:57	Sunny	4.7	326	53	306	500
11-Oct-21	14:57	Sunny	6.4	341	49	306	500
11-Oct-21	15:57	Sunny	6.1	346	45	306	500
16-Oct-21	14:20	Sunny	4.7	38	55	306	500
16-Oct-21	15:20	Sunny	4.7	34	38	306	500
16-Oct-21	16:20	Sunny	5.0	8	35	306	500
19-Oct-21	9:35	Sunny	3.9	57	49	306	500
19-Oct-21	10:35	Sunny	3.3	40	58	306	500
19-Oct-21	11:35	Sunny	3.9	328	42	306	500
25-Oct-21	16:00	Sunny	6.1	308	69	306	500
25-Oct-21	17:00	Sunny	5.0	315	66	306	500
25-Oct-21	18:00	Sunny	3.9	4	63	306	500
30-Oct-21	14:20	Sunny	3.1	25	116	306	500
30-Oct-21	15:20	Sunny	3.9	350	156	306	500
30-Oct-21	16:20	Sunny	2.5	3	177	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)
02-Oct-21	14:33	Sunny	2.8	118	16	298	500
02-Oct-21	15:33	Sunny	5.3	163	19	298	500
02-Oct-21	16:33	Sunny	4.4	167	25	298	500
11-Oct-21	10:44	Sunny	4.7	359	73	298	500
11-Oct-21	11:44	Sunny	6.1	6	59	298	500
11-Oct-21	12:44	Sunny	5.6	12	55	298	500
16-Oct-21	9:47	Sunny	3.3	356	71	298	500
16-Oct-21	10:47	Sunny	3.1	8	57	298	500
16-Oct-21	11:47	Sunny	4.7	31	42	298	500
19-Oct-21	14:43	Sunny	2.5	269	95	298	500
19-Oct-21	15:43	Sunny	3.1	261	79	298	500
19-Oct-21	16:43	Sunny	2.5	253	87	298	500
25-Oct-21	9:39	Sunny	3.3	348	28	298	500
25-Oct-21	10:39	Sunny	3.3	340	29	298	500
25-Oct-21	11:39	Sunny	3.9	314	42	298	500
30-Oct-21	9:16	Sunny	3.1	41	53	298	500
30-Oct-21	10:16	Sunny	4.2	42	95	298	500
30-Oct-21	11:16	Sunny	2.8	25	144	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) ^
11-Oct-21	Sunny	14:03	57.7	52.9	60
11-Oct-21	Sunny	14:08	61.2	53.2	
11-Oct-21	Sunny	14:13	59.5	53.8	
11-Oct-21	Sunny	14:18	58.8	52.6	
11-Oct-21	Sunny	14:23	58.1	52.8	
11-Oct-21	Sunny	14:28	58.3	52.3	
16-Oct-21	Sunny	15:32	57.4	52.7	61
16-Oct-21	Sunny	15:37	58.7	53.4	
16-Oct-21	Sunny	15:42	61.1	52.3	
16-Oct-21	Sunny	15:47	61.9	52.8	
16-Oct-21	Sunny	15:52	61.6	53.3	
16-Oct-21	Sunny	15:57	59.5	54.0	
19-Oct-21	Sunny	09:42	55.6	49.6	58
19-Oct-21	Sunny	09:47	60.1	50.7	
19-Oct-21	Sunny	09:52	58.2	50.8	
19-Oct-21	Sunny	09:57	56.2	51.7	
19-Oct-21	Sunny	10:02	57.0	51.1	
19-Oct-21	Sunny	10:07	55.0	50.4	
25-Oct-21	Sunny	16:16	75.2	55.1	72
25-Oct-21	Sunny	16:21	74.4	52.8	
25-Oct-21	Sunny	16:26	72.0	50.9	
25-Oct-21	Sunny	16:31	73.0	52.3	
25-Oct-21	Sunny	16:36	72.8	51.8	
25-Oct-21	Sunny	16:41	70.3	50.2	

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) ^
06-Oct-21	Sunny	13:13	62.9	59.1	64
06-Oct-21	Sunny	13:18	62.3	59.3	
06-Oct-21	Sunny	13:23	62.5	58.8	
06-Oct-21	Sunny	13:28	61.6	58.6	
06-Oct-21	Sunny	13:33	62.0	58.8	
06-Oct-21	Sunny	13:38	61.7	59.4	
15-Oct-21	Cloudy	13:07	68.1	61.9	66
15-Oct-21	Cloudy	13:12	68.9	61.0	
15-Oct-21	Cloudy	13:17	64.4	59.8	
15-Oct-21	Cloudy	13:22	63.7	60.4	
15-Oct-21	Cloudy	13:27	62.7	59.3	
15-Oct-21	Cloudy	13:32	62.7	59.5	
18-Oct-21	Sunny	14:04	65.7	57.6	66
18-Oct-21	Sunny	14:09	68.1	59.3	
18-Oct-21	Sunny	14:14	68.6	58.6	
18-Oct-21	Sunny	14:19	60.4	55.6	
18-Oct-21	Sunny	14:24	59.9	54.5	
18-Oct-21	Sunny	14:29	59.9	55.3	
26-Oct-21	Sunny	13:51	63.5	55.2	61
26-Oct-21	Sunny	13:56	58.6	54.9	
26-Oct-21	Sunny	14:01	58.6	54.0	
26-Oct-21	Sunny	14:06	58.9	54.4	
26-Oct-21	Sunny	14:11	60.4	54.9	
26-Oct-21	Sunny	14:16	57.9	53.9	

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) ^
11-Oct-21	Sunny	09:50	55.0	50.3	57
11-Oct-21	Sunny	09:55	55.7	49.8	
11-Oct-21	Sunny	10:00	56.1	51.1	
11-Oct-21	Sunny	10:05	54.5	51.6	
11-Oct-21	Sunny	10:10	59.5	50.5	
11-Oct-21	Sunny	10:15	54.9	50.2	
16-Oct-21	Sunny	09:44	62.5	54.7	59
16-Oct-21	Sunny	09:49	59.8	50.4	
16-Oct-21	Sunny	09:54	55.0	50.1	
16-Oct-21	Sunny	09:59	57.1	50.2	
16-Oct-21	Sunny	10:04	58.1	50.9	
16-Oct-21	Sunny	10:09	53.3	49.2	
19-Oct-21	Sunny	14:18	59.4	46.4	55
19-Oct-21	Sunny	14:23	51.9	46.4	
19-Oct-21	Sunny	14:28	51.0	46.6	
19-Oct-21	Sunny	14:33	50.1	46.5	
19-Oct-21	Sunny	14:38	50.5	46.2	
19-Oct-21	Sunny	14:43	51.7	46.6	
25-Oct-21	Sunny	10:13	48.5	44.3	52
25-Oct-21	Sunny	10:18	53.0	44.7	
25-Oct-21	Sunny	10:23	47.5	44.9	
25-Oct-21	Sunny	10:28	48.4	45.1	
25-Oct-21	Sunny	10:33	52.6	46.9	
25-Oct-21	Sunny	10:38	50.8	45.7	

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

Noise Measurement Results
Station: NM6- House No.1 Sha Lo Wan

Date	Weather	Time	Measured L_{10} dB(A)	Measured L_{90} dB(A)	$L_{eq(30mins)}$ dB(A) ^
06-Oct-21	Sunny	15:43	74.4	66.4	68*
06-Oct-21	Sunny	15:48	71.5	60.1	
06-Oct-21	Sunny	15:53	72.8	63.5	
06-Oct-21	Sunny	15:58	70.2	56.5	
06-Oct-21	Sunny	16:03	61.0	45.8	
06-Oct-21	Sunny	16:08	55.1	44.5	
15-Oct-21	Cloudy	15:38	61.8	48.2	65
15-Oct-21	Cloudy	15:43	64.7	53.2	
15-Oct-21	Cloudy	15:48	71.5	53.0	
15-Oct-21	Cloudy	15:53	56.7	48.3	
15-Oct-21	Cloudy	15:58	62.7	46.2	
15-Oct-21	Cloudy	16:03	64.2	49.9	
18-Oct-21	Sunny	15:39	64.8	53.2	66
18-Oct-21	Sunny	15:44	67.6	51.3	
18-Oct-21	Sunny	15:49	57.4	44.4	
18-Oct-21	Sunny	15:54	56.1	43.2	
18-Oct-21	Sunny	15:59	63.8	46.4	
18-Oct-21	Sunny	16:04	61.7	41.5	
26-Oct-21	Sunny	15:42	59.6	45.3	65
26-Oct-21	Sunny	15:47	58.6	48.4	
26-Oct-21	Sunny	15:52	60.2	45.2	
26-Oct-21	Sunny	15:57	67.0	45.8	
26-Oct-21	Sunny	16:02	55.2	45.2	
26-Oct-21	Sunny	16:07	60.2	45.3	

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 02 October 21 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	09:24	7.9	Surface	1.0	0.9	15	29.8	29.8	8.2	8.2	24.0	24.0	127.8	127.7	8.5	8.5	3.9	5.1	5	4	815611	804254
						1.0	0.9	15	29.8		8.2		24.0		127.6		8.5		3.9		4			
					Middle	4.0	1.0	8	29.7	29.7	8.2	8.2	24.1	24.1	125.6	125.6	8.4		4.7		4			
						4.0	1.1	8	29.7		8.2		24.1		125.5		8.4		4.7		3			
					Bottom	6.9	0.2	13	29.3	29.3	8.1	8.1	26.0	26.0	91.1	92.6	6.0	6.1	6.5		4			
						6.9	0.3	13	29.3		8.1		26.0		94.1		6.2		6.5		3			
C2	Fine	Rough	11:03	10.5	Surface	1.0	0.9	171	29.9	29.9	8.2	8.2	20.2	20.2	110.0	109.9	7.5	6.3	6.6	4.5	2	3	825690	806931
						1.0	0.9	177	29.9		8.2		20.1		109.8		7.5		6.6		3			
					Middle	5.3	0.6	172	29.1	29.1	8.0	8.0	26.7	26.6	75.9	76.0	5.0		4.2		3			
						5.3	0.6	180	29.1		8.0		26.6		76.0		5.0		4.2		3			
					Bottom	9.5	0.1	164	28.9	28.9	7.9	7.9	27.7	27.7	67.2	67.3	4.4	4.5	2.6		3			
						9.5	0.1	166	28.9		7.9		27.7		67.3		4.5		2.6		4			
C3	Fine	Rough	08:47	11.6	Surface	1.0	0.1	191	29.5	29.5	8.2	8.2	24.5	24.5	125.2	125.2	8.4	7.7	7.0	5.2	6	5	822119	817785
						1.0	0.1	205	29.5		8.2		24.6		125.1		8.3		7.0		5			
					Middle	5.8	0.1	24	29.4	29.4	8.1	8.1	26.0	26.0	106.5	106.5	7.1		6.2		6			
						5.8	0.1	26	29.4		8.1		26.0		106.4		7.0		6.2		5			
					Bottom	10.6	0.2	53	28.9	28.9	8.0	8.0	28.3	28.3	77.3	77.4	5.1	5.1	2.3		4			
						10.6	0.2	53	28.9		8.0		28.3		77.5		5.1		2.4		5			
IM1	Fine	Moderate	09:43	5.8	Surface	1.0	0.4	6	30.0	30.0	8.2	8.2	24.0	24.0	124.1	124.1	8.2	8.2	5.8	5.4	5	5	817954	807154
						1.0	0.4	6	30.0		8.2		24.0		124.0		8.2		5.8		5			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	4.8	1.2	31	29.5	29.5	8.2	8.2	24.0	24.0	124.1	124.1	8.3	8.3	5.0		4			
						4.8	1.3	31	29.5		8.2		24.0		124.1		8.3		5.0		4			
IM2	Fine	Rough	09:51	7.8	Surface	1.0	0.4	175	29.9	29.9	8.4	8.4	23.2	23.2	141.0	140.9	9.4	8.1	3.6	5.2	3	4	818156	806184
						1.0	0.4	180	29.9		8.4		23.2		140.7		9.4		3.7		4			
					Middle	3.9	0.8	166	29.4	29.4	8.1	8.1	25.0	25.0	100.5	100.5	6.7		4.9		4			
						3.9	0.8	166	29.4		8.1		25.0		100.5		6.7		4.9		3			
					Bottom	6.8	0.8	66	29.2	29.2	8.0	8.0	26.4	26.4	85.1	85.3	5.6	5.7	7.2		5			
						6.8	0.8	67	29.2		8.0		26.4		85.4		5.7		7.2		4			
IM3	Fine	Rough	09:58	7.5	Surface	1.0	1.2	183	29.7	29.7	8.3	8.3	23.5	23.5	126.6	126.4	8.5	7.5	2.7	3.6	5	4	818770	805614
						1.0	1.2	198	29.7		8.3		23.5		126.2		8.4		2.7		4			
					Middle	3.8	1.0	183	29.4	29.4	8.1	8.1	25.5	25.5	99.5	99.5	6.6		3.5		5			
						3.8	1.1	188	29.4		8.1		25.5		99.4		6.6		3.6		4			
					Bottom	6.5	0.4	107	29.3	29.3	8.1	8.1	25.9	25.9	91.6	91.6	6.1	6.1	4.4		4			
						6.5	0.4	108	29.3		8.1		25.9		91.6		6.1		4.4		4			
IM4	Fine	Rough	10:07	7.9	Surface	1.0	0.6	327	29.5	29.5	8.4	8.4	22.3	22.3	142.5	142.4	9.6	8.3	3.0	6.2	4	4	819710	804599
						1.0	0.7	327	29.5		8.4		22.3		142.3		9.6		3.0		5			
					Middle	4.0	0.8	357	29.4	29.4	8.2	8.2	25.3	25.3	104.1	104.1	6.9		6.0		3			
						4.0	0.9	328	29.4		8.2		25.3		104.1		6.9		6.0		4			
					Bottom	6.9	1.4	29	29.3	29.3	8.1	8.1	26.0	25.9	89.9	90.1	6.0	6.0	9.5		2			
						6.9	1.5	29	29.3		8.1		25.9		90.3		6.0		9.5		3			
IM5	Fine	Rough	10:15	8.6	Surface	1.0	0.5	188	30.1	30.1	8.4	8.4	23.2	23.2	142.1	142.0	9.5	8.6	5.6	6.3	4	5	820716	804855
						1.0	0.5	200	30.1		8.4		23.2		141.8		9.4		5.6		4			
					Middle	4.3	1.1	172	29.5	29.5	8.2	8.2	24.7	24.7	117.9	117.9	7.8		6.2		5			
						4.3	1.2	188	29.5		8.2		24.6		117.8		7.8		6.2		6			
					Bottom	7.6	0.6	150	29.3	29.3	8.1	8.1	26.0	26.0	92.5	92.5	6.1	6.1	7.2		6			
						7.6	0.6	150	29.3		8.1		26.1		92.5		6.1		7.2		5			
IM6	Fine	Rough	10:24	8.1	Surface	1.0	0.9	8	30.0	30.0	8.4	8.4	23.1	23.1	149.5	149.4	10.0	8.6	4.6	7.2	4	4	821059	805813
						1.0	0.9	8	30.0		8.4		23.1		149.2		9.9		4.6		3			
					Middle	4.1	0.7	334	29.5	29.5	8.2	8.2	24.7	24.7	108.0	107.9	7.2		7.3		4			
						4.1	0.7	351	29.5		8.2		24.7		107.7		7.2		7.3		3			
					Bottom	7.1	1.4	12	29.4	29.4	8.1	8.1	25.4	25.4	100.6	100.7	6.7	6.7	9.8		5			
						7.1	1.4	12	29.4		8.1		25.4		100.8		6.7		9.8		6			
IM7	Fine	Rough	10:35	8.8	Surface	1.0	0.6	145	29.7	29.7	8.3	8.3	21.8	21.8	140.9	140.9	9.5	8.3	5.2	6.4	5	5	821331	806848
						1.0	0.7	157	29.7		8.3		21.8		140.8		9.5		5.2		6			
					Middle	4.4	0.5	100	29.5	29.5	8.2	8.2	24.5	24.5	107.0	107.1	7.1		6.5		4			
						4.4	0.5	101	29.5		8.2		24.5		107.2		7.1		6.5		5			
					Bottom	7.8	0.3	85	29.1	29.1	8.0	8.0	26.6	26.6	78.8	78.9	5.2	5.2	7.7		4			
						7.8	0.3	89	29.1		8.0		26.6		79.0		5.2		7.7		3			
IM8	Fine	Rough	10:27	7.8	Surface	1.0	0.3	179	29.8	29.8	8.4	8.4	23.0	23.0	149.0	148.7	10.0	8.4	5.9	5.2	3	4	821824	808134
						1.0	0.3	187	29.7		8.4		23.0		148.4		9.9		5.9		3			
					Middle	3.9	0.2	177	29.4	29.4	8.1	8.1	24.8	24.8	102.9	102.8	6.9		6.9		3			
						3.9	0.2	178	29.4		8.1		24.8		102.6		6.8		7.0		3			
					Bottom	6.8	0.1	228	29.2	29.2	8.1	8.1	26.1	26.1	86.9	86.6	5.8	5.8	2.9		5			
						6.8	0.1	228	29.2		8.1		26.0		86.3		5.7		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 02 October 21 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	Rough	10:17	8.1	Surface	1.0	0.3	120	30.1	30.1	8.3	8.3	23.5	23.5	139.1	138.7	9.2	8.1	6.4	5.6	4	5	822091	808800
						1.0	0.3	124	30.1		8.3		23.5		138.2		9.2		6.4		4			
					Middle	4.1	0.2	88	29.4	29.4	8.1	8.1	25.2	25.2	104.1	104.1	6.9		7.3		5			
						4.1	0.2	90	29.4		8.2		25.2		104.0		6.9		7.3		5			
					Bottom	7.1	0.2	76	29.2	29.2	8.1	8.1	26.5	26.5	86.9	85.6	5.8	5.7	3.1		5			
						7.1	0.2	78	29.1		8.1		26.6		84.2		5.6		3.1		5			
IM10	Fine	Rough	10:07	7.2	Surface	1.0	0.6	114	29.5	29.5	8.4	8.4	22.2	22.2	141.2	141.1	9.5	8.2	6.9	4.8	4	4	822408	809780
						1.0	0.7	116	29.5		8.4		22.2		141.0		9.5		6.9		4			
					Middle	3.6	0.5	101	29.4	29.4	8.1	8.1	25.4	25.4	102.1	102.1	6.8		5.0		3			
						3.6	0.6	102	29.4		8.1		25.4		102.0		6.8		5.0		4			
					Bottom	6.2	0.4	91	29.3	29.3	8.1	8.1	25.9	25.9	89.7	89.7	6.0	6.0	2.5		4			
						6.2	0.4	98	29.3		8.1		25.9		89.7		6.0		2.5		4			
IM11	Fine	Rough	09:52	8.9	Surface	1.0	0.7	107	29.6	29.6	8.3	8.3	23.8	23.8	123.8	123.7	8.3	7.2	4.0	3.6	4	4	822034	811442
						1.0	0.7	117	29.6		8.3		23.8		123.5		8.3		4.0		5			
					Middle	4.5	0.6	100	29.3	29.3	8.1	8.1	25.8	25.8	90.5	90.5	6.0		4.6		3			
						4.5	0.6	109	29.3		8.1		25.8		90.4		6.0		4.7		4			
					Bottom	7.9	0.4	109	29.1	29.1	8.0	8.0	26.8	26.8	73.3	73.4	4.9	4.9	2.0		4			
						7.9	0.4	116	29.1		8.0		26.8		73.4		4.9		2.1		3			
IM12	Fine	Rough	09:43	9.8	Surface	1.0	0.6	107	29.7	29.7	8.3	8.3	23.7	23.7	137.1	137.0	9.2	8.1	3.4	3.9	4	4	821441	812027
						1.0	0.6	113	29.7		8.3		23.7		136.8		9.1		3.4		4			
					Middle	4.9	0.5	103	29.4	29.4	8.2	8.2	24.9	24.9	104.6	104.5	7.0		5.0		3			
						4.9	0.5	110	29.4		8.2		24.9		104.4		7.0		5.0		4			
					Bottom	8.8	0.2	97	29.1	29.1	8.0	8.0	26.6	26.6	76.3	76.4	5.1	5.1	3.4		3			
						8.8	0.2	105	29.1		8.0		26.6		76.4		5.1		3.4		4			
SR1A	Fine	Moderate	09:25	5.3	Surface	1.0	-	-	29.7	29.7	8.2	8.2	24.1	24.1	127.2	127.1	8.5	8.5	3.7	4.1	3	4	819975	812659
						1.0	-	-	29.7		8.2		24.1		127.0		8.5		3.7		4			
					Middle	2.7	-	-	-	-	-	-	-	-	-	-	-		-		-			
						2.7	-	-	-		-		-		-		-		-		-			
					Bottom	4.3	-	-	29.6	29.6	8.2	8.2	24.4	24.3	120.2	120.4	8.0	8.0	4.4		4			
						4.3	-	-	29.6		8.2		24.3		120.5		8.0		4.4		4			
SR2	Fine	Moderate	09:15	5.2	Surface	1.0	0.3	84	29.6	29.6	8.2	8.2	24.0	24.1	117.9	117.9	7.9	7.9	4.2	5.0	6	5	821458	814189
						1.0	0.4	85	29.6		8.2		24.1		117.9		7.9		4.2		5			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	4.2	0.1	91	29.4	29.4	8.1	8.1	25.1	25.1	104.6	104.6	7.0	7.0	5.8		4			
						4.2	0.1	91	29.4		8.1		25.1		104.5		7.0		5.8		3			
SR3	Fine	Rough	10:35	8.1	Surface	1.0	0.5	194	29.5	29.5	8.4	8.4	22.4	22.4	145.1	144.9	9.8	7.6	5.4	5.7	5	3	822144	807593
						1.0	0.5	211	29.5		8.4		22.4		144.7		9.8		5.4		4			
					Middle	4.1	0.4	200	29.2	29.2	8.0	8.0	26.3	26.2	80.2	80.2	5.3		6.7		3			
						4.1	0.4	210	29.2		8.0		26.2		80.2		5.3		6.7		3			
					Bottom	7.1	0.2	234	29.1	29.1	8.0	8.0	26.6	26.6	77.0	77.0	5.1	5.1	4.9		2			
						7.1	0.2	235	29.1		8.0		26.6		77.0		5.1		4.9		3			
SR4A	Fine	Moderate	09:00	9.5	Surface	1.0	1.9	265	29.5	29.5	8.4	8.4	23.6	23.6	137.2	137.0	9.2	8.5	4.0	4.7	3	4	817212	807825
						1.0	2.0	273	29.5		8.4		23.6		136.7		9.2		4.0		4			
					Middle	4.8	1.7	267	29.4	29.4	8.2	8.2	23.9	23.9	116.1	116.1	7.8		4.5		4			
						4.8	1.8	279	29.4		8.2		23.9		116.0		7.8		4.6		4			
					Bottom	8.5	1.1	281	29.3	29.3	8.1	8.1	25.1	25.1	101.8	101.7	6.8	6.8	5.7		4			
						8.5	1.1	294	29.3		8.1		25.1		101.5		6.8		5.7		5			
SR5A	Fine	Moderate	08:43	4.9	Surface	1.0	0.1	344	29.5	29.5	8.2	8.2	24.6	24.6	126.1	126.1	8.4	8.4	5.4	6.1	4	4	816580	810706
						1.0	0.1	344	29.5		8.2		24.6		126.1		8.4		5.4		5			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.9	0.1	55	29.5	29.5	8.2	8.2	25.2	25.2	120.2	120.3	8.0	8.0	6.8		3			
						3.9	0.1	57	29.5		8.2		25.2		120.3		8.0		6.8		3			
SR6A	Fine	Moderate	08:13	5.7	Surface	1.0	0.0	249	29.4	29.4	8.2	8.2	25.7	25.7	121.0	121.0	8.0	8.0	5.3	6.1	4	4	817976	814731
						1.0	0.0	251	29.4		8.2		25.7		120.9		8.0		5.3		4			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	4.7	0.1	160	29.3	29.3	8.2	8.2	26.2	26.2	113.9	114.0	7.6	7.6	7.0		4			
						4.7	0.1	160	29.3		8.2		26.2		114.0		7.6		7.0		4			
SR7	Fine	Rough	08:17	17.3	Surface	1.0	0.3	94	29.3	29.3	8.2	8.2	26.0	26.0	115.6	115.6	7.7	7.5	5.0	6.0	4	5	823616	823730
						1.0	0.3	98	29.3		8.2		26.0		115.5		7.7		5.1		5			
					Middle	8.7	0.1	23	29.2	29.2	8.2	8.1	26.6	26.6	108.2	108.2	7.2		6.0		4			
						8.7	0.1	24	29.2		8.1		26.6		108.1		7.2		6.0		5			
					Bottom	16.3	0.2	77	28.9	28.9	8.1	8.1	28.5	28.5	83.6	83.6	5.5	5.5	7.0		4			
						16.3	0.2	82	28.9		8.1		28.5		83.5		5.5		7.0		5			
SR8	Fine	Moderate	09:33	5.1	Surface	1.0	-	-	30.2	30.2	8.2	8.2	24.1	24.1	121.8	121.8	8.0	8.1	4.5	5.3	5	5	820408	811643
						1.0	-	-	30.2		8.2		24.1		121.8		8.1		4.6		5			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	4.1	-	-	29.6	29.6	8.2	8.2	24.4	24.4	112.1	112.0	7.5	7.5	6.0		5			
						4.1	-	-	29.6		8.2		24.4		111.9		7.5		6.1		6			

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

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 02 October 21 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	Sunny	Rough	17:07	7.7	Surface	1.0	0.4	40	30.3	30.3	8.2	8.2	20.9	20.9	128.6	128.7	8.6	8.6	4.3	5.6	7	6	815624	804257
						1.0	0.4	40	30.3		8.2		20.9		128.7		8.6		4.3		6			
					Middle	3.9	1.0	22	30.0	30.0	8.2	8.2	22.3	22.2	129.3	129.5	8.6		5.6		7			
						3.9	1.0	22	30.0		8.2		22.2		129.7		8.7		5.7		6			
					Bottom	6.7	1.3	18	29.6	29.6	8.2	8.2	23.4	23.5	127.3	127.3	8.5	8.5	6.8		6			
						6.7	1.4	19	29.6		8.2		23.5		127.2		8.5		6.8		5			
C2	Sunny	Rough	15:53	8.6	Surface	1.0	0.8	168	29.7	29.7	8.1	8.1	22.1	22.1	105.4	105.3	7.1	6.4	2.6	4.3	4	4	825672	806963
						1.0	0.9	179	29.7		8.1		22.1		105.2		7.1		2.7		3			
					Middle	4.3	0.7	169	29.4	29.4	8.0	8.0	24.4	24.4	86.0	86.0	5.8		3.8		4			
						4.3	0.7	177	29.3		8.0		24.5		85.9		5.7		3.8		3			
					Bottom	7.6	0.0	112	29.0	29.0	8.0	8.0	26.9	26.9	75.4	75.5	5.0	5.0	6.5		3			
						7.6	0.0	120	29.0		8.0		26.9		75.6		5.0		6.5		4			
C3	Sunny	Rough	17:39	10.2	Surface	1.0	0.3	306	29.5	29.5	8.3	8.3	24.7	24.7	133.2	133.3	8.9	7.4	3.7	6.4	4	4	822127	817800
						1.0	0.3	315	29.5		8.3		24.7		133.4		8.9		3.7		4			
					Middle	5.1	0.5	265	29.2	29.2	8.0	8.0	27.1	27.1	87.9	87.9	5.8		6.3		4			
						5.1	0.5	274	29.2		8.0		27.1		87.9		5.8		6.3		4			
					Bottom	9.2	0.3	264	29.0	29.0	8.0	8.0	27.9	28.0	79.6	79.7	5.3	5.3	9.2		4			
						9.2	0.3	284	29.0		8.0		28.0		79.7		5.3		9.2		5			
IM1	Sunny	Moderate	16:47	4.7	Surface	1.0	0.2	342	30.3	30.3	8.4	8.4	20.5	20.5	152.3	152.3	10.2	10.2	4.1	4.9	3	3	817962	807126
						1.0	0.2	315	30.3		8.4		20.5		152.2		10.2		4.1		3			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.7	0.2	270	30.7	30.7	8.3	8.3	21.7	21.7	144.3	144.3	9.6	9.6	5.6		3			
						3.7	0.2	296	30.7		8.3		21.7		144.3		9.6		5.7		4			
IM2	Sunny	Rough	16:37	7.1	Surface	1.0	0.3	22	30.3	30.3	8.2	8.2	20.9	20.9	126.4	126.3	8.5	8.1	4.7	5.8	3	3	818156	806166
						1.0	0.4	22	30.3		8.2		20.9		126.1		8.5		4.7		4			
					Middle	3.6	0.4	12	29.7	29.7	8.2	8.2	23.8	23.8	116.1	116.1	7.7		5.9		3			
						3.6	0.4	12	29.7		8.2		23.8		116.0		7.7		5.9		4			
					Bottom	6.1	0.3	339	29.6	29.6	8.2	8.2	24.3	24.3	109.2	109.3	7.3	7.3	6.7		2			
						6.1	0.3	340	29.6		8.2		24.3		109.3		7.3		6.7		3			
IM3	Sunny	Rough	16:28	6.8	Surface	1.0	0.5	18	30.5	30.5	8.2	8.2	19.3	19.3	124.2	124.2	8.4	8.1	3.6	5.4	4	4	818788	805589
						1.0	0.5	18	30.5		8.2		19.3		124.2		8.4		3.7		4			
					Middle	3.4	0.4	321	29.9	29.9	8.2	8.1	23.0	23.0	117.7	117.6	7.9		6.4		4			
						3.4	0.4	338	29.9		8.1		23.0		117.5		7.8		6.4		3			
					Bottom	5.8	0.3	317	29.8	29.8	8.1	8.1	24.0	24.0	108.0	108.1	7.2	7.2	6.2		4			
						5.8	0.4	319	29.8		8.1		24.0		108.1		7.2		6.3		3			
IM4	Sunny	Rough	16:17	7.4	Surface	1.0	0.8	342	30.1	30.1	8.2	8.2	20.9	21.0	126.1	126.0	8.5	8.5	3.7	5.6	3	3	819711	804591
						1.0	0.9	359	30.1		8.2		21.0		125.9		8.5		3.7		3			
					Middle	3.7	0.7	349	30.0	30.0	8.2	8.2	21.4	21.4	124.8	124.8	8.4		5.6		3			
						3.7	0.7	352	30.0		8.2		21.4		124.7		8.4		5.6		3			
					Bottom	6.4	0.6	341	29.9	29.9	8.2	8.2	22.1	22.1	123.2	123.2	8.3	8.3	7.7		<2			
						6.4	0.6	342	29.9		8.2		22.1		123.2		8.3		7.6		<2			
IM5	Sunny	Rough	16:06	7.3	Surface	1.0	1.1	12	30.3	30.3	8.2	8.2	19.6	19.7	123.0	123.1	8.3	8.3	4.2	5.4	3	3	820725	804873
						1.0	1.2	13	30.3		8.2		19.7		123.2		8.3		4.3		4			
					Middle	3.7	0.9	3	30.0	30.0	8.2	8.2	21.5	21.5	123.4	123.4	8.3		5.2		3			
						3.7	1.0	3	30.0		8.2		21.5		123.4		8.3		5.2		4			
					Bottom	6.3	0.7	29	29.9	29.9	8.2	8.2	22.2	22.2	122.1	122.1	8.2	8.2	6.7		2			
						6.3	0.8	31	29.9		8.2		22.2		122.0		8.2		6.7		3			
IM6	Sunny	Rough	16:00	7.2	Surface	1.0	0.2	183	29.9	29.9	8.2	8.2	21.4	21.4	128.8	128.7	8.7	8.0	6.3	5.5	5	4	821041	805808
						1.0	0.2	190	29.9		8.2		21.3		128.5		8.7		6.3		5			
					Middle	3.6	0.2	66	29.7	29.7	8.1	8.1	24.1	24.1	109.1	109.2	7.3		5.2		4			
						3.6	0.2	67	29.7		8.1		24.1		109.2		7.3		5.2		3			
					Bottom	6.2	0.1	43	29.7	29.7	8.2	8.2	24.3	24.3	110.8	110.9	7.4	7.4	4.8		3			
						6.2	0.2	43	29.7		8.2		24.3		111.0		7.4		4.9		4			
IM7	Sunny	Rough	15:52	6.2	Surface	1.0	0.1	200	29.9	29.9	8.2	8.2	19.9	19.9	108.1	108.1	7.3	6.8	2.7	4.3	4	3	821330	806841
						1.0	0.1	201	29.9		8.2		19.9		108.0		7.3		2.6		3			
					Middle	3.1	0.2	123	29.4	29.4	8.1	8.1	23.4	23.4	94.5	94.4	6.3		3.6		3			
						3.1	0.2	131	29.4		8.1		23.4		94.2		6.3		3.7		3			
					Bottom	5.2	0.2	96	29.1	29.1	8.0	8.0	26.0	26.0	79.7	79.8	5.3	5.3	6.5		4			
						5.2	0.3	105	29.1		8.0		26.0		79.8		5.3		6.5		3			
IM8	Sunny	Rough	16:13	6.8	Surface	1.0	0.3	212	30.3	30.3	8.2	8.2	20.1	20.1	122.3	122.3	8.2	8.3	3.7	5.7	4	3	821850	808158
						1.0	0.3	233	30.3		8.2		20.1		122.3		8.2		3.7		3			
					Middle	3.4	0.3	244	30.0	30.0	8.2	8.2	21.8	21.8	123.5	123.6	8.3		5.7		2			
						3.4	0.3	245	30.0		8.2		21.9		123.6		8.3		5.7		3			
					Bottom	5.8	0.3	234	29.8	29.8	8.2	8.2	22.7	22.7	123.7	123.7	8.3	8.3	7.8		2			
						5.8	0.4	251	29.8		8.2		22.7		123.6		8.3		7.9		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 02 October 21 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	Sunny	Rough	16:19	6.4	Surface	1.0	0.2	193	30.0	30.0	8.2	8.2	21.5	21.5	122.9	122.9	8.3	8.2	3.5	5.7	2	3	822100	808833
						1.0	0.2	197	30.0		8.2		21.5		122.9		8.3		3.5		2			
					Middle	3.2	0.2	218	29.9	29.9	8.2	8.2	22.6	22.6	119.1	119.1	8.0		6.6		2			
						3.2	0.2	226	29.9		8.2		22.6		119.0		8.0		6.6		3			
					Bottom	5.4	0.3	239	29.8	29.8	8.2	8.2	23.2	23.2	116.1	116.1	7.8	7.8	7.0		3			
						5.4	0.3	241	29.8		8.2		23.2		116.1		7.8		7.1		3			
IM10	Sunny	Rough	16:27	7.3	Surface	1.0	0.2	125	30.1	30.1	8.2	8.2	21.5	21.4	120.2	120.1	8.1	7.8	3.5	4.7	3	5	822407	809787
						1.0	0.2	136	30.1		8.2		21.3		120.0		8.1		3.6		4			
					Middle	3.7	0.3	54	29.8	29.8	8.1	8.1	23.7	23.7	110.5	110.5	7.4		4.2		4			
						3.7	0.3	54	29.8		8.1		23.7		110.5		7.4		4.3		5			
					Bottom	6.3	0.1	76	29.7	29.7	8.1	8.1	24.1	24.1	103.1	103.1	6.9	6.9	6.3		6			
						6.3	0.1	76	29.7		8.1		24.1		103.0		6.9		6.3		6			
IM11	Sunny	Rough	16:37	7.0	Surface	1.0	0.2	101	29.9	29.9	8.2	8.2	23.6	23.6	114.8	114.8	7.6	7.6	2.3	3.3	4	4	822039	811481
						1.0	0.2	101	29.9		8.2		23.6		114.8		7.6		2.4		4			
					Middle	3.5	0.2	73	29.6	29.6	8.2	8.2	24.0	24.0	112.4	112.3	7.5		3.7		4			
						3.5	0.2	79	29.6		8.2		24.0		112.2		7.5		3.8		4			
					Bottom	6.0	0.0	74	29.4	29.4	8.1	8.1	24.7	24.7	103.3	101.4	6.9	6.8	3.9		3			
						6.0	0.0	81	29.4		8.1		24.7		99.4		6.6		3.9		2			
IM12	Sunny	Rough	16:43	8.1	Surface	1.0	0.3	100	30.1	30.1	8.2	8.2	21.9	21.9	129.8	129.7	8.7	8.6	1.7	3.8	4	4	821443	812028
						1.0	0.3	107	30.1		8.2		21.9		129.5		8.7		1.8		5			
					Middle	4.1	0.2	86	29.6	29.6	8.3	8.3	23.3	23.3	125.6	125.5	8.4		4.2		3			
						4.1	0.2	93	29.6		8.3		23.3		125.3		8.4		4.2		3			
					Bottom	7.1	0.1	349	29.1	29.1	8.0	8.0	26.2	26.3	76.9	75.1	5.1	5.0	5.4		3			
						7.1	0.1	321	29.1		8.0		26.3		73.2		4.9		5.4		4			
SR1A	Sunny	Moderate	17:04	3.5	Surface	1.0	-	-	30.1	30.1	8.4	8.4	21.8	21.7	160.2	160.1	10.7	10.7	5.6	4.7	5	5	819981	812659
						1.0	-	-	30.1		8.4		21.7		160.0		10.7		5.6		4			
					Middle	1.8	-	-	-	-	-	-	-	-	-	-	-		-		-			
						1.8	-	-	-		-		-		-		-		-		-			
					Bottom	2.5	-	-	29.9	29.9	8.3	8.3	23.6	23.6	150.9	151.0	10.0	10.1	3.9		5			
						2.5	-	-	29.9		8.3		23.6		151.0		10.1		3.9		6			
SR2	Sunny	Moderate	17:18	4.1	Surface	1.0	0.1	344	30.4	30.4	8.3	8.3	21.6	21.6	141.7	141.7	9.5	9.5	5.7	6.0	4	4	821466	814180
						1.0	0.1	316	30.4		8.3		21.6		141.6		9.4		5.7		5			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.1	0.1	331	30.2	30.2	8.3	8.3	21.9	21.9	142.7	142.7	9.5	9.5	6.3		4			
						3.1	0.1	342	30.2		8.3		21.8		142.7		9.5		6.3		3			
SR3	Sunny	Rough	16:08	7.5	Surface	1.0	0.6	211	29.7	29.7	8.2	8.2	22.3	22.2	124.1	124.2	8.3	7.7	3.2	4.7	2	3	822166	807559
						1.0	0.6	212	29.7		8.2		22.2		124.2		8.4		3.2		3			
					Middle	3.8	0.5	227	29.7	29.7	8.1	8.1	24.3	24.3	106.8	106.7	7.1		4.3		2			
						3.8	0.5	241	29.7		8.1		24.3		106.5		7.1		4.3		3			
					Bottom	6.5	0.3	249	29.7	29.7	8.1	8.1	24.6	24.6	103.1	103.1	6.8	6.8	6.5		3			
						6.5	0.3	261	29.7		8.1		24.6		103.1		6.8		6.5		4			
SR4A	Sunny	Moderate	17:31	9.7	Surface	1.0	1.7	213	30.3	30.3	8.4	8.4	20.1	20.1	154.3	154.3	10.4	10.2	2.9	4.1	4	4	817190	807832
						1.0	1.7	226	30.3		8.4		20.1		154.3		10.4		2.9		4			
					Middle	4.9	1.8	209	30.0	30.0	8.4	8.4	22.5	22.5	149.2	149.0	10.0		3.6		4			
						4.9	1.8	211	30.0		8.4		22.5		148.8		10.0		3.6		5			
					Bottom	8.7	1.5	229	29.2	29.2	8.1	8.1	26.0	26.0	95.9	95.9	6.4	6.4	5.8		4			
						8.7	1.6	231	29.2		8.1		26.0		95.9		6.4		5.8		5			
SR5A	Sunny	Moderate	17:47	4.3	Surface	1.0	0.1	341	30.5	30.5	8.3	8.3	21.5	21.5	139.8	139.8	9.3	9.3	5.6	6.2	5	4	816583	810707
						1.0	0.1	314	30.5		8.3		21.5		139.8		9.3		5.6		5			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.3	0.1	13	29.9	29.9	8.3	8.3	22.9	22.9	145.2	145.1	9.7	9.7	6.8		3			
						3.3	0.1	14	29.9		8.3		22.9		144.9		9.7		6.8		2			
SR6A	Sunny	Moderate	18:15	4.5	Surface	1.0	0.1	216	29.8	29.8	8.3	8.3	24.5	24.5	149.0	148.7	9.9	9.9	5.3	5.6	4	4	817983	814721
						1.0	0.1	225	29.8		8.3		24.5		148.4		9.9		5.4		5			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.5	0.1	225	29.3	29.3	8.1	8.1	25.8	25.8	103.7	103.8	6.9	6.9	5.8		3			
						3.5	0.1	230	29.3		8.1		25.8		103.9		6.9		5.9		3			
SR7	Sunny	Rough	18:06	15.5	Surface	1.0	0.1	156	29.9	29.9	8.3	8.3	24.9	24.9	147.3	147.2	9.7	8.7	3.4	4.8	5	4	823658	823760
						1.0	0.1	170	29.9		8.3		24.9		147.1		9.7		3.4		4			
					Middle	7.8	0.1	47	29.6	29.6	8.2	8.2	25.8	25.8	114.4	114.5	7.6		4.6		4			
						7.8	0.2	47	29.6		8.2		25.8		114.5		7.6		4.7		4			
					Bottom	14.5	0.1	356	29.1	29.1	8.1	8.1	27.7	27.7	86.1	86.2	5.7	5.7	6.4		4			
						14.5	0.1	328	29.0		8.1		27.8		86.2		5.7		6.4		3			
SR8	Sunny	Moderate	16:54	3.9	Surface	1.0	-	-	30.4	30.4	8.3	8.3	20.9	20.9	146.1	146.1	9.8	9.8	4.2	3.7	5	5	820374	811604
						1.0	-	-	30.4		8.3		20.9		146.0		9.8		4.3		5			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	2.9	-	-	30.7	30.7	8.3	8.3	21.4	21.4	140.5	140.6	9.3	9.3	3.0		4			
						2.9	-	-	30.7		8.3		21.4		140.6		9.3		3.1		4			

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

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 05 October 21 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	Sunny	Moderate	11:28	8.3	Surface	1.0	0.5	224	29.0	29.0	8.2	8.2	28.8	28.8	85.5	85.5	5.6	5.5	2.5	7.1	9	9	815612	804257
						1.0	0.5	224	29.0		8.2		28.8		85.4		5.6		2.7		8			
					Middle	4.2	0.4	213	28.8	28.8	8.2	8.2	29.2	29.3	80.4	80.4	5.3		8.2		9			
						4.2	0.4	230	28.8		8.2		29.3		80.3		5.3		9.0		9			
					Bottom	7.3	0.3	198	28.8	28.8	8.2	8.2	29.4	29.3	80.3	80.4	5.3	5.3	10.1		9			
						7.3	0.3	203	28.8		8.2		29.3		80.5		5.3		10.0		10			
C2	Fine	Moderate	10:29	12.6	Surface	1.0	0.3	287	29.5	29.5	8.2	8.2	28.3	28.3	90.5	90.5	5.9	5.6	6.0	7.6	8	7	825667	806965
						1.0	0.4	308	29.5		8.2		28.3		90.4		5.9		6.1		7			
					Middle	6.3	0.3	288	29.3	29.3	8.2	8.2	29.7	29.8	82.1	82.2	5.3		7.6		7			
						6.3	0.3	316	29.3		8.2		29.8		82.2		5.3		7.6		6			
					Bottom	11.6	0.3	290	29.3	29.3	8.2	8.2	29.9	29.9	83.6	83.8	5.4	5.5	8.9		7			
						11.6	0.3	307	29.3		8.2		29.9		84.0		5.5		9.0		7			
C3	Fine	Moderate	12:16	12.7	Surface	1.0	0.3	331	29.4	29.4	8.2	8.2	29.7	29.7	88.8	88.8	5.8	5.4	6.1	6.9	10	10	822092	817809
						1.0	0.3	356	29.4		8.2		29.7		88.8		5.8		6.1		11			
					Middle	6.3	0.4	327	29.2	29.2	8.1	8.1	30.5	30.5	77.9	77.9	5.0		7.0		11			
						6.3	0.4	334	29.2		8.1		30.5		77.8		5.0		6.9		10			
					Bottom	11.7	0.3	327	29.1	29.1	8.1	8.1	30.8	30.8	76.9	77.0	5.0	5.0	7.8		10			
						11.7	0.4	346	29.1		8.1		30.7		77.1		5.0		7.8		9			
IM1	Sunny	Moderate	11:10	5.4	Surface	1.0	0.1	214	28.9	28.9	8.2	8.2	28.1	28.1	86.0	86.0	5.7	5.7	4.7	7.6	6	7	817955	807108
						1.0	0.2	216	28.9		8.2		28.2		85.9		5.7		5.4		7			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	4.4	0.2	171	28.8	28.8	8.2	8.2	28.7	28.7	81.1	81.3	5.3	5.4	10.2		8			
						4.4	0.2	171	28.8		8.2		28.7		81.5		5.4		10.0		8			
IM2	Sunny	Moderate	11:03	7.2	Surface	1.0	0.2	164	28.9	28.9	8.2	8.2	28.1	28.2	83.4	83.2	5.5	5.4	2.3	7.4	5	7	818151	806161
						1.0	0.2	166	28.8		8.2		28.2		82.9		5.5		2.5		6			
					Middle	3.6	0.2	167	28.8	28.8	8.2	8.2	28.5	28.6	80.9	80.8	5.3		7.3		8			
						3.6	0.2	167	28.8		8.2		28.6		80.7		5.3		8.0		8			
					Bottom	6.2	0.2	124	28.8	28.8	8.2	8.2	28.8	28.8	81.0	81.2	5.3	5.4	12.0		8			
						6.2	0.2	136	28.8		8.2		28.8		81.4		5.4		12.2		8			
IM3	Sunny	Moderate	10:57	7.6	Surface	1.0	0.2	185	28.9	28.9	8.2	8.2	28.2	28.2	83.9	83.7	5.5	5.5	2.9	5.1	9	9	818796	805593
						1.0	0.2	187	28.9		8.2		28.2		83.4		5.5		2.9		8			
					Middle	3.8	0.2	162	28.8	28.8	8.2	8.2	28.6	28.6	81.9	81.9	5.4		3.0		8			
						3.8	0.3	172	28.8		8.2		28.6		81.8		5.4		3.0		9			
					Bottom	6.6	0.2	121	28.8	28.8	8.2	8.2	28.8	28.8	81.9	82.0	5.4	5.4	9.3		10			
						6.6	0.3	129	28.8		8.2		28.8		82.1		5.4		9.5		9			
IM4	Sunny	Moderate	10:48	8.5	Surface	1.0	0.4	193	28.9	28.9	8.2	8.2	27.8	27.9	84.5	84.5	5.6	5.6	3.1	5.7	6	6	819731	804620
						1.0	0.4	204	28.9		8.2		27.9		84.4		5.6		3.3		7			
					Middle	4.3	0.4	174	28.8	28.8	8.2	8.2	28.4	28.4	83.5	83.5	5.5		5.7		5			
						4.3	0.4	182	28.8		8.2		28.4		83.4		5.5		5.0		5			
					Bottom	7.5	0.2	141	28.8	28.8	8.2	8.2	28.6	28.6	83.9	84.1	5.5	5.6	8.7		5			
						7.5	0.2	147	28.8		8.2		28.6		84.2		5.6		8.6		5			
IM5	Sunny	Moderate	10:42	8.8	Surface	1.0	0.4	224	29.0	29.0	8.2	8.2	27.1	27.2	88.2	88.1	5.8	5.6	2.1	8.5	6	6	820719	804856
						1.0	0.5	229	29.0		8.2		27.3		88.0		5.8		2.2		7			
					Middle	4.4	0.3	200	28.8	28.8	8.2	8.2	28.4	28.4	82.0	82.0	5.4		8.8		6			
						4.4	0.4	204	28.8		8.2		28.4		81.9		5.4		8.8		6			
					Bottom	7.8	0.2	172	28.8	28.8	8.2	8.2	28.5	28.5	82.9	83.1	5.5	5.5	14.6		6			
						7.8	0.3	175	28.8		8.2		28.5		83.2		5.5		14.7		5			
IM6	Sunny	Moderate	10:35	8.1	Surface	1.0	0.3	252	29.0	29.0	8.2	8.2	27.1	27.1	88.7	88.7	5.9	5.6	2.1	7.9	6	7	821062	805815
						1.0	0.4	252	29.0		8.2		27.0		88.7		5.9		2.1		7			
					Middle	4.1	0.2	226	28.8	28.8	8.2	8.2	28.3	28.3	79.2	79.2	5.2		8.3		6			
						4.1	0.2	239	28.8		8.2		28.3		79.1		5.2		9.2		7			
					Bottom	7.1	0.2	182	28.8	28.8	8.2	8.2	28.5	28.5	79.3	79.4	5.2	5.3	13.0		8			
						7.1	0.2	200	28.8		8.2		28.5		79.5		5.3		12.9		8			
IM7	Sunny	Moderate	10:29	8.2	Surface	1.0	0.1	241	29.0	29.0	8.2	8.2	27.0	27.1	89.1	89.0	5.9	5.6	2.6	5.2	7	7	821331	806848
						1.0	0.1	250	29.0		8.2		27.2		88.9		5.9		2.9		7			
					Middle	4.1	0.1	131	28.8	28.8	8.2	8.2	28.0	28.0	79.7	79.7	5.3		4.5		7			
						4.1	0.1	141	28.8		8.2		28.0		79.6		5.3		4.5		7			
					Bottom	7.2	0.2	157	28.8	28.8	8.2	8.2	28.1	28.1	79.5	79.6	5.3	5.3	8.2		7			
						7.2	0.2	159	28.8		8.2		28.1		79.6		5.3		8.4		6			
IM8	Fine	Moderate	10:51	8.6	Surface	1.0	0.0	218	29.6	29.6	8.2	8.2	28.3	28.3	93.9	93.9	6.1	5.9	5.3	8.2	7	6	821809	808153
						1.0	0.0	238	29.6		8.2		28.3		93.8		6.1		5.4		6			
					Middle	4.3	0.1	145	29.3	29.3	8.2	8.2	29.2	29.3	86.4	86.5	5.6		9.4		5			
						4.3	0.1	157	29.3		8.2		29.3		86.5		5.6		9.4		5			
					Bottom	7.6	0.1	135	29.3	29.3	8.2	8.2	29.6	29.6	87.2	87.3	5.7	5.7	9.9		6			
						7.6	0.1	145	29.3		8.2		29.6		87.4		5.7		10.0		5			

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

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 05 October 21 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	Moderate	10:57	8.0	Surface	1.0	0.0	12	29.6	29.6	8.2	8.2	28.3	28.3	94.6	94.6	6.2	5.9	5.4	6.5	6	6	822090	808799
						1.0	0.0	12	29.6		8.2		28.3		94.5		6.2		5.4		5			
					Middle	4.0	0.0	108	29.3	29.3	8.2	8.2	29.1	29.2	86.6	86.6	5.6		6.3		6			
						4.0	0.0	116	29.3		8.2		29.2		86.6		5.6		6.3		5			
					Bottom	7.0	0.0	44	29.2	29.2	8.2	8.2	29.7	29.7	87.1	87.3	5.7	5.7	7.7		8			
						7.0	0.0	45	29.2		8.2		29.7		87.4		5.7		7.6		8			
IM10	Fine	Moderate	11:05	8.4	Surface	1.0	0.1	8	29.3	29.3	8.2	8.2	28.8	28.8	85.6	85.6	5.6	5.6	8.5	9.3	7	7	822395	809796
						1.0	0.1	8	29.3		8.2		28.8		85.6		5.6		8.4		8			
					Middle	4.2	0.1	8	29.3	29.3	8.2	8.2	29.0	29.0	84.7	84.7	5.5		9.4		10			
						4.2	0.1	8	29.3		8.2		29.0		84.6		5.5		9.3		5			
					Bottom	7.4	0.1	4	29.3	29.3	8.2	8.2	29.2	29.2	84.5	84.6	5.5	5.5	10.3		5			
						7.4	0.1	4	29.3		8.2		29.2		84.6		5.5		10.2		4			
IM11	Fine	Moderate	11:13	9.0	Surface	1.0	0.2	179	29.5	29.5	8.2	8.2	28.7	28.7	89.2	89.2	5.8	5.7	5.8	6.7	8	7	822055	811471
						1.0	0.2	195	29.5		8.2		28.8		89.1		5.8		5.9		7			
					Middle	4.5	0.2	188	29.3	29.3	8.2	8.2	29.4	29.4	86.3	86.4	5.6		6.5		8			
						4.5	0.2	189	29.3		8.2		29.4		86.4		5.6		6.4		7			
					Bottom	8.0	0.1	192	29.3	29.3	8.2	8.2	29.4	29.4	89.5	89.7	5.8	5.8	7.8		7			
						8.0	0.1	206	29.3		8.2		29.4		89.8		5.8		7.7		6			
IM12	Fine	Moderate	11:19	10.0	Surface	1.0	0.1	349	29.6	29.6	8.2	8.2	28.5	28.5	93.0	93.0	6.1	5.8	5.7	6.5	7	8	821440	812033
						1.0	0.1	358	29.6		8.2		28.5		92.9		6.0		5.7		8			
					Middle	5.0	0.1	336	29.4	29.4	8.2	8.2	29.1	29.1	85.2	85.3	5.6		6.4		7			
						5.0	0.1	353	29.4		8.2		29.1		85.3		5.6		6.3		8			
					Bottom	9.0	0.1	336	29.4	29.4	8.2	8.2	29.1	29.1	86.5	86.6	5.6	5.6	7.4		8			
						9.0	0.1	347	29.4		8.2		29.1		86.6		5.6		7.4		9			
SR1A	Fine	Moderate	11:45	4.5	Surface	1.0	-	-	29.5	29.5	8.2	8.2	28.8	28.8	90.8	90.7	5.9	5.9	5.9	6.1	7	7	819975	812663
						1.0	-	-	29.5		8.2		28.8		90.5		5.9		5.8		7			
					Middle	2.3	-	-	-	-	-	-	-	-	-	-	-		-		-			
						2.3	-	-	-		-		-		-		-		-		-			
					Bottom	3.5	-	-	29.5	29.4	8.2	8.2	28.9	28.9	92.2	93.1	6.0	6.1	6.4		7			
						3.5	-	-	29.2		8.2		29.0		94.0		6.1		6.4		8			
SR2	Fine	Moderate	11:58	4.6	Surface	1.0	0.1	85	29.5	29.5	8.2	8.2	28.9	28.9	89.3	89.4	5.8	5.8	8.4	9.1	9	10	821458	814163
						1.0	0.1	93	29.5		8.2		28.9		89.4		5.8		8.3		8			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.6	0.0	79	29.4	29.4	8.2	8.2	29.0	29.0	89.3	91.1	5.8	5.9	9.8		10			
						3.6	0.0	86	29.4		8.2		29.0		92.8		6.0		9.9		11			
SR3	Fine	Moderate	10:44	10.5	Surface	1.0	0.1	155	29.5	29.5	8.2	8.2	28.4	28.4	90.2	90.2	5.9	5.8	6.9	7.2	6	7	822168	807562
						1.0	0.1	165	29.5		8.2		28.4		90.2		5.9		6.8		7			
					Middle	5.3	0.1	148	29.3	29.3	8.2	8.2	29.3	29.3	85.3	85.3	5.6		7.1		6			
						5.3	0.1	149	29.3		8.2		29.3		85.3		5.6		7.1		7			
					Bottom	9.5	0.1	141	29.2	29.2	8.2	8.2	29.9	29.9	86.1	86.2	5.6	5.6	7.6		7			
						9.5	0.1	146	29.2		8.2		29.9		86.3		5.6		7.5		6			
SR4A	Sunny	Moderate	11:54	8.6	Surface	1.0	0.1	59	28.9	28.9	8.2	8.2	28.3	28.3	85.2	85.2	5.6	5.5	3.7	5.4	10	9	817185	807822
						1.0	0.1	59	28.9		8.2		28.4		85.2		5.6		3.9		10			
					Middle	4.3	0.1	70	28.8	28.8	8.2	8.2	28.5	28.6	80.3	80.3	5.3		5.5		8			
						4.3	0.1	72	28.8		8.2		28.6		80.3		5.3		5.7		9			
					Bottom	7.6	0.1	58	28.8	28.8	8.2	8.2	28.7	28.7	81.5	81.8	5.4	5.4	6.8		8			
						7.6	0.1	63	28.8		8.2		28.7		82.0		5.4		6.8		9			
SR5A	Sunny	Moderate	12:11	4.2	Surface	1.0	0.1	256	29.1	29.1	8.2	8.2	27.9	27.9	89.7	89.5	5.9	5.9	4.2	5.2	11	9	816616	810686
						1.0	0.1	265	29.0		8.2		27.9		89.2		5.9		4.5		12			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.2	0.0	229	28.9	28.9	8.2	8.2	28.0	28.0	85.9	86.1	5.7	5.7	6.4		7			
						3.2	0.0	234	28.9		8.2		28.0		86.3		5.7		5.8		6			
SR6A	Sunny	Moderate	12:58	4.5	Surface	1.0	0.0	155	29.3	29.3	8.2	8.2	27.0	27.0	94.2	94.0	6.2	6.2	2.9	3.1	9	9	817966	814746
						1.0	0.0	156	29.2		8.2		27.0		93.8		6.2		2.9		9			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.5	0.1	252	29.1	29.1	8.2	8.2	27.2	27.2	90.0	90.2	6.0	6.0	3.4		9			
						3.5	0.1	275	29.1		8.2		27.2		90.3		6.0		3.1		10			
SR7	Fine	Moderate	12:42	16.0	Surface	1.0	0.3	169	29.4	29.4	8.2	8.2	30.1	30.1	88.1	88.0	5.7	5.7	4.2	5.1	8	8	823630	823764
						1.0	0.3	181	29.4		8.2		30.2		87.8		5.7		4.3		8			
					Middle	8.0	0.3	173	29.3	29.3	8.2	8.2	30.4	30.4	86.7	86.7	5.6		5.4		7			
						8.0	0.3	180	29.3		8.2		30.4		86.7		5.6		5.3		8			
					Bottom	15.0	0.3	173	29.3	29.3	8.2	8.2	30.4	30.4	89.6	89.8	5.8	5.8	5.8		7			
						15.0	0.3	183	29.3		8.2		30.4		89.9		5.8		5.8		8			
SR8	Fine	Moderate	11:27	3.8	Surface	1.0	-	-	30.2	30.2	8.2	8.2	28.7	28.7	97.5	97.6	6.3	6.3	6.7	7.8	9	9	820402	811636
						1.0	-	-	30.2		8.2		28.7		97.6		6.3		6.7		9			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	2.8	-	-	30.2	30.2	8.2	8.2	28.7	28.7	98.3	98.4	6.3	6.3	8.9		8			
						2.8	-	-	30.2		8.2		28.7		98.5		6.3		8.9		9			

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

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 05 October 21 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	05:50	8.7	Surface	1.0	0.4	34	28.7	28.8	8.2	8.2	28.7	28.7	84.1	84.0	5.5	5.5	4.2	7.5	5	5	815639	804228
						1.0	0.4	34	28.8		8.2		28.7		83.9		5.5		4.4		4			
					Middle	4.4	0.4	41	28.8	28.8	8.2	8.2	28.9	28.9	83.0	82.8	5.5		5.1		5			
						4.4	0.4	42	28.8		8.2		28.9		82.6		5.4		4.9		6			
					Bottom	7.7	0.4	40	28.8	28.8	8.2	8.2	29.1	29.0	79.6	79.7	5.2	5.3	13.3		5			
						7.7	0.4	42	28.8		8.2		29.0		79.8		5.3		13.3		6			
C2	Fine	Moderate	06:49	13.0	Surface	1.0	0.1	347	29.5	29.5	8.2	8.2	28.3	28.3	89.3	89.3	5.8	5.7	6.5	7.6	9	7	825700	806938
						1.0	0.1	319	29.5		8.2		28.3		89.2		5.8		6.6		6			
					Middle	6.5	0.2	343	29.3	29.3	8.2	8.2	29.0	29.0	86.0	86.0	5.6		7.8		8			
						6.5	0.2	316	29.3		8.2		29.0		85.9		5.6		7.7		7			
					Bottom	12.0	0.1	5	29.3	29.3	8.2	8.2	29.4	29.4	86.3	86.4	5.6	5.6	8.5		7			
						12.0	0.1	5	29.3		8.2		29.4		86.5		5.6		8.5		6			
C3	Fine	Moderate	04:47	12.0	Surface	1.0	0.3	338	29.2	29.2	8.2	8.2	29.2	29.2	87.6	87.5	5.7	5.4	3.0	7.5	3	3	822095	817794
						1.0	0.3	341	29.2		8.2		29.2		87.3		5.7		3.0		4			
					Middle	6.0	0.4	339	29.1	29.1	8.1	8.1	30.9	30.9	76.9	77.0	5.0		9.4		3			
						6.0	0.4	344	29.1		8.1		30.9		77.0		5.0		9.3		3			
					Bottom	11.0	0.4	340	29.1	29.1	8.1	8.1	30.9	30.9	78.1	78.2	5.1	5.1	10.1		3			
						11.0	0.4	348	29.1		8.1		30.9		78.2		5.1		10.0		3			
IM1	Cloudy	Moderate	06:10	5.8	Surface	1.0	0.1	228	28.8	28.8	8.2	8.2	28.0	28.0	84.1	84.2	5.6	5.6	3.7	5.1	8	10	817959	807116
						1.0	0.1	228	28.8		8.2		28.0		84.3		5.6		3.6		9			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	4.8	0.1	310	28.8	28.8	8.1	8.1	28.0	28.0	86.3	86.6	5.7	5.7	6.6		11			
						4.8	0.1	312	28.8		8.1		28.0		86.8		5.7		6.6		10			
IM2	Cloudy	Moderate	06:17	7.7	Surface	1.0	0.1	315	28.8	28.8	8.2	8.2	28.1	28.2	80.2	80.2	5.3	5.3	5.1	7.0	14	13	818185	806152
						1.0	0.1	332	28.8		8.2		28.2		80.1		5.3		5.3		13			
					Middle	3.9	0.1	0	28.8	28.8	8.2	8.2	28.6	28.6	80.0	80.1	5.3		6.7		14			
						3.9	0.1	0	28.8		8.2		28.6		80.1		5.3		7.0		13			
					Bottom	6.7	0.2	46	28.8	28.8	8.2	8.2	28.8	28.8	81.5	81.7	5.4	5.4	9.2		12			
						6.7	0.2	50	28.8		8.2		28.8		81.8		5.4		8.9		11			
IM3	Cloudy	Moderate	06:23	7.3	Surface	1.0	0.2	294	28.8	28.8	8.2	8.2	28.2	28.3	80.5	80.5	5.3	5.3	5.2	8.2	11	12	818803	805573
						1.0	0.2	307	28.8		8.2		28.3		80.4		5.3		5.3		12			
					Middle	3.7	0.2	333	28.8	28.8	8.2	8.2	28.6	28.6	80.5	80.6	5.3		6.4		12			
						3.7	0.2	353	28.8		8.2		28.6		80.6		5.3		6.6		13			
					Bottom	6.3	0.3	33	28.8	28.8	8.2	8.2	28.8	28.8	81.2	81.3	5.3	5.4	13.0		12			
						6.3	0.3	33	28.8		8.2		28.8		81.4		5.4		13.0		13			
IM4	Cloudy	Moderate	06:32	8.8	Surface	1.0	0.3	359	28.8	28.8	8.2	8.2	28.7	28.7	83.2	83.1	5.5	5.5	5.9	8.7	10	11	819707	804612
						1.0	0.3	330	28.8		8.2		28.7		83.0		5.5		6.2		11			
					Middle	4.4	0.2	355	28.8	28.8	8.2	8.2	28.7	28.7	82.8	83.0	5.5		8.8		12			
						4.4	0.2	327	28.8		8.2		28.7		83.1		5.5		9.0		11			
					Bottom	7.8	0.2	342	28.8	28.8	8.2	8.2	28.7	28.7	84.5	84.7	5.6	5.6	11.2		11			
						7.8	0.2	346	28.8		8.2		28.7		84.8		5.6		11.1		12			
IM5	Cloudy	Moderate	06:42	7.9	Surface	1.0	0.4	1	28.8	28.8	8.2	8.2	28.6	28.6	84.2	84.1	5.6	5.5	7.2	11.6	13	12	820756	804873
						1.0	0.4	1	28.8		8.2		28.6		84.0		5.5		7.7		12			
					Middle	4.0	0.3	11	28.8	28.8	8.2	8.2	28.7	28.7	82.8	82.8	5.5		9.9		13			
						4.0	0.3	11	28.8		8.2		28.7		82.8		5.5		9.4		12			
					Bottom	6.9	0.2	17	28.8	28.8	8.2	8.2	28.7	28.7	83.4	83.6	5.5	5.5	17.7		11			
						6.9	0.2	17	28.7		8.2		28.7		83.8		5.5		17.9		12			
IM6	Cloudy	Moderate	06:54	8.1	Surface	1.0	0.1	283	29.0	29.0	8.1	8.1	26.5	26.5	88.9	88.7	5.9	5.6	0.5	4.8	7	6	821060	805836
						1.0	0.1	293	29.0		8.1		26.5		88.5		5.9		0.5		6			
					Middle	4.1	0.1	11	28.8	28.8	8.2	8.2	27.9	27.9	79.6	79.6	5.3		5.2		7			
						4.1	0.1	12	28.8		8.2		27.9		79.6		5.3		5.8		6			
					Bottom	7.1	0.1	85	28.8	28.8	8.1	8.1	28.0	28.0	81.7	83.9	5.4	5.6	8.1		6			
						7.1	0.1	90	28.8		8.1		28.0		86.0		5.7		8.6		5			
IM7	Cloudy	Moderate	07:02	8.8	Surface	1.0	0.0	152	28.9	28.9	8.2	8.2	27.1	27.2	89.1	88.9	5.9	5.8	5.2	9.3	6	7	821335	806849
						1.0	0.0	155	28.9		8.2		27.2		88.6		5.9		5.5		6			
					Middle	4.4	0.1	110	28.8	28.8	8.1	8.1	27.7	27.7	83.7	84.1	5.6		10.5		6			
						4.4	0.1	111	28.8		8.1		27.7		84.4		5.6		10.8		7			
					Bottom	7.8	0.1	126	28.8	28.8	8.1	8.1	27.7	27.7	85.4	85.6	5.7	5.7	11.9		7			
						7.8	0.1	136	28.8		8.1		27.7		85.8		5.7		11.9		7			
IM8	Fine	Moderate	06:22	9.0	Surface	1.0	0.2	274	29.5	29.5	8.2	8.2	28.1	28.1	87.9	87.8	5.7	5.7	7.1	8.8	8	7	821836	808141
						1.0	0.2	278	29.5		8.2		28.1		87.7		5.7		7.2		8			
					Middle	4.5	0.2	272	29.4	29.4	8.2	8.2	28.5	28.6	85.7	85.6	5.6		9.2		8			
						4.5	0.2	276	29.4		8.2		28.6		85.5		5.6		9.2		7			
					Bottom	8.0	0.2	273	29.3	29.3	8.2	8.2	29.3	29.3	83.6	83.6	5.4	5.5	9.9		7			
						8.0	0.2	299	29.2		8.2		29.4		83.5		5.5		10.0		6			

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

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 05 October 21 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	06:16	8.4	Surface	1.0	0.2	337	29.5	29.5	8.2	8.2	28.1	28.1	90.2	90.2	5.9	5.9	4.9	6.8	10	11	822106	808817
						1.0	0.3	310	29.5		8.2		28.1		90.1		5.9		4.9		11			
					Middle	4.2	0.3	336	29.4	29.4	8.2	8.2	28.2	28.2	89.0	89.0	5.8		7.4		10			
						4.2	0.3	345	29.4		8.2		28.2		89.0		5.8		7.4		11			
					Bottom	7.4	0.3	331	29.4	29.4	8.2	8.2	28.3	28.2	91.0	91.1	6.0	6.0	8.2		10			
						7.4	0.3	305	29.4		8.2		28.2		91.1		6.0		8.1		11			
IM10	Fine	Moderate	06:09	10.0	Surface	1.0	0.2	341	29.3	29.3	8.2	8.2	28.3	28.4	88.2	88.2	5.8	5.8	5.5	8.3	13	12	822379	809777
						1.0	0.3	314	29.3		8.2		28.4		88.2		5.8		5.5		14			
					Middle	5.0	0.3	339	29.4	29.4	8.2	8.2	28.8	28.8	86.9	86.9	5.7		9.4		13			
						5.0	0.3	349	29.4		8.2		28.8		86.9		5.7		9.4		14			
					Bottom	9.0	0.2	343	29.4	29.4	8.2	8.2	28.8	28.8	88.0	88.1	5.7	5.8	9.9		10			
						9.0	0.3	347	29.4		8.2		28.8		88.2		5.8		9.9		9			
IM11	Fine	Moderate	05:59	9.4	Surface	1.0	0.2	33	29.3	29.3	8.2	8.2	29.1	29.1	86.1	86.1	5.6	5.6	8.5	9.4	13	12	822045	811477
						1.0	0.3	35	29.3		8.2		29.1		86.0		5.6		8.5		12			
					Middle	4.7	0.3	38	29.3	29.3	8.2	8.2	29.3	29.3	84.9	84.9	5.5		9.1		11			
						4.7	0.3	39	29.3		8.2		29.3		84.8		5.5		9.1		12			
					Bottom	8.4	0.2	36	29.3	29.3	8.2	8.2	29.5	29.5	85.7	85.8	5.6	5.6	10.5		12			
						8.4	0.3	37	29.3		8.2		29.5		85.9		5.6		10.6		11			
IM12	Fine	Moderate	05:52	10.3	Surface	1.0	0.2	5	29.4	29.4	8.2	8.2	29.0	29.0	87.6	87.6	5.7	5.7	7.8	9.9	15	13	821437	812047
						1.0	0.3	5	29.4		8.2		29.0		87.6		5.7		7.8		15			
					Middle	5.2	0.3	6	29.4	29.4	8.2	8.2	29.1	29.1	85.9	85.9	5.6		10.6		12			
						5.2	0.3	6	29.4		8.2		29.1		85.8		5.6		10.7		12			
					Bottom	9.3	0.3	8	29.3	29.3	8.2	8.2	29.1	29.1	85.0	84.8	5.5	5.5	11.3		13			
						9.3	0.3	8	29.3		8.2		29.1		84.6		5.5		11.2		12			
SR1A	Fine	Moderate	05:22	5.2	Surface	1.0	-	-	29.4	29.4	8.2	8.2	28.4	28.4	90.3	90.3	5.9	5.9	4.7	4.7	13	9	819973	812657
						1.0	-	-	29.4		8.2		28.4		90.3		5.9		4.6		12			
					Middle	2.6	-	-	-	-	-	-	-	-	-	-	-		-		-			
						2.6	-	-	-		-		-		-		-		-		-			
					Bottom	4.2	-	-	29.4	29.4	8.2	8.2	28.4	28.4	92.1	92.4	6.0	6.0	4.8		6			
						4.2	-	-	29.4		8.2		28.4		92.6		6.0		4.8		5			
SR2	Fine	Moderate	05:06	4.8	Surface	1.0	0.3	183	29.3	29.3	8.2	8.2	29.0	29.0	87.3	87.4	5.7	5.7	9.5	10.4	13	13	821465	814182
						1.0	0.3	192	29.3		8.2		29.0		87.5		5.7		9.5		14			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.8	0.3	182	29.3	29.3	8.2	8.2	29.0	29.0	89.1	89.4	5.8	5.8	11.2		12			
						3.8	0.3	194	29.3		8.2		29.0		89.6		5.8		11.2		12			
SR3	Fine	Moderate	06:28	10.3	Surface	1.0	0.0	65	29.5	29.5	8.2	8.2	28.1	28.1	89.9	89.9	5.9	5.7	6.4	7.4	10	8	822137	807571
						1.0	0.0	66	29.5		8.2		28.1		89.8		5.9		6.4		9			
					Middle	5.2	0.0	51	29.4	29.4	8.2	8.2	28.7	28.7	84.8	84.8	5.5		7.3		9			
						5.2	0.0	54	29.4		8.2		28.7		84.8		5.5		7.3		9			
					Bottom	9.3	0.0	54	29.2	29.2	8.2	8.2	29.7	29.7	75.5	75.4	4.9	4.9	8.3		6			
						9.3	0.0	58	29.2		8.2		29.7		75.2		4.9		8.3		7			
SR4A	Cloudy	Moderate	05:27	8.6	Surface	1.0	0.2	218	28.7	28.7	8.2	8.2	28.1	28.1	82.4	82.4	5.5	5.5	7.3	8.0	16	15	817174	807833
						1.0	0.2	226	28.7		8.2		28.1		82.4		5.5		7.4		15			
					Middle	4.3	0.5	66	28.7	28.7	8.2	8.2	28.1	28.1	82.4	82.4	5.5		8.1		14			
						4.3	0.6	69	28.7		8.2		28.1		82.4		5.5		8.1		15			
					Bottom	7.6	0.4	64	28.7	28.7	8.2	8.2	28.1	28.1	82.8	82.9	5.5	5.5	8.6		14			
						7.6	0.4	69	28.7		8.2		28.1		82.9		5.5		8.4		15			
SR5A	Cloudy	Moderate	05:06	3.6	Surface	1.0	0.1	235	28.9	28.9	8.2	8.2	27.3	27.3	87.3	87.4	5.8	5.8	2.0	1.9	8	7	816570	810702
						1.0	0.1	249	28.9		8.2		27.3		87.4		5.8		2.0		7			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	2.6	0.2	218	28.9	28.9	8.1	8.1	27.3	27.3	87.9	88.0	5.8	5.8	1.9		7			
						2.6	0.2	224	28.9		8.1		27.3		88.0		5.8		1.9		7			
SR6A	Cloudy	Moderate	04:33	4.5	Surface	1.0	0.1	164	28.9	28.9	8.1	8.1	27.3	27.3	85.2	85.1	5.6	5.6	3.3	3.5	8	7	817942	814747
						1.0	0.1	167	28.9		8.1		27.3		85.0		5.6		3.7		9			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.5	0.1	149	28.9	28.9	8.1	8.1	27.4	27.4	84.5	84.6	5.6	5.6	3.4		4			
						3.5	0.1	151	28.9		8.1		27.4		84.6		5.6		3.4		5			
SR7	Fine	Moderate	04:20	16.5	Surface	1.0	0.3	138	29.1	29.1	8.1	8.1	30.5	30.5	77.1	77.0	5.0	5.0	3.9	5.8	4	4	823628	823738
						1.0	0.3	146	29.1		8.1		30.5		76.9		5.0		3.9		3			
					Middle	8.3	0.3	136	29.0	29.0	8.1	8.1	31.1	31.1	73.5	73.5	5.1		6.5		3			
						8.3	0.4	139	29.0		8.1		31.1		73.5		5.0		6.5		4			
					Bottom	15.5	0.3	143	29.0	29.0	8.1	8.1	31.2	31.2	74.6	74.7	5.1	5.1	7.1		5			
						15.5	0.3	148	29.0		8.1		31.2		74.8		5.1		7.1		6			
SR8	Fine	Moderate	05:44	4.6	Surface	1.0	-	-	29.4	29.4	8.2	8.2	29.0	29.0	86.1	86.1	5.6	5.6	8.6	9.5	6	7	820370	811638
						1.0	-	-	29.4		8.2		29.0		86.0		5.6		8.7		6			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.6	-	-	29.3	29.3	8.2	8.2	29.2	29.2	85.4	85.4	5.6	5.6	10.5		8			
						3.6	-	-	29.3		8.2		29.2		85.4		5.6		10.4		8			

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

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 07 October 21 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	12:48	8.4	Surface	1.0	0.5	211	29.1	29.1	8.2	8.2	31.8	31.8	96.4	96.5	6.2	6.3	7.2	8.3	9	8	815621	804267
						1.0	0.5	217	29.1		8.2		31.8		96.5		6.2		7.2		9			
					Middle	4.2	0.5	207	28.8	28.8	8.2	8.2	32.0	32.1	97.1	97.3	6.3		8.7		8			
						4.2	0.5	216	28.7		8.2		32.1		97.4		6.3		8.7		8			
					Bottom	7.4	0.3	218	28.4	28.4	8.2	8.2	32.3	32.3	98.6	99.2	6.4	6.5	9.1		7			
						7.4	0.4	239	28.3		8.2		32.4		99.8		6.5		9.2		7			
C2	Cloudy	Moderate	11:50	13.5	Surface	1.0	0.3	333	29.2	29.2	8.2	8.2	29.5	29.5	85.6	85.6	5.6	5.6	8.7	15.5	6	9	825670	806957
						1.0	0.3	306	29.2		8.2		29.5		85.6		5.6		8.7		6			
					Middle	6.8	0.3	333	29.1	29.1	8.2	8.2	30.1	30.2	84.9	84.9	5.5		14.0		9			
						6.8	0.3	349	29.1		8.2		30.2		84.9		5.5		14.0		8			
					Bottom	12.5	0.3	337	29.1	29.1	8.3	8.3	30.4	30.4	85.1	85.2	5.5	5.5	23.7		13			
						12.5	0.3	355	29.1		8.3		30.4		85.2		5.5		23.9		12			
C3	Cloudy	Moderate	13:53	12.8	Surface	1.0	0.3	336	29.0	29.0	8.2	8.2	30.3	30.3	82.9	82.9	5.4	5.4	7.9	10.5	11	13	822132	817801
						1.0	0.3	352	29.0		8.2		30.3		82.9		5.4		8.0		12			
					Middle	6.4	0.3	339	29.0	29.0	8.2	8.2	30.4	30.4	82.3	82.4	5.4		10.6		12			
						6.4	0.4	340	29.0		8.2		30.4		82.4		5.4		11.0		12			
					Bottom	11.8	0.3	338	29.0	29.0	8.2	8.2	30.4	30.4	83.5	83.5	5.4	5.4	12.7		14			
						11.8	0.4	311	29.0		8.2		30.4		83.5		5.4		12.5		14			
IM1	Fine	Rough	12:30	5.6	Surface	1.0	0.2	174	29.0	29.0	8.1	8.1	30.3	30.3	96.8	97.0	6.3	6.3	7.7	7.9	6	6	817945	807125
						1.0	0.2	187	29.0		8.1		30.3		97.2		6.3		7.6		5			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	4.6	0.2	165	29.0	29.0	8.1	8.1	30.3	30.3	99.1	99.7	6.5	6.5	8.1		7			
						4.6	0.2	173	29.0		8.1		30.4		100.2		6.5		8.2		7			
IM2	Fine	Rough	12:23	7.4	Surface	1.0	0.3	206	29.1	29.1	8.1	8.1	30.6	30.6	94.1	94.2	6.1	6.2	8.2	8.7	8	7	818186	806163
						1.0	0.3	221	29.1		8.1		30.6		94.3		6.1		8.2		8			
					Middle	3.7	0.2	199	29.1	29.1	8.1	8.1	30.7	30.7	95.1	95.3	6.2		8.8		7			
						3.7	0.2	215	29.1		8.1		30.7		95.4		6.2		8.8		7			
					Bottom	6.4	0.1	130	29.1	29.1	8.1	8.1	30.8	30.7	97.0	97.5	6.3	6.4	9.0		7			
						6.4	0.2	141	29.1		8.1		30.6		97.9		6.4		9.0		7			
IM3	Fine	Rough	12:17	7.6	Surface	1.0	0.3	187	29.1	29.1	8.1	8.1	30.6	30.7	92.8	92.9	6.0	6.1	7.2	8.6	8	7	818789	805573
						1.0	0.3	201	29.1		8.1		30.7		93.0		6.0		7.2		7			
					Middle	3.8	0.2	180	29.1	29.1	8.1	8.1	30.8	30.8	93.7	93.8	6.1		8.5		8			
						3.8	0.2	194	29.1		8.1		30.9		93.8		6.1		8.5		7			
					Bottom	6.6	0.2	113	28.8	28.7	8.1	8.1	31.2	31.2	94.5	94.8	6.1	6.2	10.0		7			
						6.6	0.2	123	28.6		8.1		31.3		95.0		6.2		9.9		7			
IM4	Fine	Rough	12:08	9.6	Surface	1.0	0.5	198	29.2	29.2	8.1	8.1	30.2	30.4	92.5	92.6	6.0	6.1	7.5	8.6	7	8	819735	804587
						1.0	0.5	208	29.2		8.1		30.5		92.6		6.0		7.6		7			
					Middle	4.8	0.3	182	29.1	29.1	8.1	8.1	31.2	31.2	93.8	93.9	6.1		8.4		8			
						4.8	0.3	191	29.1		8.1		31.3		94.0		6.1		8.3		8			
					Bottom	8.6	0.2	138	29.1	29.1	8.1	8.1	31.3	31.3	94.8	95.0	6.1	6.2	9.9		9			
						8.6	0.2	146	29.1		8.1		31.2		95.2		6.2		9.8		8			
IM5	Fine	Rough	12:02	9.0	Surface	1.0	0.4	237	29.2	29.2	8.1	8.1	29.7	29.8	92.9	93.0	6.0	6.1	8.5	9.3	11	10	820754	804844
						1.0	0.4	241	29.2		8.1		29.9		93.1		6.1		8.4		11			
					Middle	4.5	0.3	203	29.1	29.1	8.1	8.1	30.5	30.5	93.9	94.0	6.1		9.2		10			
						4.5	0.3	223	29.1		8.1		30.6		94.1		6.1		9.3		10			
					Bottom	8.0	0.2	165	29.1	29.1	8.1	8.1	30.7	30.7	95.6	96.0	6.2	6.3	10.2		10			
						8.0	0.2	169	29.1		8.1		30.6		96.4		6.3		10.1		10			
IM6	Fine	Rough	11:56	8.0	Surface	1.0	0.3	231	29.2	29.2	8.1	8.1	29.6	29.7	91.8	92.0	6.0	6.0	8.2	9.2	11	10	821044	805851
						1.0	0.4	236	29.2		8.1		29.8		92.1		6.0		8.1		11			
					Middle	4.0	0.2	226	29.1	29.1	8.1	8.1	30.1	30.1	92.4	92.5	6.0		9.5		10			
						4.0	0.2	247	29.1		8.1		30.2		92.5		6.0		9.6		10			
					Bottom	7.0	0.1	188	29.1	29.1	8.1	8.1	30.3	30.2	94.1	94.6	6.1	6.2	10.0		10			
						7.0	0.1	203	29.1		8.1		30.2		95.1		6.2		10.1		10			
IM7	Fine	Rough	11:47	9.8	Surface	1.0	0.1	212	29.2	29.2	8.1	8.1	29.6	29.6	91.4	91.4	6.0	6.0	7.3	8.5	11	11	821336	806843
						1.0	0.1	224	29.2		8.1		29.7		91.4		6.0		7.3		11			
					Middle	4.9	0.2	114	29.2	29.2	8.1	8.1	30.1	30.1	92.4	92.5	6.0		8.4		11			
						4.9	0.2	118	29.2		8.1		30.1		92.5		6.0		8.3		11			
					Bottom	8.8	0.2	139	29.7	29.8	8.1	8.1	29.7	29.7	93.4	93.6	6.0	6.0	9.8		10			
						8.8	0.3	148	29.9		8.1		29.6		93.8		6.0		9.8		10			
IM8	Cloudy	Moderate	12:16	8.7	Surface	1.0	0.2	329	29.2	29.2	8.2	8.2	29.3	29.3	87.0	87.0	5.7	5.7	6.1	10.4	12	15	821842	808118
						1.0	0.2	359	29.2		8.2		29.3		86.9		5.7		6.2		12			
					Middle	4.4	0.3	334	29.1	29.1	8.2	8.2	29.9	29.9	85.4	85.4	5.6		8.6		16			
						4.4	0.3	307	29.1		8.2		29.9		85.4		5.6		8.5		16			
					Bottom	7.7	0.3	333	29.0	29.0	8.2	8.2	30.9	30.8	86.9	87.1	5.6	5.7	16.5		16			
						7.7	0.3	345	29.0		8.2		30.8		87.2		5.7		16.4		17			

DA: Depth-Averaged
Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher
Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**
Note: The monitoring session on 9 October 2021 was cancelled due to No. 8 Southeast Gale or Storm Signal.
Note: The monitoring sessions on 12 October 2021 and ebb tide on 14 October were cancelled due to Strong Wind Signal No.3 in force.

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 07 October 21 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	12:23	8.2	Surface	1.0	0.2	336	29.2	29.2	8.2	8.2	29.5	29.5	86.4	86.4	5.6	5.6	6.5	11.2	14	12	822091	808833
						1.0	0.2	359	29.2		8.2		29.5		86.4		5.6		6.4		14			
					Middle	4.1	0.2	339	29.1	29.1	8.2	8.2	29.8	29.8	85.0	85.1	5.5		8.3		13			
						4.1	0.2	345	29.1		8.2		29.9		85.1		5.5		8.2		12			
					Bottom	7.2	0.2	340	29.0	29.0	8.2	8.2	30.7	30.7	86.0	86.2	5.6	5.6	19.1		10			
						7.2	0.3	313	29.0		8.2		30.7		86.3		5.6		19.0		11			
IM10	Cloudy	Moderate	12:30	6.9	Surface	1.0	0.2	329	29.1	29.1	8.2	8.2	29.6	29.6	85.2	85.2	5.6	5.5	6.7	9.9	10	11	822386	809782
						1.0	0.2	343	29.1		8.2		29.6		85.1		5.6		6.7		10			
					Middle	3.5	0.2	334	29.1	29.1	8.2	8.2	29.7	29.7	83.6	83.6	5.4		8.0		10			
						3.5	0.2	358	29.1		8.2		29.7		83.5		5.4		8.2		11			
					Bottom	5.9	0.2	341	29.1	29.1	8.2	8.2	30.2	30.2	83.8	83.8	5.4	5.4	15.0		11			
						5.9	0.2	359	29.1		8.2		30.2		83.8		5.4		15.0		11			
IM11	Cloudy	Moderate	12:40	8.8	Surface	1.0	0.2	341	29.2	29.2	8.2	8.2	29.3	29.3	87.5	87.5	5.7	5.6	7.0	11.8	12	10	822076	811439
						1.0	0.2	314	29.2		8.2		29.3		87.4		5.7		6.9		12			
					Middle	4.4	0.2	341	29.1	29.1	8.2	8.2	29.9	29.9	83.1	83.1	5.4		11.9		10			
						4.4	0.3	314	29.1		8.2		29.9		83.1		5.4		11.7		9			
					Bottom	7.8	0.3	339	29.1	29.1	8.2	8.2	29.9	29.9	83.4	83.5	5.4	5.4	16.3		9			
						7.8	0.3	350	29.1		8.2		29.9		83.6		5.4		16.8		9			
IM12	Cloudy	Moderate	12:46	9.3	Surface	1.0	0.2	346	29.2	29.2	8.2	8.2	29.4	29.4	87.1	87.1	5.7	5.6	6.9	10.3	9	8	821482	812050
						1.0	0.2	318	29.2		8.2		29.4		87.1		5.7		6.9		8			
					Middle	4.7	0.2	348	29.1	29.1	8.2	8.2	29.7	29.7	84.0	84.0	5.5		11.9		8			
						4.7	0.2	320	29.1		8.2		29.7		84.0		5.5		11.9		8			
					Bottom	8.3	0.2	347	29.1	29.1	8.2	8.2	29.7	29.7	85.2	85.4	5.6	5.6	12.2		8			
						8.3	0.2	319	29.1		8.2		29.7		85.5		5.6		12.1		8			
SR1A	Cloudy	Calm	13:18	5.1	Surface	1.0	-	-	29.1	29.1	8.2	8.2	29.6	29.6	84.0	84.0	5.5	5.5	7.8	10.3	10	11	819970	812655
						1.0	-	-	29.1		8.2		29.6		83.9		5.5		8.0		10			
					Middle	2.6	-	-	-	-	-	-	-	-	-	-	-		-		-			
						2.6	-	-	-		-		-		-		-		-		-			
					Bottom	4.1	-	-	29.0	29.0	8.2	8.2	29.7	29.7	85.5	85.7	5.6	5.6	12.7		11			
						4.1	-	-	29.0		8.2		29.7		85.8		5.6		12.6		11			
SR2	Cloudy	Moderate	13:34	5.2	Surface	1.0	0.1	63	29.1	29.1	8.2	8.2	29.6	29.6	86.9	86.9	5.7	5.7	7.4	8.4	9	10	821452	814183
						1.0	0.1	68	29.1		8.2		29.6		86.9		5.7		7.4		10			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	4.2	0.1	58	29.1	29.1	8.2	8.2	29.8	29.8	85.5	85.5	5.6	5.6	9.6		10			
						4.2	0.1	63	29.1		8.2		29.8		85.5		5.6		9.3		11			
SR3	Cloudy	Moderate	12:10	10.0	Surface	1.0	0.2	332	29.2	29.2	8.2	8.2	29.2	29.2	87.6	87.6	5.7	5.6	6.3	11.0	16	14	822129	807577
						1.0	0.2	345	29.2		8.2		29.2		87.6		5.7		6.4		16			
					Middle	5.0	0.3	334	29.1	29.1	8.2	8.2	29.9	29.9	84.5	84.6	5.5		11.4		14			
						5.0	0.3	336	29.1		8.2		29.9		84.6		5.5		11.4		14			
					Bottom	9.0	0.3	342	29.0	29.0	8.2	8.2	30.8	30.8	85.8	85.8	5.6	5.6	15.5		13			
						9.0	0.3	315	29.0		8.2		30.8		85.8		5.6		15.3		13			
SR4A	Fine	Calm	13:12	7.2	Surface	1.0	0.2	83	29.1	29.1	8.2	8.2	30.6	30.6	93.4	93.6	6.1	6.1	8.7	9.3	8	11	817193	807800
						1.0	0.2	90	29.1		8.2		30.6		93.7		6.1		8.6		8			
					Middle	3.6	0.2	76	29.1	29.1	8.2	8.2	30.6	30.6	94.3	94.5	6.1		9.2		11			
						3.6	0.2	79	29.1		8.2		30.6		94.6		6.1		9.3		11			
					Bottom	6.2	0.2	61	29.2	29.2	8.2	8.2	30.5	30.5	95.5	96.4	6.2	6.3	10.1		12			
						6.2	0.2	62	29.2		8.2		30.5		97.2		6.3		10.1		13			
SR5A	Fine	Calm	13:34	5.2	Surface	1.0	0.0	47	28.9	28.9	8.2	8.2	30.6	30.6	93.8	93.8	6.1	6.1	9.9	10.0	11	12	816613	810677
						1.0	0.0	51	28.9		8.2		30.6		93.8		6.1		10.0		11			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	4.2	0.1	110	28.9	28.9	8.2	8.2	30.5	30.5	93.3	93.2	6.1	6.1	10.1		13			
						4.2	0.1	110	28.9		8.2		30.5		93.0		6.1		10.0		12			
SR6A	Fine	Calm	14:07	4.8	Surface	1.0	0.1	271	29.0	29.0	8.2	8.2	30.5	30.5	92.6	92.7	6.0	6.0	7.6	8.3	14	13	817978	814744
						1.0	0.1	274	29.0		8.2		30.5		92.7		6.0		7.6		13			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.8	0.1	282	29.0	29.0	8.2	8.2	30.5	30.2	92.7	92.8	6.0	6.0	9.0		12			
						3.8	0.1	285	29.0		8.2		29.8		92.8		6.0		9.0		12			
SR7	Cloudy	Moderate	14:18	15.7	Surface	1.0	0.3	306	29.0	29.0	8.2	8.2	30.2	30.2	85.5	85.5	5.6	5.3	4.8	5.7	8	9	823632	823734
						1.0	0.3	327	29.0		8.2		30.2		85.4		5.6		4.8		8			
					Middle	7.9	0.3	305	29.0	29.0	8.1	8.1	31.1	31.1	77.5	77.6	5.0		5.4		9			
						7.9	0.4	314	29.0		8.1		31.0		77.6		5.0		5.2		9			
					Bottom	14.7	0.3	305	28.9	28.9	8.2	8.2	31.2	31.2	77.5	77.7	5.0	5.1	7.1		10			
						14.7	0.3	316	28.9		8.2		31.2		77.9		5.1		7.0		10			
SR8	Cloudy	Calm	12:53	5.4	Surface	1.0	-	-	29.3	29.3	8.2	8.2	29.8	29.8	85.6	85.6	5.6	5.6	8.1	12.1	8	9	820391	811616
						1.0	-	-	29.3		8.2		29.8		85.5		5.6		8.2		8			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	4.4	-	-	29.2	29.2	8.2	8.2	29.8	29.8	85.3	85.5	5.6	5.6	16.2		9			
						4.4	-	-	29.2		8.2		29.8		85.6		5.6		16.0		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 monitoring session on 9 October 2021 was cancelled due to No. 8 Southeast Gale or Storm Signal.
Note: The monitoring sessions on 12 October 2021 and ebb tide on 14 October were cancelled due to Strong Wind Signal No.3 in force.

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Water Quality Monitoring
Water Quality Monitoring Results on 07 October 21 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	Fine	Rough	07:59	8.6	Surface	1.0	0.7	40	29.2	29.2	8.1	8.1	31.2	31.2	91.6	91.6	5.9	6.0	8.9	9.5	8	9	815621	804249
						1.0	0.7	40	29.2		8.1		31.2		91.6		5.9		8.8		9			
					Middle	4.3	0.6	41	29.2	29.2	8.1	8.1	31.2	31.2	92.5	92.7	6.0		9.4		9			
						4.3	0.7	43	29.2		8.1		31.2		92.9		6.0		9.5		9			
					Bottom	7.6	0.6	32	29.1	29.1	8.1	8.1	31.1	31.1	94.6	95.0	6.1	6.2	10.2		10			
						7.6	0.7	32	29.1		8.1		31.1		95.3		6.2		10.2		10			
C2	Cloudy	Rough	08:39	13.1	Surface	1.0	0.3	321	29.4	29.4	8.1	8.1	28.4	28.4	84.5	84.5	5.5	5.5	8.5	14.7	16	26	825664	806952
						1.0	0.3	342	29.4		8.1		28.4		84.5		5.5		8.6		17			
					Middle	6.6	0.3	323	29.3	29.3	8.1	8.1	28.7	28.7	83.6	83.6	5.5		12.5		27			
						6.6	0.4	341	29.3		8.1		28.8		83.6		5.5		12.5		28			
					Bottom	12.1	0.3	326	29.2	29.2	8.2	8.2	28.9	28.9	84.3	84.4	5.5	5.5	23.1		34			
						12.1	0.4	331	29.2		8.2		28.9		84.4		5.5		23.0		35			
C3	Cloudy	Moderate	06:41	12.3	Surface	1.0	0.3	302	29.1	29.1	8.1	8.1	30.0	30.0	81.5	81.5	5.3	5.2	5.8	9.2	10	9	822126	817797
						1.0	0.3	327	29.1		8.1		30.0		81.4		5.3		5.7		10			
					Middle	6.2	0.4	310	29.1	29.1	8.1	8.1	30.3	30.3	77.8	77.8	5.1		6.9		9			
						6.2	0.4	321	29.1		8.1		30.3		77.8		5.1		6.7		9			
					Bottom	11.3	0.4	307	29.1	29.1	8.1	8.1	30.7	30.7	76.3	76.4	5.0	5.0	15.2		8			
						11.3	0.4	324	29.1		8.1		30.7		76.5		5.0		15.1		8			
IM1	Fine	Rough	08:19	5.6	Surface	1.0	0.1	332	29.0	29.0	8.1	8.1	30.3	30.3	93.7	93.9	6.1	6.1	8.3	9.0	6	7	817968	807114
						1.0	0.1	305	29.0		8.1		30.3		94.1		6.1		8.4		6			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	4.6	0.1	341	29.0	29.0	8.1	8.1	30.3	30.3	97.2	97.7	6.3	6.4	9.6		7			
						4.6	0.1	314	29.0		8.1		30.3		98.2		6.4		9.6		7			
IM2	Fine	Rough	08:25	7.2	Surface	1.0	0.3	357	29.1	29.1	8.1	8.1	30.2	30.2	91.7	92.0	6.0	6.1	6.2	7.6	12	11	818159	806186
						1.0	0.3	328	29.1		8.1		30.2		92.3		6.0		6.2		12			
					Middle	3.6	0.3	8	29.1	29.1	8.1	8.1	30.2	30.2	93.1	93.3	6.1		7.9		11			
						3.6	0.3	8	29.1		8.1		30.2		93.5		6.1		7.9		10			
					Bottom	6.2	0.2	358	29.0	29.1	8.1	8.1	30.2	30.2	94.8	95.2	6.2	6.2	8.5		10			
						6.2	0.2	329	29.1		8.1		30.2		95.5		6.2		8.6		9			
IM3	Fine	Rough	08:31	7.8	Surface	1.0	0.4	338	29.1	29.1	8.1	8.1	30.2	30.2	92.3	92.4	6.0	6.1	7.4	8.5	11	10	818798	805611
						1.0	0.4	340	29.1		8.1		30.2		92.5		6.0		7.4		11			
					Middle	3.9	0.3	345	29.1	29.1	8.1	8.1	30.2	30.1	94.8	95.0	6.2		8.2		10			
						3.9	0.4	348	29.1		8.1		30.1		95.2		6.2		8.1		10			
					Bottom	6.8	0.3	345	29.1	29.1	8.1	8.1	30.1	30.0	97.0	97.2	6.3	6.3	9.8		9			
						6.8	0.4	317	29.1		8.1		30.0		97.3		6.3		9.9		9			
IM4	Fine	Rough	08:39	9.4	Surface	1.0	0.6	355	29.2	29.2	8.1	8.1	30.4	30.4	91.8	91.9	6.0	6.0	8.8	9.3	14	25	819734	804618
						1.0	0.7	327	29.2		8.1		30.4		91.9		6.0		8.8		15			
					Middle	4.7	0.6	355	29.1	29.1	8.1	8.1	30.4	30.4	92.5	92.7	6.0		9.0		28			
						4.7	0.6	356	29.1		8.1		30.4		92.9		6.0		9.1		29			
					Bottom	8.4	0.5	357	29.1	29.1	8.1	8.1	30.4	30.4	94.8	95.1	6.2	6.2	10.1		31			
						8.4	0.5	328	29.1		8.1		30.4		95.3		6.2		10.0		31			
IM5	Fine	Rough	08:47	8.4	Surface	1.0	0.9	17	29.2	29.2	8.1	8.1	30.2	30.2	91.1	91.2	5.9	6.0	8.2	9.2	8	9	820741	804860
						1.0	0.9	17	29.2		8.1		30.2		91.3		5.9		8.2		7			
					Middle	4.2	0.8	16	29.2	29.2	8.1	8.1	30.2	30.2	92.3	92.6	6.0		9.4		9			
						4.2	0.8	17	29.2		8.1		30.2		92.8		6.0		9.3		9			
					Bottom	7.4	0.7	22	29.2	29.2	8.1	8.1	30.2	30.2	94.5	94.9	6.1	6.2	10.2		11			
						7.4	0.7	23	29.2		8.1		30.2		95.2		6.2		10.1		11			
IM6	Fine	Rough	08:53	8.0	Surface	1.0	0.2	270	29.2	29.2	8.1	8.1	28.9	28.9	90.7	90.7	5.9	5.9	7.8	8.8	6	8	821048	805820
						1.0	0.2	275	29.2		8.1		29.0		90.6		5.9		7.8		6			
					Middle	4.0	0.1	299	29.2	29.2	8.1	8.1	29.3	29.4	90.5	90.5	5.9		8.6		8			
						4.0	0.1	305	29.1		8.1		29.4		90.5		5.9		8.7		8			
					Bottom	7.0	0.2	48	29.1	29.1	8.1	8.1	29.6	29.6	91.8	92.0	6.0	6.0	9.9		9			
						7.0	0.2	49	29.1		8.1		29.6		92.1		6.0		10.0		9			
IM7	Fine	Rough	09:01	9.0	Surface	1.0	0.1	249	29.3	29.3	8.1	8.1	28.5	28.6	91.1	91.2	6.0	6.0	8.3	9.3	16	18	821338	806852
						1.0	0.1	261	29.3		8.1		28.6		91.2		6.0		8.4		16			
					Middle	4.5	0.1	211	29.2	29.2	8.1	8.1	29.4	29.4	92.3	92.6	6.0		9.5		19			
						4.5	0.2	228	29.1		8.1		29.5		92.8		6.1		9.4		19			
					Bottom	8.0	0.1	157	29.1	29.1	8.1	8.1	29.5	29.5	94.7	95.2	6.2	6.2	10.2		19			
						8.0	0.1	160	29.1		8.1		29.5		95.6		6.2		10.3		19			
IM8	Cloudy	Moderate	08:14	8.6	Surface	1.0	0.3	336	29.2	29.2	8.2	8.2	29.3	29.3	85.5	85.6	5.6	5.6	8.0	10.4	37	33	821830	808151
						1.0	0.3	348	29.2		8.2		29.3		85.6		5.6		8.0		36			
					Middle	4.3	0.3	337	29.2	29.2	8.2	8.2	29.4	29.4	85.1	85.1	5.6		9.0		34			
						4.3	0.3	310	29.1		8.2		29.4		85.0		5.6		9.0		33			
					Bottom	7.6	0.3	339	29.1	29.1	8.2	8.2	29.4	29.4	85.3	85.4	5.6	5.6	14.1		29			
						7.6	0.3	312	29.1		8.2		29.4		85.4		5.6		14.4		29			

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 monitoring session on 9 October 2021 was cancelled due to No. 8 Southeast Gale or Storm Signal.
Note: The monitoring sessions on 12 October 2021 and ebb tide on 14 October were cancelled due to Strong Wind Signal No.3 in force.

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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)		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	08:08	8.1	Surface	1.0	0.3	333	29.2	29.2	8.2	8.2	29.3	29.3	85.6	85.6	5.6	5.6	9.1	11.3	32	29	822084	808788
						1.0	0.3	348	29.2		8.2		29.3		85.6		5.6		9.1		32			
					Middle	4.1	0.3	332	29.1	29.1	8.2	8.2	29.5	29.5	85.9	86.0	5.6		11.0		27			
						4.1	0.3	305	29.1		8.2		29.5		86.0		5.6		11.3		28			
					Bottom	7.1	0.3	332	29.1	29.1	8.2	8.2	29.6	29.6	88.8	88.9	5.8	5.8	13.5		26			
						7.1	0.3	343	29.1		8.2		29.6		89.0		5.8		13.6		26			
IM10	Cloudy	Moderate	08:01	8.8	Surface	1.0	0.3	315	29.1	29.1	8.2	8.2	29.8	29.8	82.6	82.6	5.4	5.4	17.7	19.5	32	26	822367	809799
						1.0	0.4	326	29.1		8.2		29.8		82.6		5.4		17.5		32			
					Middle	4.4	0.3	316	29.1	29.1	8.2	8.2	29.8	29.8	82.4	82.4	5.4		19.5		26			
						4.4	0.3	334	29.1		8.2		29.8		82.4		5.4		19.3		25			
					Bottom	7.8	0.3	321	29.1	29.1	8.2	8.2	29.8	29.8	82.9	83.0	5.4	5.4	21.4		21			
						7.8	0.3	327	29.1		8.2		29.8		83.1		5.4		21.4		22			
IM11	Cloudy	Moderate	07:52	9.2	Surface	1.0	0.3	315	29.1	29.1	8.2	8.2	29.7	29.7	83.8	83.8	5.5	5.5	15.7	16.5	26	28	822068	811465
						1.0	0.3	319	29.1		8.2		29.7		83.8		5.5		15.8		26			
					Middle	4.6	0.3	315	29.1	29.1	8.2	8.2	29.7	29.7	84.1	84.2	5.5		16.6		28			
						4.6	0.3	341	29.1		8.2		29.7		84.2		5.5		16.4		28			
					Bottom	8.2	0.3	318	29.1	29.1	8.2	8.2	29.7	29.7	86.3	86.5	5.6	5.6	17.2		29			
						8.2	0.3	328	29.1		8.2		29.7		86.6		5.6		17.1		29			
IM12	Cloudy	Moderate	07:45	9.5	Surface	1.0	0.3	302	29.1	29.1	8.2	8.2	29.8	29.8	83.4	83.4	5.4	5.4	11.8	13.9	28	24	821447	812040
						1.0	0.3	307	29.1		8.2		29.8		83.4		5.4		11.9		28			
					Middle	4.8	0.3	303	29.1	29.1	8.2	8.2	29.8	29.8	83.6	83.7	5.4		13.4		24			
						4.8	0.3	320	29.1		8.2		29.8		83.7		5.5		13.6		24			
					Bottom	8.5	0.3	304	29.1	29.1	8.2	8.2	29.8	29.8	85.1	85.3	5.5	5.6	16.2		21			
						8.5	0.3	332	29.1		8.2		29.8		85.5		5.6		16.3		20			
SR1A	Cloudy	Calm	07:14	5.1	Surface	1.0	-	-	29.1	29.1	8.1	8.1	29.4	29.4	81.4	81.4	5.3	5.3	6.6	7.6	25	25	819972	812663
						1.0	-	-	29.1		8.1		29.4		81.4		5.3		6.6		24			
					Middle	2.6	-	-	-	-	-	-	-	-	-	-	-		-		-			
						2.6	-	-	-		-		-		-		-		-		-			
					Bottom	4.1	-	-	29.0	29.0	8.1	8.1	29.4	29.4	82.8	83.0	5.4	5.4	8.7		26			
						4.1	-	-	29.0		8.1		29.4		83.1		5.4		8.6		26			
SR2	Cloudy	Moderate	06:59	4.9	Surface	1.0	0.0	58	29.1	29.1	8.2	8.2	29.7	29.7	84.2	84.3	5.5	5.5	13.1	13.7	25	27	821441	814146
						1.0	0.0	58	29.1		8.2		29.7		84.3		5.5		13.2		26			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.9	0.0	53	29.1	29.1	8.2	8.2	29.7	29.7	87.6	87.8	5.7	5.7	14.3		28			
						3.9	0.0	53	29.1		8.2		29.7		87.9		5.7		14.2		29			
SR3	Cloudy	Moderate	08:21	9.5	Surface	1.0	0.2	346	29.3	29.3	8.1	8.1	28.7	28.7	85.2	85.2	5.6	5.6	6.4	7.6	33	32	822162	807550
						1.0	0.2	318	29.3		8.1		28.7		85.2		5.6		6.4		33			
					Middle	4.8	0.3	344	29.3	29.3	8.2	8.2	28.9	28.9	85.6	85.7	5.6		7.9		32			
						4.8	0.3	351	29.3		8.2		29.0		85.7		5.6		8.0		32			
					Bottom	8.5	0.3	340	29.1	29.2	8.2	8.2	29.3	29.3	87.5	87.8	5.7	5.7	8.5		30			
						8.5	0.3	351	29.2		8.2		29.2		88.0		5.7		8.6		31			
SR4A	Fine	Calm	07:36	9.2	Surface	1.0	0.1	103	29.1	29.1	8.1	8.1	29.5	29.5	89.7	89.7	5.9	5.9	7.3	8.3	9	8	817188	807795
						1.0	0.1	113	29.1		8.1		29.5		89.7		5.9		7.3		9			
					Middle	4.6	0.3	77	29.0	29.0	8.1	8.1	30.2	30.2	90.2	90.4	5.9		8.7		8			
						4.6	0.3	78	29.0		8.1		30.2		90.6		5.9		8.6		8			
					Bottom	8.2	0.3	70	29.0	29.0	8.1	8.1	30.2	30.2	92.6	92.9	6.0	6.1	9.1		6			
						8.2	0.3	71	29.0		8.1		30.2		93.1		6.1		9.0		6			
SR5A	Fine	Calm	07:18	4.0	Surface	1.0	0.1	278	29.1	29.1	8.0	8.0	29.1	29.1	90.1	90.2	5.9	5.9	7.9	8.0	10	9	816583	810704
						1.0	0.1	279	29.1		8.0		29.2		90.3		5.9		7.9		10			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.0	0.0	348	29.1	29.1	8.0	8.0	29.2	29.2	91.6	92.0	6.0	6.0	8.1		7			
						3.0	0.0	320	29.1		8.0		29.1		92.4		6.0		8.0		8			
SR6A	Fine	Calm	06:48	5.0	Surface	1.0	0.0	211	29.1	29.1	7.9	7.9	28.8	28.8	83.7	83.7	5.5	5.5	8.4	8.9	8	8	817962	814727
						1.0	0.0	230	29.1		7.9		28.8		83.7		5.5		8.5		8			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	4.0	0.0	234	29.1	29.1	7.9	7.9	28.9	28.9	84.5	84.6	5.5	5.5	9.3		7			
						4.0	0.0	253	29.1		7.9		28.9		84.7		5.5		9.4		7			
SR7	Cloudy	Moderate	06:16	15.5	Surface	1.0	0.3	270	29.1	29.1	8.1	8.1	30.4	30.4	77.1	77.1	5.0	5.0	6.1	7.0	9	9	823628	823744
						1.0	0.3	284	29.1		8.1		30.4		77.1		5.0		6.3		9			
					Middle	7.8	0.3	276	29.1	29.1	8.1	8.1	30.3	30.3	77.4	77.4	5.0		7.0		9			
						7.8	0.3	290	29.1		8.1		30.3		77.4		5.0		7.0		8			
					Bottom	14.5	0.3	275	29.1	29.1	8.1	8.1	30.3	30.3	77.3	77.3	5.0	5.0	7.8		8			
						14.5	0.3	278	29.1		8.1		30.3		77.3		5.0		7.8		8			
SR8	Cloudy	Moderate	07:37	5.6	Surface	1.0	-	-	29.1	29.1	8.2	8.2	29.7	29.7	84.5	84.6	5.5	5.5	11.4	13.7	21	23	820403	811641
						1.0	-	-	29.1		8.2		29.7		84.6		5.5		11.3		21			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	4.6	-	-	29.1	29.1	8.2	8.2	29.7	29.7	86.7	86.9	5.7	5.7	16.1		25			
						4.6	-	-	29.1		8.2		29.7		87.0		5.7		16.1		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**
Note: The monitoring session on 9 October 2021 was cancelled due to No. 8 Southeast Gale or Storm Signal.
Note: The monitoring sessions on 12 October 2021 and ebb tide on 14 October were cancelled due to Strong Wind Signal No.3 in force.

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 14 October 21 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	Fine	Moderate	19:31	7.4	Surface	1.0	0.2	291	27.1	27.1	8.0	8.0	30.6	30.7	98.1	97.9	6.6	6.5	7.6	8.6	9	9	815623	804246
						1.0	0.3	317	27.1		8.0		30.7		97.7		6.6		7.7		10			
					Middle	3.7	0.2	278	27.0	27.0	8.0	8.0	31.7	31.7	95.2	95.2	6.4		8.9		8			
						3.7	0.2	285	27.0		8.0		31.7		95.2		6.4		8.9		9			
					Bottom	6.4	0.3	278	27.1	27.1	8.0	8.0	31.9	31.9	95.5	95.6	6.4	6.4	9.3		9			
						6.4	0.3	297	27.1		8.0		31.9		95.7		6.4		9.2		8			
C2	Cloudy	Moderate	18:31	11.3	Surface	1.0	0.3	15	26.8	26.8	8.1	8.1	26.8	26.8	90.8	90.6	6.3	6.0	3.5	5.6	6	5	825679	806921
						1.0	0.3	15	26.8		8.1		26.8		90.4		6.2		3.6		7			
					Middle	5.7	0.4	17	27.0	27.0	8.2	8.2	31.2	31.2	87.2	87.2	5.8		4.5		4			
						5.7	0.4	17	27.0		8.2		31.2		87.1		5.8		4.6		5			
					Bottom	10.3	0.4	14	27.0	27.0	8.2	8.2	31.4	31.4	86.8	86.8	5.8	5.8	9.0		4			
						10.3	0.4	15	27.0		8.2		31.4		86.7		5.8		8.5		5			
C3	Cloudy	Moderate	20:41	11.4	Surface	1.0	0.2	352	27.2	27.2	8.2	8.2	31.1	31.1	94.9	94.9	6.3	6.2	3.2	4.4	5	6	822094	817799
						1.0	0.2	324	27.2		8.2		31.1		94.9		6.3		3.2		6			
					Middle	5.7	0.3	355	27.0	27.0	8.2	8.2	32.1	32.1	89.6	89.6	6.0		3.8		7			
						5.7	0.3	327	27.0		8.2		32.1		89.5		6.0		3.9		6			
					Bottom	10.4	0.2	359	27.2	27.2	8.2	8.2	32.4	32.4	89.6	89.7	5.9	6.0	6.0		7			
						10.4	0.2	330	27.2		8.2		32.4		89.8		6.0		6.1		6			
IM1	Fine	Moderate	19:12	4.2	Surface	1.0	0.2	322	27.3	27.3	8.0	8.0	31.8	31.9	92.8	92.8	6.2	6.2	6.0	6.6	8	8	817942	807136
						1.0	0.2	323	27.2		8.0		31.9		92.7		6.2		6.1		9			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.2	0.1	310	27.2	27.2	8.0	8.0	32.0	32.0	93.0	93.2	6.2	6.2	7.1		7			
						3.2	0.1	323	27.2		8.0		32.0		93.3		6.2		7.1		8			
IM2	Fine	Moderate	19:04	6.0	Surface	1.0	0.2	349	27.1	27.1	8.0	8.0	30.3	30.3	94.5	94.5	6.3	6.3	6.1	7.4	7	8	818142	806182
						1.0	0.2	321	27.1		8.0		30.4		94.4		6.3		6.1		6			
					Middle	3.0	0.2	341	27.0	27.0	8.0	8.0	30.9	30.9	94.1	94.1	6.3		7.9		9			
						3.0	0.2	352	27.0		8.0		31.0		94.0		6.3		7.9		8			
					Bottom	5.0	0.2	338	27.0	27.0	8.0	8.0	31.6	31.6	93.6	93.6	6.2	6.2	8.1		8			
						5.0	0.2	311	27.0		8.0		31.7		93.5		6.2		8.0		9			
IM3	Fine	Moderate	18:57	6.2	Surface	1.0	0.1	0	26.9	26.9	8.0	8.0	30.8	30.9	94.7	94.6	6.4	6.3	4.2	5.4	8	8	818788	805591
						1.0	0.1	0	26.9		8.0		31.0		94.5		6.3		4.1		8			
					Middle	3.1	0.1	21	26.9	27.0	8.0	8.0	31.3	31.4	94.0	94.0	6.3		5.1		8			
						3.1	0.1	22	27.0		8.0		31.5		93.9		6.3		5.1		8			
					Bottom	5.2	0.1	10	27.0	27.0	8.0	8.0	31.7	31.7	94.5	94.6	6.3	6.3	6.7		9			
						5.2	0.1	10	27.0		8.0		31.7		94.6		6.3		7.0		8			
IM4	Fine	Moderate	18:47	8.0	Surface	1.0	0.2	74	27.1	27.1	8.0	8.0	30.4	30.5	97.5	97.4	6.5	6.5	7.2	8.2	7	9	819715	804597
						1.0	0.2	74	27.1		8.0		30.5		97.3		6.5		7.1		8			
					Middle	4.0	0.2	68	27.1	27.1	8.0	8.0	31.0	31.0	96.7	96.7	6.5		8.3		8			
						4.0	0.2	74	27.1		8.0		31.0		96.7		6.5		8.2		9			
					Bottom	7.0	0.2	37	27.1	27.1	8.0	8.0	31.3	31.3	96.5	96.5	6.4	6.5	9.0		10			
						7.0	0.2	40	27.1		8.0		31.3		96.5		6.5		9.1		9			
IM5	Fine	Moderate	18:41	7.4	Surface	1.0	0.3	264	27.0	27.0	8.0	8.0	28.8	28.8	97.6	97.6	6.6	6.6	6.6	7.5	6	9	820758	804880
						1.0	0.3	290	27.0		8.0		28.8		97.5		6.6		6.5		7			
					Middle	3.7	0.2	236	26.9	26.9	8.0	8.0	29.0	29.0	97.0	97.0	6.6		7.5		8			
						3.7	0.2	246	26.9		8.0		29.0		96.9		6.6		7.4		9			
					Bottom	6.4	0.1	352	26.9	26.9	8.0	8.0	29.1	29.0	96.7	96.7	6.6	6.6	8.5		12			
						6.4	0.1	324	26.9		8.0		29.0		96.7		6.6		8.5		11			
IM6	Fine	Moderate	18:34	6.6	Surface	1.0	0.2	305	27.0	27.0	8.0	8.0	28.9	28.9	97.7	97.7	6.6	6.6	7.2	8.3	6	8	821045	805812
						1.0	0.2	307	27.0		8.0		28.9		97.6		6.6		7.3		6			
					Middle	3.3	0.1	314	27.0	27.0	8.0	8.0	29.0	29.0	97.5	97.5	6.6		8.4		8			
						3.3	0.1	338	27.0		8.0		29.0		97.5		6.6		8.4		8			
					Bottom	5.6	0.1	309	27.0	27.0	8.0	8.0	29.0	29.0	97.6	97.6	6.6	6.6	9.1		9			
						5.6	0.1	334	27.0		8.0		29.0		97.6		6.6		9.1		8			
IM7	Fine	Moderate	18:28	7.4	Surface	1.0	0.0	159	27.0	27.0	8.0	8.0	28.4	28.5	98.3	98.3	6.7	6.7	4.9	5.7	7	7	821356	806819
						1.0	0.0	164	27.0		8.0		28.5		98.2		6.7		4.9		8			
					Middle	3.7	0.0	252	26.9	26.9	8.0	8.0	29.0	29.0	98.0	98.0	6.7		5.2		6			
						3.7	0.0	260	26.9		8.0		29.0		98.0		6.7		5.1		7			
					Bottom	6.4	0.0	108	27.0	27.0	8.0	8.0	29.1	29.1	98.0	98.0	6.6	6.6	7.0		6			
						6.4	0.0	118	27.0		8.0		29.1		98.0		6.6		7.0		7			
IM8	Cloudy	Moderate	18:55	7.2	Surface	1.0	0.1	130	27.2	27.2	8.2	8.2	28.8	28.8	93.7	93.7	6.3	6.3	3.4	5.9	4	4	821812	808127
						1.0	0.1	138	27.2		8.2		28.8		93.7		6.3		3.5		3			
					Middle	3.6	0.1	173	26.8	26.8	8.2	8.2	29.7	29.7	93.2	93.2	6.3		5.6		3			
						3.6	0.1	183	26.8		8.2		29.7		93.2		6.3		5.6		4			
					Bottom	6.2	0.1	198	26.8	26.8	8.1	8.1	29.9	29.9	94.5	94.6	6.4	6.4	8.9		5			
						6.2	0.1	203	26.8		8.1		29.9		94.6		6.4		8.4		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 14 October 21 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	Cloudy	Moderate	19:01	6.8	Surface	1.0	0.3	352	27.0	27.0	8.2	8.2	29.4	29.4	93.6	93.6	6.3	6.3	3.8	6.7	3	4	822111	808805
						1.0	0.3	324	27.0		8.2		29.5		93.5		6.3		3.9		4			
					Middle	3.4	0.2	347	26.8	26.8	8.2	8.2	29.7	29.7	93.1	93.1	6.3		4.8		3			
						3.4	0.2	350	26.8		8.2		29.8		93.1		6.3		5.2		4			
					Bottom	5.8	0.3	348	26.8	26.8	8.2	8.2	30.1	30.1	93.1	93.2	6.3	6.3	11.1		5			
						5.8	0.3	350	26.8		8.2		30.1		93.3		6.3		11.2		6			
IM10	Cloudy	Moderate	19:11	7.6	Surface	1.0	0.3	341	27.2	27.2	8.2	8.2	29.7	29.7	94.8	94.8	6.4	6.4	3.6	5.2	4	3	822398	809791
						1.0	0.3	351	27.2		8.2		29.7		94.7		6.4		3.6		3			
					Middle	3.8	0.3	341	26.9	26.9	8.2	8.2	30.0	30.0	93.3	93.2	6.3		4.1		3			
						3.8	0.3	314	26.9		8.2		30.0		93.1		6.3		4.3		3			
					Bottom	6.6	0.3	338	26.7	26.7	8.2	8.2	30.3	30.3	91.9	92.0	6.2	6.2	7.9		3			
						6.6	0.3	311	26.7		8.2		30.3		92.0		6.2		7.9		3			
IM11	Cloudy	Moderate	19:24	7.2	Surface	1.0	0.2	332	27.0	27.0	8.2	8.2	30.5	30.5	93.1	93.1	6.3	6.2	4.3	7.1	5	4	822041	811444
						1.0	0.2	349	27.0		8.2		30.5		93.0		6.3		4.4		4			
					Middle	3.6	0.3	335	26.7	26.7	8.2	8.2	30.7	30.7	90.1	90.0	6.1		5.4		4			
						3.6	0.3	353	26.7		8.2		30.7		89.9		6.1		6.0		5			
					Bottom	6.2	0.3	338	26.7	26.7	8.2	8.2	30.9	30.9	89.1	89.2	6.0	6.0	11.4		3			
						6.2	0.3	343	26.7		8.2		30.9		89.2		6.0		11.1		3			
IM12	Cloudy	Moderate	19:31	8.5	Surface	1.0	0.2	348	26.9	26.9	8.2	8.2	30.6	30.6	93.8	93.8	6.3	6.2	5.4	7.2	3	3	821481	812042
						1.0	0.2	320	26.9		8.2		30.6		93.7		6.3		5.6		4			
					Middle	4.3	0.3	351	26.8	26.8	8.2	8.2	30.9	30.9	89.3	89.4	6.0		7.5		3			
						4.3	0.3	351	26.8		8.2		30.9		89.4		6.0		7.6		4			
					Bottom	7.5	0.3	352	26.8	26.8	8.2	8.2	31.0	31.0	90.3	90.4	6.1	6.1	8.6		3			
						7.5	0.3	324	26.8		8.2		31.0		90.4		6.1		8.6		3			
SR1A	Cloudy	Moderate	20:02	5.1	Surface	1.0	-	-	27.1	27.1	8.2	8.2	29.3	29.3	91.5	91.4	6.2	6.2	3.6	4.2	5	4	819972	812660
						1.0	-	-	27.1		8.2		29.4		91.3		6.2		3.6		4			
					Middle	2.6	-	-	-	-	-	-	-	-	-	-	-		-		-			
						2.6	-	-	-		-		-		-		-		-		-			
					Bottom	4.1	-	-	26.9	26.9	8.2	8.1	30.6	30.6	91.1	91.2	6.1	6.1	4.8		4			
						4.1	-	-	26.9		8.1		30.6		91.3		6.1		4.8		4			
SR2	Cloudy	Moderate	20:17	4.5	Surface	1.0	0.2	341	27.1	27.1	8.2	8.2	31.3	31.4	91.0	90.8	6.1	6.1	7.4	7.7	4	4	821447	814163
						1.0	0.2	314	27.1		8.2		31.4		90.6		6.0		7.5		3			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.5	2.5	341	27.1	27.1	8.2	8.2	31.7	31.7	90.3	90.4	6.0	6.0	7.8		4			
						3.5	2.7	355	27.1		8.2		31.7		90.4		6.0		8.0		4			
SR3	Cloudy	Moderate	18:48	8.4	Surface	1.0	0.3	2	26.9	26.9	8.2	8.2	28.5	28.5	92.4	92.4	6.3	6.3	3.5	5.0	5	5	822131	807588
						1.0	0.3	2	26.9		8.2		28.5		92.4		6.3		3.5		6			
					Middle	4.2	0.4	4	26.6	26.6	8.2	8.2	30.1	30.1	91.0	91.0	6.2		5.1		4			
						4.2	0.4	4	26.6		8.2		30.1		90.9		6.2		5.1		5			
					Bottom	7.4	0.4	4	26.6	26.6	8.1	8.1	30.3	30.3	87.5	87.3	5.9	5.9	6.3		3			
						7.4	0.4	4	26.6		8.1		30.3		87.0		5.9		6.7		4			
SR4A	Fine	Moderate	19:54	8.4	Surface	1.0	0.4	267	26.9	26.9	8.0	8.0	25.0	25.0	94.7	94.6	6.6	6.3	7.6	8.4	8	9	817182	807808
						1.0	0.4	269	26.9		8.0		25.0		94.4		6.6		7.5		7			
					Middle	4.2	0.3	267	27.0	27.0	8.0	8.0	30.8	30.8	89.2	89.3	6.0		8.6		8			
						4.2	0.3	269	27.0		8.0		30.9		89.3		6.0		8.5		8			
					Bottom	7.4	0.2	280	27.1	27.1	8.0	8.0	31.3	31.3	90.1	90.2	6.0	6.0	9.2		10			
						7.4	0.2	294	27.1		8.0		31.3		90.2		6.0		9.1		11			
SR5A	Fine	Moderate	20:13	3.6	Surface	1.0	0.4	249	26.9	26.9	8.0	8.0	27.9	27.9	92.1	92.1	6.3	6.3	9.3	9.6	7	8	816577	810676
						1.0	0.4	258	26.9		8.0		27.9		92.0		6.3		9.2		8			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	2.6	0.3	260	27.0	27.0	7.9	7.9	29.1	29.1	92.1	92.4	6.2	6.3	10.0		9			
						2.6	0.4	263	27.0		7.9		29.1		92.6		6.3		10.0		8			
SR6A	Fine	Moderate	20:45	4.0	Surface	1.0	0.5	242	27.4	27.4	7.9	7.9	30.2	30.3	95.8	95.2	6.4	6.4	5.6	6.0	6	6	817946	814736
						1.0	0.6	252	27.4		7.9		30.4		94.5		6.3		5.6		5			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.0	0.4	260	27.5	27.5	7.9	7.9	30.9	30.8	90.5	90.8	6.0	6.1	6.4		5			
						3.0	0.4	272	27.4		7.9		30.8		91.0		6.1		6.5		6			
SR7	Cloudy	Moderate	21:15	16.9	Surface	1.0	0.3	265	27.2	27.2	8.2	8.2	32.0	32.0	89.7	89.6	6.0	5.9	4.3	7.1	4	4	823632	823728
						1.0	0.3	266	27.2		8.2		32.1		89.4		5.9		4.7		4			
					Middle	8.5	0.3	266	27.2	27.2	8.2	8.2	32.8	32.8	87.4	87.4	5.8		7.6		3			
						8.5	0.3	274	27.2		8.2		32.8		87.4		5.8		7.7		4			
					Bottom	15.9	0.3	270	27.3	27.3	8.2	8.2	32.9	32.9	88.3	88.4	5.8	5.8	9.4		3			
						15.9	0.3	291	27.3		8.2		32.9		88.5		5.8		9.2		4			
SR8	Cloudy	Moderate	19:39	4.1	Surface	1.0	-	-	27.3	27.3	8.2	8.2	29.7	29.7	95.9	95.9	6.4	6.4	7.8	7.5	3	3	820407	811623
						1.0	-	-	27.3		8.2		29.7		95.9		6.4		8.1		3			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.1	-	-	27.1	27.1	8.2	8.1	30.2	30.2	97.6	97.8	6.6	6.6	7.2		3			
						3.1	-	-	27.1		8.1		30.2		97.9		6.6		7.1		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 16 October 21 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	Rough	10:05	8.2	Surface	1.0	0.6	212	26.8	26.8	8.1	8.1	31.2	31.2	99.0	98.9	6.6	6.5	5.3	10.4	3	5	815601	804256
						1.0	0.6	222	26.8		8.1		31.2		98.8		6.6		5.3		3			
					Middle	4.1	0.4	204	27.1	27.1	8.1	8.1	31.9	31.9	96.2	96.2	6.4		10.6		5			
						4.1	0.4	212	27.1		8.1		31.9		96.2		6.4		11.1		6			
					Bottom	7.2	0.3	219	27.1	27.1	8.0	8.0	32.0	32.0	96.1	96.1	6.4	6.4	15.1		5			
						7.2	0.3	220	27.1		8.0		32.0		96.1		6.4		15.2		6			
C2	Misty	Moderate	10:26	12.0	Surface	1.0	0.6	163	26.8	26.8	8.2	8.2	31.1	31.1	93.9	94.0	6.3	6.4	5.0	5.4	5	4	825699	806938
						1.0	0.6	173	26.8		8.2		31.1		94.0		6.3		5.0		6			
					Middle	6.0	0.5	151	26.6	26.6	8.2	8.1	31.5	31.5	95.0	95.3	6.4		5.2		5			
						6.0	0.6	156	26.5		8.1		31.6		95.5		6.4		5.3		4			
					Bottom	11.0	0.3	134	26.2	26.2	8.1	8.1	31.8	31.8	97.0	97.8	6.6	6.7	6.0		3			
						11.0	0.4	146	26.1		8.1		31.9		98.6		6.7		6.0		3			
C3	Misty	Moderate	08:34	10.8	Surface	1.0	0.3	121	27.0	27.0	8.1	8.1	32.0	32.0	89.6	89.7	6.0	6.0	1.4	2.5	5	5	822087	817805
						1.0	0.3	133	27.0		8.1		32.0		89.8		6.0		1.5		4			
					Middle	5.4	0.3	107	27.0	27.0	8.1	8.1	32.0	32.0	90.8	91.0	6.0		2.5		5			
						5.4	0.3	107	27.0		8.1		32.0		91.2		6.1		2.4		4			
					Bottom	9.8	0.3	54	27.0	27.0	8.1	8.1	32.0	32.0	92.6	93.0	6.2	6.2	3.6		4			
						9.8	0.3	54	27.0		8.1		32.0		93.4		6.2		3.6		5			
IM1	Cloudy	Moderate	10:27	4.6	Surface	1.0	0.0	0	27.1	27.1	8.0	8.0	31.2	31.2	95.4	95.4	6.4	6.4	8.8	10.7	6	7	817939	807117
						1.0	0.0	0	27.1		8.0		31.2		95.3		6.4		9.5		7			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.6	0.0	0	27.1	27.1	8.0	8.0	31.3	31.3	92.3	92.4	6.2	6.2	12.4		7			
						3.6	0.0	0	27.1		8.0		31.3		92.5		6.2		12.2		6			
IM2	Cloudy	Moderate	10:34	6.3	Surface	1.0	0.0	0	27.0	27.0	8.0	8.0	31.3	31.3	96.5	96.5	6.5	6.4	5.3	8.8	5	4	818139	806180
						1.0	0.0	0	27.0		8.0		31.3		96.4		6.4		5.3		5			
					Middle	3.2	-	0	27.1	27.1	8.0	8.0	31.4	31.4	95.3	95.3	6.4		8.3		3			
						3.2	-	0	27.1		8.0		31.5		95.3		6.4		8.9		4			
					Bottom	5.3	0.0	0	27.1	27.1	8.0	8.0	31.6	31.6	95.8	95.9	6.4	6.4	12.4		4			
						5.3	0.0	0	27.0		8.0		31.7		95.9		6.4		12.4		3			
IM3	Cloudy	Moderate	10:42	6.4	Surface	1.0	0.3	111	27.0	27.0	8.1	8.1	30.5	30.6	95.6	95.6	6.4	6.4	14.3	13.5	11	9	818766	805578
						1.0	0.3	113	27.0		8.1		30.6		95.5		6.4		15.8		11			
					Middle	3.2	0.2	86	27.1	27.1	8.1	8.1	31.2	31.3	94.9	94.9	6.3		12.4		10			
						3.2	0.2	88	27.1		8.1		31.3		94.8		6.3		12.2		9			
					Bottom	5.4	0.1	12	27.1	27.1	8.0	8.0	31.5	31.5	95.2	95.3	6.4	6.4	12.8		8			
						5.4	0.1	12	27.1		8.0		31.4		95.4		6.4		13.3		7			
IM4	Cloudy	Rough	10:52	8.2	Surface	1.0	0.9	198	27.0	27.0	8.0	8.0	29.1	29.1	98.1	98.1	6.6	6.6	8.1	11.7	6	7	819736	804628
						1.0	0.9	199	27.0		8.0		29.1		98.0		6.6		8.3		6			
					Middle	4.1	0.8	192	26.9	26.9	8.0	8.0	29.3	29.3	97.3	97.3	6.6		12.5		8			
						4.1	0.9	206	26.9		8.0		29.4		97.3		6.6		12.7		7			
					Bottom	7.2	0.6	193	26.9	26.9	8.0	8.0	29.4	29.4	97.7	97.8	6.6	6.6	14.1		8			
						7.2	0.6	211	26.9		8.0		29.4		97.8		6.6		14.4		7			
IM5	Cloudy	Rough	11:03	7.6	Surface	1.0	0.9	210	27.1	27.1	8.0	8.0	29.7	29.7	97.0	96.9	6.5	6.5	6.7	10.2	7	6	820728	804882
						1.0	1.0	227	27.1		8.0		29.7		96.8		6.5		7.0		6			
					Middle	3.8	0.8	210	27.0	27.0	8.0	8.0	30.2	30.2	95.2	95.2	6.4		10.3		6			
						3.8	0.8	229	27.0		8.0		30.2		95.2		6.4		10.3		7			
					Bottom	6.6	0.6	209	27.0	27.0	8.0	8.0	30.2	30.2	95.8	95.9	6.4	6.5	13.6		5			
						6.6	0.7	220	27.0		8.0		30.2		95.9		6.5		13.4		6			
IM6	Cloudy	Rough	11:13	7.1	Surface	1.0	0.6	239	27.1	27.1	8.0	8.0	30.1	30.1	97.7	97.6	6.6	6.6	6.2	7.8	4	5	821069	805847
						1.0	0.6	259	27.1		8.0		30.2		97.5		6.6		6.3		5			
					Middle	3.6	0.5	236	27.0	27.0	8.0	8.0	30.4	30.4	96.4	96.4	6.5		7.7		6			
						3.6	0.6	259	27.0		8.0		30.4		96.3		6.5		8.0		5			
					Bottom	6.1	0.4	234	27.0	27.0	8.0	8.0	30.5	30.5	96.8	96.9	6.5	6.5	9.2		5			
						6.1	0.5	241	27.0		8.0		30.5		97.0		6.5		9.3		5			
IM7	Cloudy	Rough	11:22	8.0	Surface	1.0	0.5	239	27.1	27.1	8.0	8.0	29.9	29.9	97.6	97.5	6.6	6.5	5.7	7.1	6	6	821348	806823
						1.0	0.5	239	27.0		8.0		29.9		97.4		6.6		5.7		6			
					Middle	4.0	0.5	240	27.0	27.0	8.0	8.0	30.3	30.4	94.8	94.7	6.4		7.4		6			
						4.0	0.5	257	27.0		8.0		30.4		94.6		6.4		7.7		6			
					Bottom	7.0	0.4	251	27.0	27.0	8.0	8.0	30.6	30.6	94.4	94.5	6.3	6.3	8.1		6			
						7.0	0.4	267	27.0		8.0		30.6		94.5		6.3		8.1		5			
IM8	Misty	Moderate	09:55	7.8	Surface	1.0	0.1	126	26.8	26.8	8.2	8.2	30.6	30.6	92.5	92.5	6.2	6.2	3.3	4.3	7	6	821826	808151
						1.0	0.1	137	26.8		8.2		30.6		92.5		6.2		3.4		6			
					Middle	3.9	0.2	137	26.8	26.8	8.2	8.2	30.6	30.6	92.5	92.6	6.2		4.4		5			
						3.9	0.2	145	26.8		8.2		30.6		92.6		6.2		4.5		6			
					Bottom	6.8	0.1	67	26.8	26.8	8.2	8.2	30.5	30.5	92.6	92.6	6.2	6.2	5.1		5			
						6.8	0.1	71	26.8		8.2		30.6		92.6		6.2		5.0		6			

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

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 16 October 21 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	Misty	Moderate	09:49	7.2	Surface	1.0	0.3	110	26.8	26.8	8.2	8.2	30.6	30.6	92.9	92.9	6.3	6.3	6.2	7.3	5	5	822113	808789
						1.0	0.3	111	26.8		8.2		30.6		92.9		6.3		6.3		6			
					Middle	3.6	0.2	102	26.8	26.8	8.1	8.1	30.6	30.6	93.3	93.4	6.3		7.5		5			
						3.6	0.2	103	26.8		8.1		30.6		93.4		6.3		7.6		6			
					Bottom	6.2	0.2	107	26.7	26.7	8.1	8.1	30.7	30.7	93.9	94.0	6.3	6.4	8.0		5			
						6.2	0.2	108	26.6		8.1		30.7		94.0		6.4		8.0		4			
IM10	Misty	Moderate	09:43	7.6	Surface	1.0	0.7	112	26.8	26.8	8.2	8.2	31.0	31.1	91.5	91.5	6.1	6.2	5.4	6.6	5	5	822391	809812
						1.0	0.7	114	26.8		8.2		31.1		91.5		6.1		5.5		6			
					Middle	3.8	0.6	106	26.8	26.8	8.2	8.2	31.1	31.1	91.7	91.8	6.2		6.8		5			
						3.8	0.6	106	26.8		8.2		31.2		91.8		6.2		6.9		4			
					Bottom	6.6	0.5	104	26.8	26.8	8.2	8.2	31.2	31.2	91.9	91.9	6.2	6.2	7.6		4			
						6.6	0.5	109	26.8		8.2		31.2		91.9		6.2		7.6		5			
IM11	Misty	Moderate	09:34	8.2	Surface	1.0	0.9	127	26.9	26.9	8.2	8.2	31.1	31.1	91.3	91.4	6.1	6.2	5.4	6.3	3	5	822069	811477
						1.0	1.0	131	26.9		8.2		31.1		91.4		6.1		5.5		4			
					Middle	4.1	0.9	119	26.8	26.8	8.2	8.2	31.2	31.2	91.9	91.9	6.2		6.3		5			
						4.1	0.9	126	26.8		8.2		31.2		91.9		6.2		6.3		6			
					Bottom	7.2	0.6	104	26.8	26.8	8.2	8.2	31.1	31.1	92.3	92.4	6.2	6.2	7.1		5			
						7.2	0.6	107	26.8		8.2		31.1		92.5		6.2		7.1		5			
IM12	Misty	Moderate	09:28	9.2	Surface	1.0	0.6	105	26.9	26.9	8.2	8.2	30.8	30.8	88.4	88.5	5.9	6.0	3.7	3.6	4	4	821473	812050
						1.0	0.6	105	26.9		8.2		30.8		88.5		5.9		3.6		4			
					Middle	4.6	0.6	112	26.9	26.9	8.2	8.2	30.8	30.7	88.7	88.7	6.0		4.1		4			
						4.6	0.6	113	26.9		8.2		30.7		88.6		6.0		4.1		5			
					Bottom	8.2	0.4	102	26.9	26.9	8.2	8.2	31.1	31.1	88.6	88.6	5.9	5.9	2.9		4			
						8.2	0.4	110	26.9		8.2		31.1		88.6		5.9		2.9		5			
SR1A	Misty	Moderate	09:08	5.0	Surface	1.0	-	-	26.9	26.9	8.2	8.2	32.0	32.0	89.5	89.6	6.0	6.0	6.3	4.6	3	3	819975	812655
						1.0	-	-	26.8		8.2		32.0		89.6		6.0		6.3		2			
					Middle	2.5	-	-	-	-	-	-	-	-	-	-	-		-		-			
						2.5	-	-	-		-		-		-		-		-		-			
					Bottom	4.0	-	-	26.9	26.9	8.1	8.1	31.1	31.1	89.9	90.0	6.0	6.0	2.9		4			
						4.0	-	-	26.9		8.1		31.1		90.0		6.0		2.9		3			
SR2	Misty	Moderate	08:53	3.4	Surface	1.0	0.6	83	27.0	27.0	8.1	8.1	31.3	31.3	90.4	90.6	6.1	6.1	4.0	4.0	3	6	821486	814149
						1.0	0.6	89	27.0		8.1		31.4		90.7		6.1		3.9		4			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	2.4	0.4	72	27.0	27.0	8.1	8.1	31.6	31.5	92.6	93.1	6.2	6.3	4.0		7			
						2.4	0.5	72	27.0		8.1		31.5		93.5		6.3		4.0		8			
SR3	Misty	Moderate	10:01	9.0	Surface	1.0	0.0	220	26.8	26.8	8.2	8.2	30.6	30.7	91.6	91.6	6.2	6.2	5.6	6.5	4	5	822157	807555
						1.0	0.0	224	26.8		8.2		30.7		91.6		6.2		5.5		4			
					Middle	4.5	0.0	292	26.8	26.8	8.2	8.2	30.8	30.8	91.9	92.0	6.2		6.1		5			
						4.5	0.0	305	26.8		8.2		30.9		92.1		6.2		6.0		6			
					Bottom	8.0	0.1	88	26.8	26.8	8.2	8.2	31.2	31.1	92.6	92.6	6.2	6.2	7.9		5			
						8.0	0.1	94	26.8		8.2		31.1		92.6		6.2		7.9		6			
SR4A	Cloudy	Moderate	09:45	8.8	Surface	1.0	0.1	264	26.9	26.9	8.0	8.0	30.5	30.5	94.8	94.9	6.4	6.4	6.0	7.5	6	5	817178	807801
						1.0	0.1	286	26.9		8.0		30.6		94.9		6.4		6.0		5			
					Middle	4.4	0.0	78	27.0	27.0	8.0	8.0	31.1	31.1	94.7	94.6	6.3		7.7		5			
						4.4	0.0	79	27.0		8.0		31.1		94.5		6.3		7.9		6			
					Bottom	7.8	0.1	30	27.0	27.0	8.0	8.0	31.2	31.2	93.9	94.0	6.3	6.3	8.7		5			
						7.8	0.1	30	27.0		8.0		31.2		94.0		6.3		8.6		4			
SR5A	Cloudy	Moderate	09:28	3.1	Surface	1.0	0.1	241	27.1	27.1	8.0	8.0	30.4	30.4	90.6	90.6	6.1	6.1	14.9	14.6	4	4	816596	810672
						1.0	0.1	242	27.1		8.0		30.4		90.6		6.1		14.9		3			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	2.1	0.1	242	27.1	27.1	8.0	8.0	30.5	30.5	90.7	90.7	6.1	6.1	14.3		4			
						2.1	0.1	263	27.1		8.0		30.5		90.7		6.1		14.1		5			
SR6A	Cloudy	Moderate	09:01	4.7	Surface	1.0	0.1	329	27.2	27.2	8.0	8.0	28.2	28.2	85.2	85.2	5.8	5.8	5.9	6.4	4	4	817963	814756
						1.0	0.1	357	27.2		8.0		28.2		85.1		5.8		6.1		3			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.7	0.0	316	27.2	27.2	7.9	7.9	30.8	30.8	85.5	85.6	5.7	5.7	6.9		4			
						3.7	0.0	322	27.2		7.9		30.8		85.6		5.7		6.8		3			
SR7	Misty	Moderate	08:15	16.0	Surface	1.0	0.4	62	27.3	27.3	8.1	8.1	32.7	32.7	84.0	84.0	5.5	5.6	2.4	3.5	3	3	823617	823748
						1.0	0.4	67	27.3		8.1		32.7		84.0		5.6		2.4		2			
					Middle	8.0	0.4	68	27.3	27.3	8.0	8.0	32.6	32.6	84.4	84.5	5.6		3.5		2			
						8.0	0.4	73	27.3		8.0		32.6		84.5		5.6		3.5		3			
					Bottom	15.0	0.3	25	27.3	27.3	8.0	8.0	32.6	32.6	85.9	86.2	5.7	5.7	4.5		3			
						15.0	0.3	25	27.3		8.0		32.6		86.4		5.7		4.6		4			
SR8	Misty	Moderate	09:23	5.0	Surface	1.0	-	-	26.7	26.7	8.2	8.2	31.6	31.6	89.8	90.1	6.0	6.1	4.0	4.0	3	4	820402	811623
						1.0	-	-	26.7		8.2		31.6		90.3		6.1		3.9		4			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	4.0	-	-	27.0	27.0	8.2	8.2	31.3	31.4	86.7	86.7	5.8	5.8	4.1		4			
						4.0	-	-	27.0		8.2		31.4		86.7		5.8		4.2		4			

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

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 16 October 21 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	Rough	16:54	8.3	Surface	1.0	0.3	82	27.1	27.1	8.0	8.0	30.3	30.3	96.9	96.9	6.5	6.5	12.6	12.8	8	9	815632	804245
						1.0	0.3	85	27.1		8.0		30.3		96.9		6.5		12.6		7			
					Middle	4.2	0.3	101	27.1	27.1	8.0	8.0	30.5	30.5	96.5	96.5	6.5		12.6		8			
						4.2	0.4	103	27.1		8.0		30.5		96.4		6.5		12.6		9			
					Bottom	7.3	0.3	66	27.1	27.1	8.0	8.0	30.6	30.6	96.2	96.2	6.5	6.5	13.3		10			
						7.3	0.3	68	27.1		8.0		30.6		96.1		6.4		13.2		11			
C2	Misty	Moderate	15:47	11.2	Surface	1.0	0.5	3	26.8	26.8	8.2	8.2	31.0	31.0	92.3	92.4	6.2	6.3	3.7	4.5	5	4	825697	806951
						1.0	0.5	3	26.8		8.2		31.1		92.5		6.2		3.8		4			
					Middle	5.6	0.5	357	26.7	26.7	8.2	8.2	31.3	31.3	93.1	93.2	6.3		4.1		5			
						5.6	0.6	328	26.7		8.2		31.3		93.3		6.3		4.1		4			
					Bottom	10.2	0.6	19	26.7	26.7	8.2	8.2	31.3	31.3	93.5	93.5	6.3	6.3	5.8		4			
						10.2	0.6	19	26.7		8.2		31.3		93.5		6.3		5.8		4			
C3	Misty	Moderate	17:28	12.2	Surface	1.0	0.6	255	26.9	26.9	8.2	8.2	30.9	30.9	94.2	94.3	6.3	6.4	2.0	3.6	3	4	822126	817807
						1.0	0.6	264	26.9		8.2		30.9		94.3		6.3		2.1		4			
					Middle	6.1	0.7	261	26.9	26.9	8.2	8.2	30.9	30.9	95.1	95.3	6.4		3.9		4			
						6.1	0.8	277	26.9		8.2		30.9		95.4		6.4		3.8		3			
					Bottom	11.2	0.5	263	27.1	27.1	8.1	8.1	30.8	30.8	97.1	97.6	6.5	6.6	5.0		3			
						11.2	0.5	288	27.1		8.1		30.8		98.0		6.6		5.0		4			
IM1	Cloudy	Rough	16:33	5.0	Surface	1.0	0.2	329	27.2	27.2	8.0	8.0	31.2	31.2	97.5	97.5	6.5	6.5	6.9	10.5	8	8	817968	807120
						1.0	0.2	303	27.2		8.0		31.2		97.4		6.5		6.8		7			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	4.0	0.1	336	27.2	27.2	8.0	8.0	31.3	31.3	92.1	92.2	6.1	6.2	14.1		8			
						4.0	0.1	309	27.2		8.0		31.3		92.3		6.2		14.2		8			
IM2	Cloudy	Rough	16:26	6.6	Surface	1.0	0.3	17	27.1	27.1	8.1	8.1	30.4	30.4	97.8	97.8	6.6	6.6	10.3	11.9	8	11	818174	806178
						1.0	0.3	17	27.1		8.1		30.4		97.7		6.6		10.6		9			
					Middle	3.3	0.3	4	27.2	27.2	8.0	8.0	30.5	30.5	97.3	97.3	6.5		14.0		11			
						3.3	0.3	4	27.2		8.0		30.5		97.3		6.5		13.9		12			
					Bottom	5.6	0.3	3	27.2	27.2	7.9	7.8	30.5	30.5	97.4	97.4	6.5	6.5	11.4		12			
						5.6	0.3	3	27.2		7.8		30.5		97.4		6.5		11.1		11			
IM3	Cloudy	Rough	16:19	6.7	Surface	1.0	0.3	337	27.1	27.1	8.0	8.0	30.6	30.6	97.7	97.6	6.5	6.5	9.4	10.4	15	14	818792	805587
						1.0	0.3	349	27.1		8.0		30.6		97.5		6.5		9.5		16			
					Middle	3.4	0.3	338	27.1	27.2	8.0	8.0	30.7	30.7	96.3	96.2	6.4		9.5		14			
						3.4	0.3	341	27.2		8.0		30.7		96.0		6.4		9.4		15			
					Bottom	5.7	0.2	335	27.2	27.2	8.0	8.0	30.9	30.9	95.3	95.4	6.4	6.4	11.9		12			
						5.7	0.2	358	27.2		8.0		30.9		95.4		6.4		12.8		13			
IM4	Cloudy	Rough	16:10	7.8	Surface	1.0	0.2	290	27.2	27.2	8.1	8.1	31.4	31.4	97.9	97.8	6.5	6.5	6.5	7.0	7	8	819746	804616
						1.0	0.2	300	27.2		8.1		31.4		97.7		6.5		6.5		6			
					Middle	3.9	0.2	294	27.2	27.2	8.0	8.0	31.4	31.4	97.1	97.1	6.5		6.8		8			
						3.9	0.2	306	27.2		8.0		31.4		97.0		6.5		6.9		7			
					Bottom	6.8	0.2	301	27.2	27.2	8.0	8.0	31.4	31.4	96.9	96.9	6.5	6.5	7.5		9			
						6.8	0.2	305	27.2		8.0		31.4		96.9		6.5		7.6		8			
IM5	Cloudy	Rough	16:04	7.0	Surface	1.0	0.3	269	27.5	27.5	8.0	8.0	30.3	30.3	95.8	95.8	6.4	6.4	6.9	7.2	7	9	820722	804877
						1.0	0.3	290	27.5		8.0		30.3		95.7		6.4		7.0		8			
					Middle	3.5	0.3	274	27.5	27.5	8.0	8.0	30.3	30.3	95.4	95.4	6.4		7.3		10			
						3.5	0.3	280	27.5		8.0		30.3		95.4		6.4		7.3		9			
					Bottom	6.0	0.3	273	27.5	27.5	8.0	8.0	30.4	30.4	95.4	95.4	6.4	6.4	7.3		10			
						6.0	0.3	281	27.5		8.0		30.4		95.4		6.4		7.3		11			
IM6	Cloudy	Rough	15:58	6.5	Surface	1.0	0.3	227	27.5	27.5	8.0	8.0	30.0	30.1	96.2	96.2	6.4	6.4	6.4	6.7	7	7	821062	805809
						1.0	0.3	238	27.5		8.0		30.1		96.1		6.4		6.5		8			
					Middle	3.3	0.3	232	27.5	27.5	8.0	8.0	30.2	30.2	96.0	96.0	6.4		6.7		8			
						3.3	0.3	253	27.5		8.0		30.2		95.9		6.4		6.8		7			
					Bottom	5.5	0.2	269	27.5	27.5	8.0	8.0	30.3	30.3	95.5	95.5	6.4	6.4	6.9		7			
						5.5	0.3	272	27.5		8.0		30.3		95.5		6.4		7.0		7			
IM7	Cloudy	Rough	15:47	7.6	Surface	1.0	0.5	251	27.5	27.5	8.0	8.0	30.2	30.2	96.6	96.6	6.4	6.4	5.7	6.1	6	7	821359	806840
						1.0	0.6	265	27.5		8.0		30.2		96.5		6.4		5.7		7			
					Middle	3.8	0.5	256	27.5	27.5	8.0	8.0	30.6	30.6	95.5	95.5	6.4		6.0		7			
						3.8	0.5	259	27.5		8.0		30.6		95.5		6.4		6.1		8			
					Bottom	6.6	0.3	263	27.5	27.5	8.0	8.0	30.8	30.8	94.9	94.9	6.3	6.3	6.5		7			
						6.6	0.3	272	27.5		8.0		30.8		94.9		6.3		6.5		8			
IM8	Misty	Moderate	16:03	8.2	Surface	1.0	0.2	82	27.2	27.2	8.2	8.1	31.5	31.5	90.5	90.7	6.0	6.1	4.0	5.3	5	5	821843	808119
						1.0	0.2	83	27.2		8.1		31.6		90.8		6.1		4.0		4			
					Middle	4.1	0.2	79	27.1	27.1	8.1	8.1	31.7	31.7	91.2	91.3	6.1		5.2		4			
						4.1	0.2	81	27.1		8.1		31.7		91.4		6.1		5.2		5			
					Bottom	7.2	0.1	91	27.1	27.1	8.1	8.1	31.8	31.8	92.9	93.3	6.2	6.2	6.5		5			
						7.2	0.1	92	27.1		8.1		31.8		93.7		6.2		6.5		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 16 October 21 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	Misty	Moderate	16:14	7.6	Surface	1.0	0.4	81	27.2	27.2	8.2	8.2	31.4	31.4	88.4	88.3	5.9	5.9	4.7	5.3	6	6	822084	808824
						1.0	0.4	83	27.2		8.2		31.4		88.2		5.9		4.8		5			
					Middle	3.8	0.4	82	27.2	27.2	8.2	8.2	31.6	31.6	86.9	86.8	5.8		5.0		6			
						3.8	0.4	87	27.2		8.2		31.6		86.7		5.8		5.1		7			
					Bottom	6.6	0.4	74	27.2	27.3	8.2	8.2	31.9	31.8	90.2	90.4	6.0	6.0	6.0		6			
						6.6	0.4	80	27.3		8.2		31.8		90.5		6.0		6.0		7			
IM10	Misty	Moderate	16:23	6.8	Surface	1.0	0.8	307	27.3	27.3	8.2	8.2	31.3	31.3	91.1	91.1	6.1	6.1	2.3	3.3	4	4	822408	809799
						1.0	0.8	334	27.3		8.2		31.3		91.1		6.1		2.3		5			
					Middle	3.4	0.7	310	27.3	27.3	8.2	8.2	31.3	31.3	91.0	91.0	6.1		3.4		5			
						3.4	0.7	336	27.3		8.2		31.3		91.0		6.1		3.4		4			
					Bottom	5.8	0.6	306	27.3	27.3	8.2	8.2	31.3	31.3	90.8	90.8	6.1	6.1	4.3		3			
						5.8	0.6	320	27.3		8.2		31.2		90.7		6.0		4.3		4			
IM11	Misty	Moderate	16:30	6.2	Surface	1.0	0.8	290	27.0	27.0	8.2	8.2	31.6	31.6	93.7	93.8	6.3	6.3	4.2	5.9	6	5	822047	811457
						1.0	0.9	294	27.0		8.2		31.6		93.9		6.3		4.2		5			
					Middle	3.1	0.7	296	27.0	27.0	8.2	8.1	31.6	31.6	94.7	94.9	6.3		5.5		4			
						3.1	0.7	315	27.0		8.1		31.6		95.1		6.3		5.4		5			
					Bottom	5.2	0.4	294	27.1	27.1	8.1	8.1	31.6	31.6	97.2	97.6	6.5	6.5	8.0		4			
						5.2	0.4	321	27.1		8.1		31.6		98.0		6.5		8.0		5			
IM12	Misty	Moderate	16:31	9.2	Surface	1.0	0.9	279	27.0	27.0	8.2	8.2	31.6	31.6	90.9	91.0	6.1	6.1	5.7	6.5	8	7	821437	812045
						1.0	1.0	298	27.0		8.2		31.6		91.0		6.1		5.8		7			
					Middle	4.6	0.7	279	27.0	27.0	8.2	8.2	31.6	31.6	91.4	91.5	6.1		6.6		7			
						4.6	0.8	289	27.0		8.2		31.6		91.5		6.1		6.5		7			
					Bottom	8.2	0.5	282	27.1	27.1	8.2	8.2	31.6	31.6	91.9	92.0	6.1	6.1	7.2		6			
						8.2	0.6	299	27.1		8.2		31.6		92.1		6.1		7.2		7			
SR1A	Misty	Moderate	16:59	4.8	Surface	1.0	-	-	27.0	27.0	8.2	8.2	31.3	31.3	92.2	92.3	6.2	6.2	5.3	5.8	6	5	819971	812661
						1.0	-	-	27.0		8.2		31.3		92.3		6.2		5.4		5			
					Middle	2.4	-	-	-	-	-	-	-	-	-	-	-		-		-			
						2.4	-	-	-		-		-		-		-		-		-			
					Bottom	3.8	-	-	27.0	27.0	8.2	8.2	31.3	31.3	92.6	92.6	6.2	6.2	6.2		5			
						3.8	-	-	27.0		8.2		31.3		92.6		6.2		6.1		4			
SR2	Misty	Moderate	17:12	4.0	Surface	1.0	0.1	11	27.0	27.0	8.2	8.2	31.3	31.3	91.7	91.7	6.1	6.1	5.3	5.9	5	4	821451	814171
						1.0	0.1	11	27.0		8.2		31.3		91.7		6.1		5.3		5			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.0	0.1	14	26.9	26.9	8.2	8.2	31.3	31.3	92.1	92.2	6.2	6.2	6.5		3			
						3.0	0.1	14	26.9		8.2		31.3		92.3		6.2		6.6		4			
SR3	Misty	Moderate	15:57	9.4	Surface	1.0	0.2	64	26.8	26.8	8.2	8.2	31.0	31.0	91.3	91.3	6.1	6.1	3.6	4.6	5	6	822132	807567
						1.0	0.2	68	26.8		8.2		31.1		91.3		6.1		3.5		6			
					Middle	4.7	0.2	76	26.8	26.8	8.2	8.2	31.3	31.3	91.5	91.6	6.1		4.7		5			
						4.7	0.2	82	26.8		8.2		31.3		91.6		6.2		4.7		6			
					Bottom	8.4	0.3	80	26.7	26.7	8.2	8.2	31.3	31.3	92.3	92.4	6.2	6.2	5.6		6			
						8.4	0.3	85	26.7		8.2		31.3		92.4		6.2		5.7		6			
SR4A	Cloudy	Rough	17:14	8.4	Surface	1.0	0.2	247	27.4	27.4	8.0	8.0	30.0	30.0	94.0	94.0	6.3	6.3	9.5	10.0	10	11	817207	807822
						1.0	0.2	268	27.4		8.0		30.0		93.9		6.3		9.7		11			
					Middle	4.2	0.2	241	27.4	27.4	8.0	8.0	30.0	30.0	93.8	93.8	6.3		10.1		11			
						4.2	0.2	257	27.4		8.0		30.0		93.8		6.3		10.2		12			
					Bottom	7.4	0.1	233	27.4	27.4	8.0	8.0	30.0	30.0	94.4	94.5	6.3	6.3	10.4		11			
						7.4	0.1	235	27.4		8.0		30.0		94.6		6.3		10.2		12			
SR5A	Cloudy	Rough	17:32	3.8	Surface	1.0	0.1	309	27.5	27.5	8.0	8.0	30.0	30.0	94.8	94.6	6.3	6.3	17.2	16.9	12	15	816581	810688
						1.0	0.1	312	27.5		8.0		30.0		94.4		6.3		17.5		11			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	2.8	0.1	333	27.5	27.5	8.0	8.0	30.0	30.0	93.7	93.7	6.3	6.3	16.5		19			
						2.8	0.1	357	27.5		8.0		30.0		93.7		6.3		16.5		18			
SR6A	Cloudy	Rough	18:15	4.2	Surface	1.0	0.0	204	27.5	27.5	8.0	8.0	29.7	29.8	98.4	98.2	6.6	6.6	8.4	9.6	18	19	817974	814749
						1.0	0.0	223	27.5		8.0		29.8		97.9		6.6		8.8		18			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.2	0.0	155	27.4	27.4	7.9	7.9	30.2	30.2	88.3	88.4	5.9	5.9	10.7		20			
						3.2	0.0	168	27.4		7.9		30.2		88.5		5.9		10.6		19			
SR7	Misty	Moderate	18:04	14.0	Surface	1.0	0.1	328	26.9	26.9	8.2	8.2	31.0	31.0	91.0	90.9	6.1	6.1	7.0	8.1	6	6	823659	823751
						1.0	0.1	348	26.9		8.2		31.0		90.8		6.1		7.0		5			
					Middle	7.0	0.3	91	26.9	26.9	8.2	8.2	31.0	31.0	90.7	90.8	6.1		8.2		6			
						7.0	0.3	96	26.9		8.2		31.0		90.9		6.1		8.1		5			
					Bottom	13.0	0.2	66	26.9	26.9	8.2	8.2	30.9	30.9	91.6	91.8	6.2	6.2	9.0		6			
						13.0	0.2	68	26.9		8.2		30.9		91.9		6.2		9.0		5			
SR8	Misty	Moderate	16:39	4.2	Surface	1.0	-	-	26.9	26.9	8.2	8.2	31.3	31.3	94.3	94.5	6.3	6.3	6.1	6.6	8	7	820407	811635
						1.0	-	-	26.9		8.2		31.3		94.7		6.3		6.1		8			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.2	-	-	27.0	27.0	8.1	8.1	31.2	31.2	97.5	97.8	6.5	6.6	7.0		6			
						3.2	-	-	27.0		8.1		31.2		98.1		6.6		7.0		5			

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

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 19 October 21 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	Sunny	Moderate	11:30	8.4	Surface	1.0	0.3	69	27.2	27.2	8.2	8.2	34.1	34.1	94.7	94.7	6.2	6.2	7.0	10.0	8	10	815599	804246
						1.0	0.3	72	27.2		8.2		34.1		94.6		6.2		7.0		8			
					Middle	4.2	0.3	70	26.7	26.7	8.2	8.2	34.1	34.1	91.4	91.4	6.1		10.5		9			
						4.2	0.3	73	26.7		8.2		34.1		91.4		6.1		10.8		10			
					Bottom	7.4	0.3	69	26.7	26.7	8.2	8.2	34.1	34.1	91.6	91.6	6.1	6.1	12.4		12			
						7.4	0.3	75	26.7		8.2		34.1		91.6		6.1		12.1		11			
C2	Fine	Moderate	10:32	12.4	Surface	1.0	0.4	162	26.6	26.6	8.0	8.0	31.8	31.8	94.5	94.5	6.3	6.3	6.5	6.8	10	10	825703	806930
						1.0	0.5	173	26.6		8.0		31.8		94.5		6.3		6.4		11			
					Middle	6.2	0.4	165	26.6	26.6	8.0	8.0	31.9	31.9	94.5	94.5	6.3		6.0		11			
						6.2	0.4	167	26.6		8.0		31.9		94.5		6.3		6.0		10			
					Bottom	11.4	0.3	177	26.5	26.5	8.0	8.0	32.1	32.1	94.0	94.0	6.3	6.3	7.8		9			
						11.4	0.4	190	26.5		8.0		32.1		94.0		6.3		7.8		10			
C3	Cloudy	Moderate	12:41	12.1	Surface	1.0	0.4	53	27.0	27.0	8.1	8.1	32.2	32.2	91.7	91.7	6.1	6.0	6.9	7.7	7	7	822113	817802
						1.0	0.5	53	27.0		8.1		32.2		91.7		6.1		6.9		8			
					Middle	6.1	0.3	65	27.0	27.0	8.1	8.1	32.5	32.5	89.1	89.1	5.9		8.3		7			
						6.1	0.3	69	27.0		8.1		32.5		89.1		5.9		8.2		8			
					Bottom	11.1	0.3	84	27.1	27.1	8.1	8.1	32.6	32.7	87.9	87.9	5.8	5.8	7.8		6			
						11.1	0.3	92	27.1		8.1		32.7		87.9		5.8		7.9		6			
IM1	Sunny	Moderate	11:12	5.4	Surface	1.0	0.2	47	26.5	26.5	8.2	8.2	33.7	33.7	94.0	94.0	6.3	6.3	8.6	11.0	7	7	817933	807113
						1.0	0.2	50	26.5		8.2		33.7		93.9		6.3		9.1		7			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	4.4	0.2	50	26.3	26.3	8.2	8.2	33.8	33.8	95.6	95.8	6.4	6.4	13.2		6			
						4.4	0.2	50	26.2		8.2		33.8		95.9		6.4		13.2		7			
IM2	Sunny	Moderate	11:06	7.4	Surface	1.0	0.2	82	26.6	26.6	8.2	8.2	33.7	33.7	93.6	93.6	6.2	6.2	6.0	10.5	7	7	818163	806183
						1.0	0.2	87	26.6		8.2		33.7		93.5		6.2		6.2		6			
					Middle	3.7	0.3	81	26.5	26.5	8.2	8.2	33.9	33.9	92.7	92.7	6.2		10.6		6			
						3.7	0.3	81	26.5		8.2		34.0		92.7		6.2		11.1		7			
					Bottom	6.4	0.3	82	26.4	26.4	8.2	8.2	34.0	34.0	93.3	93.4	6.2	6.2	14.5		7			
						6.4	0.3	84	26.4		8.2		34.1		93.5		6.2		14.7		8			
IM3	Sunny	Moderate	11:00	7.4	Surface	1.0	0.2	357	26.6	26.6	8.2	8.2	33.5	33.5	95.5	95.5	6.4	6.3	4.2	7.4	7	7	818762	805607
						1.0	0.2	328	26.6		8.2		33.5		95.5		6.3		4.2		8			
					Middle	3.7	0.2	354	26.6	26.6	8.2	8.2	33.9	33.9	93.0	92.9	6.2		7.4		6			
						3.7	0.2	326	26.6		8.2		33.9		92.8		6.2		7.6		7			
					Bottom	6.4	0.2	3	26.5	26.5	8.2	8.2	34.0	34.0	92.2	92.2	6.1	6.1	10.6		6			
						6.4	0.3	3	26.5		8.2		34.0		92.2		6.1		10.6		7			
IM4	Sunny	Moderate	10:52	7.8	Surface	1.0	0.3	252	26.6	26.6	8.2	8.2	33.5	33.6	92.6	92.6	6.2	6.2	7.5	12.2	8	7	819739	804605
						1.0	0.3	253	26.6		8.2		33.6		92.5		6.2		8.1		7			
					Middle	3.9	0.3	258	26.5	26.5	8.2	8.2	33.9	33.9	92.3	92.3	6.1		12.3		8			
						3.9	0.3	275	26.5		8.2		33.9		92.3		6.1		12.6		7			
					Bottom	6.8	0.2	263	26.5	26.5	8.2	8.2	34.0	34.0	92.9	93.0	6.2	6.2	16.6		7			
						6.8	0.2	272	26.5		8.2		34.0		93.1		6.2		16.2		6			
IM5	Sunny	Moderate	10:45	8.2	Surface	1.0	0.3	144	26.4	26.4	8.2	8.2	33.5	33.5	92.0	92.0	6.1	6.1	9.5	13.0	6	6	820714	804853
						1.0	0.3	144	26.4		8.2		33.6		92.0		6.1		10.1		7			
					Middle	4.1	0.3	145	26.4	26.4	8.2	8.2	33.8	33.8	91.9	92.0	6.1		13.7		6			
						4.1	0.3	149	26.4		8.2		33.8		92.0		6.1		13.6		6			
					Bottom	7.2	0.3	144	26.4	26.4	8.2	8.2	33.9	33.9	93.0	93.1	6.2	6.2	15.1		5			
						7.2	0.3	154	26.4		8.2		33.9		93.2		6.2		15.7		6			
IM6	Sunny	Moderate	10:38	7.6	Surface	1.0	0.2	135	26.4	26.4	8.2	8.2	33.2	33.2	91.1	91.1	6.1	6.1	5.8	7.9	6	7	821064	805836
						1.0	0.3	146	26.4		8.2		33.2		91.0		6.1		6.0		7			
					Middle	3.8	0.3	134	26.3	26.3	8.2	8.2	33.3	33.3	91.4	91.5	6.1		8.1		6			
						3.8	0.3	146	26.3		8.2		33.4		91.5		6.1		8.3		7			
					Bottom	6.6	0.2	134	26.3	26.3	8.2	8.2	33.6	33.6	93.7	93.8	6.3	6.3	9.5		6			
						6.6	0.2	134	26.3		8.2		33.6		93.8		6.3		9.5		7			
IM7	Sunny	Moderate	10:30	8.2	Surface	1.0	0.3	278	26.5	26.5	8.2	8.2	33.4	33.4	91.1	91.1	6.1	6.1	7.8	10.3	8	8	821361	806811
						1.0	0.3	298	26.4		8.2		33.4		91.1		6.1		8.0		9			
					Middle	4.1	0.2	279	26.4	26.4	8.2	8.2	33.5	33.5	90.8	90.8	6.1		11.2		8			
						4.1	0.3	296	26.4		8.2		33.6		90.8		6.1		11.4		7			
					Bottom	7.2	0.3	277	26.4	26.4	8.3	8.3	33.6	33.6	91.3	91.4	6.1	6.1	11.9		7			
						7.2	0.3	301	26.4		8.3		33.6		91.4		6.1		11.8		8			
IM8	Fine	Moderate	11:05	8.0	Surface	1.0	0.2	122	26.7	26.7	8.1	8.1	32.0	32.0	95.9	95.9	6.4	6.4	5.5	9.0	8	7	821846	808127
						1.0	0.3	130	26.7		8.1		32.0		95.9		6.4		5.6		7			
					Middle	4.0	0.3	110	26.5	26.5	8.1	8.1	32.3	32.3	95.1	95.1	6.4		7.8		7			
						4.0	0.3	119	26.5		8.1		32.3		95.1		6.4		7.8		6			
					Bottom	7.0	0.3	105	26.6	26.6	8.1	8.1	32.8	32.8	96.1	96.1	6.4	6.4	13.7		6			
						7.0	0.3	111	26.6		8.1		32.8		96.1		6.4		13.7		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 19 October 21 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	Moderate	11:11	7.8	Surface	1.0	0.4	117	26.9	26.9	8.1	8.1	32.0	32.0	96.4	96.4	6.4	6.4	5.0	8.1	8	7	822098	808789
						1.0	0.4	127	26.8		8.1		32.0		96.4		6.4		5.1		7			
					Middle	3.9	0.4	108	26.6	26.6	8.1	8.1	32.2	32.2	94.9	94.9	6.4		6.4		6			
						3.9	0.4	116	26.6		8.1		32.2		94.9		6.4		6.5		7			
					Bottom	6.8	0.3	81	26.5	26.5	8.1	8.1	32.3	32.3	94.9	95.0	6.4	6.4	12.4		6			
						6.8	0.4	81	26.5		8.1		32.3		95.0		6.4		12.9		7			
IM10	Fine	Moderate	11:18	7.7	Surface	1.0	0.6	119	26.6	26.6	8.1	8.1	32.0	32.0	93.1	93.2	6.2	6.3	9.2	12.6	14	15	822388	809770
						1.0	0.6	123	26.6		8.1		32.0		93.2		6.3		9.2		14			
					Middle	3.9	0.6	109	26.5	26.5	8.1	8.1	32.2	32.2	93.3	93.3	6.3		12.7		14			
						3.9	0.7	113	26.5		8.1		32.2		93.3		6.3		12.6		15			
					Bottom	6.7	0.5	108	26.5	26.5	8.1	8.1	32.2	32.2	93.4	93.4	6.3	6.3	15.8		16			
						6.7	0.5	114	26.5		8.1		32.2		93.4		6.3		15.9		15			
IM11	Fine	Moderate	11:27	8.8	Surface	1.0	0.6	114	26.7	26.7	8.1	8.1	32.2	32.2	95.5	95.5	6.4	6.4	8.5	11.6	13	12	822054	811440
						1.0	0.7	116	26.7		8.1		32.2		95.5		6.4		8.5		13			
					Middle	4.4	0.6	116	26.6	26.6	8.1	8.1	32.3	32.3	94.9	94.9	6.4		11.4		13			
						4.4	0.6	125	26.6		8.1		32.3		94.9		6.4		11.2		12			
					Bottom	7.8	0.5	107	26.6	26.6	8.1	8.1	32.4	32.4	94.9	94.9	6.4	6.4	15.0		11			
						7.8	0.5	116	26.6		8.1		32.4		94.9		6.4		15.2		11			
IM12	Fine	Moderate	11:33	9.9	Surface	1.0	0.5	102	26.7	26.7	8.1	8.1	32.4	32.4	95.8	95.8	6.4	6.4	14.4	16.5	15	18	821450	812057
						1.0	0.6	104	26.7		8.1		32.4		95.7		6.4		14.2		16			
					Middle	5.0	0.5	104	26.6	26.6	8.1	8.1	32.4	32.4	95.3	95.3	6.4		16.4		20			
						5.0	0.5	106	26.6		8.1		32.4		95.3		6.4		16.7		19			
					Bottom	8.9	0.5	97	26.6	26.6	8.1	8.1	32.3	32.3	95.4	95.4	6.4	6.4	18.6		20			
						8.9	0.5	101	26.6		8.1		32.3		95.4		6.4		18.9		19			
SR1A	Cloudy	Calm	12:07	5.0	Surface	1.0	-	-	26.9	26.9	8.1	8.1	31.4	31.4	96.2	96.2	6.4	6.4	4.5	7.4	6	6	819973	812664
						1.0	-	-	26.9		8.1		31.4		96.2		6.4		4.3		5			
					Middle	2.5	-	-	-	-	-	-	-	-	-	-	-		-		-			
						2.5	-	-	-		-		-		-		-		-		-			
					Bottom	4.0	-	-	26.8	26.8	8.0	8.0	31.8	31.8	93.8	93.9	6.3	6.3	10.4		6			
						4.0	-	-	26.8		8.0		31.8		93.9		6.3		10.4		6			
SR2	Cloudy	Rough	12:21	4.5	Surface	1.0	0.5	72	26.8	26.8	8.1	8.1	32.1	32.1	93.1	93.1	6.2	6.2	8.8	9.4	7	7	821485	814148
						1.0	0.5	78	26.8		8.1		32.1		93.1		6.2		9.0		7			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.5	0.3	75	26.8	26.8	8.1	8.1	32.1	32.1	93.3	93.4	6.2	6.3	9.9		8			
						3.5	0.4	80	26.8		8.1		32.1		93.4		6.3		9.8		7			
SR3	Fine	Moderate	10:58	9.2	Surface	1.0	0.1	196	26.7	26.7	8.1	8.1	31.9	31.9	95.7	95.7	6.4	6.4	5.1	9.4	6	6	822170	807559
						1.0	0.1	201	26.7		8.1		31.9		95.7		6.4		5.1		6			
					Middle	4.6	0.1	151	26.5	26.5	8.1	8.1	32.4	32.4	94.4	94.4	6.3		9.6		5			
						4.6	0.1	159	26.5		8.1		32.4		94.4		6.3		9.6		6			
					Bottom	8.2	0.2	81	26.7	26.7	8.1	8.1	32.9	32.9	96.6	96.6	6.4	6.4	13.6		5			
						8.2	0.2	85	26.7		8.1		32.9		96.6		6.4		13.7		6			
SR4A	Sunny	Moderate	11:50	8.8	Surface	1.0	0.3	12	26.5	26.5	8.2	8.2	33.8	33.8	93.3	93.3	6.2	6.2	6.9	8.7	11	11	817167	807825
						1.0	0.3	12	26.5		8.2		33.8		93.3		6.2		7.0		10			
					Middle	4.4	0.3	10	26.4	26.4	8.2	8.2	33.9	33.9	92.7	92.8	6.2		9.4		11			
						4.4	0.3	10	26.4		8.2		33.9		92.8		6.2		9.5		11			
					Bottom	7.8	0.3	5	26.4	26.5	8.2	8.2	33.9	33.9	93.3	93.4	6.2	6.2	9.8		11			
						7.8	0.3	5	26.5		8.2		33.9		93.5		6.2		9.9		11			
SR5A	Sunny	Moderate	12:06	3.9	Surface	1.0	0.1	107	26.5	26.5	8.2	8.2	33.2	33.3	91.8	91.8	6.1	6.1	8.9	10.0	11	10	816581	810699
						1.0	0.1	109	26.5		8.2		33.3		91.7		6.1		9.1		11			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	2.9	0.1	34	26.4	26.4	8.2	8.2	33.5	33.5	91.3	91.4	6.1	6.1	11.1		8			
						2.9	0.1	34	26.4		8.2		33.5		91.4		6.1		11.1		9			
SR6A	Sunny	Moderate	12:37	4.9	Surface	1.0	0.0	287	26.8	26.8	8.2	8.2	32.2	32.2	92.9	92.9	6.2	6.2	4.9	5.4	8	9	817964	814722
						1.0	0.0	290	26.8		8.2		32.2		92.8		6.2		4.9		9			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.9	0.0	333	26.6	26.6	8.2	8.2	32.7	32.7	87.7	87.8	5.9	5.9	5.9		9			
						3.9	0.0	306	26.6		8.2		32.7		87.8		5.9		5.8		10			
SR7	Cloudy	Moderate	13:08	15.9	Surface	1.0	0.4	66	27.3	27.3	8.1	8.1	32.6	32.6	91.2	91.2	6.0	6.0	5.9	9.1	12	10	823655	823764
						1.0	0.5	71	27.3		8.1		32.6		91.2		6.0		5.9		13			
					Middle	8.0	0.3	63	27.2	27.2	8.1	8.1	32.7	32.7	89.5	89.5	5.9		8.9		6			
						8.0	0.3	65	27.2		8.1		32.7		89.5		5.9		8.8		7			
					Bottom	14.9	0.1	41	27.2	27.2	8.1	8.1	32.8	32.8	88.9	88.9	5.9	5.9	12.6		11			
						14.9	0.1	43	27.2		8.1		32.8		88.9		5.9		12.5		12			
SR8	Cloudy	Moderate	11:42	4.7	Surface	1.0	-	-	27.5	27.5	8.1	8.1	31.7	31.7	96.0	96.0	6.4	6.4	7.3	8.4	9	9	820398	811615
						1.0	-	-	27.5		8.1		31.8		96.0		6.4		7.3		8			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.7	-	-	26.7	26.7	8.1	8.1	32.0	32.0	92.2	92.3	6.2	6.2	9.5		9			
						3.7	-	-	26.7		8.1		32.0		92.3		6.2		9.4		9			

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

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 19 October 21 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	05:50	8.2	Surface	1.0	0.2	353	26.7	26.7	8.2	8.2	34.0	34.0	91.2	91.2	6.0	6.1	13.6	15.1	65	68	815641	804246
						1.0	0.3	353	26.7		8.2		34.0		91.2		6.0		13.2		62			
					Middle	4.1	0.3	352	26.6	26.6	8.2	8.2	34.0	34.0	91.4	91.5	6.1		15.2		68			
						4.1	0.3	18	26.6		8.2		34.0		91.5		6.1		15.1		71			
					Bottom	7.2	0.2	356	26.6	26.6	8.2	8.2	34.0	34.0	92.2	92.4	6.1	6.1	17.4		69			
						7.2	0.3	11	26.6		8.2		34.0		92.6		6.1		16.3		70			
C2	Fine	Moderate	07:08	12.2	Surface	1.0	0.2	8	26.6	26.6	8.1	8.1	31.9	31.9	94.3	94.3	6.3	6.4	7.1	9.5	10	11	825662	806961
						1.0	0.3	8	26.6		8.1		31.9		94.3		6.3		7.1		11			
					Middle	6.1	0.3	26	26.6	26.6	8.1	8.1	32.2	32.2	94.8	94.8	6.4		8.2		10			
						6.1	0.3	27	26.6		8.1		32.2		94.8		6.4		8.2		11			
					Bottom	11.2	0.5	47	26.5	26.5	8.1	8.1	32.7	32.7	94.7	94.8	6.3	6.3	13.3		12			
						11.2	0.5	50	26.5		8.1		32.7		94.8		6.3		13.2		12			
C3	Cloudy	Moderate	05:02	12.1	Surface	1.0	0.5	254	26.9	26.9	8.0	8.0	32.5	32.5	89.2	89.2	5.9	5.9	4.7	9.0	6	5	822100	817803
						1.0	0.5	267	26.9		8.0		32.5		89.1		5.9		4.7		5			
					Middle	6.1	0.5	256	27.0	27.0	8.0	8.0	32.7	32.7	87.9	87.9	5.8		8.5		4			
						6.1	0.5	271	27.0		8.0		32.7		87.9		5.8		8.3		5			
					Bottom	11.1	0.4	253	27.0	27.0	8.0	8.0	32.7	32.7	87.9	88.0	5.8	5.8	14.1		4			
						11.1	0.4	261	27.0		8.0		32.7		88.0		5.8		13.8		5			
IM1	Cloudy	Moderate	06:08	5.8	Surface	1.0	0.3	150	26.4	26.4	8.2	8.2	33.7	33.7	92.3	92.3	6.2	6.2	9.0	11.7	28	23	817969	807122
						1.0	0.3	157	26.4		8.2		33.7		92.2		6.2		9.4		28			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	4.8	0.3	151	26.4	26.4	8.2	8.2	33.7	33.7	93.6	93.8	6.2	6.3	14.2		25			
						4.8	0.3	161	26.4		8.2		33.7		94.0		6.3		14.3		12			
IM2	Cloudy	Moderate	06:16	7.6	Surface	1.0	0.2	196	26.4	26.4	8.2	8.2	33.8	33.8	91.9	91.9	6.1	6.1	11.4	14.2	10	14	818164	806177
						1.0	0.3	198	26.4		8.2		33.8		91.9		6.1		11.9		11			
					Middle	3.8	0.3	194	26.4	26.4	8.2	8.2	33.9	33.9	91.7	91.7	6.1		14.0		14			
						3.8	0.3	206	26.4		8.2		33.9		91.7		6.1		13.7		15			
					Bottom	6.6	0.2	195	26.4	26.4	8.2	8.2	33.9	33.9	93.3	93.4	6.2	6.2	17.6		16			
						6.6	0.3	200	26.4		8.2		33.9		93.5		6.2		16.7		15			
IM3	Cloudy	Moderate	06:22	7.4	Surface	1.0	0.2	121	26.5	26.5	8.2	8.2	34.0	34.0	92.2	92.2	6.1	6.1	12.7	15.3	17	18	818795	805606
						1.0	0.2	130	26.5		8.2		34.0		92.2		6.1		12.8		17			
					Middle	3.7	0.2	123	26.5	26.5	8.2	8.2	34.0	34.0	92.0	92.0	6.1		16.3		17			
						3.7	0.2	131	26.5		8.2		34.0		92.0		6.1		16.2		18			
					Bottom	6.4	0.2	124	26.4	26.4	8.2	8.2	34.0	34.0	93.1	93.2	6.2	6.2	17.6		19			
						6.4	0.2	136	26.4		8.2		34.0		93.3		6.2		16.2		18			
IM4	Cloudy	Moderate	06:29	8.5	Surface	1.0	0.2	21	26.5	26.5	8.2	8.2	33.9	33.9	91.7	91.7	6.1	6.1	14.1	15.0	33	30	819736	804614
						1.0	0.2	22	26.5		8.2		33.9		91.7		6.1		14.7		32			
					Middle	4.3	0.3	24	26.4	26.4	8.2	8.2	33.9	33.9	91.3	91.3	6.1		15.4		27			
						4.3	0.3	24	26.4		8.2		33.9		91.3		6.1		15.5		28			
					Bottom	7.5	0.3	27	26.4	26.4	8.2	8.2	33.9	33.9	91.7	91.8	6.1	6.1	15.2		22			
						7.5	0.3	27	26.4		8.2		33.9		91.8		6.1		15.3		37			
IM5	Cloudy	Moderate	06:37	8.0	Surface	1.0	0.2	136	26.4	26.4	8.2	8.2	33.8	33.8	92.0	92.0	6.1	6.1	12.8	13.5	27	27	820729	804861
						1.0	0.2	141	26.4		8.2		33.8		91.9		6.1		12.5		29			
					Middle	4.0	0.2	135	26.4	26.4	8.2	8.2	33.8	33.8	91.8	91.8	6.1		13.5		29			
						4.0	0.3	143	26.4		8.2		33.9		91.8		6.1		13.6		27			
					Bottom	7.0	0.2	141	26.4	26.4	8.2	8.2	33.9	33.9	92.3	92.4	6.1	6.2	14.6		26			
						7.0	0.3	145	26.4		8.2		33.9		92.5		6.2		14.2		26			
IM6	Cloudy	Moderate	06:44	8.3	Surface	1.0	0.3	308	26.3	26.3	8.2	8.2	33.1	33.1	90.2	90.3	6.0	6.1	5.6	8.1	6	7	821067	805810
						1.0	0.3	317	26.3		8.2		33.2		90.3		6.0		5.8		5			
					Middle	4.2	0.3	309	26.3	26.3	8.2	8.2	33.2	33.2	90.5	90.5	6.1		7.3		6			
						4.2	0.3	310	26.3		8.2		33.3		90.5		6.1		7.6		5			
					Bottom	7.3	0.3	311	26.3	26.3	8.2	8.2	33.3	33.3	92.5	92.6	6.2	6.2	11.2		16			
						7.3	0.3	327	26.3		8.2		33.3		92.7		6.2		11.3		4			
IM7	Cloudy	Moderate	06:51	8.5	Surface	1.0	0.2	148	26.4	26.4	8.2	8.2	32.9	32.9	90.8	90.8	6.1	6.1	5.0	8.1	8	8	821339	806854
						1.0	0.2	155	26.4		8.2		32.9		90.8		6.1		5.0		9			
					Middle	4.3	0.2	150	26.3	26.3	8.2	8.2	33.3	33.3	91.1	91.2	6.1		9.6		7			
						4.3	0.3	151	26.3		8.2		33.3		91.2		6.1		9.6		7			
					Bottom	7.5	0.3	144	26.3	26.3	8.2	8.2	33.4	33.3	93.1	93.3	6.2	6.3	9.7		8			
						7.5	0.3	151	26.3		8.2		33.3		93.5		6.3		9.7		7			
IM8	Fine	Moderate	06:42	8.5	Surface	1.0	0.1	54	26.5	26.5	8.1	8.1	31.9	31.9	94.5	94.5	6.3	6.3	6.0	10.4	7	7	821835	808163
						1.0	0.1	59	26.5		8.1		31.9		94.5		6.4		6.0		6			
					Middle	4.3	0.1	64	26.5	26.5	8.1	8.1	32.3	32.3	94.6	94.6	6.3		10.8		7			
						4.3	0.1	66	26.5		8.1		32.3		94.6		6.3		10.9		6			
					Bottom	7.5	0.2	84	26.5	26.5	8.1	8.1	32.7	32.7	95.0	95.0	6.4	6.4	14.1		7			
						7.5	0.3	89	26.5		8.1		32.7		95.0		6.4		14.5		8			

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

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 19 October 21 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	06:36	8.1	Surface	1.0	0.3	60	26.5	26.5	8.1	8.1	31.9	31.9	94.7	94.7	6.4	6.4	6.1	8.2	7	8	822080	808818
						1.0	0.3	60	26.5		8.1		31.9		94.7		6.4		6.2		8			
					Middle	4.1	0.3	61	26.5	26.5	8.1	8.1	31.9	31.9	94.2	94.2	6.3		7.5		9			
						4.1	0.3	65	26.5		8.1		31.9		94.2		6.3		7.5		8			
					Bottom	7.1	0.3	58	26.4	26.4	8.1	8.1	31.9	31.9	93.7	93.7	6.3	6.3	11.0		8			
						7.1	0.3	61	26.4		8.1		31.9		93.7		6.3		10.9		9			
IM10	Fine	Moderate	06:29	8.8	Surface	1.0	0.2	357	26.6	26.6	8.1	8.1	31.9	31.9	92.5	92.6	6.2	6.2	7.6	7.7	11	10	822402	809798
						1.0	0.2	328	26.6		8.1		31.9		92.6		6.2		7.6		10			
					Middle	4.4	0.3	352	26.5	26.5	8.1	8.1	31.9	31.9	92.5	92.5	6.2		7.6		9			
						4.4	0.3	356	26.5		8.1		31.9		92.5		6.2		7.8		10			
					Bottom	7.8	0.3	10	26.4	26.4	8.1	8.1	32.0	32.0	92.5	92.5	6.2	6.2	7.8		9			
						7.8	0.3	10	26.4		8.1		32.0		92.5		6.2		7.7		10			
IM11	Cloudy	Moderate	06:18	9.0	Surface	1.0	0.3	307	26.7	26.7	8.1	8.1	32.1	32.1	91.9	91.9	6.2	6.2	8.4	10.4	10	10	822052	811448
						1.0	0.3	335	26.7		8.1		32.1		91.9		6.2		8.3		11			
					Middle	4.5	0.3	311	26.7	26.7	8.1	8.1	32.1	32.1	91.0	91.0	6.1		10.3		9			
						4.5	0.3	313	26.7		8.1		32.1		91.0		6.1		10.3		10			
					Bottom	8.0	0.2	316	26.7	26.7	8.1	8.1	32.1	32.1	90.5	90.6	6.1	6.1	11.9		9			
						8.0	0.2	342	26.7		8.1		32.1		90.6		6.1		13.2		10			
IM12	Cloudy	Moderate	06:12	9.4	Surface	1.0	0.4	263	26.7	26.7	8.1	8.1	32.1	32.1	91.1	91.1	6.1	6.1	8.2	12.3	9	10	821438	812038
						1.0	0.4	265	26.7		8.1		32.1		91.1		6.1		8.1		10			
					Middle	4.7	0.4	255	26.7	26.7	8.1	8.1	32.1	32.1	90.6	90.6	6.1		12.1		9			
						4.7	0.4	262	26.7		8.1		32.1		90.6		6.1		11.8		10			
					Bottom	8.4	0.3	272	26.7	26.7	8.1	8.1	32.1	32.1	90.5	90.6	6.1	6.1	16.6		11			
						8.4	0.3	293	26.7		8.1		32.2		90.6		6.1		17.2		12			
SR1A	Cloudy	Calm	05:38	5.3	Surface	1.0	-	-	26.5	26.5	8.0	8.0	31.3	31.3	90.1	90.1	6.1	6.1	5.3	5.3	5	6	819981	812665
						1.0	-	-	26.5		8.0		31.3		90.1		6.1		5.3		6			
					Middle	2.7	-	-	-	-	-	-	-	-	-	-	-		-		-			
						2.7	-	-	-		-		-		-		-		-		-			
					Bottom	4.3	-	-	26.5	26.5	8.0	8.0	31.4	31.4	89.5	89.6	6.0	6.0	5.3		6			
						4.3	-	-	26.5		8.0		31.4		89.6		6.0		5.3		5			
SR2	Cloudy	Rough	05:22	5.2	Surface	1.0	0.3	37	26.7	26.7	8.0	8.0	32.2	32.1	90.6	90.6	6.1	6.1	10.6	11.2	18	16	821457	814177
						1.0	0.3	40	26.7		8.0		32.1		90.6		6.1		10.6		17			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	4.2	0.2	46	26.6	26.6	8.0	8.0	32.1	32.1	90.8	90.8	6.1	6.1	11.7		14			
						4.2	0.3	46	26.6		8.0		32.1		90.8		6.1		11.8		13			
SR3	Fine	Moderate	06:48	9.6	Surface	1.0	0.4	92	26.6	26.6	8.1	8.1	31.9	31.9	94.3	94.3	6.3	6.3	6.6	11.1	8	7	822166	807572
						1.0	0.4	93	26.6		8.1		31.9		94.3		6.3		6.6		9			
					Middle	4.8	0.4	86	26.5	26.5	8.1	8.1	32.3	32.3	94.2	94.2	6.3		11.7		8			
						4.8	0.4	89	26.5		8.1		32.3		94.2		6.3		12.1		7			
					Bottom	8.6	0.6	73	26.4	26.4	8.1	8.1	32.9	32.9	95.6	95.6	6.4	6.4	14.8		6			
						8.6	0.6	80	26.4		8.1		32.9		95.6		6.4		14.7		5			
SR4A	Cloudy	Moderate	05:29	8.4	Surface	1.0	0.2	119	26.3	26.3	8.2	8.2	33.7	33.7	92.8	92.8	6.2	6.2	14.0	14.2	20	19	817211	807803
						1.0	0.2	129	26.3		8.2		33.7		92.8		6.2		13.8		21			
					Middle	4.2	0.2	122	26.3	26.3	8.2	8.2	33.7	33.7	93.3	93.4	6.2		14.2		18			
						4.2	0.2	132	26.3		8.2		33.7		93.4		6.2		14.0		19			
					Bottom	7.4	0.2	122	26.2	26.2	8.2	8.2	33.7	33.7	95.2	95.4	6.4	6.4	14.5		17			
						7.4	0.2	125	26.2		8.2		33.7		95.5		6.4		14.5		17			
SR5A	Cloudy	Moderate	05:11	4.1	Surface	1.0	0.3	271	26.3	26.3	8.2	8.2	32.4	32.4	90.3	90.3	6.1	6.1	5.3	5.1	6	7	816580	810680
						1.0	0.3	293	26.3		8.2		32.4		90.3		6.1		5.3		7			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.1	0.3	271	26.3	26.3	8.2	8.2	32.4	32.4	91.0	91.0	6.1	6.1	5.0		7			
						3.1	0.3	277	26.3		8.2		32.4		91.0		6.1		5.0		7			
SR6A	Cloudy	Moderate	04:44	4.5	Surface	1.0	0.2	214	26.5	26.6	8.1	8.1	32.5	32.5	85.1	85.2	5.7	5.7	6.0	6.9	7	7	817950	814750
						1.0	0.2	219	26.6		8.1		32.5		85.2		5.7		6.2		8			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.5	0.2	213	26.5	26.5	8.1	8.1	32.5	32.5	87.0	87.3	5.8	5.9	7.8		7			
						3.5	0.2	231	26.5		8.1		32.5		87.6		5.9		7.8		6			
SR7	Cloudy	Moderate	04:35	15.8	Surface	1.0	0.2	56	27.0	27.0	8.0	8.0	32.7	32.7	88.5	88.5	5.9	5.9	5.9	7.7	6	6	823626	823727
						1.0	0.2	60	27.0		8.0		32.7		88.5		5.9		6.0		7			
					Middle	7.9	0.3	54	27.1	27.1	8.0	8.0	32.7	32.7	88.2	88.2	5.8		7.8		7			
						7.9	0.3	57	27.1		8.0		32.7		88.2		5.8		8.1		6			
					Bottom	14.8	0.3	36	27.1	27.1	8.0	8.0	32.8	32.8	88.7	88.8	5.9	5.9	9.4		6			
						14.8	0.3	36	27.1		8.0		32.8		88.9		5.9		8.9		6			
SR8	Cloudy	Moderate	06:04	5.0	Surface	1.0	-	-	26.7	26.7	8.0	8.0	31.8	31.8	93.1	93.1	6.2	6.2	7.3	8.3	9	8	820410	811621
						1.0	-	-	26.7		8.0		31.8		93.1		6.2		7.4		9			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	4.0	-	-	26.5	26.5	8.0	8.0	31.9	31.9	92.6	92.7	6.2	6.2	9.4		7			
						4.0	-	-	26.5		8.0		31.9		92.7		6.2		9.3		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 21 October 21 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	12:29	9.2	Surface	1.0	0.2	86	27.2	27.2	8.1	8.1	32.8	32.8	98.6	98.6	6.5	6.5	8.7	9.3	10	10	815632	804253
						1.0	0.3	89	27.2		8.1		32.8		98.5		6.5		8.7		9			
					Middle	4.6	0.2	95	27.1	27.1	8.1	8.1	32.8	32.8	97.9	97.9	6.5		8.6		11			
						4.6	0.2	96	27.1		8.1		32.8		97.9		6.5		8.6		10			
					Bottom	8.2	0.2	103	27.0	27.0	8.1	8.1	32.9	32.9	96.7	96.8	6.4	6.4	10.6		10			
						8.2	0.2	103	27.0		8.1		32.9		96.9		6.4		10.5		11			
C2	Misty	Rough	11:35	12.4	Surface	1.0	0.2	48	26.9	26.9	8.2	8.2	32.1	32.2	92.9	93.0	6.2	6.3	7.8	8.5	3	3	825681	806963
						1.0	0.2	48	26.9		8.2		32.2		93.0		6.2		7.8		3			
					Middle	6.2	0.2	45	26.9	26.9	8.3	8.3	32.3	32.3	94.0	94.3	6.3		8.0		3			
						6.2	0.2	47	26.9		8.3		32.3		94.5		6.3		8.1		3			
					Bottom	11.4	0.2	45	26.9	26.9	8.3	8.3	32.3	32.3	95.3	95.5	6.4	6.4	9.7		4			
						11.4	0.2	47	26.9		8.3		32.3		95.6		6.4		9.6		3			
C3	Misty	Rough	13:36	12.0	Surface	1.0	0.1	287	26.8	26.8	8.2	8.2	33.1	33.1	92.9	93.1	6.2	6.3	7.7	8.4	7	6	822120	817797
						1.0	0.1	289	26.8		8.2		33.1		93.2		6.2		7.6		6			
					Middle	6.0	0.1	284	26.8	26.8	8.2	8.2	33.1	33.1	94.4	94.7	6.3		8.3		6			
						6.0	0.1	310	26.8		8.2		33.1		94.9		6.3		8.2		7			
					Bottom	11.0	0.1	287	26.8	26.8	8.2	8.2	33.0	33.0	96.3	96.7	6.4	6.5	9.4		6			
						11.0	0.1	306	26.8		8.2		33.0		97.1		6.5		9.5		6			
IM1	Cloudy	Rough	12:19	4.9	Surface	1.0	0.1	126	27.1	27.1	8.1	8.1	32.9	32.9	100.1	100.1	6.6	6.6	11.5	10.0	15	16	817959	807144
						1.0	0.1	136	27.1		8.1		32.9		100.1		6.6		11.5		14			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.9	0.1	156	27.1	27.1	8.1	8.1	32.9	32.8	100.0	100.1	6.6	6.6	8.5		16			
						3.9	0.1	166	27.1		8.1		32.8		100.1		6.6		8.4		17			
IM2	Cloudy	Rough	12:12	6.8	Surface	1.0	0.2	124	27.1	27.1	8.1	8.1	32.7	32.7	98.8	98.8	6.6	6.5	8.0	8.3	11	10	818168	806175
						1.0	0.2	128	27.1		8.1		32.7		98.8		6.5		8.0		12			
					Middle	3.4	0.3	115	27.1	27.1	8.1	8.1	32.7	32.7	98.3	98.3	6.5		8.2		10			
						3.4	0.3	125	27.1		8.1		32.7		98.2		6.5		8.3		9			
					Bottom	5.8	0.3	128	27.0	27.0	8.1	8.1	32.7	32.7	98.0	98.1	6.5	6.5	8.6		9			
						5.8	0.3	132	27.0		8.1		32.7		98.2		6.5		8.6		10			
IM3	Cloudy	Rough	12:07	7.0	Surface	1.0	0.2	130	27.0	27.0	8.1	8.1	32.7	32.7	98.6	98.6	6.5	6.5	8.4	8.9	9	9	818780	805616
						1.0	0.2	134	27.0		8.1		32.7		98.6		6.5		8.4		10			
					Middle	3.5	0.2	147	27.0	27.1	8.1	8.1	32.7	32.7	98.1	98.1	6.5		8.3		9			
						3.5	0.3	150	27.1		8.1		32.7		98.0		6.5		8.3		10			
					Bottom	6.0	0.2	109	27.1	27.1	8.1	8.1	32.7	32.7	97.9	98.0	6.5	6.5	10.2		9			
						6.0	0.3	112	27.1		8.1		32.7		98.1		6.5		9.8		9			
IM4	Cloudy	Rough	12:00	8.6	Surface	1.0	0.2	157	27.0	27.0	8.1	8.1	32.7	32.7	98.5	98.5	6.5	6.5	8.4	8.5	15	13	819736	804594
						1.0	0.2	169	27.0		8.1		32.7		98.5		6.5		8.4		14			
					Middle	4.3	0.2	169	27.0	27.0	8.1	8.1	32.7	32.7	98.6	98.6	6.5		8.3		15			
						4.3	0.2	183	27.0		8.1		32.7		98.6		6.5		8.3		14			
					Bottom	7.6	0.3	164	27.0	27.0	8.1	8.1	32.6	32.6	98.8	98.9	6.6	6.6	8.9		9			
						7.6	0.3	175	27.0		8.1		32.6		98.9		6.6		9.0		10			
IM5	Cloudy	Rough	11:51	8.3	Surface	1.0	0.3	219	27.0	27.0	8.0	8.0	32.0	32.1	97.9	97.9	6.5	6.5	5.8	7.8	7	8	820720	804862
						1.0	0.3	235	27.0		8.0		32.1		97.8		6.5		5.9		8			
					Middle	4.2	0.2	211	27.0	27.0	8.0	8.0	32.2	32.2	97.5	97.6	6.5		6.8		8			
						4.2	0.2	231	27.0		8.1		32.2		97.6		6.5		6.9		7			
					Bottom	7.3	0.1	182	27.1	27.1	8.0	8.0	32.7	32.7	97.7	97.8	6.5	6.5	10.5		7			
						7.3	0.1	194	27.1		8.0		32.7		97.8		6.5		10.6		8			
IM6	Cloudy	Rough	11:43	7.8	Surface	1.0	0.2	192	27.0	27.0	8.0	8.0	31.9	31.9	96.6	96.5	6.4	6.4	6.4	7.2	10	9	821044	805827
						1.0	0.2	207	27.0		8.0		31.9		96.4		6.4		6.4		9			
					Middle	3.9	0.3	182	27.0	27.0	8.0	8.0	32.2	32.1	94.4	94.5	6.3		7.1		9			
						3.9	0.3	187	27.0		8.0		32.1		94.5		6.3		7.2		8			
					Bottom	6.8	0.2	175	27.0	27.0	8.0	8.0	32.5	32.5	93.2	93.3	6.2	6.2	7.9		9			
						6.8	0.2	178	27.0		8.0		32.5		93.3		6.2		7.9		9			
IM7	Cloudy	Rough	11:35	8.8	Surface	1.0	0.3	147	27.1	27.1	8.0	8.0	31.9	31.9	97.7	97.7	6.5	6.4	6.8	8.4	6	6	821367	806838
						1.0	0.3	147	27.1		8.0		31.9		97.7		6.5		6.9		7			
					Middle	4.4	0.2	141	27.0	27.0	8.0	8.0	32.4	32.4	95.2	95.2	6.3		8.3		6			
						4.4	0.2	141	27.0		8.0		32.4		95.2		6.3		8.5		6			
					Bottom	7.8	0.4	184	27.0	27.0	8.0	8.0	32.5	32.5	95.2	95.3	6.3	6.3	9.9		6			
						7.8	0.4	199	27.0		8.0		32.5		95.3		6.3		9.9		6			
IM8	Misty	Rough	11:58	8.0	Surface	1.0	0.2	237	26.9	26.9	8.2	8.2	32.1	32.1	92.1	92.1	6.1	6.1	6.3	7.4	3	3	821818	808117
						1.0	0.3	239	26.9		8.2		32.2		92.1		6.1		6.3		2			
					Middle	4.0	0.2	238	26.9	26.9	8.2	8.2	32.4	32.4	92.2	92.3	6.1		7.7		3			
						4.0	0.3	259	26.9		8.2		32.5		92.3		6.1		7.8		3			
					Bottom	7.0	0.3	235	26.9	26.9	8.2	8.2	32.7	32.7	92.6	92.7	6.2	6.2	8.1		4			
						7.0	0.3	244	26.9		8.2		32.6		92.7		6.2		8.1		4			

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

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 21 October 21 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	Misty	Rough	12:07	7.6	Surface	1.0	0.2	215	26.8	26.8	8.2	8.2	32.5	32.5	92.7	92.8	6.2	6.3	6.1	7.1	3	4	822101	808811
						1.0	0.3	216	26.8		8.2		32.5		92.8		6.2		6.1		3			
					Middle	3.8	0.2	214	26.8	26.8	8.2	8.2	32.6	32.6	94.4	94.5	6.3		7.2		4			
						3.8	0.3	235	26.8		8.2		32.7		94.6		6.3		7.1		4			
					Bottom	6.6	0.2	218	26.8	26.8	8.2	8.2	32.6	32.6	95.5	95.7	6.4	6.4	8.2		6			
						6.6	0.2	237	26.8		8.2		32.6		95.9		6.4		8.2		6			
IM10	Misty	Rough	12:11	8.6	Surface	1.0	0.2	66	26.9	26.9	8.2	8.2	32.4	32.4	92.2	92.2	6.1	6.2	5.1	6.4	6	6	822384	809795
						1.0	0.2	69	26.9		8.2		32.4		92.1		6.1		5.2		5			
					Middle	4.3	0.2	67	26.8	26.8	8.2	8.2	32.7	32.7	92.4	92.5	6.2		6.9		6			
						4.3	0.2	70	26.8		8.2		32.7		92.6		6.2		6.9		6			
					Bottom	7.6	0.2	59	26.8	26.8	8.2	8.2	32.9	32.9	93.1	93.2	6.2	6.2	7.2		7			
						7.6	0.2	63	26.8		8.2		32.9		93.2		6.2		7.2		6			
IM11	Misty	Rough	12:18	8.8	Surface	1.0	0.3	211	26.9	26.9	8.2	8.2	32.3	32.3	92.9	92.9	6.2	6.2	7.1	8.4	5	6	822048	811452
						1.0	0.3	222	26.9		8.2		32.3		92.9		6.2		7.0		6			
					Middle	4.4	0.3	215	26.9	26.9	8.2	8.2	32.4	32.4	93.0	93.0	6.2		8.2		5			
						4.4	0.3	215	26.9		8.2		32.4		93.0		6.2		8.2		6			
					Bottom	7.8	0.2	230	26.8	26.8	8.2	8.2	32.4	32.4	93.0	93.0	6.2	6.2	10.0		5			
						7.8	0.2	241	26.8		8.2		32.4		93.0		6.2		10.0		6			
IM12	Misty	Rough	12:26	9.9	Surface	1.0	0.2	219	26.9	26.9	8.2	8.2	32.4	32.5	91.8	91.8	6.1	6.1	7.6	8.6	7	8	821439	812042
						1.0	0.2	231	26.9		8.2		32.5		91.7		6.1		7.6		8			
					Middle	5.0	0.2	221	26.9	26.9	8.2	8.2	32.8	32.8	92.0	92.1	6.1		8.3		8			
						5.0	0.2	225	26.9		8.2		32.8		92.2		6.1		8.3		7			
					Bottom	8.9	0.2	229	26.9	26.9	8.2	8.2	33.0	33.0	92.9	93.0	6.2	6.2	10.0		8			
						8.9	0.2	238	26.9		8.2		33.0		93.1		6.2		9.9		9			
SR1A	Misty	Rough	12:47	4.8	Surface	1.0	-	-	27.1	27.1	8.2	8.2	32.8	32.8	95.2	95.2	6.3	6.3	8.8	9.2	6	6	819976	812657
						1.0	-	-	27.1		8.2		32.8		95.1		6.3		8.8		6			
					Middle	2.4	-	-	-	-	-	-	-	-	-	-	-		-		-			
						2.4	-	-	-		-		-		-		-		-		-			
					Bottom	3.8	-	-	27.2	27.2	8.2	8.2	32.6	32.5	94.5	94.5	6.3	6.3	9.5		7			
						3.8	-	-	27.2		8.2		32.5		94.4		6.3		9.6		6			
SR2	Misty	Rough	13:04	4.0	Surface	1.0	0.3	85	27.0	27.0	8.2	8.2	32.8	32.8	91.4	91.2	6.1	6.1	5.6	5.8	5	6	821470	814172
						1.0	0.3	89	27.0		8.2		32.8		91.0		6.0		5.7		6			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.0	0.3	76	27.2	27.3	8.2	8.2	32.5	32.5	90.5	92.5	6.0	6.1	6.0		7			
						3.0	0.3	83	27.3		8.2		32.4		94.4		6.2		6.0		7			
SR3	Misty	Rough	11:55	9.4	Surface	1.0	0.2	218	26.9	26.9	8.2	8.2	32.1	32.1	92.2	92.2	6.2	6.2	7.6	8.3	4	3	822142	807586
						1.0	0.2	218	26.9		8.2		32.1		92.2		6.2		7.5		3			
					Middle	4.7	0.2	221	26.9	26.9	8.2	8.2	32.2	32.2	92.7	92.8	6.2		8.5		4			
						4.7	0.2	228	26.9		8.2		32.2		92.8		6.2		8.4		3			
					Bottom	8.4	0.2	218	26.9	26.9	8.2	8.2	32.2	32.2	93.2	93.2	6.2	6.2	9.0		2			
						8.4	0.2	224	26.9		8.2		32.2		93.2		6.2		9.0		3			
SR4A	Rainy	Moderate	12:33	9.7	Surface	1.0	0.2	66	27.1	27.1	8.1	8.1	32.9	32.9	98.7	98.7	6.5	6.5	7.5	8.3	11	10	817207	807801
						1.0	0.2	68	27.1		8.1		32.9		98.6		6.5		7.6		12			
					Middle	4.9	0.2	78	27.1	27.1	8.1	8.1	32.9	32.9	97.4	97.4	6.5		8.2		10			
						4.9	0.2	83	27.1		8.1		32.9		97.3		6.4		8.3		9			
					Bottom	8.7	0.1	84	27.1	27.1	8.1	8.1	32.9	32.9	96.8	96.9	6.4	6.4	9.0		9			
						8.7	0.2	89	27.1		8.1		32.9		96.9		6.4		9.0		10			
SR5A	Rainy	Moderate	12:49	3.5	Surface	1.0	0.2	357	27.0	27.0	8.0	8.0	32.4	32.5	95.8	95.8	6.4	6.4	9.6	10.9	10	11	816606	810674
						1.0	0.2	328	27.0		8.0		32.5		95.8		6.4		10.0		11			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	2.5	0.1	354	27.0	27.0	8.0	8.0	32.6	32.6	96.1	96.2	6.4	6.4	12.0		10			
						2.5	0.1	326	27.0		8.0		32.6		96.2		6.4		12.0		11			
SR6A	Rainy	Moderate	13:18	4.8	Surface	1.0	0.0	291	26.9	26.9	8.0	8.0	31.8	31.8	94.3	94.3	6.3	6.3	7.7	8.0	8	9	817962	814752
						1.0	0.0	291	26.9		8.0		31.9		94.2		6.3		7.8		8			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.8	0.1	267	26.9	26.9	8.0	8.0	32.0	32.0	94.1	94.1	6.3	6.3	8.2		10			
						3.8	0.1	273	26.9		8.0		32.0		94.1		6.3		8.3		9			
SR7	Misty	Rough	13:50	16.0	Surface	1.0	0.2	124	26.9	26.9	8.2	8.2	33.1	33.1	89.0	89.1	5.9	6.0	6.4	7.6	6	6	823658	823754
						1.0	0.2	130	26.8		8.2		33.1		89.2		5.9		6.4		7			
					Middle	8.0	0.2	122	26.8	26.8	8.2	8.2	33.1	33.1	89.7	89.8	6.0		7.2		7			
						8.0	0.2	128	26.8		8.2		33.1		89.9		6.0		7.1		6			
					Bottom	15.0	0.2	125	26.8	26.8	8.2	8.2	33.1	33.1	90.2	90.4	6.0	6.0	9.4		5			
						15.0	0.2	129	26.8		8.2		33.1		90.6		6.0		9.4		5			
SR8	Misty	Rough	12:35	4.6	Surface	1.0	-	-	27.0	27.0	8.2	8.2	32.9	32.9	95.1	95.1	6.3	6.3	6.4	6.8	5	6	820383	811628
						1.0	-	-	27.0		8.2		32.9		95.1		6.3		6.5		6			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.6	-	-	26.8	26.8	8.2	8.2	32.9	32.9	96.4	96.9	6.4	6.5	7.2		6			
						3.6	-	-	26.8		8.2		32.9		97.4		6.5		7.2		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 21 October 21 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	07:56	8.7	Surface	1.0	0.6	30	27.0	27.0	8.1	8.1	32.5	32.5	97.6	97.6	6.5	6.5	14.6	16.7	19	18	815596	804260
						1.0	0.7	31	27.0		8.1		32.5		97.6		6.5		14.5		19			
					Middle	4.4	0.5	36	27.0	27.0	8.0	8.0	32.8	32.8	96.1	96.1	6.4		15.1		18			
						4.4	0.6	37	27.0		8.0		32.8		96.1		6.4		15.5		18			
					Bottom	7.7	0.5	28	27.0	27.0	8.0	8.0	32.9	32.9	95.7	95.7	6.3	6.4	20.1		17			
						7.7	0.5	29	27.0		8.0		32.9		95.7		6.4		20.4		18			
C2	Cloudy	Moderate	08:27	12.2	Surface	1.0	0.3	48	26.7	26.7	8.2	8.2	31.5	31.5	90.4	90.5	6.1	6.1	2.6	3.5	3	4	825692	806966
						1.0	0.3	50	26.7		8.2		31.5		90.5		6.1		2.6		4			
					Middle	6.1	0.3	47	26.7	26.7	8.2	8.2	31.6	31.6	90.9	91.0	6.1		3.2		3			
						6.1	0.3	47	26.7		8.2		31.6		91.0		6.1		3.2		4			
					Bottom	11.2	0.3	48	26.7	26.7	8.2	8.2	31.6	31.6	91.2	91.3	6.1	6.1	4.6		5			
						11.2	0.4	49	26.7		8.2		31.6		91.3		6.1		4.7		4			
C3	Cloudy	Moderate	06:37	11.0	Surface	1.0	0.2	263	26.8	26.8	8.2	8.2	32.9	32.9	88.8	88.9	5.9	6.0	5.8	6.3	7	7	822095	817817
						1.0	0.2	285	26.8		8.2		32.9		88.9		5.9		5.9		7			
					Middle	5.5	0.2	263	26.8	26.8	8.2	8.2	33.0	33.0	91.0	91.1	6.1		6.1		6			
						5.5	0.2	287	26.8		8.2		33.0		91.2		6.1		6.1		6			
					Bottom	10.0	0.2	261	26.8	26.8	8.2	8.2	33.0	33.0	92.9	93.2	6.2	6.2	7.0		6			
						10.0	0.2	263	26.8		8.2		33.0		93.4		6.2		7.0		7			
IM1	Cloudy	Moderate	08:14	5.2	Surface	1.0	0.1	1	27.0	27.0	8.1	8.1	32.9	32.9	96.1	96.1	6.4	6.4	10.5	9.9	9	10	817964	807109
						1.0	0.1	1	27.0		8.1		32.9		96.0		6.4		10.4		10			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	4.2	0.1	322	27.1	27.1	8.0	8.0	32.9	32.9	95.7	95.7	6.3	6.3	9.4		10			
						4.2	0.1	340	27.1		8.0		32.9		95.7		6.3		9.2		11			
IM2	Cloudy	Moderate	08:21	7.0	Surface	1.0	0.3	4	27.0	27.0	8.1	8.1	32.7	32.7	96.4	96.4	6.4	6.4	11.9	15.5	18	17	818146	806160
						1.0	0.3	4	27.0		8.1		32.7		96.3		6.4		11.8		18			
					Middle	3.5	0.3	1	26.9	26.9	8.1	8.1	32.7	32.7	95.1	95.1	6.3		16.3		17			
						3.5	0.3	1	26.9		8.1		32.7		95.1		6.3		16.4		18			
					Bottom	6.0	0.2	342	26.9	26.9	8.0	8.0	32.8	32.8	95.1	95.2	6.3	6.3	18.3		17			
						6.0	0.3	315	26.9		8.0		32.8		95.2		6.3		18.2		16			
IM3	Cloudy	Moderate	08:27	7.3	Surface	1.0	0.4	345	27.0	27.0	8.1	8.1	32.7	32.7	97.0	97.0	6.4	6.4	14.4	17.0	20	19	818776	805588
						1.0	0.4	345	27.0		8.1		32.7		96.9		6.4		14.8		19			
					Middle	3.7	0.4	340	26.9	26.9	8.1	8.1	32.7	32.7	96.3	96.3	6.4		16.7		20			
						3.7	0.4	354	26.9		8.1		32.7		96.3		6.4		16.6		19			
					Bottom	6.3	0.3	336	26.8	26.8	8.0	8.0	32.7	32.8	96.8	96.9	6.4	6.5	19.9		18			
						6.3	0.3	309	26.7		8.0		32.8		96.9		6.5		19.6		17			
IM4	Cloudy	Moderate	08:35	8.8	Surface	1.0	0.6	348	27.0	27.0	8.1	8.1	32.6	32.6	97.5	97.5	6.5	6.5	15.6	16.8	7	7	819714	804592
						1.0	0.6	320	27.0		8.1		32.6		97.4		6.5		15.4		7			
					Middle	4.4	0.6	351	27.0	27.0	8.1	8.1	32.7	32.7	96.8	96.8	6.4		16.3		6			
						4.4	0.6	323	27.0		8.1		32.7		96.7		6.4		16.3		7			
					Bottom	7.8	0.5	358	27.0	27.0	8.1	8.1	32.7	32.7	96.2	96.3	6.4	6.4	18.7		6			
						7.8	0.5	329	27.0		8.1		32.7		96.3		6.4		18.7		7			
IM5	Cloudy	Moderate	08:42	7.5	Surface	1.0	0.8	23	26.9	26.9	8.1	8.1	32.5	32.5	96.7	96.7	6.4	6.4	14.3	14.5	6	5	820754	804863
						1.0	0.9	24	26.9		8.1		32.5		96.7		6.4		14.2		6			
					Middle	3.8	0.7	24	26.9	26.9	8.1	8.1	32.5	32.5	96.4	96.4	6.4		13.9		5			
						3.8	0.7	25	26.9		8.1		32.5		96.4		6.4		13.9		6			
					Bottom	6.5	0.6	26	26.9	26.9	8.1	8.1	32.5	32.5	96.7	96.8	6.4	6.4	15.3		4			
						6.5	0.6	27	26.9		8.1		32.5		96.8		6.4		15.5		5			
IM6	Cloudy	Moderate	08:48	7.7	Surface	1.0	0.1	65	26.9	26.9	8.0	8.0	31.6	31.6	95.8	95.8	6.4	6.4	6.6	9.2	6	6	821082	805809
						1.0	0.1	70	26.9		8.0		31.6		95.8		6.4		6.6		7			
					Middle	3.9	0.1	62	26.9	26.9	8.0	8.0	32.1	32.1	94.7	94.6	6.3		8.5		5			
						3.9	0.1	68	26.9		8.0		32.1		94.5		6.3		8.9		6			
					Bottom	6.7	0.1	60	27.0	27.0	8.0	8.0	32.5	32.5	94.2	94.3	6.3	6.3	12.2		5			
						6.7	0.1	63	26.9		8.0		32.5		94.4		6.3		12.2		6			
IM7	Cloudy	Moderate	08:58	8.5	Surface	1.0	0.1	299	27.0	27.0	8.0	8.0	30.6	30.6	96.9	96.9	6.5	6.5	4.7	5.5	4	5	821364	806824
						1.0	0.1	301	27.0		8.0		30.6		96.8		6.5		4.8		5			
					Middle	4.3	0.0	293	26.9	26.9	8.0	8.0	30.9	30.9	95.6	95.6	6.4		5.6		5			
						4.3	0.0	304	26.9		8.0		30.9		95.6		6.4		5.7		6			
					Bottom	7.5	0.1	139	26.8	26.8	8.0	8.0	31.1	31.1	96.4	96.4	6.5	6.5	6.2		6			
						7.5	0.1	139	26.8		8.0		31.1		96.4		6.5		6.1		6			
IM8	Cloudy	Moderate	08:03	8.0	Surface	1.0	0.2	253	26.7	26.7	8.2	8.2	31.9	32.0	91.7	91.7	6.1	6.2	4.8	5.7	7	6	821830	808128
						1.0	0.3	263	26.7		8.2		32.0		91.7		6.1		4.8		6			
					Middle	4.0	0.3	252	26.7	26.7	8.2	8.2	32.3	32.4	92.2	92.3	6.2		5.4		6			
						4.0	0.3	262	26.6		8.2		32.4		92.4		6.2		5.5		7			
					Bottom	7.0	0.3	253	26.4	26.4	8.2	8.2	32.8	32.8	93.8	94.1	6.3	6.3	7.0		5			
						7.0	0.3	254	26.3		8.2		32.9		94.4		6.3		6.9		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 21 October 21 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	Cloudy	Moderate	07:57	7.6	Surface	1.0	0.3	216	26.7	26.7	8.2	8.2	32.6	32.6	91.5	91.7	6.1	6.2	7.1	8.1	6	5	822074	808828
						1.0	0.3	219	26.7		8.2		32.7		91.8		6.1		7.1		6			
					Middle	3.8	0.3	216	26.6	26.6	8.2	8.2	32.7	32.8	93.1	93.3	6.2		8.2		5			
						3.8	0.3	216	26.5		8.2		32.8		93.5		6.3		8.2		6			
					Bottom	6.6	0.3	216	26.1	26.1	8.2	8.2	33.1	33.1	94.9	95.4	6.4	6.5	9.1		4			
						6.6	0.3	217	26.0		8.2		33.2		95.9		6.5		9.1		5			
IM10	Cloudy	Moderate	07:51	9.0	Surface	1.0	0.2	248	26.7	26.7	8.2	8.2	32.8	32.8	92.8	93.0	6.2	6.3	7.0	8.2	7	6	822408	809776
						1.0	0.2	265	26.7		8.2		32.8		93.1		6.2		7.1		7			
					Middle	4.5	0.2	248	26.7	26.7	8.2	8.2	32.8	32.8	93.8	94.0	6.3		8.2		7			
						4.5	0.2	248	26.7		8.2		32.8		94.1		6.3		8.1		6			
					Bottom	8.0	0.2	250	26.7	26.7	8.2	8.2	32.8	32.8	94.9	95.3	6.3	6.4	9.4		6			
						8.0	0.3	273	26.7		8.2		32.8		95.6		6.4		9.4		5			
IM11	Cloudy	Moderate	07:42	8.2	Surface	1.0	0.2	234	26.7	26.7	8.2	8.2	32.9	32.9	90.6	90.7	6.0	6.1	7.1	8.3	10	9	822062	811436
						1.0	0.2	252	26.7		8.2		32.9		90.8		6.0		7.1		9			
					Middle	4.1	0.2	244	26.7	26.7	8.2	8.2	32.9	32.9	92.4	92.5	6.2		8.7		10			
						4.1	0.3	252	26.7		8.2		32.9		92.6		6.2		8.6		9			
					Bottom	7.2	0.2	242	26.7	26.7	8.2	8.2	32.9	32.9	93.5	93.7	6.2	6.3	9.2		8			
						7.2	0.3	255	26.7		8.2		32.9		93.9		6.3		9.1		8			
IM12	Cloudy	Moderate	07:37	9.4	Surface	1.0	0.1	218	26.7	26.7	8.2	8.2	32.9	32.9	91.1	91.3	6.1	6.2	5.9	6.5	6	7	821454	812055
						1.0	0.1	228	26.7		8.2		32.9		91.5		6.1		5.8		7			
					Middle	4.7	0.1	222	26.7	26.7	8.2	8.2	32.9	32.9	92.7	92.9	6.2		6.6		7			
						4.7	0.1	232	26.7		8.2		32.9		93.0		6.2		6.6		7			
					Bottom	8.4	0.1	217	26.7	26.7	8.2	8.2	32.9	32.9	94.2	94.6	6.3	6.3	7.1		8			
						8.4	0.1	238	26.7		8.2		32.9		95.0		6.3		7.0		7			
SR1A	Cloudy	Moderate	07:05	5.0	Surface	1.0	-	-	26.7	26.7	8.2	8.2	32.8	32.8	91.7	91.7	6.1	6.1	5.1	5.8	8	7	819980	812654
						1.0	-	-	26.7		8.2		32.8		91.7		6.1		5.1		7			
					Middle	2.5	-	-	-	-	-	-	-	-	-	-	-		-		-			
						2.5	-	-	-		-		-		-		-		-		-			
					Bottom	4.0	-	-	26.7	26.7	8.2	8.2	32.8	32.8	91.7	91.8	6.1	6.1	6.4		7			
						4.0	-	-	26.7		8.2		32.8		91.8		6.1		6.4		6			
SR2	Cloudy	Moderate	06:58	5.0	Surface	1.0	0.3	252	26.7	26.7	8.2	8.2	32.8	32.8	94.0	94.2	6.3	6.3	7.5	7.8	6	7	821485	814171
						1.0	0.3	259	26.7		8.2		32.8		94.4		6.3		7.4		10			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	4.0	0.2	49	26.7	26.7	8.2	8.2	32.8	32.8	96.5	96.9	6.4	6.5	8.1		6			
						4.0	0.3	52	26.7		8.2		32.8		97.2		6.5		8.1		7			
SR3	Cloudy	Moderate	08:08	9.2	Surface	1.0	0.2	197	26.7	26.7	8.2	8.2	31.5	31.5	92.0	92.2	6.2	6.3	2.6	3.5	4	5	822138	807559
						1.0	0.2	205	26.7		8.2		31.5		92.3		6.2		2.5		3			
					Middle	4.6	0.2	198	26.7	26.7	8.2	8.2	31.6	31.7	93.6	93.8	6.3		3.2		5			
						4.6	0.2	202	26.6		8.2		31.7		93.9		6.3		3.1		5			
					Bottom	8.2	0.2	205	26.3	26.3	8.2	8.2	32.0	32.1	95.1	95.3	6.4	6.5	4.7		5			
						8.2	0.2	213	26.2		8.2		32.1		95.5		6.5		4.8		6			
SR4A	Cloudy	Moderate	07:33	9.2	Surface	1.0	0.1	83	27.0	27.0	8.0	8.0	32.4	32.4	94.1	94.1	6.3	6.3	7.3	7.9	11	10	817197	807787
						1.0	0.1	87	27.0		8.0		32.4		94.0		6.3		7.4		11			
					Middle	4.6	0.2	73	27.0	27.0	8.0	8.0	32.4	32.4	93.7	93.7	6.2		8.2		10			
						4.6	0.2	75	27.0		8.0		32.4		93.6		6.2		8.2		9			
					Bottom	8.2	0.2	70	27.0	27.0	8.0	8.0	32.4	32.4	93.7	93.8	6.2	6.2	8.1		8			
						8.2	0.2	73	27.0		8.0		32.4		93.8		6.2		8.1		9			
SR5A	Cloudy	Calm	07:16	4.6	Surface	1.0	0.2	292	26.9	26.9	8.0	8.0	32.1	32.1	94.3	94.3	6.3	6.3	6.3	6.6	7	7	816597	810684
						1.0	0.2	317	26.9		8.0		32.1		94.2		6.3		6.5		7			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.6	0.1	307	26.9	26.9	8.0	8.0	32.1	32.1	94.2	94.2	6.3	6.3	6.9		7			
						3.6	0.1	329	26.9		8.0		32.1		94.2		6.3		6.9		7			
SR6A	Cloudy	Calm	06:50	4.7	Surface	1.0	0.1	255	26.7	26.7	8.0	7.9	31.9	31.9	91.6	91.6	6.1	6.1	6.0	7.1	5	5	817977	814715
						1.0	0.1	257	26.7		7.9		31.9		91.6		6.1		6.2		6			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.7	0.1	256	26.8	26.8	7.9	7.9	32.0	32.0	92.1	92.2	6.2	6.2	8.0		3			
						3.7	0.1	268	26.8		7.9		32.0		92.3		6.2		8.2		4			
SR7	Cloudy	Moderate	06:12	16.0	Surface	1.0	0.3	289	26.8	26.8	8.1	8.1	33.0	33.0	84.8	84.8	5.6	5.6	4.5	5.2	12	13	823613	823760
						1.0	0.4	303	26.8		8.1		33.0		84.8		5.6		4.5		12			
					Middle	8.0	0.4	290	26.8	26.8	8.1	8.1	33.0	33.0	84.8	84.8	5.6		5.1		14			
						8.0	0.4	310	26.8		8.1		33.0		84.8		5.6		5.1		13			
					Bottom	15.0	0.4	288	26.8	26.8	8.1	8.1	33.0	33.0	84.9	84.9	5.6	5.6	6.1		14			
						15.0	0.4	301	26.8		8.1		33.0		84.9		5.6		6.0		13			
SR8	Cloudy	Moderate	07:13	5.0	Surface	1.0	-	-	26.7	26.7	8.2	8.2	32.8	32.8	90.2	90.2	6.0	6.0	6.6	6.8	8	7	820409	811600
						1.0	-	-	26.7		8.2		32.8		90.2		6.0		6.6		7			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	4.0	-	-	26.7	26.7	8.2	8.2	32.8	32.8	90.2	90.3	6.0	6.0	7.1		7			
						4.0	-	-	26.7		8.2		32.8		90.3		6.0		7.0		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 23 October 21 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	Misty	Moderate	13:44	8.4	Surface	1.0	0.1	189	25.8	25.8	8.1	8.1	33.4	33.4	100.6	100.7	6.8	6.8	8.6	9.5	17	21	815597	804239
						1.0	0.1	200	25.8		8.1		33.4		100.8		6.8		8.7		18			
					Middle	4.2	0.1	181	25.8	25.8	8.1	8.1	33.3	33.3	101.2	101.3	6.8		9.8		21			
						4.2	0.1	198	25.8		8.1		33.4		101.4		6.8		9.8		20			
					Bottom	7.4	0.1	244	25.8	25.8	8.1	8.1	33.3	33.3	102.2	102.6	6.9	6.9	10.1		23			
						7.4	0.1	255	25.8		8.1		33.3		102.9		6.9		10.0		24			
C2	Cloudy	Moderate	12:36	12.6	Surface	1.0	0.3	9	25.4	25.4	8.1	8.1	31.6	31.6	89.3	89.3	6.1	6.2	5.9	10.7	16	14	825664	806922
						1.0	0.3	9	25.4		8.1		31.6		89.3		6.1		6.0		15			
					Middle	6.3	0.3	9	25.3	25.3	8.1	8.1	31.7	31.7	89.8	89.8	6.2		10.7		15			
						6.3	0.3	9	25.3		8.1		31.7		89.8		6.2		10.3		14			
					Bottom	11.6	0.3	12	25.2	25.2	8.0	8.0	32.0	32.0	90.1	90.1	6.2	6.2	15.7		11			
						11.6	0.3	12	25.2		8.0		32.0		90.1		6.2		15.9		11			
C3	Cloudy	Moderate	14:34	12.6	Surface	1.0	0.2	309	26.5	26.5	8.0	8.0	32.4	32.4	81.5	81.5	5.5	5.5	3.3	6.5	14	14	822085	817817
						1.0	0.2	327	26.5		8.0		32.4		81.4		5.5		3.5		15			
					Middle	6.3	0.2	307	26.6	26.6	8.0	8.0	32.5	32.5	81.1	81.1	5.4		6.6		15			
						6.3	0.2	333	26.6		8.0		32.5		81.1		5.4		7.2		14			
					Bottom	11.6	0.2	308	26.5	26.5	7.9	7.9	32.5	32.5	81.5	81.6	5.5	5.5	9.4		13			
						11.6	0.2	335	26.5		7.9		32.5		81.6		5.5		9.1		14			
IM1	Misty	Moderate	13:24	5.6	Surface	1.0	0.1	213	24.9	24.9	8.1	8.1	32.7	32.7	100.0	100.1	6.9	6.9	7.7	8.0	13	12	817948	807120
						1.0	0.1	220	24.9		8.1		32.8		100.2		6.9		7.6		9			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	4.6	0.1	94	24.9	24.9	8.1	8.1	32.8	32.8	102.0	102.2	7.0	7.0	8.3		12			
						4.6	0.1	97	24.9		8.1		32.7		102.3		7.0		8.3		13			
IM2	Misty	Moderate	13:17	7.0	Surface	1.0	0.1	72	25.5	25.5	8.1	8.1	33.2	33.2	99.6	99.8	6.8	6.8	7.8	8.7	24	22	818160	806160
						1.0	0.1	74	25.5		8.1		33.2		99.9		6.8		7.9		23			
					Middle	3.5	0.1	120	25.5	25.5	8.1	8.1	33.2	33.2	100.4	100.5	6.8		8.7		21			
						3.5	0.1	126	25.5		8.1		33.2		100.6		6.8		8.7		22			
					Bottom	6.0	0.1	108	25.5	25.5	8.1	8.1	33.2	33.2	101.3	101.5	6.9	6.9	9.6		21			
						6.0	0.1	109	25.5		8.1		33.2		101.6		6.9		9.5		22			
IM3	Misty	Moderate	13:11	7.6	Surface	1.0	0.0	96	25.4	25.5	8.1	8.1	33.2	33.2	99.9	100.0	6.8	6.8	7.7	8.5	31	28	818805	805594
						1.0	0.0	104	25.5		8.1		33.2		100.1		6.8		7.7		30			
					Middle	3.8	0.0	44	25.4	25.4	8.1	8.1	33.2	33.2	100.5	100.6	6.8		8.2		30			
						3.8	0.0	45	25.4		8.1		33.2		100.7		6.8		8.2		31			
					Bottom	6.6	0.0	15	25.4	25.5	8.1	8.1	33.2	33.2	101.3	101.5	6.9	6.9	9.8		21			
						6.6	0.0	15	25.5		8.1		33.2		101.7		6.9		9.7		22			
IM4	Misty	Moderate	13:02	9.0	Surface	1.0	0.1	335	25.5	25.5	8.1	8.1	33.2	33.2	98.7	98.7	6.7	6.7	7.1	8.3	7	7	819746	804624
						1.0	0.1	354	25.5		8.1		33.2		98.7		6.7		7.2		8			
					Middle	4.5	0.1	356	25.5	25.5	8.1	8.1	33.2	33.2	98.8	98.8	6.7		8.2		7			
						4.5	0.1	328	25.5		8.1		33.2		98.8		6.7		8.3		8			
					Bottom	8.0	0.1	338	25.5	25.5	8.1	8.1	33.2	33.2	99.7	99.9	6.8	6.8	9.6		7			
						8.0	0.1	311	25.5		8.1		33.2		100.1		6.8		9.6		6			
IM5	Misty	Moderate	12:54	8.4	Surface	1.0	0.3	349	25.2	25.2	8.1	8.1	33.0	33.0	99.1	99.2	6.8	6.8	9.0	9.5	20	22	820727	804845
						1.0	0.3	321	25.2		8.1		33.0		99.3		6.8		8.9		29			
					Middle	4.2	0.3	354	25.2	25.2	8.1	8.1	33.0	33.0	100.2	100.3	6.8		9.4		32			
						4.2	0.3	358	25.2		8.1		33.0		100.3		6.8		9.4		16			
					Bottom	7.4	0.2	5	25.2	25.2	8.1	8.1	33.0	33.0	101.0	101.2	6.9	6.9	10.1		16			
						7.4	0.2	5	25.2		8.1		33.0		101.4		6.9		10.0		17			
IM6	Misty	Moderate	12:47	8.0	Surface	1.0	0.1	244	25.2	25.2	8.0	8.0	32.3	32.3	97.9	97.9	6.7	6.8	7.3	8.3	7	7	821083	805817
						1.0	0.1	250	25.1		8.0		32.3		97.9		6.7		7.2		8			
					Middle	4.0	0.1	249	25.1	25.1	8.0	8.0	32.5	32.5	98.7	98.8	6.8		8.2		6			
						4.0	0.1	259	25.1		8.0		32.5		98.8		6.8		8.2		7			
					Bottom	7.0	0.1	169	25.0	25.1	8.0	8.0	32.6	32.6	99.7	100.1	6.8	6.9	9.4		6			
						7.0	0.1	177	25.1		8.0		32.6		100.4		6.9		9.5		7			
IM7	Misty	Moderate	12:38	9.6	Surface	1.0	0.0	217	25.2	25.2	8.0	8.0	32.1	32.1	98.3	98.5	6.8	6.8	5.5	6.4	7	14	821353	806840
						1.0	0.0	220	25.2		8.0		32.1		98.6		6.8		5.6		8			
					Middle	4.8	0.1	257	25.2	25.2	8.0	8.0	32.2	32.2	98.9	99.1	6.8		6.7		18			
						4.8	0.1	262	25.1		8.0		32.2		99.2		6.8		6.7		17			
					Bottom	8.6	0.1	161	25.1	25.1	8.0	8.0	32.3	32.2	99.9	100.1	6.9	6.9	7.0		17			
						8.6	0.1	170	25.1		8.0		32.2		100.3		6.9		7.1		18			
IM8	Cloudy	Moderate	12:59	7.7	Surface	1.0	0.2	240	25.4	25.4	8.1	8.1	31.6	31.6	90.6	90.6	6.2	6.2	4.3	10.9	12	13	821843	808139
						1.0	0.2	256	25.4		8.1		31.6		90.6		6.2		4.3		11			
					Middle	3.9	0.2	240	25.3	25.3	8.1	8.1	31.8	31.8	90.9	91.0	6.2		11.6		13			
						3.9	0.2	258	25.3		8.1		31.9		91.0		6.2		11.6		14			
					Bottom	6.7	0.2	241	25.2	25.2	8.2	8.2	32.2	32.2	91.2	91.2	6.3	6.3	17.0		13			
						6.7	0.3	246	25.2		8.2		32.2		91.2		6.3		16.8		14			

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

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 23 October 21 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	13:04	7.8	Surface	1.0	0.2	252	25.4	25.4	8.2	8.2	31.6	31.6	89.1	89.2	6.1	6.2	5.0	8.6	14	14	822081	808795
						1.0	0.2	271	25.4		8.2		31.6		89.2		6.1		5.1		13			
					Middle	3.9	0.2	255	25.4	25.4	8.2	8.2	31.8	31.8	89.9	89.9	6.2		8.7		13			
						3.9	0.2	263	25.3		8.2		31.8		89.9		6.2		9.4		14			
					Bottom	6.8	0.2	253	25.2	25.2	8.2	8.2	32.1	32.1	90.8	90.9	6.2	6.2	11.8		15			
						6.8	0.2	276	25.2		8.2		32.1		90.9		6.2		11.8		14			
IM10	Cloudy	Moderate	13:11	7.6	Surface	1.0	0.2	243	25.5	25.5	8.1	8.1	31.5	31.5	90.7	90.7	6.2	6.2	2.8	6.7	14	14	822369	809783
						1.0	0.2	258	25.5		8.1		31.5		90.7		6.2		2.8		15			
					Middle	3.8	0.2	247	25.4	25.4	8.1	8.1	31.7	31.7	90.0	90.0	6.2		4.1		14			
						3.8	0.2	257	25.4		8.1		31.7		90.0		6.2		4.2		15			
					Bottom	6.6	0.2	248	25.3	25.3	8.1	8.1	31.7	31.7	92.8	92.9	6.4	6.4	13.3		13			
						6.6	0.3	270	25.3		8.1		31.7		93.0		6.4		13.3		14			
IM11	Cloudy	Moderate	13:21	8.4	Surface	1.0	0.2	255	26.1	26.1	8.1	8.1	32.0	32.0	86.2	86.2	5.8	5.9	4.2	4.5	13	12	822044	811454
						1.0	0.2	261	26.1		8.1		32.0		86.2		5.8		4.2		14			
					Middle	4.2	0.2	258	26.0	26.0	8.1	8.1	32.0	32.0	88.2	88.4	6.0		4.6		12			
						4.2	0.2	266	26.0		8.1		32.0		88.5		6.0		4.6		13			
					Bottom	7.4	0.2	266	26.0	26.0	8.1	8.1	32.0	32.0	90.4	90.5	6.1	6.1	4.7		10			
						7.4	0.2	285	26.0		8.1		32.0		90.6		6.1		4.8		10			
IM12	Cloudy	Moderate	13:28	9.0	Surface	1.0	0.2	269	26.1	26.1	8.0	8.0	32.0	32.0	84.3	84.3	5.7	5.7	3.3	3.5	12	12	821462	812022
						1.0	0.2	276	26.1		8.0		32.0		84.3		5.7		3.3		12			
					Middle	4.5	0.3	271	26.1	26.1	8.0	8.0	32.0	32.0	84.5	84.5	5.7		3.5		11			
						4.5	0.3	288	26.1		8.0		32.0		84.5		5.7		3.4		12			
					Bottom	8.0	0.3	269	26.1	26.1	7.9	7.9	32.0	32.0	85.1	85.2	5.8	5.8	3.7		12			
						8.0	0.3	289	26.1		7.9		32.0		85.3		5.8		3.7		11			
SR1A	Cloudy	Moderate	13:59	5.4	Surface	1.0	-	-	25.2	25.2	8.1	8.1	31.7	31.7	86.8	86.8	6.0	6.0	3.6	3.6	12	14	819983	812662
						1.0	-	-	25.2		8.1		31.7		86.8		6.0		3.6		13			
					Middle	2.7	-	-	-	-	-	-	-	-	-	-	-		-		-			
						2.7	-	-	-		-		-		-		-		-		-			
					Bottom	4.4	-	-	25.1	25.1	8.1	8.1	31.7	31.7	87.6	87.7	6.0	6.0	3.7		15			
						4.4	-	-	25.1		8.1		31.7		87.7		6.0		3.7		15			
SR2	Cloudy	Moderate	14:13	4.5	Surface	1.0	0.2	100	26.0	26.0	7.9	7.9	32.1	32.1	85.4	85.5	5.8	5.8	6.4	7.1	12	13	821458	814189
						1.0	0.2	106	26.0		7.9		32.1		85.5		5.8		6.5		11			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.5	0.2	101	25.9	25.9	7.9	7.9	32.1	32.1	88.3	88.5	6.0	6.0	7.8		14			
						3.5	0.2	101	25.9		7.9		32.1		88.6		6.0		7.9		14			
SR3	Cloudy	Moderate	12:53	8.4	Surface	1.0	0.2	229	25.4	25.4	8.1	8.1	31.5	31.5	90.6	90.7	6.2	6.3	6.8	10.5	15	14	822123	807585
						1.0	0.2	236	25.4		8.1		31.6		90.7		6.2		7.1		14			
					Middle	4.2	0.2	232	25.3	25.3	8.1	8.1	32.0	32.0	91.6	91.7	6.3		8.2		15			
						4.2	0.2	234	25.3		8.1		32.1		91.8		6.3		8.5		14			
					Bottom	7.4	0.2	235	25.2	25.2	8.1	8.1	32.4	32.4	93.1	93.2	6.4	6.4	16.2		13			
						7.4	0.2	250	25.2		8.1		32.4		93.3		6.4		16.2		14			
SR4A	Misty	Moderate	14:05	9.4	Surface	1.0	0.3	71	25.2	25.2	8.1	8.1	33.0	33.0	99.5	99.6	6.8	6.8	7.9	8.4	12	13	817172	807816
						1.0	0.3	75	25.2		8.1		33.0		99.7		6.8		7.9		13			
					Middle	4.7	0.3	69	25.2	25.2	8.1	8.1	33.0	33.0	100.1	100.2	6.8		8.0		14			
						4.7	0.3	75	25.2		8.1		33.0		100.3		6.9		8.0		13			
					Bottom	8.4	0.3	60	25.1	25.2	8.1	8.1	33.0	33.0	100.9	101.1	6.9	6.9	9.3		14			
						8.4	0.3	63	25.2		8.1		33.0		101.3		6.9		9.3		14			
SR5A	Misty	Moderate	14:23	5.2	Surface	1.0	0.1	304	24.8	24.8	8.0	8.0	32.2	32.3	98.3	98.6	6.8	6.8	7.6	8.2	13	14	816612	810677
						1.0	0.1	311	24.8		8.0		32.3		98.8		6.8		7.6		14			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	4.2	0.0	261	24.8	24.8	8.0	8.0	32.5	32.5	100.4	100.9	6.9	7.0	8.8		14			
						4.2	0.0	268	24.8		8.0		32.4		101.3		7.0		8.7		14			
SR6A	Misty	Moderate	14:53	4.8	Surface	1.0	0.1	285	24.8	24.8	8.0	8.0	32.2	32.2	96.0	96.2	6.6	6.7	8.6	9.0	13	13	817953	814747
						1.0	0.1	304	24.8		8.0		32.2		96.3		6.7		8.5		13			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.8	0.1	270	24.8	24.8	8.0	8.0	32.2	32.2	97.0	97.1	6.7	6.7	9.6		14			
						3.8	0.1	295	24.8		8.0		32.2		97.2		6.7		9.6		13			
SR7	Cloudy	Moderate	14:59	16.4	Surface	1.0	0.2	144	26.6	26.6	8.0	8.0	32.5	32.5	82.3	82.3	5.5	5.5	3.5	4.2	7	7	823623	823765
						1.0	0.2	157	26.6		8.0		32.5		82.3		5.5		3.5		8			
					Middle	8.2	0.3	152	26.6	26.6	7.9	7.9	32.5	32.5	82.4	82.5	5.5		4.5		7			
						8.2	0.3	157	26.6		7.9		32.5		82.5		5.5		4.5		6			
					Bottom	15.4	0.2	169	26.5	26.5	7.9	7.9	32.6	32.6	84.1	84.3	5.6	5.7	4.6		6			
						15.4	0.2	181	26.5		7.9		32.6		84.4		5.7		4.6		5			
SR8	Cloudy	Moderate	13:36	4.2	Surface	1.0	-	-	25.9	25.9	8.0	8.0	31.8	31.8	88.2	88.2	6.0	6.0	5.3	7.9	13	12	820399	811610
						1.0	-	-	25.9		8.0		31.8		88.1		6.0		5.2		13			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.2	-	-	25.7	25.7	8.0	8.0	31.9	31.8	88.2	88.3	6.0	6.0	10.5		12			
						3.2	-	-	25.7		8.0		31.8		88.3		6.0		10.4		11			

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

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 23 October 21 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	08:45	8.0	Surface	1.0	0.4	44	25.5	25.5	8.1	8.1	33.2	33.1	98.3	98.4	6.7	6.7	3.5	4.4	8	9	815604	804250
						1.0	0.4	46	25.5		8.1		33.1		98.4		6.7		3.6		8			
					Middle	4.0	0.4	39	25.5	25.5	8.1	8.1	33.1	33.1	98.7	98.9	6.7		4.5		9			
						4.0	0.4	40	25.5		8.1		33.1		99.0		6.7		4.4		10			
					Bottom	7.0	0.4	38	25.5	25.5	8.1	8.1	33.1	33.1	99.4	99.5	6.8	6.8	5.1		10			
						7.0	0.4	41	25.5		8.1		33.1		99.6		6.8		5.1		11			
C2	Cloudy	Moderate	10:25	11.8	Surface	1.0	0.3	275	25.4	25.4	7.9	7.9	31.1	31.1	89.7	89.8	6.2	6.3	8.5	11.1	14	13	825689	806937
						1.0	0.3	293	25.4		7.9		31.1		89.8		6.2		8.5		14			
					Middle	5.9	0.3	278	25.3	25.3	7.9	7.9	31.2	31.2	90.7	90.8	6.3		10.0		13			
						5.9	0.3	279	25.3		7.9		31.2		90.8		6.3		10.4		12			
					Bottom	10.8	0.3	278	25.2	25.2	8.0	8.0	31.3	31.3	93.9	94.0	6.5	6.5	14.6		12			
						10.8	0.3	296	25.2		8.0		31.3		94.1		6.5		14.5		13			
C3	Cloudy	Moderate	08:20	12.1	Surface	1.0	0.2	276	26.3	26.3	7.9	7.9	32.1	32.1	83.4	83.4	5.6	5.7	3.9	8.8	11	10	822100	817781
						1.0	0.2	299	26.3		7.9		32.1		83.4		5.6		4.0		11			
					Middle	6.1	0.2	276	26.2	26.2	7.9	7.8	32.1	32.1	83.8	83.8	5.7		9.1		10			
						6.1	0.2	283	26.2		7.8		32.1		83.8		5.7		9.3		11			
					Bottom	11.1	0.2	276	26.1	26.1	7.8	7.8	32.1	32.1	86.8	86.8	5.9	5.9	13.6		8			
						11.1	0.2	302	26.1		7.8		32.2		86.8		5.9		12.7		7			
IM1	Misty	Moderate	09:05	5.6	Surface	1.0	0.1	349	24.9	24.9	8.0	8.0	32.7	32.7	99.2	99.3	6.8	6.8	8.6	9.1	16	16	817938	807120
						1.0	0.1	351	24.9		8.0		32.7		99.4		6.8		8.7		15			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	4.6	0.2	11	24.8	24.9	8.0	8.0	32.6	32.6	100.5	100.9	6.9	7.0	9.5		19			
						4.6	0.2	11	24.9		8.0		32.6		101.2		7.0		9.6		12			
IM2	Misty	Moderate	09:12	6.8	Surface	1.0	0.2	358	25.2	25.2	8.1	8.1	32.9	32.9	98.6	98.7	6.7	6.8	5.0	6.4	34	25	818168	806165
						1.0	0.3	329	25.2		8.1		32.9		98.7		6.7		5.0		33			
					Middle	3.4	0.2	359	25.2	25.2	8.1	8.0	32.9	32.9	99.2	99.3	6.8		6.8		31			
						3.4	0.2	330	25.2		8.0		32.9		99.4		6.8		6.8		20			
					Bottom	5.8	0.2	3	25.2	25.2	8.0	8.0	32.9	32.9	100.0	100.4	6.8	6.9	7.4		16			
						5.8	0.2	3	25.2		8.0		32.9		100.7		6.9		7.4		17			
IM3	Misty	Moderate	09:19	7.2	Surface	1.0	0.3	337	25.1	25.1	8.1	8.1	33.0	33.0	99.0	99.1	6.8	6.8	7.4	8.3	21	21	818805	805583
						1.0	0.3	346	25.1		8.1		33.0		99.2		6.8		7.4		19			
					Middle	3.6	0.3	338	25.1	25.1	8.1	8.1	33.0	33.0	99.8	99.9	6.8		8.5		18			
						3.6	0.3	352	25.1		8.1		33.0		100.0		6.8		8.6		19			
					Bottom	6.2	0.3	333	25.1	25.1	8.1	8.1	33.0	33.0	100.5	100.7	6.9	6.9	9.0		29			
						6.2	0.3	306	25.1		8.1		33.0		100.9		6.9		9.0		20			
IM4	Misty	Moderate	09:27	9.4	Surface	1.0	0.5	351	25.2	25.2	8.1	8.1	33.1	33.1	99.5	99.7	6.8	6.8	7.9	8.6	16	18	819724	804614
						1.0	0.5	352	25.2		8.1		33.1		99.8		6.8		8.0		17			
					Middle	4.7	0.5	354	25.2	25.2	8.1	8.1	33.1	33.1	100.1	100.2	6.8		8.1		19			
						4.7	0.5	326	25.2		8.1		33.1		100.2		6.8		8.2		18			
					Bottom	8.4	0.4	353	25.2	25.2	8.1	8.1	33.0	33.0	101.0	101.4	6.9	6.9	9.7		18			
						8.4	0.4	325	25.2		8.1		33.0		101.7		6.9		9.7		19			
IM5	Misty	Moderate	09:34	8.2	Surface	1.0	0.6	18	25.2	25.2	8.1	8.1	33.0	33.0	98.7	98.8	6.7	6.8	8.6	9.3	34	34	820715	804860
						1.0	0.7	19	25.2		8.1		33.0		98.9		6.8		8.7		33			
					Middle	4.1	0.6	13	25.2	25.2	8.1	8.1	33.0	33.0	99.8	99.9	6.8		9.4		34			
						4.1	0.6	13	25.2		8.1		33.0		99.9		6.8		9.4		33			
					Bottom	7.2	0.6	17	25.1	25.2	8.1	8.1	33.0	33.0	101.1	101.4	6.9	6.9	10.0		38			
						7.2	0.6	17	25.2		8.1		33.0		101.6		6.9		10.0		32			
IM6	Misty	Moderate	09:42	7.8	Surface	1.0	0.1	307	25.1	25.1	8.0	8.0	32.4	32.4	97.6	97.7	6.7	6.7	7.2	8.3	10	15	821036	805833
						1.0	0.1	333	25.1		8.0		32.5		97.8		6.7		7.2		10			
					Middle	3.9	0.1	23	25.1	25.1	8.0	8.0	32.5	32.5	98.2	98.3	6.7		8.4		8			
						3.9	0.1	23	25.1		8.0		32.6		98.4		6.8		8.4		8			
					Bottom	6.8	0.1	74	25.1	25.1	8.0	8.0	32.5	32.5	99.3	99.7	6.8	6.9	9.5		22			
						6.8	0.1	77	25.1		8.0		32.5		100.1		6.9		9.4		30			
IM7	Misty	Moderate	09:51	8.8	Surface	1.0	0.1	161	25.2	25.2	8.0	8.0	32.1	32.1	97.6	97.7	6.7	6.8	7.1	8.4	7	8	821358	806820
						1.0	0.1	176	25.2		8.0		32.1		97.8		6.7		7.1		7			
					Middle	4.4	0.2	150	25.2	25.2	8.0	8.0	32.2	32.2	98.5	98.6	6.8		8.7		7			
						4.4	0.2	156	25.1		8.0		32.3		98.6		6.8		8.7		7			
					Bottom	7.8	0.2	136	25.1	25.1	8.0	8.0	32.3	32.3	99.4	99.7	6.8	6.9	9.4		10			
						7.8	0.2	136	25.1		8.0		32.3		100.0		6.9		9.4		10			
IM8	Cloudy	Moderate	09:58	7.4	Surface	1.0	0.2	270	25.5	25.5	8.1	8.1	31.5	31.5	89.6	89.6	6.1	6.2	4.3	5.6	10	10	821812	808124
						1.0	0.3	271	25.5		8.1		31.5		89.6		6.1		4.3		10			
					Middle	3.7	0.2	270	25.5	25.5	8.1	8.1	31.6	31.6	90.1	90.2	6.2		5.7		10			
						3.7	0.2	283	25.5		8.1		31.6		90.2		6.2		5.8		11			
					Bottom	6.4	0.2	274	25.4	25.4	8.1	8.1	31.6	31.6	92.1	92.3	6.3	6.3	6.9		10			
						6.4	0.3	281	25.4		8.1		31.6		92.4		6.3		6.9		11			

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

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 23 October 21 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	Cloudy	Moderate	09:50	7.5	Surface	1.0	0.2	298	25.4	25.4	8.1	8.1	31.7	31.7	89.4	89.4	6.1	6.2	9.3	10.0	9	10	822083	808830
						1.0	0.2	312	25.4		8.1		31.7		89.4		6.1		9.3		10			
					Middle	3.8	0.2	299	25.3	25.3	8.1	8.1	31.7	31.7	89.6	89.6	6.2		9.8		11			
						3.8	0.2	299	25.3		8.1		31.7		89.6		6.2		9.8		10			
					Bottom	6.5	0.2	298	25.3	25.3	8.1	8.1	31.7	31.7	90.8	90.9	6.2	6.3	11.0		11			
						6.5	0.2	317	25.3		8.1		31.7		91.0		6.3		11.1		10			
IM10	Cloudy	Moderate	09:43	7.8	Surface	1.0	0.2	186	25.8	25.8	8.0	8.0	31.9	31.9	86.5	86.5	5.9	5.9	8.5	11.7	13	11	822364	809807
						1.0	0.2	190	25.8		8.0		31.9		86.5		5.9		8.5		13			
					Middle	3.9	0.2	186	25.7	25.7	8.0	8.0	31.9	31.9	86.9	87.0	5.9		9.6		11			
						3.9	0.2	194	25.7		8.0		31.9		87.0		5.9		9.6		10			
					Bottom	6.8	0.2	182	25.6	25.6	8.0	8.0	31.9	31.9	88.6	88.7	6.0	6.1	16.7		10			
						6.8	0.2	183	25.6		8.0		31.9		88.8		6.1		16.9		11			
IM11	Cloudy	Moderate	09:34	7.8	Surface	1.0	0.3	293	25.9	25.9	8.0	8.0	31.9	31.9	86.4	86.5	5.9	5.9	10.0	12.7	11	11	822064	811482
						1.0	0.3	317	25.9		8.0		31.9		86.5		5.9		10.1		10			
					Middle	3.9	0.3	293	25.9	25.9	8.0	8.0	31.9	31.9	86.9	87.0	5.9		12.5		12			
						3.9	0.3	306	25.9		8.0		31.9		87.0		5.9		12.8		11			
					Bottom	6.8	0.3	293	25.9	25.9	8.1	8.1	32.0	32.0	88.2	88.3	6.0	6.0	15.4		12			
						6.8	0.3	307	25.9		8.1		32.0		88.3		6.0		15.5		11			
IM12	Cloudy	Moderate	09:27	8.4	Surface	1.0	0.2	281	25.7	25.7	8.1	8.1	31.8	31.8	87.3	87.3	6.0	6.0	7.4	10.6	12	11	821466	812055
						1.0	0.2	307	25.7		8.1		31.8		87.3		6.0		7.3		12			
					Middle	4.2	0.2	285	25.7	25.7	8.1	8.1	31.8	31.8	87.8	87.9	6.0		9.0		11			
						4.2	0.2	296	25.7		8.1		31.8		87.9		6.0		9.3		12			
					Bottom	7.4	0.2	283	25.6	25.6	8.1	8.1	31.8	31.8	89.6	89.8	6.1	6.1	15.1		10			
						7.4	0.2	299	25.6		8.1		31.9		90.0		6.1		15.6		10			
SR1A	Cloudy	Moderate	08:55	5.0	Surface	1.0	-	-	25.3	25.3	8.1	8.1	31.7	31.7	85.7	85.7	5.9	5.9	3.5	3.6	11	10	819978	812658
						1.0	-	-	25.3		8.1		31.7		85.7		5.9		3.6		10			
					Middle	2.5	-	-	-	-	-	-	-	-	-	-	-		-		-			
						2.5	-	-	-		-		-		-		-		-		-			
					Bottom	4.0	-	-	25.3	25.3	8.1	8.1	31.7	31.7	86.3	86.4	5.9	5.9	3.6		10			
						4.0	-	-	25.3		8.1		31.7		86.5		5.9		3.6		9			
SR2	Cloudy	Moderate	08:39	4.2	Surface	1.0	0.3	340	25.4	25.4	8.0	8.0	31.8	31.8	91.3	91.5	6.3	6.3	6.7	7.6	9	9	821443	814153
						1.0	0.3	313	25.4		8.0		31.8		91.6		6.3		6.4		10			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.2	0.2	313	25.4	25.4	8.0	8.0	31.8	31.8	94.3	94.5	6.5	6.5	8.5		8			
						3.2	0.2	334	25.4		8.0		31.8		94.7		6.5		8.6		9			
SR3	Cloudy	Moderate	10:06	8.8	Surface	1.0	0.3	281	25.6	25.6	8.1	8.1	31.3	31.3	89.3	89.3	6.1	6.2	8.4	8.3	11	11	822131	807547
						1.0	0.3	307	25.6		8.1		31.3		89.3		6.1		9.0		12			
					Middle	4.4	0.3	281	25.5	25.5	8.1	8.1	31.4	31.4	89.8	89.9	6.2		6.0		11			
						4.4	0.3	304	25.5		8.1		31.4		89.9		6.2		6.3		10			
					Bottom	7.8	0.2	283	25.4	25.4	8.1	8.1	31.6	31.6	92.6	92.8	6.4	6.4	10.1		10			
						7.8	0.3	290	25.4		8.1		31.6		92.9		6.4		10.0		11			
SR4A	Misty	Moderate	08:22	9.2	Surface	1.0	0.1	76	24.9	24.9	8.0	8.0	32.3	32.3	94.3	94.4	6.5	6.6	6.8	7.5	10	29	817175	807793
						1.0	0.1	81	24.9		8.0		32.4		94.4		6.5		6.8		26			
					Middle	4.6	0.1	64	24.9	24.9	8.0	8.0	32.4	32.4	95.5	95.6	6.6		7.4		44			
						4.6	0.1	69	24.9		8.0		32.4		95.7		6.6		7.4		14			
					Bottom	8.2	0.2	73	24.9	24.9	8.0	8.0	32.4	32.4	96.3	96.5	6.6	6.7	8.3		32			
						8.2	0.2	74	24.9		8.0		32.4		96.6		6.7		8.4		49			
SR5A	Misty	Moderate	08:05	4.6	Surface	1.0	0.1	316	25.0	25.0	8.0	8.0	32.2	32.2	94.2	94.3	6.5	6.5	6.6	7.1	11	10	816594	810691
						1.0	0.1	316	25.0		8.0		32.2		94.3		6.5		6.7		10			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.6	0.1	322	25.0	25.0	8.0	8.0	32.2	32.2	95.2	95.5	6.6	6.6	7.7		9			
						3.6	0.1	327	25.0		8.0		32.2		95.7		6.6		7.6		9			
SR6A	Misty	Moderate	07:38	4.4	Surface	1.0	0.1	258	25.2	25.2	8.0	7.9	31.9	31.9	93.2	93.4	6.4	6.4	4.9	5.4	9	9	817982	814729
						1.0	0.1	272	25.2		7.9		31.9		93.5		6.4		4.9		8			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.4	0.1	242	25.1	25.1	7.9	7.9	31.9	31.9	94.8	95.0	6.5	6.6	5.9		9			
						3.4	0.1	249	25.1		7.9		31.9		95.2		6.6		5.9		10			
SR7	Cloudy	Moderate	07:54	16.5	Surface	1.0	0.2	265	26.6	26.6	7.9	7.9	32.4	32.4	81.0	81.0	5.4	5.4	4.3	5.1	8	9	823619	823732
						1.0	0.2	286	26.6		7.9		32.4		81.0		5.4		4.4		9			
					Middle	8.3	0.2	269	26.6	26.6	7.8	7.8	32.4	32.4	80.9	80.9	5.4		5.2		9			
						8.3	0.2	277	26.6		7.8		32.4		80.9		5.4		5.2		8			
					Bottom	15.5	0.2	270	26.6	26.6	7.8	7.8	32.4	32.4	80.9	80.9	5.4	5.4	5.9		10			
						15.5	0.2	294	26.6		7.8		32.4		80.9		5.4		6.0		9			
SR8	Cloudy	Moderate	09:19	4.2	Surface	1.0	-	-	25.4	25.4	8.2	8.2	31.7	31.7	89.6	89.6	6.1	6.2	14.8	16.4	10	11	820373	811622
						1.0	-	-	25.4		8.2		31.7		89.6		6.2		15.2		11			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.2	-	-	25.3	25.3	8.3	8.3	31.5	31.5	89.8	90.0	6.2	6.2	18.9		11			
						3.2	-	-	25.3		8.3		31.5		90.1		6.2		16.8		12			

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

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 26 October 21 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	15:34	8.6	Surface	1.0	0.1	191	25.7	25.7	8.2	8.2	32.9	32.9	94.1	94.1	6.4	6.4	4.6	6.7	8	10	815608	804257
						1.0	0.1	207	25.7		8.2		32.9		94.0		6.4		4.7		7			
					Middle	4.3	0.1	190	25.5	25.5	8.1	8.1	32.9	32.9	92.7	92.7	6.3		5.9		11			
						4.3	0.1	193	25.5		8.1		32.9		92.7		6.3		6.1		10			
					Bottom	7.6	0.1	182	25.5	25.5	8.1	8.1	32.9	32.9	92.5	92.5	6.3	6.3	9.5		11			
						7.6	0.1	183	25.5		8.1		32.9		92.5		6.3		9.4		10			
C2	Sunny	Moderate	14:27	11.7	Surface	1.0	0.2	115	25.3	25.3	8.1	8.1	32.0	32.0	100.8	100.8	6.9	6.9	5.6	7.9	9	8	825689	806960
						1.0	0.2	124	25.3		8.1		32.0		100.8		6.9		5.6		8			
					Middle	5.9	0.2	110	25.0	25.0	8.1	8.1	32.1	32.1	98.5	98.5	6.8		8.5		9			
						5.9	0.2	115	25.0		8.1		32.1		98.5		6.8		8.6		8			
					Bottom	10.7	0.1	130	24.9	24.9	8.1	8.1	32.5	32.5	98.3	98.3	6.8	6.8	9.6		7			
						10.7	0.1	137	24.9		8.1		32.5		98.2		6.8		9.7		8			
C3	Sunny	Moderate	17:01	11.6	Surface	1.0	0.2	124	26.1	26.1	8.1	8.1	33.1	33.1	91.6	91.5	6.2	6.1	4.4	4.9	6	6	822119	817793
						1.0	0.2	136	26.1		8.1		33.1		91.4		6.2		4.4		7			
					Middle	5.8	0.2	124	26.2	26.2	8.1	8.1	33.2	33.2	90.0	90.0	6.0		5.0		7			
						5.8	0.2	130	26.2		8.1		33.2		90.0		6.0		5.1		6			
					Bottom	10.6	0.2	116	26.2	26.2	8.1	8.1	33.2	33.2	90.4	90.4	6.1	6.1	5.4		6			
						10.6	0.2	127	26.2		8.1		33.2		90.4		6.1		5.3		5			
IM1	Fine	Moderate	15:14	5.1	Surface	1.0	0.1	224	25.9	25.9	8.1	8.1	32.8	32.8	100.1	100.1	6.8	6.8	2.7	4.6	12	9	817944	807115
						1.0	0.1	236	25.9		8.1		32.8		100.1		6.8		2.8		11			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	4.1	0.1	225	25.1	25.1	8.2	8.2	32.8	32.8	94.9	95.0	6.5	6.5	6.5		6			
						4.1	0.1	226	25.1		8.2		32.8		95.0		6.5		6.5		7			
IM2	Fine	Moderate	15:07	7.0	Surface	1.0	0.3	211	25.8	25.8	8.2	8.2	33.0	33.0	97.1	97.1	6.6	6.6	4.1	5.9	9	10	818142	806180
						1.0	0.3	224	25.7		8.2		33.0		97.1		6.6		4.1		9			
					Middle	3.5	0.3	212	25.2	25.2	8.2	8.2	32.9	32.9	95.9	95.9	6.5		5.2		10			
						3.5	0.3	212	25.2		8.2		32.9		95.9		6.6		5.4		10			
					Bottom	6.0	0.3	212	25.2	25.2	8.2	8.2	32.9	32.9	96.2	96.2	6.6	6.6	8.3		10			
						6.0	0.3	218	25.2		8.2		32.9		96.2		6.6		8.2		11			
IM3	Fine	Moderate	15:00	7.2	Surface	1.0	0.4	203	25.7	25.7	8.2	8.2	33.0	33.0	95.9	95.9	6.5	6.5	4.4	6.9	9	9	818763	805605
						1.0	0.4	220	25.7		8.2		33.0		95.8		6.5		4.5		8			
					Middle	3.6	0.5	210	25.4	25.4	8.2	8.2	33.0	33.0	93.9	93.9	6.4		6.0		9			
						3.6	0.6	221	25.4		8.2		33.0		93.8		6.4		6.2		10			
					Bottom	6.2	0.6	212	25.2	25.2	8.2	8.2	32.9	32.9	92.8	92.8	6.3	6.3	10.2		10			
						6.2	0.7	217	25.2		8.2		32.9		92.8		6.3		10.3		9			
IM4	Fine	Rough	14:50	8.9	Surface	1.0	0.3	249	25.4	25.4	8.1	8.1	33.0	33.0	94.4	94.4	6.4	6.4	6.8	8.2	11	13	819739	804619
						1.0	0.3	256	25.4		8.1		33.0		94.3		6.4		6.9		12			
					Middle	4.5	0.3	249	25.3	25.3	8.1	8.1	33.0	33.0	93.2	93.2	6.4		8.0		13			
						4.5	0.4	268	25.3		8.1		33.0		93.2		6.4		8.0		13			
					Bottom	7.9	0.3	249	25.3	25.3	8.1	8.1	33.0	33.0	93.0	93.1	6.4	6.4	9.8		14			
						7.9	0.4	272	25.3		8.1		33.0		93.1		6.4		9.9		13			
IM5	Fine	Moderate	14:43	8.4	Surface	1.0	0.2	226	25.6	25.6	8.1	8.1	32.9	32.9	96.2	96.2	6.5	6.5	4.1	5.7	3	4	820731	804883
						1.0	0.2	245	25.6		8.1		32.9		96.2		6.5		4.1		4			
					Middle	4.2	0.2	227	25.3	25.3	8.1	8.1	32.9	32.9	93.5	93.5	6.4		5.8		4			
						4.2	0.2	247	25.3		8.1		32.9		93.5		6.4		5.9		4			
					Bottom	7.4	0.2	225	25.2	25.2	8.1	8.1	32.9	32.9	92.7	92.8	6.3	6.3	7.0		4			
						7.4	0.2	227	25.2		8.1		32.9		92.8		6.3		7.0		4			
IM6	Fine	Moderate	14:35	7.6	Surface	1.0	0.1	277	25.4	25.4	8.1	8.1	31.4	31.4	97.0	97.0	6.7	6.6	1.7	2.7	3	3	821038	805831
						1.0	0.1	283	25.4		8.1		31.4		96.9		6.7		1.7		3			
					Middle	3.8	0.2	280	25.2	25.2	8.1	8.1	32.2	32.3	94.4	94.3	6.5		2.0		3			
						3.8	0.2	299	25.2		8.1		32.3		94.1		6.5		2.2		3			
					Bottom	6.6	0.2	280	25.2	25.2	8.1	8.1	32.8	32.8	92.5	92.6	6.3	6.3	4.3		2			
						6.6	0.2	282	25.2		8.1		32.8		92.6		6.3		4.3		3			
IM7	Fine	Moderate	14:24	9.0	Surface	1.0	0.8	52	25.3	25.3	8.1	8.1	31.3	31.4	95.8	95.8	6.6	6.6	1.9	3.1	8	8	821338	806820
						1.0	0.8	52	25.3		8.1		31.4		95.8		6.6		2.0		8			
					Middle	4.5	0.9	59	25.3	25.3	8.1	8.1	32.3	32.3	95.4	95.4	6.5		2.3		9			
						4.5	0.9	64	25.3		8.1		32.3		95.4		6.5		2.3		8			
					Bottom	8.0	0.9	67	25.3	25.3	8.1	8.1	32.8	32.8	93.6	93.6	6.4	6.4	5.1		9			
						8.0	0.9	70	25.3		8.1		32.8		93.6		6.4		5.3		8			
IM8	Sunny	Moderate	14:52	8.0	Surface	1.0	0.2	92	25.0	25.0	8.1	8.1	32.1	32.2	99.5	99.4	6.9	6.8	5.1	6.3	5	4	821844	808145
						1.0	0.2	92	25.0		8.1		32.2		99.3		6.8		5.3		4			
					Middle	4.0	0.2	97	24.9	24.9	8.1	8.1	32.5	32.5	98.8	98.8	6.8		6.0		4			
						4.0	0.2	100	24.9		8.1		32.5		98.8		6.8		6.1		4			
					Bottom	7.0	0.2	95	24.9	24.9	8.1	8.1	32.7	32.7	99.8	100.0	6.9	6.9	7.6		4			
						7.0	0.2	97	24.9		8.1		32.7		100.1		6.9		7.6		5			

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

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 26 October 21 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	Sunny	Moderate	14:57	7.4	Surface	1.0	0.3	82	25.3	25.3	8.1	8.1	31.7	31.7	102.6	102.5	7.1	7.0	4.0	4.1	5	5	822085	808805
						1.0	0.3	87	25.3		8.1		31.7		102.4		7.0		4.0		5			
					Middle	3.7	0.3	76	25.0	25.0	8.1	8.1	32.0	32.0	101.0	101.0	7.0		4.1		5			
						3.7	0.3	80	25.0		8.1		32.0		100.9		7.0		4.1		4			
					Bottom	6.4	0.2	87	24.9	24.9	8.1	8.1	32.6	32.5	101.4	101.5	7.0	7.0	4.3		5			
						6.4	0.2	95	24.9		8.1		32.5		101.5		7.0		4.3		4			
IM10	Sunny	Moderate	15:05	8.0	Surface	1.0	0.4	106	25.3	25.3	8.1	8.1	31.8	31.8	103.2	103.2	7.1	7.0	3.9	4.4	5	5	822383	809802
						1.0	0.5	111	25.3		8.1		31.8		103.1		7.1		3.9		4			
					Middle	4.0	0.3	100	25.3	25.3	8.1	8.1	32.4	32.5	101.7	100.0	7.0		4.5		6			
						4.0	0.3	108	25.3		8.1		32.5		98.3		6.7		4.5		5			
					Bottom	7.0	0.1	74	25.3	25.3	8.1	8.1	32.7	32.7	97.9	98.0	6.7	6.7	4.7		6			
						7.0	0.1	74	25.3		8.1		32.6		98.1		6.7		4.6		5			
IM11	Sunny	Moderate	15:15	8.5	Surface	1.0	0.2	53	25.7	25.7	8.1	8.1	32.9	32.9	99.7	99.6	6.8	6.8	4.6	4.8	4	4	822072	811437
						1.0	0.2	55	25.6		8.1		32.9		99.5		6.8		4.6		5			
					Middle	4.3	0.2	62	25.5	25.5	8.1	8.1	32.9	32.9	98.2	98.2	6.7		4.8		4			
						4.3	0.2	67	25.5		8.1		32.9		98.2		6.7		4.8		4			
					Bottom	7.5	0.2	74	25.4	25.4	8.1	8.1	32.9	32.9	99.2	99.3	6.8	6.8	4.9		3			
						7.5	0.2	80	25.4		8.1		32.9		99.3		6.8		5.0		4			
IM12	Sunny	Moderate	15:21	8.5	Surface	1.0	0.0	100	25.6	25.6	8.1	8.1	33.0	33.0	97.8	97.7	6.6	6.6	4.9	5.9	5	6	821447	812036
						1.0	0.0	101	25.6		8.1		33.0		97.5		6.6		5.0		6			
					Middle	4.3	0.0	132	25.3	25.3	8.1	8.1	32.9	32.9	96.9	97.0	6.6		6.1		5			
						4.3	0.0	143	25.3		8.1		33.0		97.0		6.6		6.2		6			
					Bottom	7.5	0.1	145	25.3	25.3	8.1	8.1	32.9	32.9	97.7	97.8	6.7	6.7	6.7		8			
						7.5	0.1	148	25.3		8.1		32.9		97.8		6.7		6.9		7			
SR1A	Sunny	Moderate	15:39	5.1	Surface	1.0	-	-	25.3	25.3	8.1	8.1	32.7	32.7	98.1	98.1	6.7	6.7	10.5	10.8	5	6	819982	812661
						1.0	-	-	25.3		8.1		32.7		98.1		6.7		10.6		6			
					Middle	2.6	-	-	-	-	-	-	-	-	-	-	-		-		-			
						2.6	-	-	-		-		-		-		-		-		-			
					Bottom	4.1	-	-	25.3	25.3	8.1	8.1	32.7	32.7	99.2	99.3	6.8	6.8	11.0		5			
						4.1	-	-	25.3		8.1		32.7		99.4		6.8		11.2		6			
SR2	Sunny	Moderate	16:40	4.3	Surface	1.0	0.1	71	25.4	25.4	8.1	8.1	32.9	32.9	98.1	98.2	6.7	6.7	5.6	5.7	6	5	821446	814187
						1.0	0.1	76	25.4		8.1		32.9		98.2		6.7		5.6		6			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.3	0.1	72	25.4	25.4	8.1	8.1	32.8	32.8	98.8	98.9	6.7	6.8	5.8		5			
						3.3	0.1	72	25.4		8.1		32.8		99.0		6.8		5.8		4			
SR3	Sunny	Moderate	14:46	9.0	Surface	1.0	0.2	58	25.2	25.2	8.1	8.1	32.1	32.2	101.5	101.5	7.0	7.0	5.2	7.1	6	5	822168	807565
						1.0	0.2	63	25.2		8.1		32.2		101.4		7.0		5.5		5			
					Middle	4.5	0.2	80	25.2	25.2	8.1	8.1	32.5	32.4	101.0	101.0	6.9		6.6		6			
						4.5	0.2	87	25.2		8.1		32.4		101.0		6.9		6.7		5			
					Bottom	8.0	0.2	62	25.1	25.1	8.1	8.1	33.1	33.1	100.6	100.7	6.9	6.9	9.5		5			
						8.0	0.2	67	25.1		8.1		33.1		100.8		6.9		9.3		4			
SR4A	Fine	Calm	15:53	9.7	Surface	1.0	0.5	116	25.6	25.6	8.2	8.2	32.9	32.9	99.6	99.6	6.8	6.7	3.8	4.7	9	9	817187	807807
						1.0	0.6	119	25.6		8.2		32.9		99.5		6.8		3.9		10			
					Middle	4.9	0.5	115	25.4	25.4	8.2	8.2	33.0	33.0	97.6	97.6	6.6		5.1		8			
						4.9	0.5	116	25.4		8.2		33.0		97.6		6.6		5.1		9			
					Bottom	8.7	0.6	135	25.4	25.4	8.2	8.2	33.0	33.0	97.5	97.5	6.6	6.6	5.3		9			
						8.7	0.6	144	25.4		8.2		33.0		97.5		6.6		5.3		8			
SR5A	Fine	Calm	16:09	3.5	Surface	1.0	0.0	327	25.8	25.8	8.1	8.1	32.4	32.4	101.7	101.7	6.9	6.9	4.9	5.0	10	11	816612	810677
						1.0	0.0	336	25.7		8.1		32.4		101.7		6.9		4.9		11			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	2.5	0.1	355	25.6	25.7	8.1	8.1	32.4	32.4	96.9	96.9	6.6	6.6	5.0		12			
						2.5	0.1	327	25.7		8.1		32.4		96.9		6.6		5.1		11			
SR6A	Fine	Calm	16:35	4.3	Surface	1.0	0.0	81	25.9	25.9	8.1	8.1	31.9	31.9	92.0	92.0	6.2	6.2	15.0	16.2	19	20	817974	814741
						1.0	0.0	85	25.9		8.1		31.9		92.0		6.2		15.1		18			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.3	0.1	53	25.8	25.8	8.1	8.1	32.0	32.0	91.7	91.8	6.2	6.2	17.3		20			
						3.3	0.1	54	25.8		8.1		32.0		91.8		6.2		17.6		21			
SR7	Sunny	Moderate	17:20	16.8	Surface	1.0	0.2	61	26.3	26.3	8.1	8.1	33.2	33.2	90.5	90.5	6.1	6.1	4.3	6.1	4	4	823649	823756
						1.0	0.2	64	26.3		8.1		33.2		90.4		6.1		4.3		4			
					Middle	8.4	0.2	82	26.2	26.2	8.1	8.1	33.2	33.2	89.6	89.6	6.0		6.7		4			
						8.4	0.2	82	26.2		8.1		33.2		89.6		6.0		6.9		4			
					Bottom	15.8	0.1	73	26.2	26.2	8.1	8.1	33.2	33.2	90.1	90.2	6.0	6.1	7.3		3			
						15.8	0.1	73	26.2		8.1		33.2		90.3		6.1		7.2		3			
SR8	Sunny	Moderate	15:30	4.5	Surface	1.0	-	-	25.6	25.6	8.1	8.1	32.8	32.8	100.2	100.1	6.8	6.8	6.7	8.6	4	3	820408	811619
						1.0	-	-	25.5		8.1		32.8		100.0		6.8		6.8		3			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.5	-	-	25.2	25.2	8.1	8.1	32.8	32.8	100.0	100.2	6.8	6.9	10.5		3			
						3.5	-	-	25.2		8.1		32.8		100.4		6.9		10.5		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 26 October 21 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	Fine	Rough	11:48	8.2	Surface	1.0	0.8	70	25.5	25.5	8.1	8.1	33.0	33.0	93.5	93.5	6.4	6.4	5.9	8.0	11	10	815613	804252
						1.0	0.8	71	25.5		8.1		33.0		93.5		6.4		5.9		11			
					Middle	4.1	0.7	65	25.4	25.4	8.1	8.1	33.0	33.0	93.3	93.3	6.3		7.6		11			
						4.1	0.7	67	25.4		8.1		33.0		93.3		6.3		7.7		10			
					Bottom	7.2	0.6	70	25.3	25.3	8.0	8.0	33.0	33.0	93.1	93.1	6.4	6.4	10.5		8			
						7.2	0.6	70	25.3		8.0		33.0		93.1		6.4		10.2		9			
C2	Cloudy	Moderate	12:32	12.0	Surface	1.0	0.3	353	25.3	25.3	8.0	8.0	31.7	31.8	98.6	98.5	6.8	6.7	4.1	5.4	5	4	825660	806950
						1.0	0.3	325	25.3		8.0		31.8		98.4		6.8		4.1		4			
					Middle	6.0	0.3	353	25.2	25.2	8.0	8.0	31.9	31.9	96.7	96.7	6.6		4.2		4			
						6.0	0.3	325	25.2		8.0		31.9		96.6		6.6		4.2		5			
					Bottom	11.0	0.2	343	25.2	25.2	8.0	8.0	32.2	32.2	94.4	94.5	6.5	6.5	7.9		3			
						11.0	0.2	359	25.2		8.0		32.2		94.5		6.5		7.8		4			
C3	Cloudy	Moderate	10:28	12.1	Surface	1.0	0.3	273	25.5	25.5	8.0	8.0	32.9	32.9	94.3	94.3	6.4	6.4	4.7	7.8	5	5	822102	817806
						1.0	0.3	288	25.5		8.0		32.9		94.2		6.4		4.7		4			
					Middle	6.1	0.3	281	25.5	25.5	8.0	8.0	33.0	32.9	94.0	94.1	6.4		5.5		4			
						6.1	0.3	306	25.5		8.0		32.9		94.1		6.4		5.7		5			
					Bottom	11.1	0.2	284	25.5	25.5	8.0	8.0	32.9	32.9	94.7	94.8	6.4	6.5	13.1		5			
						11.1	0.2	304	25.5		8.1		32.9		94.8		6.5		13.2		5			
IM1	Fine	Moderate	12:07	5.1	Surface	1.0	0.1	42	25.4	25.4	8.1	8.1	32.8	32.8	95.0	95.0	6.5	6.5	4.3	6.4	10	10	817964	807112
						1.0	0.1	45	25.4		8.1		32.8		95.0		6.5		4.3		10			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	4.1	0.0	343	25.0	25.0	8.1	8.1	32.8	32.8	94.1	94.1	6.5	6.5	8.4		10			
						4.1	0.0	359	25.0		8.1		32.8		94.1		6.5		8.5		9			
IM2	Fine	Rough	12:15	6.9	Surface	1.0	0.2	42	25.2	25.2	8.1	8.1	32.9	32.9	95.5	95.5	6.5	6.5	5.1	6.7	10	11	818172	806182
						1.0	0.2	45	25.2		8.1		32.9		95.5		6.5		5.1		9			
					Middle	3.5	0.2	44	25.1	25.1	8.1	8.1	32.9	32.9	95.1	95.1	6.5		5.9		10			
						3.5	0.2	46	25.1		8.1		32.9		95.1		6.5		5.9		11			
					Bottom	5.9	0.2	50	25.0	25.0	8.1	8.1	32.9	32.9	95.0	95.1	6.5	6.5	8.9		11			
						5.9	0.2	54	25.0		8.1		32.9		95.1		6.5		9.1		12			
IM3	Fine	Rough	12:22	7.1	Surface	1.0	0.1	243	25.3	25.3	8.0	8.0	32.9	32.9	93.9	93.9	6.4	6.4	5.5	9.4	10	10	818762	805588
						1.0	0.1	252	25.3		8.0		32.9		93.9		6.4		5.5		11			
					Middle	3.6	0.1	296	25.1	25.1	8.0	8.0	32.9	32.9	92.3	92.3	6.3		9.4		10			
						3.6	0.1	317	25.1		8.0		32.9		92.3		6.3		9.4		10			
					Bottom	6.1	0.1	297	25.1	25.1	8.0	8.0	33.0	33.0	92.8	92.9	6.4	6.4	13.6		10			
						6.1	0.1	303	25.1		8.0		33.0		92.9		6.4		13.3		10			
IM4	Fine	Rough	12:31	8.9	Surface	1.0	0.7	301	25.2	25.2	8.1	8.1	32.8	32.8	95.5	95.5	6.5	6.5	6.1	8.1	12	12	819703	804593
						1.0	0.7	311	25.2		8.1		32.8		95.5		6.5		6.1		11			
					Middle	4.5	0.7	299	25.1	25.1	8.1	8.1	32.8	32.8	93.6	93.6	6.4		8.0		12			
						4.5	0.8	316	25.1		8.1		32.8		93.6		6.4		8.0		12			
					Bottom	7.9	0.3	290	25.1	25.1	8.1	8.1	32.8	32.8	93.6	93.7	6.4	6.4	10.3		12			
						7.9	0.3	293	25.1		8.1		32.8		93.7		6.4		10.3		12			
IM5	Fine	Rough	12:38	8.2	Surface	1.0	0.3	347	25.3	25.3	8.1	8.1	32.7	32.7	96.5	96.5	6.6	6.6	4.9	5.8	11	11	820722	804873
						1.0	0.3	319	25.3		8.1		32.7		96.5		6.6		4.9		12			
					Middle	4.1	0.4	60	25.2	25.2	8.1	8.1	32.8	32.8	94.8	94.8	6.5		5.6		11			
						4.1	0.5	63	25.2		8.1		32.8		94.8		6.5		5.7		12			
					Bottom	7.2	0.7	64	25.2	25.2	8.1	8.1	32.8	32.8	94.8	94.8	6.5	6.5	7.1		11			
						7.2	0.7	69	25.2		8.1		32.8		94.8		6.5		7.0		10			
IM6	Fine	Rough	12:45	7.6	Surface	1.0	0.7	71	25.4	25.4	8.1	8.1	31.5	31.5	95.1	95.1	6.5	6.4	1.2	3.2	4	6	821057	805814
						1.0	0.7	75	25.3		8.1		31.6		95.0		6.5		1.2		5			
					Middle	3.8	0.3	74	25.2	25.2	8.1	8.1	32.4	32.4	92.6	92.5	6.3		2.9		7			
						3.8	0.4	76	25.2		8.1		32.4		92.3		6.3		3.0		6			
					Bottom	6.6	0.3	103	25.1	25.1	8.1	8.1	32.8	32.8	90.3	90.4	6.2	6.2	5.4		7			
						6.6	0.3	106	25.1		8.1		32.8		90.4		6.2		5.4		7			
IM7	Fine	Moderate	12:52	8.8	Surface	1.0	0.3	203	25.2	25.2	8.1	8.1	31.3	31.3	93.4	93.4	6.4	6.4	1.8	2.6	7	5	821342	806817
						1.0	0.3	222	25.2		8.1		31.3		93.3		6.4		1.8		6			
					Middle	4.4	0.3	195	25.0	25.0	8.1	8.1	31.5	31.5	91.0	91.0	6.3		1.3		5			
						4.4	0.3	201	25.0		8.1		31.5		91.0		6.3		1.4		4			
					Bottom	7.8	0.3	193	24.9	24.9	8.1	8.1	32.3	32.3	89.6	89.6	6.2	6.2	4.5		4			
						7.8	0.3	197	24.9		8.1		32.3		89.6		6.2		4.6		3			
IM8	Cloudy	Moderate	12:06	7.6	Surface	1.0	0.1	81	25.2	25.2	8.0	8.0	31.6	31.6	100.7	100.7	6.9	6.9	4.0	4.2	6	5	821825	808152
						1.0	0.1	82	25.1		8.0		31.6		100.7		6.9		4.0		5			
					Middle	3.8	0.1	58	25.0	25.0	8.1	8.1	32.0	32.0	100.7	100.7	6.9		4.3		5			
						3.8	0.2	62	25.0		8.1		32.0		100.7		6.9		4.3		6			
					Bottom	6.6	0.1	299	24.8	24.8	8.1	8.0	32.6	32.6	100.9	101.0	7.0	7.0	4.5		4			
						6.6	0.1	321	24.8		8.0		32.5		101.1		7.0		4.5		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 26 October 21 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	Cloudy	Moderate	11:58	7.6	Surface	1.0	0.2	105	25.0	25.0	8.1	8.1	32.6	32.6	100.8	100.8	6.9	6.9	4.6	5.0	4	5	822113	808789
						1.0	0.2	112	25.0		8.1		32.6		100.8		6.9		4.6		5			
					Middle	3.8	0.2	77	24.9	24.9	8.1	8.1	32.7	32.7	100.2	100.2	6.9		5.1		5			
						3.8	0.2	80	24.8		8.1		32.7		100.2		6.9		5.1		5			
					Bottom	6.6	0.2	93	24.8	24.8	8.1	8.1	32.7	32.7	100.5	100.6	6.9	6.9	5.2		5			
						6.6	0.2	102	24.8		8.1		32.7		100.6		6.9		5.1		6			
IM10	Cloudy	Moderate	11:51	7.7	Surface	1.0	0.4	299	25.0	25.0	8.1	8.1	32.8	32.8	98.0	98.0	6.7	6.7	6.3	6.5	8	7	822403	809775
						1.0	0.4	324	25.0		8.1		32.8		97.9		6.7		6.3		7			
					Middle	3.9	0.4	302	25.0	25.0	8.1	8.1	32.8	32.8	97.8	97.8	6.7		6.6		7			
						3.9	0.5	320	25.0		8.1		32.8		97.7		6.7		6.6		8			
					Bottom	6.7	0.3	302	24.9	24.9	8.1	8.1	32.8	32.8	98.0	98.1	6.7	6.7	6.5		6			
						6.7	0.3	308	24.9		8.1		32.8		98.1		6.7		6.6		6			
IM11	Cloudy	Moderate	11:42	7.9	Surface	1.0	0.4	291	25.4	25.4	8.1	8.1	32.9	32.9	96.1	96.2	6.6	6.6	8.1	9.6	12	11	822041	811436
						1.0	0.4	316	25.4		8.1		32.9		96.2		6.6		8.3		11			
					Middle	4.0	0.4	285	25.3	25.3	8.1	8.1	32.9	32.9	96.2	96.3	6.6		10.2		11			
						4.0	0.4	312	25.3		8.1		32.9		96.3		6.6		10.3		12			
					Bottom	6.9	0.3	293	25.3	25.3	8.1	8.1	32.9	32.9	96.4	96.5	6.6	6.6	10.4		10			
						6.9	0.3	318	25.3		8.1		32.9		96.5		6.6		10.4		11			
IM12	Cloudy	Moderate	11:36	9.2	Surface	1.0	0.5	278	25.4	25.4	8.1	8.1	32.9	32.9	96.5	96.5	6.6	6.6	6.7	9.7	9	9	821447	812046
						1.0	0.5	297	25.4		8.1		32.9		96.5		6.6		6.7		8			
					Middle	4.6	0.5	279	25.3	25.3	8.1	8.1	32.9	32.9	95.8	95.8	6.5		9.8		9			
						4.6	0.5	302	25.3		8.1		32.9		95.8		6.5		9.9		8			
					Bottom	8.2	0.4	279	25.3	25.3	8.1	8.1	32.9	32.9	96.5	96.6	6.6	6.6	12.5		9			
						8.2	0.5	294	25.3		8.1		32.9		96.6		6.6		12.6		8			
SR1A	Cloudy	Moderate	11:05	5.4	Surface	1.0	-	-	25.1	25.1	8.0	8.0	32.6	32.6	94.0	94.0	6.4	6.4	8.8	9.8	7	7	819973	812662
						1.0	-	-	25.1		8.0		32.6		94.0		6.4		9.2		8			
					Middle	2.7	-	-	-	-	-	-	-	-	-	-	-		-		-			
						2.7	-	-	-		-		-		-		-		-		-			
					Bottom	4.4	-	-	25.1	25.1	8.0	8.0	32.6	32.6	94.1	95.5	6.5	6.6	10.6		7			
						4.4	-	-	25.1		8.0		32.6		96.8		6.6		10.4		6			
SR2	Cloudy	Moderate	10:49	4.6	Surface	1.0	0.1	47	25.4	25.4	8.1	8.1	32.9	32.9	94.9	94.9	6.5	6.5	8.0	8.9	10	9	821472	814166
						1.0	0.2	47	25.4		8.1		32.9		94.9		6.5		7.9		10			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.6	0.2	43	25.3	25.3	8.1	8.1	32.9	32.9	95.8	95.9	6.5	6.5	9.9		7			
						3.6	0.2	45	25.3		8.1		32.9		95.9		6.5		9.9		8			
SR3	Cloudy	Moderate	12:12	8.9	Surface	1.0	0.1	54	25.0	25.0	8.0	8.0	31.8	31.8	98.6	98.6	6.8	6.8	4.8	8.0	3	3	822123	807555
						1.0	0.1	58	25.0		8.0		31.9		98.5		6.8		5.0		3			
					Middle	4.5	0.1	68	24.8	24.8	8.1	8.1	32.2	32.2	98.3	98.3	6.8		6.5		3			
						4.5	0.1	74	24.8		8.1		32.2		98.3		6.8		6.6		4			
					Bottom	7.9	0.0	224	24.8	24.8	8.1	8.1	32.4	32.4	99.0	99.2	6.8	6.9	12.0		3			
						7.9	0.0	228	24.8		8.1		32.4		99.3		6.9		12.8		4			
SR4A	Fine	Calm	11:28	8.8	Surface	1.0	0.2	42	25.2	25.2	8.1	8.1	32.5	32.5	91.7	91.7	6.3	6.3	3.7	4.1	8	8	817192	807826
						1.0	0.2	45	25.2		8.1		32.5		91.6		6.3		3.8		7			
					Middle	4.4	0.2	50	25.0	25.0	8.1	8.1	32.5	32.5	90.7	90.7	6.2		3.8		7			
						4.4	0.2	51	25.0		8.1		32.5		90.6		6.2		3.9		8			
					Bottom	7.8	0.2	72	25.0	25.0	8.1	8.1	32.5	32.5	90.6	90.7	6.2	6.2	4.8		8			
						7.8	0.2	78	25.0		8.1		32.5		90.8		6.2		4.7		7			
SR5A	Fine	Calm	11:11	3.8	Surface	1.0	0.2	248	25.1	25.1	8.1	8.1	32.3	32.3	92.2	92.2	6.3	6.3	3.3	3.8	8	8	816608	810677
						1.0	0.2	264	25.1		8.1		32.3		92.2		6.3		3.4		7			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	2.8	0.1	253	25.1	25.1	8.0	8.0	32.3	32.3	92.4	92.4	6.4	6.4	4.3		8			
						2.8	0.1	259	25.1		8.0		32.3		92.4		6.4		4.3		7			
SR6A	Fine	Moderate	10:39	4.0	Surface	1.0	0.0	214	25.6	25.6	8.1	8.1	32.1	32.1	88.3	88.3	6.0	6.0	3.7	5.0	8	8	818074	814713
						1.0	0.0	228	25.6		8.1		32.2		88.3		6.0		3.7		9			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.0	0.0	226	25.6	25.6	8.1	8.1	32.2	32.2	86.2	86.2	5.9	5.9	6.2		6			
						3.0	0.0	226	25.6		8.1		32.2		86.2		5.9		6.3		7			
SR7	Cloudy	Moderate	09:58	16.9	Surface	1.0	0.2	181	26.1	26.1	8.0	8.0	33.1	33.1	88.8	88.8	6.0	6.0	6.4	7.2	5	7	823619	823760
						1.0	0.2	196	26.1		8.0		33.2		88.8		6.0		6.5		6			
					Middle	8.5	0.2	212	26.1	26.1	8.0	8.0	33.1	33.1	88.6	88.6	6.0		7.3		7			
						8.5	0.2	221	26.1		8.0		33.1		88.6		6.0		7.4		7			
					Bottom	15.9	0.2	200	26.1	26.1	8.0	8.0	33.1	33.1	88.0	88.1	5.9	5.9	7.6		8			
						15.9	0.2	213	26.1		8.0		33.1		88.1		5.9		7.7		7			
SR8	Cloudy	Moderate	11:28	4.3	Surface	1.0	-	-	25.5	25.5	8.1	8.1	32.4	32.5	101.0	101.0	6.9	6.9	6.0	5.9	12	12	820380	811643
						1.0	-	-	25.4		8.1		32.5		101.0		6.9		6.1		13			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.3	-	-	25.0	25.1	8.1	8.1	32.8	32.8	101.1	101.2	6.9	6.9	5.7		10			
						3.3	-	-	25.1		8.1		32.8		101.3		6.9		5.9		11			

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

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 28 October 21 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	05:58	6.0	Surface	1.0	0.3	214	25.2	25.2	8.2	8.2	33.6	33.6	92.9	92.9	6.3	6.4	4.3	5.3	10	9	815608	804242
						1.0	0.3	227	25.2		8.2		33.6		92.9		6.3		4.4		9			
					Middle	3.0	0.3	218	25.2	25.2	8.2	8.2	33.6	33.6	93.5	93.6	6.4		5.3		8			
						3.0	0.3	225	25.2		8.2		33.7		93.6		6.4		5.2		9			
					Bottom	5.0	0.3	206	25.0	25.0	8.1	8.1	33.8	33.8	94.0	94.0	6.4	6.4	6.2		9			
						5.0	0.3	218	25.0		8.1		33.8		94.0		6.4		6.2		8			
C2	Fine	Rough	06:20	9.6	Surface	1.0	0.3	165	25.5	25.5	8.1	8.1	30.6	30.6	92.0	92.0	6.3	6.3	2.8	3.4	5	4	825671	806961
						1.0	0.3	177	25.5		8.1		30.6		92.0		6.3		2.9		4			
					Middle	4.8	0.1	210	25.3	25.3	8.1	8.1	30.9	30.9	90.6	90.6	6.2		4.0		4			
						4.8	0.1	218	25.3		8.1		30.9		90.6		6.2		4.0		5			
					Bottom	8.6	0.1	161	25.3	25.3	8.0	8.0	31.3	31.3	89.7	89.7	6.2	6.2	3.2		3			
						8.6	0.2	165	25.3		8.0		31.3		89.7		6.2		3.2		4			
C3	Fine	Rough	04:18	10.5	Surface	1.0	0.4	67	25.6	25.6	8.0	8.0	32.1	32.1	89.5	89.5	6.1	6.1	1.1	1.5	5	5	822113	817802
						1.0	0.4	71	25.6		8.0		32.1		89.5		6.1		1.1		4			
					Middle	5.3	0.3	88	25.6	25.6	8.0	8.0	32.2	32.2	88.8	88.8	6.1		1.2		4			
						5.3	0.3	96	25.6		8.0		32.2		88.7		6.1		1.3		5			
					Bottom	9.5	0.3	43	25.6	25.6	8.0	7.9	32.2	32.2	88.5	88.5	6.0	6.0	2.1		4			
						9.5	0.3	45	25.6		7.9		32.2		88.5		6.0		2.1		5			
IM1	Fine	Calm	06:10	5.2	Surface	1.0	0.1	182	25.3	25.3	8.2	8.2	33.5	33.5	91.7	91.7	6.2	6.2	7.3	7.8	10	9	817971	807150
						1.0	0.1	182	25.3		8.2		33.5		91.7		6.2		7.4		9			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	4.2	0.1	273	25.3	25.3	8.2	8.2	33.6	33.5	92.4	92.6	6.3	6.3	8.2		8			
						4.2	0.1	294	25.3		8.2		33.5		92.8		6.3		8.3		8			
IM2	Fine	Calm	06:16	6.0	Surface	1.0	0.2	172	25.2	25.2	8.2	8.2	33.4	33.4	92.9	92.9	6.3	6.3	7.6	8.3	8	8	818150	806172
						1.0	0.2	185	25.2		8.2		33.4		92.9		6.3		7.5		7			
					Middle	3.0	0.1	171	25.2	25.2	8.2	8.2	33.4	33.4	92.9	93.0	6.3		8.2		8			
						3.0	0.1	171	25.2		8.2		33.4		93.0		6.3		8.2		7			
					Bottom	5.0	0.1	141	25.0	25.0	8.2	8.2	33.5	33.5	95.1	95.2	6.5	6.5	9.1		9			
						5.0	0.1	152	24.9		8.2		33.6		95.2		6.5		9.1		9			
IM3	Fine	Calm	06:23	6.2	Surface	1.0	0.4	132	25.2	25.2	8.2	8.2	33.6	33.6	91.7	91.7	6.2	6.2	6.0	7.3	5	6	818792	805570
						1.0	0.4	140	25.2		8.2		33.6		91.7		6.2		6.0		4			
					Middle	3.1	0.3	133	25.2	25.2	8.2	8.2	33.6	33.6	91.3	91.3	6.2		7.1		6			
						3.1	0.3	144	25.2		8.2		33.6		91.3		6.2		7.2		6			
					Bottom	5.2	0.2	105	25.2	25.2	8.2	8.2	33.6	33.6	91.3	91.3	6.2	6.2	8.7		7			
						5.2	0.2	106	25.2		8.2		33.6		91.3		6.2		8.7		6			
IM4	Fine	Calm	06:31	7.8	Surface	1.0	0.7	182	25.2	25.2	8.2	8.2	33.5	33.5	96.5	96.5	6.6	6.6	4.0	4.1	4	5	819701	804622
						1.0	0.7	190	25.2		8.2		33.5		96.5		6.6		4.0		5			
					Middle	3.9	0.6	179	25.2	25.2	8.2	8.2	33.5	33.5	96.5	96.5	6.6		4.1		5			
						3.9	0.7	195	25.2		8.2		33.5		96.5		6.6		4.1		4			
					Bottom	6.8	0.6	180	25.0	25.0	8.2	8.2	33.7	33.7	97.3	97.3	6.6	6.7	4.2		6			
						6.8	0.6	193	24.9		8.2		33.7		97.3		6.7		4.2		5			
IM5	Fine	Calm	06:39	7.6	Surface	1.0	0.7	202	25.1	25.1	8.2	8.2	32.5	32.5	94.3	94.3	6.5	6.5	2.4	3.4	8	7	820731	804875
						1.0	0.8	212	25.1		8.2		32.5		94.3		6.5		2.4		9			
					Middle	3.8	0.6	204	25.1	25.1	8.2	8.2	32.5	32.5	94.3	94.4	6.5		3.4		7			
						3.8	0.6	215	25.1		8.2		32.5		94.4		6.5		3.4		6			
					Bottom	6.6	0.5	208	25.1	25.1	8.2	8.2	32.4	32.5	95.7	95.9	6.6	6.6	4.4		6			
						6.6	0.5	220	25.0		8.2		32.5		96.0		6.6		4.4		5			
IM6	Fine	Calm	06:47	6.4	Surface	1.0	0.5	229	25.3	25.3	8.2	8.2	32.5	32.5	94.1	94.1	6.4	6.5	3.9	4.6	8	7	821043	805812
						1.0	0.6	242	25.3		8.2		32.5		94.1		6.4		4.0		7			
					Middle	3.2	0.5	230	25.3	25.3	8.2	8.2	32.5	32.5	94.3	94.4	6.5		4.3		7			
						3.2	0.5	235	25.3		8.2		32.5		94.4		6.5		4.3		6			
					Bottom	5.4	0.4	231	25.3	25.3	8.1	8.1	32.5	32.5	95.2	95.4	6.5	6.5	5.6		5			
						5.4	0.4	236	25.3		8.1		32.5		95.5		6.5		5.6		6			
IM7	Fine	Calm	06:53	7.1	Surface	1.0	0.4	238	25.3	25.3	8.1	8.1	32.5	32.5	95.0	95.1	6.5	6.6	1.7	2.8	8	7	821344	806826
						1.0	0.4	257	25.3		8.1		32.5		95.1		6.5		1.8		9			
					Middle	3.6	0.3	254	25.3	25.3	8.1	8.1	32.5	32.5	96.1	96.3	6.6		2.9		7			
						3.6	0.3	257	25.3		8.1		32.5		96.4		6.6		2.8		8			
					Bottom	6.1	0.2	256	25.0	25.0	8.1	8.1	32.7	32.8	97.5	97.6	6.7	6.7	3.7		6			
						6.1	0.3	276	24.9		8.1		32.8		97.7		6.7		3.8		6			
IM8	Fine	Rough	05:53	7.1	Surface	1.0	0.1	122	25.6	25.6	8.0	8.0	31.5	31.5	93.8	93.8	6.4	6.4	3.8	4.6	4	3	821848	808123
						1.0	0.1	124	25.6		8.0		31.5		93.8		6.4		3.9		3			
					Middle	3.6	0.1	89	25.6	25.6	8.0	8.0	31.6	31.6	93.3	93.3	6.4		4.3		3			
						3.6	0.1	95	25.6		8.0		31.6		93.3		6.4		4.3		3			
					Bottom	6.1	0.2	43	25.5	25.5	8.0	8.0	31.6	31.6	92.6	92.6	6.3	6.3	5.6		3			
						6.1	0.2	43	25.5		8.0		31.6		92.6		6.3		5.6		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**

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Water Quality Monitoring
Water Quality Monitoring Results on 28 October 21 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	Rough	05:48	7.2	Surface	1.0	0.3	100	25.6	25.6	8.0	8.0	31.6	31.6	93.2	93.2	6.4	6.4	3.9	4.0	4	3	822074	808790
						1.0	0.4	101	25.6		8.0		31.6		93.2		6.4		4.0		3			
					Middle	3.6	0.3	132	25.6	25.6	8.0	8.0	31.6	31.6	93.0	93.0	6.4		3.3		3			
						3.6	0.3	145	25.6		8.0		31.6		92.9		6.4		3.3		4			
					Bottom	6.2	0.3	126	25.5	25.5	8.0	8.0	31.6	31.6	92.7	92.7	6.3	6.3	4.8		3			
						6.2	0.4	127	25.5		8.0		31.6		92.7		6.3		4.9		3			
IM10	Fine	Rough	05:41	7.3	Surface	1.0	0.6	122	25.5	25.5	8.0	8.0	31.7	31.7	93.0	93.1	6.4	6.4	3.2	5.1	4	3	822406	809805
						1.0	0.6	132	25.5		8.0		31.7		93.1		6.4		3.2		4			
					Middle	3.7	0.6	146	25.4	25.4	8.0	8.0	31.7	31.7	92.1	92.1	6.3		5.8		3			
						3.7	0.6	159	25.4		8.0		31.7		92.1		6.3		5.8		3			
					Bottom	6.3	0.4	122	25.4	25.4	8.0	7.9	31.7	31.7	91.7	91.7	6.3	6.3	6.3		3			
						6.3	0.4	128	25.4		7.9		31.7		91.7		6.3		6.3		3			
IM11	Fine	Rough	05:31	7.6	Surface	1.0	0.5	116	25.3	25.3	8.1	8.1	31.4	31.4	95.3	95.3	6.6	6.5	2.6	3.5	4	3	822064	811459
						1.0	0.5	122	25.3		8.1		31.4		95.2		6.6		2.7		3			
					Middle	3.8	0.5	100	25.3	25.3	8.1	8.1	31.5	31.5	93.2	93.2	6.4		3.2		4			
						3.8	0.6	105	25.3		8.1		31.5		93.1		6.4		3.2		3			
					Bottom	6.6	0.2	115	25.3	25.3	8.0	8.0	31.7	31.7	92.2	92.2	6.3	6.3	4.5		3			
						6.6	0.3	124	25.3		8.0		31.7		92.2		6.3		4.6		2			
IM12	Fine	Rough	05:25	8.5	Surface	1.0	0.5	106	25.3	25.3	8.1	8.1	31.7	31.7	92.9	92.9	6.4	6.4	1.5	2.7	4	4	821438	812047
						1.0	0.5	108	25.3		8.1		31.7		92.8		6.4		1.5		3			
					Middle	4.3	0.5	99	25.4	25.4	8.0	8.0	31.9	31.9	91.4	91.4	6.3		2.2		3			
						4.3	0.5	104	25.4		8.0		31.9		91.4		6.3		2.1		4			
					Bottom	7.5	0.2	101	25.4	25.4	8.0	8.0	32.0	32.0	91.0	91.1	6.2	6.2	4.5		3			
						7.5	0.3	105	25.4		8.0		32.0		91.1		6.2		4.4		4			
SR1A	Fine	Moderate	04:56	3.7	Surface	1.0	-	-	25.3	25.3	8.0	8.0	31.8	31.8	91.8	91.8	6.3	6.3	2.5	1.8	3	3	819974	812658
						1.0	-	-	25.3		8.0		31.8		91.8		6.3		2.6		3			
					Middle	1.9	-	-	-	-	-	-	-	-	-	-	-		-		-			
						1.9	-	-	-		-		-		-		-		-		-			
					Bottom	2.7	-	-	25.3	25.3	7.9	7.9	31.8	31.8	91.4	91.4	6.3	6.3	1.0		3			
						2.7	-	-	25.3		7.9		31.8		91.4		6.3		1.0		2			
SR2	Fine	Moderate	04:41	4.1	Surface	1.0	0.4	66	25.4	25.4	8.0	8.0	32.0	32.0	91.3	91.3	6.3	6.3	1.9	2.4	3	4	821441	814173
						1.0	0.4	70	25.4		8.0		32.0		91.3		6.2		1.9		4			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.1	0.2	76	25.4	25.4	7.9	7.9	32.1	32.1	90.2	90.2	6.2	6.2	3.0		4			
						3.1	0.3	77	25.4		7.9		32.1		90.2		6.2		3.0		4			
SR3	Fine	Rough	05:59	8.4	Surface	1.0	0.2	204	25.7	25.7	8.0	8.0	31.3	31.3	92.7	92.7	6.3	6.3	2.9	3.8	3	2	822135	807586
						1.0	0.3	222	25.7		8.0		31.3		92.7		6.3		3.0		3			
					Middle	4.2	0.2	197	25.5	25.5	8.0	8.0	31.6	31.6	91.6	91.6	6.3		4.9		2			
						4.2	0.2	201	25.5		8.0		31.6		91.6		6.3		5.0		2			
					Bottom	7.4	0.1	37	25.5	25.5	8.0	8.0	31.7	31.7	91.1	91.1	6.2	6.2	3.6		2			
						7.4	0.2	37	25.5		8.0		31.7		91.1		6.2		3.6		2			
SR4A	Fine	Calm	05:42	8.6	Surface	1.0	0.2	73	25.3	25.3	8.2	8.2	33.2	33.2	92.4	92.4	6.3	6.3	7.7	8.7	8	8	817182	807804
						1.0	0.2	77	25.3		8.2		33.2		92.4		6.3		7.8		7			
					Middle	4.3	0.2	60	25.2	25.2	8.2	8.2	33.2	33.2	92.5	92.5	6.3		8.8		8			
						4.3	0.2	60	25.2		8.2		33.2		92.5		6.3		8.9		7			
					Bottom	7.6	0.2	64	25.2	25.2	8.1	8.1	33.3	33.3	93.1	93.1	6.4	6.4	9.4		9			
						7.6	0.2	66	25.1		8.1		33.3		93.1		6.4		9.5		8			
SR5A	Fine	Calm	05:27	4.2	Surface	1.0	0.1	355	25.3	25.3	8.1	8.1	33.3	33.3	93.2	93.2	6.3	6.3	5.7	6.2	4	4	816574	810688
						1.0	0.1	327	25.3		8.1		33.3		93.2		6.3		5.7		3			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.2	0.1	345	25.3	25.3	8.1	8.1	33.3	33.3	93.4	93.4	6.4	6.4	6.7		4			
						3.2	0.1	317	25.3		8.1		33.3		93.4		6.4		6.8		4			
SR6A	Fine	Calm	04:59	4.0	Surface	1.0	0.1	90	25.6	25.6	8.2	8.2	33.1	33.1	89.7	89.9	6.1	6.1	3.4	4.1	4	4	817976	814748
						1.0	0.1	90	25.6		8.2		33.2		90.0		6.1		3.5		4			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.0	0.1	87	25.5	25.5	8.2	8.2	33.3	33.3	90.9	91.0	6.2	6.2	4.7		3			
						3.0	0.1	91	25.5		8.2		33.3		91.0		6.2		4.8		4			
SR7	Fine	Moderate	03:40	17.6	Surface	1.0	0.9	70	26.3	26.3	8.1	8.1	32.7	32.7	82.0	82.0	5.5	5.5	2.6	2.5	4	4	823613	823730
						1.0	1.0	73	26.3		8.1		32.7		82.0		5.5		2.6		4			
					Middle	8.8	0.7	87	26.3	26.3	8.1	8.1	32.7	32.7	81.9	81.9	5.5		2.3		5			
						8.8	0.7	87	26.3		8.1		32.7		81.9		5.5		2.3		4			
					Bottom	16.6	0.4	53	26.3	26.3	8.0	8.0	32.7	32.7	82.0	82.0	5.5	5.5	2.6		5			
						16.6	0.4	56	26.3		8.0		32.7		82.0		5.5		2.7		4			
SR8	Fine	Moderate	05:17	4.1	Surface	1.0	-	-	26.1	26.1	8.0	8.0	31.5	31.5	91.4	91.5	6.2	6.2	1.5	2.5	4	5	820399	811619
						1.0	-	-	26.1		8.0		31.5		91.5		6.2		1.5		3			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.1	-	-	25.7	25.7	8.0	8.0	31.7	31.7	90.8	90.9	6.2	6.2	3.4		5			
						3.1	-	-	25.7		8.0		31.7		90.9		6.2		3.5		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 28 October 21 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	Fine	Calm	16:59	6.0	Surface	1.0	0.3	84	25.4	25.4	8.2	8.2	33.6	33.6	94.9	95.0	6.4	6.5	7.0	7.5	3	2	815623	804270
						1.0	0.3	89	25.4		8.2		33.6		95.1		6.5		7.0		2			
					Middle	3.0	0.2	59	25.4	25.4	8.2	8.2	33.6	33.6	95.9	96.0	6.5		7.4		2			
						3.0	0.2	61	25.4		8.2		33.6		96.1		6.5		7.4		2			
					Bottom	5.0	0.3	31	25.4	25.4	8.2	8.2	33.7	33.6	96.9	97.0	6.6	6.6	8.1		<2			
						5.0	0.3	34	25.4		8.2		33.6		97.1		6.6		8.1		<2			
C2	Cloudy	Rough	15:54	9.2	Surface	1.0	0.5	344	25.6	25.6	8.3	8.3	30.6	30.6	96.4	96.4	6.6	6.6	2.0	2.7	2	2	825694	806952
						1.0	0.5	316	25.6		8.3		30.6		96.3		6.6		2.0		2			
					Middle	4.6	0.6	321	25.6	25.6	8.3	8.3	30.9	30.9	95.3	95.3	6.5		2.4		2			
						4.6	0.6	349	25.6		8.3		30.9		95.2		6.5		2.4		2			
					Bottom	8.2	0.4	333	25.6	25.6	8.2	8.2	31.5	31.5	92.0	92.0	6.3	6.3	3.7		3			
						8.2	0.4	349	25.6		8.2		31.5		92.0		6.3		3.8		2			
C3	Fine	Rough	17:49	11.1	Surface	1.0	0.6	280	26.3	26.3	8.1	8.1	32.7	32.7	81.0	81.0	5.4	5.4	2.0	3.4	3	3	822127	817788
						1.0	0.6	306	26.3		8.1		32.7		81.0		5.4		2.0		3			
					Middle	5.6	0.5	286	26.3	26.3	8.0	8.0	32.7	32.7	80.2	80.2	5.4		3.6		2			
						5.6	0.6	295	26.3		8.0		32.7		80.2		5.4		3.7		2			
					Bottom	10.1	0.3	289	26.3	26.3	8.0	8.0	32.7	32.7	79.5	79.5	5.3	5.3	4.5		3			
						10.1	0.3	295	26.3		8.0		32.7		79.5		5.3		4.5		2			
IM1	Fine	Calm	16:48	5.6	Surface	1.0	0.2	331	25.3	25.3	8.2	8.2	33.3	33.3	98.9	99.0	6.7	6.7	5.9	6.8	3	4	817941	807139
						1.0	0.2	336	25.3		8.2		33.4		99.0		6.7		5.9		4			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	4.6	0.2	279	25.5	25.5	8.2	8.2	33.6	33.6	100.2	100.4	6.8	6.8	7.6		5			
						4.6	0.2	295	25.5		8.2		33.5		100.6		6.8		7.7		5			
IM2	Fine	Calm	16:42	6.8	Surface	1.0	0.3	28	25.4	25.4	8.2	8.2	33.5	33.5	95.8	95.8	6.5	6.5	7.1	8.3	2	3	818146	806187
						1.0	0.4	30	25.4		8.2		33.5		95.7		6.5		7.1		2			
					Middle	3.4	0.4	11	25.4	25.4	8.2	8.2	33.7	33.7	95.8	95.9	6.5		8.6		2			
						3.4	0.4	11	25.4		8.2		33.7		95.9		6.5		8.6		3			
					Bottom	5.8	0.3	327	25.4	25.4	8.2	8.2	33.7	33.7	96.7	96.9	6.6	6.6	9.1		4			
						5.8	0.3	356	25.4		8.2		33.7		97.0		6.6		9.0		3			
IM3	Fine	Calm	16:36	7.6	Surface	1.0	0.5	22	25.3	25.3	8.2	8.2	33.0	33.0	97.4	97.3	6.6	6.6	5.2	6.4	4	3	818772	805604
						1.0	0.6	22	25.3		8.2		33.0		97.1		6.6		5.1		3			
					Middle	3.8	0.4	316	25.3	25.3	8.2	8.2	33.6	33.6	95.4	95.5	6.5		6.3		4			
						3.8	0.4	342	25.3		8.2		33.6		95.5		6.5		6.2		3			
					Bottom	6.6	0.4	310	25.3	25.3	8.2	8.2	33.6	33.6	96.7	96.8	6.6	6.6	7.9		3			
						6.6	0.4	335	25.3		8.2		33.6		96.8		6.6		7.9		2			
IM4	Fine	Calm	16:26	7.6	Surface	1.0	0.8	340	25.3	25.3	8.2	8.2	33.3	33.3	96.0	96.1	6.5	6.6	5.7	6.4	2	3	819748	804607
						1.0	0.9	348	25.3		8.2		33.3		96.1		6.5		5.7		2			
					Middle	3.8	0.7	336	25.3	25.3	8.2	8.2	33.4	33.4	96.8	96.9	6.6		6.1		2			
						3.8	0.7	309	25.3		8.2		33.4		96.9		6.6		6.1		3			
					Bottom	6.6	0.6	332	25.6	25.7	8.2	8.2	33.2	33.2	97.9	98.1	6.6	6.7	7.2		4			
						6.6	0.6	305	25.7		8.2		33.2		98.2		6.7		7.3		3			
IM5	Fine	Calm	16:18	6.2	Surface	1.0	1.1	18	25.2	25.2	8.2	8.2	33.1	33.1	97.7	97.7	6.7	6.7	3.0	3.8	<2	3	820749	804889
						1.0	1.1	18	25.2		8.2		33.1		97.7		6.7		2.9		<2			
					Middle	3.1	0.9	10	25.3	25.3	8.2	8.2	33.2	33.2	98.2	98.3	6.7		3.8		2			
						3.1	0.9	10	25.3		8.2		33.2		98.4		6.7		3.8		5			
					Bottom	5.2	0.7	22	25.5	25.6	8.2	8.2	33.0	33.0	99.6	99.8	6.8	6.8	4.7		4			
						5.2	0.8	22	25.6		8.2		32.9		99.9		6.8		4.6		5			
IM6	Fine	Calm	16:12	6.8	Surface	1.0	0.2	188	25.3	25.3	8.2	8.2	32.8	32.8	99.4	99.4	6.8	6.8	2.1	2.6	<2	2	821052	805836
						1.0	0.2	198	25.3		8.2		32.8		99.3		6.8		2.1		<2			
					Middle	3.4	0.2	62	25.3	25.3	8.2	8.2	33.0	33.0	99.2	99.3	6.8		2.2		2			
						3.4	0.2	64	25.3		8.2		33.0		99.3		6.8		2.2		2			
					Bottom	5.8	0.1	41	25.3	25.3	8.2	8.2	33.1	33.1	101.7	102.0	6.9	7.0	3.6		2			
						5.8	0.2	45	25.3		8.2		33.1		102.3		7.0		3.6		3			
IM7	Fine	Calm	16:04	6.0	Surface	1.0	0.1	194	25.3	25.3	8.2	8.2	33.1	33.1	97.2	97.1	6.6	6.6	3.6	4.3	2	2	821367	806840
						1.0	0.1	206	25.3		8.2		33.1		97.0		6.6		3.6		3			
					Middle	3.0	0.2	122	25.3	25.3	8.2	8.2	33.2	33.2	97.0	97.1	6.6		4.2		2			
						3.0	0.2	133	25.3		8.2		33.2		97.1		6.6		4.2		3			
					Bottom	5.0	0.2	97	25.3	25.3	8.2	8.2	33.2	33.2	97.8	98.1	6.7	6.7	5.1		<2			
						5.0	0.2	97	25.3		8.2		33.2		98.3		6.7		5.0		<2			
IM8	Cloudy	Rough	16:18	7.8	Surface	1.0	0.1	201	25.7	25.7	8.2	8.2	31.3	31.3	96.3	96.3	6.6	6.6	3.4	4.5	3	2	821848	808137
						1.0	0.1	206	25.7		8.2		31.3		96.2		6.6		3.4		2			
					Middle	3.9	0.0	226	25.7	25.7	8.2	8.2	31.4	31.4	95.2	95.2	6.5		4.8		2			
						3.9	0.0	235	25.7		8.2		31.4		95.2		6.5		4.8		3			
					Bottom	6.8	0.1	167	25.5	25.5	8.1	8.1	31.5	31.5	90.9	90.9	6.2	6.2	5.4		<2			
						6.8	0.1	183	25.5		8.1		31.5		90.8		6.2		5.4		<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 28 October 21 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	Cloudy	Rough	16:23	7.2	Surface	1.0	0.5	70	25.6	25.6	8.2	8.2	31.4	31.4	97.6	97.6	6.7	6.7	3.4	4.1	2	2	822082	808828
						1.0	0.6	74	25.6		8.2		31.4		97.6		6.7		3.4		3			
					Middle	3.6	0.5	85	25.6	25.6	8.2	8.2	31.4	31.4	96.7	96.7	6.6		5.5		3			
						3.6	0.5	90	25.6		8.2		31.4		96.6		6.6		5.5		2			
					Bottom	6.2	0.5	96	25.5	25.5	8.2	8.2	31.5	31.5	93.0	93.0	6.4	6.4	3.4		<2			
						6.2	0.5	104	25.5		8.2		31.5		92.9		6.4		3.4		<2			
IM10	Cloudy	Rough	16:30	8.5	Surface	1.0	0.3	321	25.6	25.6	8.2	8.2	31.9	31.9	95.6	95.6	6.5	6.4	5.4	7.6	2	3	822391	809814
						1.0	0.3	349	25.6		8.2		31.9		95.6		6.5		5.4		3			
					Middle	4.3	0.3	314	25.6	25.6	8.2	8.2	32.0	32.0	92.7	92.7	6.3		8.0		2			
						4.3	0.3	335	25.6		8.2		32.0		92.6		6.3		8.0		3			
					Bottom	7.5	0.3	299	25.6	25.6	8.1	8.1	32.1	32.1	89.9	89.9	6.1	6.1	9.2		2			
						7.5	0.3	303	25.6		8.1		32.1		89.9		6.1		9.2		3			
IM11	Cloudy	Rough	16:40	8.2	Surface	1.0	0.6	301	25.6	25.6	8.2	8.2	32.0	32.0	92.8	92.8	6.3	6.3	4.2	5.4	4	4	822048	811457
						1.0	0.7	311	25.6		8.2		32.0		92.7		6.3		4.2		3			
					Middle	4.1	0.4	311	25.6	25.6	8.2	8.2	32.0	32.0	92.0	92.0	6.3		5.3		3			
						4.1	0.5	316	25.6		8.2		32.0		91.9		6.3		5.3		4			
					Bottom	7.2	0.2	289	25.6	25.6	8.1	8.1	32.0	32.0	91.1	91.1	6.2	6.2	6.6		4			
						7.2	0.2	314	25.6		8.1		32.0		91.1		6.2		6.6		5			
IM12	Cloudy	Rough	16:46	7.9	Surface	1.0	0.4	280	25.6	25.6	8.2	8.2	32.0	32.0	93.2	93.2	6.4	6.4	3.8	4.7	4	3	821460	812038
						1.0	0.4	299	25.6		8.2		32.0		93.2		6.4		3.8		3			
					Middle	4.0	0.5	298	25.6	25.6	8.1	8.1	32.1	32.1	92.0	92.0	6.3		4.8		4			
						4.0	0.5	327	25.6		8.1		32.1		92.0		6.3		4.9		3			
					Bottom	6.9	0.3	284	25.6	25.6	8.0	8.0	32.1	32.1	90.5	90.5	6.2	6.2	5.4		2			
						6.9	0.4	298	25.6		8.0		32.1		90.5		6.2		5.4		3			
SR1A	Fine	Moderate	17:15	4.1	Surface	1.0	-	-	25.6	25.6	8.1	8.1	32.0	32.0	95.0	95.0	6.5	6.5	3.0	3.3	5	5	819973	812659
						1.0	-	-	25.6		8.1		32.0		94.9		6.5		3.0		4			
					Middle	2.1	-	-	-	-	-	-	-	-	-	-	-		-		-			
						2.1	-	-	-		-		-		-		-		-		-			
					Bottom	3.1	-	-	25.8	25.8	8.1	8.0	32.1	32.1	92.0	92.0	6.3	6.3	3.7		5			
						3.1	-	-	25.8		8.0		32.1		91.9		6.3		3.7		4			
SR2	Fine	Moderate	17:28	4.7	Surface	1.0	0.2	109	25.7	25.7	8.1	8.1	32.1	32.1	91.6	91.6	6.2	6.2	2.9	3.0	3	3	821472	814188
						1.0	0.2	110	25.7		8.1		32.1		91.6		6.2		2.9		3			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.7	0.2	140	25.7	25.7	8.0	8.0	32.2	32.2	88.8	88.8	6.0	6.0	3.1		2			
						3.7	0.2	142	25.7		8.0		32.2		88.7		6.0		3.1		3			
SR3	Cloudy	Rough	16:13	9.0	Surface	1.0	0.1	287	25.6	25.6	8.2	8.2	31.2	31.2	96.1	96.0	6.6	6.5	3.3	4.3	2	2	822125	807590
						1.0	0.1	300	25.6		8.2		31.2		95.9		6.6		3.3		3			
					Middle	4.5	0.2	245	25.7	25.7	8.2	8.2	31.5	31.5	93.2	93.2	6.4		4.5		<2			
						4.5	0.2	268	25.7		8.2		31.5		93.2		6.4		4.5		<2			
					Bottom	8.0	0.1	94	25.6	25.6	8.1	8.1	31.6	31.6	90.0	90.0	6.2	6.2	5.1		<2			
						8.0	0.1	97	25.6		8.0		31.6		89.9		6.2		5.1		<2			
SR4A	Fine	Calm	17:13	9.0	Surface	1.0	0.3	250	25.4	25.5	8.2	8.2	33.6	33.6	98.7	98.7	6.7	6.7	3.3	4.4	<2	3	817204	807812
						1.0	0.4	265	25.5		8.2		33.6		98.7		6.7		3.4		<2			
					Middle	4.5	0.3	249	25.5	25.5	8.2	8.2	33.7	33.7	98.7	98.8	6.7		4.5		3			
						4.5	0.3	253	25.5		8.2		33.7		98.8		6.7		4.4		3			
					Bottom	8.0	0.2	247	25.5	25.5	8.2	8.2	33.7	33.7	99.5	99.6	6.7	6.7	5.5		3			
						8.0	0.2	266	25.5		8.2		33.7		99.6		6.7		5.5		3			
SR5A	Fine	Calm	17:28	5.2	Surface	1.0	0.3	284	25.5	25.5	8.2	8.2	33.3	33.3	97.2	97.2	6.6	6.6	3.6	4.1	3	4	816607	810694
						1.0	0.3	308	25.5		8.2		33.3		97.1		6.6		3.6		3			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	4.2	0.2	292	25.5	25.5	8.2	8.2	33.3	33.3	97.4	97.5	6.6	6.6	4.7		4			
						4.2	0.2	316	25.5		8.2		33.4		97.6		6.6		4.7		5			
SR6A	Fine	Calm	17:54	4.2	Surface	1.0	0.1	253	25.5	25.5	8.2	8.2	33.2	33.2	96.4	96.4	6.5	6.5	4.6	5.2	5	4	817974	814754
						1.0	0.1	258	25.5		8.2		33.2		96.3		6.5		4.5		4			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.2	0.1	262	25.5	25.5	8.2	8.2	33.2	33.2	96.9	97.1	6.6	6.6	6.0		2			
						3.2	0.1	287	25.4		8.2		33.2		97.3		6.6		5.9		4			
SR7	Fine	Rough	17:50	16.5	Surface	1.0	0.1	11	26.3	26.3	8.1	8.1	32.7	32.7	81.6	81.6	5.3	5.0	2.9	3.3	<2	2	823618	823762
						1.0	0.1	11	26.3		8.1		32.7		81.6		5.3		3.0		<2			
					Middle	8.3	0.2	87	26.3	26.3	8.1	8.1	32.7	32.7	81.2	81.2	4.6		3.2		3			
						8.3	0.2	94	26.3		8.1		32.7		81.2		4.6		3.2		2			
					Bottom	15.5	0.1	80	26.3	26.3	8.1	8.1	32.7	32.7	80.7	80.7	4.3	4.3	3.6		3			
						15.5	0.1	85	26.3		8.1		32.7		80.7		4.4		3.7		2			
SR8	Cloudy	Moderate	16:54	4.7	Surface	1.0	-	-	25.7	25.7	8.1	8.1	31.9	31.9	93.5	93.4	6.4	6.4	2.5	2.4	6	4	820409	811639
						1.0	-	-	25.7		8.1		31.9		93.3		6.4		2.6		5			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.7	-	-	25.6	25.6	8.1	8.1	32.0	32.0	91.5	91.5	6.2	6.2	2.2		<2			
						3.7	-	-	25.6		8.1		32.0		91.4		6.2		2.2		<2			

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

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 30 October 21 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	Misty	Moderate	07:54	7.6	Surface	1.0	0.5	221	25.5	25.5	8.2	8.2	33.4	33.4	91.1	91.0	6.2	6.2	4.6	5.9	2	3	815622	804247
						1.0	0.5	229	25.5		8.2		33.4		90.8		6.2		4.6		3			
					Middle	3.8	0.5	217	25.6	25.6	8.2	8.2	33.5	33.5	90.0	90.0	6.1		6.1		2			
						3.8	0.5	219	25.6		8.2		33.5		89.9		6.1		6.1		3			
					Bottom	6.6	0.3	210	25.6	25.6	8.1	8.1	33.6	33.6	90.0	90.0	6.1	6.1	7.1		3			
						6.6	0.4	214	25.6		8.1		33.6		90.0		6.1		7.0		2			
C2	Cloudy	Moderate	09:01	11.3	Surface	1.0	0.8	191	25.8	25.8	8.1	8.1	31.2	31.2	90.8	90.7	6.2	6.1	1.7	7.1	2	2	825674	806961
						1.0	0.9	195	25.8		8.1		31.2		90.6		6.2		1.8		2			
					Middle	5.7	0.6	118	25.7	25.7	8.1	8.1	31.5	31.5	88.2	88.1	6.0		8.9		2			
						5.7	0.6	129	25.7		8.1		31.5		88.0		6.0		8.9		3			
					Bottom	10.3	0.1	174	25.7	25.7	8.1	8.1	31.6	31.6	87.6	87.7	6.0	6.0	10.6		2			
						10.3	0.1	179	25.7		8.1		31.6		87.7		6.0		10.6		3			
C3	Cloudy	Moderate	06:37	12.1	Surface	1.0	0.0	305	25.8	25.8	8.0	8.0	32.2	32.2	87.2	87.2	5.9	5.9	1.9	2.0	2	2	822111	817780
						1.0	0.0	328	25.8		8.0		32.2		87.2		5.9		1.9		3			
					Middle	6.1	0.1	337	25.9	25.9	8.0	8.0	32.3	32.3	85.2	85.1	5.8		2.0		2			
						6.1	0.1	350	25.9		8.0		32.3		84.9		5.8		2.1		3			
					Bottom	11.1	0.8	160	25.9	25.9	8.0	8.0	32.4	32.4	86.2	86.4	5.8	5.9	2.2		<2			
						11.1	0.8	160	25.9		8.0		32.4		86.5		5.9		2.2		<2			
IM1	Misty	Moderate	08:17	4.4	Surface	1.0	0.0	179	25.4	25.5	8.1	8.1	33.4	33.4	90.5	90.4	6.1	6.1	4.5	5.3	<2	5	817949	807116
						1.0	0.0	188	25.5		8.1		33.4		90.3		6.1		4.6		5			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.4	0.0	141	25.5	25.5	8.1	8.1	33.5	33.5	90.3	90.4	6.1	6.1	6.0		6			
						3.4	0.0	143	25.5		8.1		33.5		90.4		6.1		5.9		7			
IM2	Misty	Moderate	08:24	6.2	Surface	1.0	0.1	149	25.4	25.4	8.2	8.2	33.3	33.3	90.6	90.6	6.2	6.2	1.0	2.4	7	8	818157	806145
						1.0	0.1	158	25.4		8.2		33.3		90.5		6.2		1.1		8			
					Middle	3.1	0.1	154	25.4	25.4	8.2	8.2	33.4	33.4	90.1	90.1	6.1		2.1		8			
						3.1	0.1	158	25.4		8.2		33.4		90.1		6.1		2.1		9			
					Bottom	5.2	0.1	154	25.4	25.4	8.1	8.1	33.4	33.4	90.0	90.0	6.1	6.1	3.9		9			
						5.2	0.1	156	25.4		8.1		33.4		90.0		6.1		3.9		8			
IM3	Misty	Moderate	08:31	6.2	Surface	1.0	0.2	122	25.4	25.4	8.2	8.2	33.4	33.4	90.6	90.8	6.2	6.2	4.3	4.1	5	7	818777	805611
						1.0	0.2	125	25.4		8.2		33.4		90.9		6.2		4.3		6			
					Middle	3.1	0.3	128	25.4	25.4	8.2	8.1	33.4	33.4	91.8	91.9	6.2		3.5		6			
						3.1	0.3	133	25.4		8.1		33.4		92.0		6.2		3.6		7			
					Bottom	5.2	0.3	120	25.4	25.4	8.1	8.1	33.3	33.3	93.1	93.3	6.3	6.4	4.6		8			
						5.2	0.3	122	25.4		8.1		33.3		93.5		6.4		4.6		7			
IM4	Misty	Moderate	08:40	7.8	Surface	1.0	0.8	196	25.2	25.2	8.2	8.2	31.7	31.7	95.3	95.2	6.6	6.5	3.9	5.1	6	5	819711	804619
						1.0	0.8	212	25.2		8.2		31.8		95.0		6.5		3.9		6			
					Middle	3.9	0.6	193	25.3	25.3	8.2	8.2	32.4	32.4	93.3	93.3	6.4		5.4		4			
						3.9	0.6	210	25.2		8.2		32.4		93.2		6.4		5.4		5			
					Bottom	6.8	0.4	190	25.2	25.2	8.1	8.1	32.4	32.4	93.1	93.1	6.4	6.4	6.0		4			
						6.8	0.4	195	25.2		8.1		32.4		93.1		6.4		6.1		5			
IM5	Misty	Moderate	08:50	7.6	Surface	1.0	0.6	205	25.3	25.3	8.2	8.2	32.0	32.0	93.1	93.1	6.4	6.4	5.1	6.0	4	3	820731	804850
						1.0	0.6	225	25.3		8.2		32.1		93.0		6.4		5.1		3			
					Middle	3.8	0.5	205	25.3	25.3	8.2	8.2	32.4	32.4	92.8	92.8	6.3		6.0		2			
						3.8	0.6	207	25.3		8.2		32.4		92.8		6.3		6.0		3			
					Bottom	6.6	0.4	211	25.3	25.3	8.1	8.1	32.4	32.3	93.0	93.1	6.4	6.4	7.0		2			
						6.6	0.5	228	25.3		8.1		32.3		93.1		6.4		7.0		2			
IM6	Misty	Moderate	09:00	6.6	Surface	1.0	0.4	243	25.3	25.3	8.2	8.2	33.0	33.0	92.7	92.7	6.3	6.3	2.9	3.5	5	4	821074	805840
						1.0	0.5	243	25.3		8.2		33.0		92.6		6.3		2.8		4			
					Middle	3.3	0.4	244	25.3	25.3	8.2	8.2	33.0	33.0	92.3	92.3	6.3		3.3		4			
						3.3	0.4	250	25.3		8.2		33.0		92.2		6.3		3.3		3			
					Bottom	5.6	0.3	246	25.3	25.3	8.2	8.1	33.0	33.0	92.2	92.2	6.3	6.3	4.2		4			
						5.6	0.4	246	25.3		8.1		33.0		92.2		6.3		4.2		3			
IM7	Misty	Moderate	09:09	7.8	Surface	1.0	0.5	221	25.2	25.2	8.2	8.2	32.4	32.5	94.4	94.4	6.5	6.5	2.0	2.5	5	4	821338	806826
						1.0	0.5	221	25.2		8.2		32.5		94.3		6.5		2.1		4			
					Middle	3.9	0.4	229	25.2	25.2	8.2	8.2	32.6	32.6	94.1	94.1	6.4		2.2		5			
						3.9	0.4	237	25.2		8.2		32.6		94.1		6.4		2.1		4			
					Bottom	6.8	0.4	239	25.2	25.2	8.2	8.2	32.6	32.5	94.2	94.3	6.5	6.5	3.3		4			
						6.8	0.4	260	25.2		8.2		32.5		94.3		6.5		3.2		3			
IM8	Cloudy	Moderate	08:28	7.4	Surface	1.0	0.5	5	25.5	25.5	8.0	8.0	31.3	31.4	93.7	93.7	6.4	6.4	2.4	4.6	3	3	821832	808133
						1.0	0.5	5	25.5		8.0		31.4		93.6		6.4		2.4		2			
					Middle	3.7	0.5	4	25.5	25.5	8.1	8.1	31.6	31.6	92.4	92.4	6.3		3.0		3			
						3.7	0.5	4	25.5		8.1		31.6		92.3		6.3		3.0		3			
					Bottom	6.4	0.5	3	25.6	25.6	7.9	7.9	31.9	31.9	91.6	91.7	6.3	6.3	8.4		3			
						6.4	0.5	3	25.6		7.9		32.0		91.7		6.3		8.4		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 30 October 21 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	08:22	7.0	Surface	1.0	0.2	286	25.5	25.5	7.9	7.9	31.5	31.5	92.8	92.7	6.4	6.3	3.6	5.1	2	2	822070	808812
						1.0	0.2	303	25.5		7.9		31.5		92.6		6.3		3.8		3			
					Middle	3.5	0.2	302	25.6	25.6	7.9	7.9	31.7	31.7	91.9	91.9	6.3		4.9		2			
						3.5	0.2	310	25.6		7.9		31.7		91.8		6.3		5.1		3			
					Bottom	6.0	0.2	318	25.6	25.6	7.9	7.9	31.8	31.8	91.5	91.5	6.3	6.3	6.4		<2			
						6.0	0.2	345	25.6		7.9		31.8		91.4		6.2		6.5		<2			
IM10	Cloudy	Moderate	08:13	7.5	Surface	1.0	0.3	7	25.5	25.5	7.9	7.9	31.2	31.2	93.3	93.2	6.4	6.3	2.8	4.6	2	3	822394	809773
						1.0	0.4	7	25.5		7.9		31.2		93.1		6.4		2.9		3			
					Middle	3.8	0.4	3	25.6	25.6	7.9	7.9	31.8	31.8	91.0	91.0	6.2		5.0		3			
						3.8	0.4	3	25.6		7.9		31.8		91.0		6.2		5.1		2			
					Bottom	6.5	0.4	3	25.6	25.6	7.9	7.9	31.8	31.8	90.5	90.5	6.2	6.2	5.9		2			
						6.5	0.4	3	25.6		7.9		31.8		90.5		6.2		6.1		3			
IM11	Cloudy	Moderate	08:01	8.8	Surface	1.0	0.3	129	25.5	25.5	7.9	7.9	31.7	31.7	93.3	93.3	6.4	6.4	2.7	3.7	3	3	822058	811474
						1.0	0.3	133	25.5		7.9		31.7		93.3		6.4		2.7		4			
					Middle	4.4	0.3	127	25.5	25.5	7.9	7.9	31.7	31.7	92.5	92.5	6.3		3.1		3			
						4.4	0.3	135	25.5		7.9		31.7		92.5		6.3		3.1		3			
					Bottom	7.8	0.5	133	25.5	25.5	7.8	7.8	31.8	31.8	92.0	92.0	6.3	6.3	5.4		2			
						7.8	0.6	139	25.5		7.8		31.8		92.0		6.3		5.3		3			
IM12	Cloudy	Moderate	07:52	9.3	Surface	1.0	0.5	86	25.5	25.5	7.8	7.8	31.7	31.7	92.2	92.2	6.3	6.3	3.0	5.4	3	2	821453	812048
						1.0	0.5	92	25.5		7.8		31.7		92.1		6.3		2.9		3			
					Middle	4.7	0.5	86	25.6	25.6	7.8	7.8	31.8	31.8	91.6	91.6	6.3		4.1		<2			
						4.7	0.5	90	25.6		7.8		31.8		91.6		6.3		4.4		<2			
					Bottom	8.3	0.5	82	25.6	25.6	7.9	7.9	31.8	31.8	91.6	91.7	6.3	6.3	9.0		<2			
						8.3	0.5	89	25.6		7.9		31.8		91.7		6.3		8.9		<2			
SR1A	Cloudy	Moderate	07:18	5.2	Surface	1.0	-	-	25.6	25.6	7.9	7.9	31.9	31.9	90.3	90.3	6.2	6.2	2.5	2.6	<2	<2	819977	812657
						1.0	-	-	25.6		7.9		31.9		90.3		6.2		2.5		<2			
					Middle	2.6	-	-	-	-	-	-	-	-	-	-	-		-		-			
						2.6	-	-	-		-		-		-		-		-		-			
					Bottom	4.2	-	-	25.6	25.6	8.0	8.0	31.9	31.9	90.6	90.6	6.2	6.2	2.6		<2			
						4.2	-	-	25.6		8.0		31.9		90.6		6.2		2.6		<2			
SR2	Cloudy	Moderate	07:01	4.8	Surface	1.0	0.3	135	25.6	25.6	8.0	8.0	31.9	31.9	90.3	90.3	6.2	6.2	2.4	6.0	2	2	821451	814181
						1.0	0.3	145	25.6		8.0		31.9		90.3		6.2		2.4		2			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.8	0.2	138	25.6	25.6	8.0	8.0	31.9	31.9	90.8	90.8	6.2	6.2	9.7		2			
						3.8	0.2	141	25.6		8.0		31.9		90.8		6.2		9.5		2			
SR3	Cloudy	Moderate	08:34	8.4	Surface	1.0	0.3	294	25.5	25.5	8.1	8.1	31.1	31.1	93.2	93.2	6.4	6.2	2.7	8.3	2	2	822136	807559
						1.0	0.3	299	25.5		8.1		31.1		93.1		6.4		2.7		3			
					Middle	4.2	0.3	290	25.7	25.7	8.1	8.1	32.0	32.0	88.8	88.7	6.1		9.6		<2			
						4.2	0.3	308	25.7		8.1		32.0		88.5		6.0		9.2		<2			
					Bottom	7.4	0.0	175	25.7	25.7	8.0	8.0	32.1	32.1	88.0	88.0	6.0	6.0	12.1		<2			
						7.4	0.0	176	25.7		8.0		32.1		88.0		6.0		13.3		<2			
SR4A	Misty	Moderate	07:34	9.0	Surface	1.0	0.1	0	25.4	25.4	8.2	8.2	33.3	33.3	92.2	92.2	6.3	6.3	1.9	2.9	4	3	817198	807800
						1.0	0.1	0	25.4		8.2		33.3		92.1		6.3		1.9		3			
					Middle	4.5	0.0	303	25.4	25.4	8.1	8.1	33.3	33.3	91.3	91.3	6.2		3.0		<2			
						4.5	0.0	312	25.4		8.1		33.3		91.2		6.2		3.0		<2			
					Bottom	8.0	0.0	255	25.4	25.4	8.1	8.1	33.3	33.3	90.5	90.5	6.2	6.2	4.0		<2			
						8.0	0.0	274	25.4		8.1		33.3		90.4		6.1		3.9		<2			
SR5A	Misty	Moderate	06:57	4.6	Surface	1.0	0.0	221	25.5	25.5	8.1	8.1	33.3	33.3	90.3	90.3	6.1	6.1	4.3	4.8	3	3	816573	810693
						1.0	0.0	230	25.5		8.1		33.3		90.3		6.1		4.2		4			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.6	0.0	219	25.6	25.6	8.1	8.1	33.3	33.3	90.3	90.3	6.1	6.1	5.3		<2			
						3.6	0.0	233	25.6		8.1		33.3		90.3		6.1		5.2		<2			
SR6A	Misty	Moderate	06:26	4.8	Surface	1.0	0.0	312	25.5	25.5	8.1	8.1	33.3	33.3	90.3	90.2	6.1	6.1	5.1	5.6	4	3	817972	814750
						1.0	0.0	326	25.5		8.1		33.3		90.1		6.1		5.0		4			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.8	0.0	257	25.4	25.4	8.1	8.1	33.2	33.2	89.9	89.9	6.1	6.1	6.2		<2			
						3.8	0.0	269	25.4		8.1		33.2		89.9		6.1		6.3		<2			
SR7	Cloudy	Moderate	05:59	16.7	Surface	1.0	0.2	133	26.3	26.3	7.8	7.8	32.6	32.6	80.2	80.2	5.4	5.4	2.5	3.1	2	2	823617	823722
						1.0	0.2	144	26.3		7.8		32.6		80.2		5.4		2.5		2			
					Middle	8.4	0.2	123	26.3	26.3	7.9	7.9	32.6	32.6	80.0	80.0	5.4		2.6		3			
						8.4	0.2	134	26.3		7.9		32.6		80.0		5.4		2.6		2			
					Bottom	15.7	0.2	128	26.3	26.3	8.0	8.0	32.7	32.7	79.9	79.9	5.4	5.4	4.2		2			
						15.7	0.2	138	26.3		8.0		32.7		79.9		5.4		4.3		2			
SR8	Cloudy	Moderate	07:44	4.2	Surface	1.0	-	-	25.8	25.8	7.9	7.9	31.7	31.7	91.9	91.9	6.3	6.3	2.8	2.7	3	2	820412	811608
						1.0	-	-	25.8		7.9		31.7		91.9		6.3		2.8		2			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.2	-	-	25.7	25.7	8.0	8.0	31.8	31.8	92.7	92.8	6.3	6.3	2.6		2			
						3.2	-	-	25.7		8.0		31.8		92.8		6.3		2.8		2			

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

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 30 October 21 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	15:42	8.0	Surface	1.0	0.3	78	25.3	25.3	8.2	8.2	32.4	32.4	93.7	93.6	6.4	6.4	4.1	5.3	2	2	815613	804257
						1.0	0.3	84	25.3		8.2		32.4		93.5		6.4		4.0		2			
					Middle	4.0	0.4	79	25.4	25.4	8.2	8.2	32.7	32.7	92.6	92.6	6.3		5.1		2			
						4.0	0.4	85	25.4		8.2		32.7		92.5		6.3		5.1		2			
					Bottom	7.0	0.2	67	25.4	25.4	8.1	8.1	33.1	33.1	92.7	92.9	6.3	6.3	6.8		<2			
						7.0	0.2	67	25.4		8.1		33.1		93.0		6.3		6.7		<2			
C2	Cloudy	Moderate	14:37	11.2	Surface	1.0	0.1	68	25.6	25.7	8.2	8.2	29.6	29.6	90.7	90.7	6.3	6.2	2.5	2.7	<2	3	825669	806963
						1.0	0.1	72	25.7		8.2		29.7		90.6		6.3		2.4		<2			
					Middle	5.6	0.1	111	25.6	25.6	8.2	8.2	31.1	31.1	89.5	89.5	6.1		2.5		<2			
						5.6	0.1	120	25.6		8.2		31.1		89.5		6.1		2.5		<2			
					Bottom	10.2	0.2	109	25.6	25.6	8.2	8.2	31.2	31.2	89.3	89.3	6.1	6.1	3.3		4			
						10.2	0.2	115	25.6		8.2		31.2		89.3		6.1		3.3		4			
C3	Cloudy	Moderate	16:49	11.1	Surface	1.0	0.2	307	25.9	25.9	8.0	8.0	32.4	32.4	85.3	85.3	5.8	5.8	4.0	5.1	3	3	822110	817817
						1.0	0.2	310	25.9		8.0		32.4		85.3		5.8		4.0		4			
					Middle	5.6	0.2	300	25.9	25.9	8.0	8.0	32.4	32.4	85.2	85.2	5.8		4.9		3			
						5.6	0.2	320	25.9		8.0		32.4		85.2		5.8		5.0		3			
					Bottom	10.1	0.2	307	25.9	25.9	7.9	7.9	32.3	32.3	85.2	85.3	5.8	5.8	6.1		3			
						10.1	0.2	336	25.9		8.0		32.3		85.3		5.8		6.6		2			
IM1	Misty	Moderate	15:21	4.2	Surface	1.0	0.2	356	25.5	25.5	8.1	8.1	33.3	33.3	90.9	90.9	6.2	6.2	8.1	8.6	2	2	817969	807112
						1.0	0.2	357	25.5		8.1		33.4		90.9		6.2		8.1		3			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.2	0.1	331	25.5	25.5	8.1	8.1	33.4	33.4	90.9	91.0	6.2	6.2	9.1		2			
						3.2	0.1	338	25.5		8.1		33.4		91.0		6.2		9.1		2			
IM2	Misty	Moderate	15:14	6.2	Surface	1.0	0.2	4	25.3	25.3	8.2	8.2	32.7	32.7	93.6	93.6	6.4	6.4	5.4	6.5	2	2	818170	806168
						1.0	0.2	4	25.3		8.2		32.7		93.5		6.4		5.4		2			
					Middle	3.1	0.2	19	25.3	25.3	8.2	8.2	32.9	32.9	93.3	93.3	6.4		6.3		2			
						3.1	0.2	20	25.3		8.2		32.9		93.3		6.4		6.3		2			
					Bottom	5.2	0.2	340	25.4	25.4	8.1	8.1	33.1	33.1	93.5	93.6	6.4	6.4	8.0		2			
						5.2	0.2	313	25.3		8.1		33.1		93.6		6.4		7.9		3			
IM3	Misty	Moderate	15:07	6.4	Surface	1.0	0.3	5	25.3	25.3	8.2	8.2	32.9	32.9	92.0	91.9	6.3	6.3	6.1	7.1	<2	2	818771	805584
						1.0	0.3	5	25.3		8.2		32.9		91.8		6.3		6.1		<2			
					Middle	3.2	0.2	354	25.4	25.4	8.2	8.2	33.2	33.2	91.8	91.8	6.2		7.2		3			
						3.2	0.3	326	25.4		8.2		33.2		91.8		6.2		7.1		2			
					Bottom	5.4	0.2	335	25.4	25.4	8.1	8.1	33.2	33.2	92.0	92.1	6.3	6.3	8.1		2			
						5.4	0.2	308	25.4		8.1		33.2		92.1		6.3		8.0		3			
IM4	Misty	Moderate	14:58	8.0	Surface	1.0	0.5	357	25.2	25.2	8.2	8.2	32.7	32.7	94.2	94.2	6.4	6.4	4.4	5.5	3	3	819733	804623
						1.0	0.5	328	25.2		8.2		32.8		94.1		6.4		4.3		2			
					Middle	4.0	0.4	355	25.2	25.2	8.2	8.2	32.8	32.8	93.5	93.5	6.4		5.6		2			
						4.0	0.5	327	25.2		8.2		32.8		93.4		6.4		5.6		3			
					Bottom	7.0	0.4	347	25.2	25.3	8.1	8.1	32.9	32.9	93.2	93.3	6.4	6.4	6.6		2			
						7.0	0.4	351	25.3		8.1		32.9		93.3		6.4		6.7		3			
IM5	Misty	Moderate	14:50	7.6	Surface	1.0	0.6	358	25.3	25.3	8.2	8.2	33.0	33.0	93.1	93.1	6.4	6.3	3.0	4.3	2	3	820754	804885
						1.0	0.6	329	25.3		8.2		33.0		93.1		6.3		3.0		3			
					Middle	3.8	0.6	352	25.3	25.3	8.2	8.2	33.0	33.0	92.9	92.9	6.3		4.0		3			
						3.8	0.6	355	25.3		8.2		33.0		92.8		6.3		4.1		2			
					Bottom	6.6	0.4	0	25.3	25.3	8.1	8.1	33.0	33.0	92.4	92.4	6.3	6.3	5.8		2			
						6.6	0.5	0	25.3		8.1		33.0		92.3		6.3		5.9		3			
IM6	Misty	Moderate	14:42	6.6	Surface	1.0	0.1	3	25.3	25.3	8.1	8.1	32.3	32.3	93.3	93.3	6.4	6.4	2.2	3.1	2	2	821051	805832
						1.0	0.1	3	25.3		8.1		32.3		93.2		6.4		2.1		2			
					Middle	3.3	0.1	326	25.3	25.3	8.1	8.1	32.3	32.3	92.8	92.8	6.4		3.2		2			
						3.3	0.1	353	25.3		8.1		32.3		92.8		6.4		3.2		2			
					Bottom	5.6	0.1	332	25.2	25.3	8.1	8.1	32.3	32.3	92.6	92.6	6.3	6.3	4.1		3			
						5.6	0.1	343	25.3		8.1		32.3		92.6		6.3		4.1		2			
IM7	Misty	Moderate	14:37	7.8	Surface	1.0	0.1	250	25.3	25.3	8.1	8.1	32.0	32.0	93.3	93.3	6.4	6.4	1.1	2.1	2	3	821352	806827
						1.0	0.1	267	25.3		8.1		32.0		93.3		6.4		1.1		3			
					Middle	3.9	0.1	285	25.3	25.3	8.1	8.1	32.0	32.0	93.7	93.7	6.4		2.1		2			
						3.9	0.1	293	25.3		8.1		32.0		93.7		6.4		2.1		3			
					Bottom	6.8	0.1	295	25.3	25.3	8.1	8.1	32.0	32.0	94.0	94.1	6.4	6.5	3.1		2			
						6.8	0.1	309	25.3		8.1		32.0		94.1		6.5		3.1		3			
IM8	Cloudy	Moderate	15:02	7.3	Surface	1.0	0.3	46	25.6	25.6	8.2	8.2	31.6	31.6	93.2	93.2	6.4	6.4	3.4	3.6	4	4	821831	808120
						1.0	0.4	47	25.6		8.2		31.6		93.2		6.4		3.3		3			
					Middle	3.7	0.1	67	25.6	25.6	8.1	8.1	31.6	31.6	93.1	93.1	6.4		3.7		4			
						3.7	0.1	73	25.6		8.1		31.6		93.1		6.4		3.7		3			
					Bottom	6.3	0.1	40	25.5	25.5	8.1	8.1	31.6	31.6	92.8	92.8	6.4	6.4	3.5		4			
						6.3	0.1	41	25.5		8.1		31.6		92.8		6.4		3.8		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 30 October 21 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	Cloudy	Moderate	15:09	7.0	Surface	1.0	0.6	171	25.6	25.6	8.2	8.2	31.6	31.6	93.2	93.2	6.4	6.4	5.2	7.3	5	5	822117	808814
						1.0	0.7	186	25.5		8.2		31.6		93.2		6.4		5.3		5			
					Middle	3.5	0.7	197	25.5	25.5	8.2	8.2	31.6	31.6	93.2	93.2	6.4		7.8		5			
						3.5	0.7	207	25.5		8.2		31.6		93.2		6.4		8.1		4			
					Bottom	6.0	0.6	196	25.5	25.5	8.2	8.2	31.6	31.6	93.5	93.6	6.4	6.4	8.8		4			
						6.0	0.7	213	25.5		8.2		31.6		93.6		6.4		8.6		4			
IM10	Cloudy	Moderate	15:17	7.3	Surface	1.0	0.9	357	25.6	25.6	8.2	8.2	31.6	31.6	93.5	93.5	6.4	6.4	4.7	9.0	5	4	822384	809788
						1.0	0.9	328	25.6		8.2		31.6		93.4		6.4		4.8		4			
					Middle	3.7	0.7	358	25.5	25.5	8.2	8.2	31.6	31.6	93.0	93.0	6.4		7.6		4			
						3.7	0.7	329	25.5		8.2		31.6		93.0		6.4		8.3		4			
					Bottom	6.3	0.5	15	25.5	25.5	8.2	8.2	31.6	31.6	93.5	93.6	6.4	6.4	15.0		3			
						6.3	0.5	15	25.5		8.2		31.6		93.7		6.4		13.3		3			
IM11	Cloudy	Moderate	15:29	8.2	Surface	1.0	0.4	315	25.6	25.6	8.1	8.1	31.8	31.8	92.8	92.8	6.3	6.3	6.0	7.9	8	7	822052	811472
						1.0	0.4	330	25.6		8.1		31.8		92.8		6.3		5.9		7			
					Middle	4.1	0.5	294	25.6	25.6	8.1	8.1	31.9	31.9	92.8	92.8	6.3		7.5		8			
						4.1	0.6	319	25.6		8.1		31.9		92.8		6.3		8.2		7			
					Bottom	7.2	0.6	299	25.5	25.5	8.2	8.2	31.8	31.8	93.7	93.7	6.4	6.4	9.7		5			
						7.2	0.6	304	25.5		8.2		31.8		93.7		6.4		10.0		6			
IM12	Cloudy	Moderate	15:37	9.0	Surface	1.0	0.7	4	25.6	25.6	8.1	8.1	31.9	31.9	92.6	92.6	6.3	6.3	4.5	7.2	5	4	821449	812041
						1.0	0.7	4	25.6		8.1		31.9		92.6		6.3		4.6		6			
					Middle	4.5	0.7	5	25.6	25.6	8.1	8.1	31.9	31.9	92.6	92.6	6.3		7.6		4			
						4.5	0.7	5	25.6		8.1		31.9		92.6		6.3		8.3		4			
					Bottom	8.0	0.7	4	25.6	25.6	8.1	8.1	31.9	31.9	92.7	92.7	6.3	6.3	9.2		3			
						8.0	0.7	4	25.6		8.1		31.9		92.7		6.3		8.9		3			
SR1A	Cloudy	Moderate	16:07	5.2	Surface	1.0	-	-	25.7	25.7	8.0	8.0	31.9	31.9	89.0	89.0	6.1	6.1	6.0	8.6	7	11	819972	812662
						1.0	-	-	25.7		8.0		32.0		88.9		6.1		6.3		7			
					Middle	2.6	-	-	-	-	-	-	-	-	-	-	-		-		-			
						2.6	-	-	-		-		-		-		-		-		-			
					Bottom	4.2	-	-	25.7	25.7	8.1	8.1	32.0	32.0	89.8	90.0	6.1	6.1	10.7		15			
						4.2	-	-	25.7		8.1		32.0		90.1		6.1		11.3		15			
SR2	Cloudy	Moderate	16:22	4.7	Surface	1.0	0.1	298	25.5	25.5	8.1	8.1	31.8	31.8	93.6	93.7	6.4	6.4	3.3	4.5	15	9	821482	814183
						1.0	0.1	326	25.5		8.1		31.8		93.7		6.4		3.3		14			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.7	0.0	237	25.5	25.5	8.1	8.1	31.8	31.8	94.0	94.1	6.4	6.4	5.6		4			
						3.7	0.0	253	25.5		8.1		31.8		94.1		6.4		5.7		3			
SR3	Cloudy	Moderate	14:56	8.6	Surface	1.0	0.7	103	25.6	25.6	8.1	8.1	30.9	30.9	92.6	92.6	6.4	6.4	2.4	2.7	4	3	822168	807587
						1.0	0.7	109	25.6		8.1		31.0		92.6		6.4		2.4		3			
					Middle	4.3	0.4	112	25.6	25.6	8.1	8.1	31.1	31.1	92.6	92.7	6.4		2.8		3			
						4.3	0.5	122	25.6		8.1		31.1		92.7		6.4		2.9		2			
					Bottom	7.6	0.5	102	25.6	25.6	8.1	8.1	31.1	31.1	92.9	93.0	6.4	6.4	2.8		2			
						7.6	0.5	102	25.6		8.2		31.1		93.0		6.4		2.7		2			
SR4A	Misty	Moderate	16:02	7.6	Surface	1.0	0.2	79	25.5	25.5	8.1	8.1	33.2	33.2	89.4	89.5	6.1	6.1	7.6	7.3	3	2	817172	807797
						1.0	0.2	79	25.5		8.1		33.2		89.5		6.1		7.7		2			
					Middle	3.8	0.2	90	25.5	25.5	8.1	8.1	33.2	33.2	89.6	89.6	6.1		6.9		2			
						3.8	0.2	94	25.5		8.1		33.2		89.6		6.1		6.8		2			
					Bottom	6.6	0.1	80	25.4	25.5	8.1	8.1	33.2	33.2	90.0	90.1	6.1	6.1	7.3		2			
						6.6	0.1	83	25.5		8.1		33.2		90.1		6.1		7.3		2			
SR5A	Misty	Moderate	16:19	4.0	Surface	1.0	0.1	340	25.4	25.4	8.1	8.1	33.1	33.1	93.0	93.1	6.3	6.3	8.6	8.9	2	2	816602	810680
						1.0	0.1	340	25.4		8.1		33.1		93.2		6.3		8.6		2			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.0	0.1	330	25.4	25.4	8.1	8.1	33.1	33.1	93.4	93.5	6.4	6.4	9.1		2			
						3.0	0.1	351	25.4		8.1		33.1		93.6		6.4		9.2		3			
SR6A	Misty	Moderate	16:44	4.2	Surface	1.0	0.0	234	25.5	25.5	8.1	8.1	33.1	33.1	92.0	92.1	6.3	6.3	6.8	7.0	2	3	817941	814740
						1.0	0.0	236	25.5		8.1		33.1		92.1		6.3		6.9		3			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.2	0.1	241	25.4	25.4	8.1	8.1	33.1	33.1	92.2	92.3	6.3	6.3	7.1		4			
						3.2	0.1	242	25.4		8.1		33.1		92.3		6.3		7.0		3			
SR7	Cloudy	Moderate	17:23	16.4	Surface	1.0	0.3	69	26.1	26.1	7.9	7.9	32.5	32.5	82.9	82.9	5.6	5.6	3.3	3.6	3	4	823641	823746
						1.0	0.3	73	26.1		7.9		32.5		82.8		5.6		3.4		3			
					Middle	8.2	0.3	81	26.1	26.1	7.9	7.9	32.5	32.5	82.7	82.8	5.6		3.8		4			
						8.2	0.3	88	26.1		7.9		32.5		82.8		5.6		3.9		5			
					Bottom	15.4	0.4	82	26.1	26.1	7.9	7.9	32.5	32.5	83.6	83.7	5.6	5.7	3.8		4			
						15.4	0.4	87	26.1		7.9		32.5		83.8		5.7		3.8		5			
SR8	Cloudy	Moderate	15:45	4.4	Surface	1.0	-	-	25.7	25.7	8.1	8.1	31.5	31.5	95.0	95.0	6.5	6.5	7.3	7.2	5	5	820396	811617
						1.0	-	-	25.7		8.1		31.5		95.0		6.5		7.2		6			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.4	-	-	25.7	25.7	8.1	8.1	31.5	31.4	95.2	95.3	6.5	6.5	7.1		5			
						3.4	-	-	25.7		8.1		31.4		95.4		6.5		7.4		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**

Dissolved Oxygen (Surface and Middle) during Mid-Ebb
Concentration (mg/L)
14.0
12.0
10.0
8.0
6.0
4.0
2.0
0.0
02/10/2021
05/10/2021
07/10/2021
16/10/2021
19/10/2021
21/10/2021
23/10/2021
26/10/2021
28/10/2021
30/10/2021
C1
C2
C3
AL
LL

Dissolved Oxygen (Surface and Middle) during Mid-Ebb
Concentration (mg/L)
14.0
12.0
10.0
8.0
6.0
4.0
2.0
0.0
02/10/2021
05/10/2021
07/10/2021
16/10/2021
19/10/2021
21/10/2021
23/10/2021
26/10/2021
28/10/2021
30/10/2021
IM1
IM2
IM3
IM4
IM5
IM6
AL
LL

Dissolved Oxygen (Surface and Middle) during Mid-Ebb
Concentration (mg/L)
14.0
12.0
10.0
8.0
6.0
4.0
2.0
0.0
02/10/2021
05/10/2021
07/10/2021
16/10/2021
19/10/2021
21/10/2021
23/10/2021
26/10/2021
28/10/2021
30/10/2021
IM7
IM8
IM9
IM10
IM11
IM12
AL
LL

Dissolved Oxygen (Surface and Middle) during Mid-Ebb
Concentration (mg/L)
14.0
12.0
10.0
8.0
6.0
4.0
2.0
0.0
02/10/2021
05/10/2021
07/10/2021
16/10/2021
19/10/2021
21/10/2021
23/10/2021
26/10/2021
28/10/2021
30/10/2021
SR1A
SR2
SR3
SR4A
SR5A
SR6A
SR7
SR8
AL
LL
LL (SR7)

Dissolved Oxygen (Surface and Middle) during Mid-Flood
Concentration (mg/L)
14.0
12.0
10.0
8.0
6.0
4.0
2.0
0.0
02/10/2021
05/10/2021
07/10/2021
14/10/2021
16/10/2021
19/10/2021
21/10/2021
23/10/2021
26/10/2021
28/10/2021
30/10/2021
C1
C2
C3
SR2
AL
LL

Dissolved Oxygen (Surface and Middle) during Mid-Flood
Concentration (mg/L)
14.0
12.0
10.0
8.0
6.0
4.0
2.0
0.0
02/10/2021
05/10/2021
07/10/2021
14/10/2021
16/10/2021
19/10/2021
21/10/2021
23/10/2021
26/10/2021
28/10/2021
30/10/2021
IM1
IM2
IM3
IM4
IM5
IM6
AL
LL

Dissolved Oxygen (Surface and Middle) during Mid-Flood
Concentration (mg/L)
14.0
12.0
10.0
8.0
6.0
4.0
2.0
0.0
02/10/2021
05/10/2021
07/10/2021
14/10/2021
16/10/2021
19/10/2021
21/10/2021
23/10/2021
26/10/2021
28/10/2021
30/10/2021
IM7
IM8
IM9
IM10
IM11
IM12
AL
LL

Dissolved Oxygen (Surface and Middle) during Mid-Flood
Concentration (mg/L)
14.0
12.0
10.0
8.0
6.0
4.0
2.0
0.0
02/10/2021
05/10/2021
07/10/2021
14/10/2021
16/10/2021
19/10/2021
21/10/2021
23/10/2021
26/10/2021
28/10/2021
30/10/2021
SR1A
SR3
SR4A
SR5A
SR6A
SR7
SR8
AL
LL
LL (SR7)

Dissolved Oxygen (Bottom) during Mid-Ebb
Concentration (mg/L)
14.0
12.0
10.0
8.0
6.0
4.0
2.0
0.0
02/10/2021
05/10/2021
07/10/2021
16/10/2021
19/10/2021
21/10/2021
23/10/2021
26/10/2021
28/10/2021
30/10/2021
C1
C2
C3
AL
LL

Dissolved Oxygen (Bottom) during Mid-Ebb
Concentration (mg/L)
14.0
12.0
10.0
8.0
6.0
4.0
2.0
0.0
02/10/2021
05/10/2021
07/10/2021
16/10/2021
19/10/2021
21/10/2021
23/10/2021
26/10/2021
28/10/2021
30/10/2021
IM1
IM2
IM3
IM4
IM5
IM6
AL
LL

Dissolved Oxygen (Bottom) during Mid-Ebb
Concentration (mg/L)
14.0
12.0
10.0
8.0
6.0
4.0
2.0
0.0
02/10/2021
05/10/2021
07/10/2021
16/10/2021
19/10/2021
21/10/2021
23/10/2021
26/10/2021
28/10/2021
30/10/2021
IM7
IM8
IM9
IM10
IM11
IM12
AL
LL

Dissolved Oxygen (Bottom) during Mid-Ebb
Concentration (mg/L)
14.0
12.0
10.0
8.0
6.0
4.0
2.0
0.0
02/10/2021
05/10/2021
07/10/2021
16/10/2021
19/10/2021
21/10/2021
23/10/2021
26/10/2021
28/10/2021
30/10/2021
SR1A
SR2
SR3
SR4A
SR5A
SR6A
SR7
SR8
AL
LL

Dissolved Oxygen (Bottom) during Mid-Flood
Concentration (mg/L)
14.0
12.0
10.0
8.0
6.0
4.0
2.0
0.0
02/10/2021
05/10/2021
07/10/2021
14/10/2021
16/10/2021
19/10/2021
21/10/2021
23/10/2021
26/10/2021
28/10/2021
30/10/2021
C1
C2
C3
SR2
AL
LL

Dissolved Oxygen (Bottom) during Mid-Flood
Concentration (mg/L)
14.0
12.0
10.0
8.0
6.0
4.0
2.0
0.0
02/10/2021
05/10/2021
07/10/2021
14/10/2021
16/10/2021
19/10/2021
21/10/2021
23/10/2021
26/10/2021
28/10/2021
30/10/2021
IM1
IM2
IM3
IM4
IM5
IM6
AL
LL

Dissolved Oxygen (Bottom) during Mid-Flood
Concentration (mg/L)
14.0
12.0
10.0
8.0
6.0
4.0
2.0
0.0
02/10/2021
05/10/2021
07/10/2021
14/10/2021
16/10/2021
19/10/2021
21/10/2021
23/10/2021
26/10/2021
28/10/2021
30/10/2021
IM7
IM8
IM9
IM10
IM11
IM12
AL
LL

Dissolved Oxygen (Bottom) during Mid-Flood
Concentration (mg/L)
14.0
12.0
10.0
8.0
6.0
4.0
2.0
0.0
02/10/2021
05/10/2021
07/10/2021
14/10/2021
16/10/2021
19/10/2021
21/10/2021
23/10/2021
26/10/2021
28/10/2021
30/10/2021
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.

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

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

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

Chinese White Dolphin Monitoring Results

CWD Small Vessel Line-transect Survey Survey Effort Data

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE	P/S
11-Aug-21	NWL	2	50.150	SUMMER	32166	3RS ET	P
11-Aug-21	NWL	3	10.620	SUMMER	32166	3RS ET	P
11-Aug-21	NWL	2	11.950	SUMMER	32166	3RS ET	S
16-Aug-21	SWL	2	38.120	SUMMER	32166	3RS ET	P
16-Aug-21	SWL	3	16.400	SUMMER	32166	3RS ET	P
16-Aug-21	SWL	2	12.480	SUMMER	32166	3RS ET	S
16-Aug-21	SWL	3	3.200	SUMMER	32166	3RS ET	S
18-Aug-21	AW	2	2.970	SUMMER	32166	3RS ET	P
18-Aug-21	AW	3	1.820	SUMMER	32166	3RS ET	P
18-Aug-21	WL	2	3.420	SUMMER	32166	3RS ET	P
18-Aug-21	WL	3	15.902	SUMMER	32166	3RS ET	P
18-Aug-21	WL	2	1.090	SUMMER	32166	3RS ET	S
18-Aug-21	WL	3	8.908	SUMMER	32166	3RS ET	S
19-Aug-21	NWL	2	35.700	SUMMER	32166	3RS ET	P
19-Aug-21	NWL	3	28.600	SUMMER	32166	3RS ET	P
19-Aug-21	NWL	2	9.900	SUMMER	32166	3RS ET	S
19-Aug-21	NWL	3	1.300	SUMMER	32166	3RS ET	S
20-Aug-21	SWL	1	1.087	SUMMER	32166	3RS ET	P
20-Aug-21	SWL	2	48.720	SUMMER	32166	3RS ET	P
20-Aug-21	SWL	3	3.500	SUMMER	32166	3RS ET	P
20-Aug-21	SWL	1	14.483	SUMMER	32166	3RS ET	S
20-Aug-21	SWL	2	2.300	SUMMER	32166	3RS ET	S
24-Aug-21	AW	2	4.770	SUMMER	32166	3RS ET	P
24-Aug-21	WL	2	6.700	SUMMER	32166	3RS ET	P
24-Aug-21	WL	3	13.750	SUMMER	32166	3RS ET	P
24-Aug-21	WL	2	3.190	SUMMER	32166	3RS ET	S
24-Aug-21	WL	3	7.610	SUMMER	32166	3RS ET	S
25-Aug-21	NEL	2	27.950	SUMMER	32166	3RS ET	P
25-Aug-21	NEL	3	9.200	SUMMER	32166	3RS ET	P
25-Aug-21	NEL	2	6.650	SUMMER	32166	3RS ET	S
25-Aug-21	NEL	3	3.400	SUMMER	32166	3RS ET	S
26-Aug-21	NEL	2	26.405	SUMMER	32166	3RS ET	P
26-Aug-21	NEL	3	10.375	SUMMER	32166	3RS ET	P
26-Aug-21	NEL	2	7.360	SUMMER	32166	3RS ET	S
26-Aug-21	NEL	3	3.160	SUMMER	32166	3RS ET	S
6-Sep-21	NEL	2	36.750	AUTUMN	32166	3RS ET	P
6-Sep-21	NEL	2	8.950	AUTUMN	32166	3RS ET	S
6-Sep-21	NEL	3	1.200	AUTUMN	32166	3RS ET	S
7-Sep-21	NWL	2	19.780	AUTUMN	32166	3RS ET	P
7-Sep-21	NWL	3	37.420	AUTUMN	32166	3RS ET	P
7-Sep-21	NWL	4	6.000	AUTUMN	32166	3RS ET	P
7-Sep-21	NWL	2	5.300	AUTUMN	32166	3RS ET	S
7-Sep-21	NWL	3	6.000	AUTUMN	32166	3RS ET	S
7-Sep-21	NWL	4	1.100	AUTUMN	32166	3RS ET	S
8-Sep-21	SWL	2	28.388	AUTUMN	32166	3RS ET	P
8-Sep-21	SWL	3	23.140	AUTUMN	32166	3RS ET	P
8-Sep-21	SWL	2	10.386	AUTUMN	32166	3RS ET	S

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE	P/S
8-Sep-21	SWL	3	4.150	AUTUMN	32166	3RS ET	S
10-Sep-21	NEL	2	7.300	AUTUMN	32166	3RS ET	P
10-Sep-21	NEL	3	26.580	AUTUMN	32166	3RS ET	P
10-Sep-21	NEL	4	3.200	AUTUMN	32166	3RS ET	P
10-Sep-21	NEL	2	2.820	AUTUMN	32166	3RS ET	S
10-Sep-21	NEL	3	7.300	AUTUMN	32166	3RS ET	S
14-Sep-21	SWL	2	29.785	AUTUMN	32166	3RS ET	P
14-Sep-21	SWL	3	20.800	AUTUMN	32166	3RS ET	P
14-Sep-21	SWL	4	2.450	AUTUMN	32166	3RS ET	P
14-Sep-21	SWL	2	9.852	AUTUMN	32166	3RS ET	S
14-Sep-21	SWL	3	7.200	AUTUMN	32166	3RS ET	S
16-Sep-21	AW	2	4.860	AUTUMN	32166	3RS ET	P
16-Sep-21	WL	2	9.094	AUTUMN	32166	3RS ET	P
16-Sep-21	WL	3	5.730	AUTUMN	32166	3RS ET	P
16-Sep-21	WL	2	3.753	AUTUMN	32166	3RS ET	S
16-Sep-21	WL	3	4.210	AUTUMN	32166	3RS ET	S
20-Sep-21	NWL	2	57.280	AUTUMN	32166	3RS ET	P
20-Sep-21	NWL	3	6.990	AUTUMN	32166	3RS ET	P
20-Sep-21	NWL	2	9.500	AUTUMN	32166	3RS ET	S
20-Sep-21	NWL	3	1.630	AUTUMN	32166	3RS ET	S
23-Sep-21	AW	2	1.200	AUTUMN	32166	3RS ET	P
23-Sep-21	AW	3	3.820	AUTUMN	32166	3RS ET	P
23-Sep-21	WL	2	6.040	AUTUMN	32166	3RS ET	P
23-Sep-21	WL	3	7.319	AUTUMN	32166	3RS ET	P
23-Sep-21	WL	4	4.400	AUTUMN	32166	3RS ET	P
23-Sep-21	WL	2	5.350	AUTUMN	32166	3RS ET	S
23-Sep-21	WL	3	3.161	AUTUMN	32166	3RS ET	S
23-Sep-21	WL	4	2.090	AUTUMN	32166	3RS ET	S
6-Oct-21	AW	3	1.940	AUTUMN	32166	3RS ET	P
6-Oct-21	AW	4	3.010	AUTUMN	32166	3RS ET	P
6-Oct-21	WL	3	9.820	AUTUMN	32166	3RS ET	P
6-Oct-21	WL	4	7.360	AUTUMN	32166	3RS ET	P
6-Oct-21	WL	3	7.509	AUTUMN	32166	3RS ET	S
6-Oct-21	WL	4	2.190	AUTUMN	32166	3RS ET	S
7-Oct-21	NWL	3	39.660	AUTUMN	32166	3RS ET	P
7-Oct-21	NWL	4	24.540	AUTUMN	32166	3RS ET	P
7-Oct-21	NWL	3	6.400	AUTUMN	32166	3RS ET	S
7-Oct-21	NWL	4	4.900	AUTUMN	32166	3RS ET	S
11-Oct-21	NWL	3	52.100	AUTUMN	32166	3RS ET	P
11-Oct-21	NWL	4	12.000	AUTUMN	32166	3RS ET	P
11-Oct-21	NWL	3	8.300	AUTUMN	32166	3RS ET	S
11-Oct-21	NWL	4	3.000	AUTUMN	32166	3RS ET	S
15-Oct-21	NEL	2	32.840	AUTUMN	32166	3RS ET	P
15-Oct-21	NEL	3	3.730	AUTUMN	32166	3RS ET	P
15-Oct-21	NEL	2	8.100	AUTUMN	32166	3RS ET	S
15-Oct-21	NEL	3	1.930	AUTUMN	32166	3RS ET	S
18-Oct-21	NEL	2	26.460	AUTUMN	32166	3RS ET	P
18-Oct-21	NEL	3	10.780	AUTUMN	32166	3RS ET	P
18-Oct-21	NEL	2	6.840	AUTUMN	32166	3RS ET	S

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE	P/S
18-Oct-21	NEL	3	3.220	AUTUMN	32166	3RS ET	S
19-Oct-21	AW	2	1.870	AUTUMN	32166	3RS ET	P
19-Oct-21	AW	3	2.940	AUTUMN	32166	3RS ET	P
19-Oct-21	WL	2	12.638	AUTUMN	32166	3RS ET	P
19-Oct-21	WL	3	5.821	AUTUMN	32166	3RS ET	P
19-Oct-21	WL	2	5.544	AUTUMN	32166	3RS ET	S
19-Oct-21	WL	3	3.723	AUTUMN	32166	3RS ET	S
20-Oct-21	SWL	3	19.450	AUTUMN	32166	3RS ET	P
20-Oct-21	SWL	4	33.040	AUTUMN	32166	3RS ET	P
20-Oct-21	SWL	5	3.800	AUTUMN	32166	3RS ET	P
20-Oct-21	SWL	3	8.320	AUTUMN	32166	3RS ET	S
20-Oct-21	SWL	4	4.890	AUTUMN	32166	3RS ET	S
20-Oct-21	SWL	5	0.900	AUTUMN	32166	3RS ET	S
27-Oct-21	SWL	2	13.470	AUTUMN	32166	3RS ET	P
27-Oct-21	SWL	3	39.770	AUTUMN	32166	3RS ET	P
27-Oct-21	SWL	2	5.020	AUTUMN	32166	3RS ET	S
27-Oct-21	SWL	3	12.150	AUTUMN	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
11-Aug-21	1	0948	CWD	3	NWL	3	29	ON	3RS ET	22.39316	113.87011	SUMMER	NONE	P
11-Aug-21	2	1226	CWD	4	NWL	2	415	ON	3RS ET	22.38048	113.88752	SUMMER	NONE	P
11-Aug-21	3	1328	CWD	1	NWL	2	27	ON	3RS ET	22.38116	113.89752	SUMMER	NONE	P
16-Aug-21	1	1109	FP	1	SWL	2	145	ON	3RS ET	22.16096	113.92744	SUMMER	NONE	P
18-Aug-21	1	1110	CWD	1	WL	3	75	ON	3RS ET	22.24156	113.84087	SUMMER	NONE	P
18-Aug-21	2	1221	CWD	6	WL	3	177	ON	3RS ET	22.19608	113.84060	SUMMER	PURSE SEINER	P
20-Aug-21	1	1048	FP	1	SWL	1	22	ON	3RS ET	22.15401	113.93612	SUMMER	NONE	P
20-Aug-21	2	1102	FP	1	SWL	2	352	ON	3RS ET	22.15871	113.92758	SUMMER	NONE	P
24-Aug-21	1	1148	CWD	4	WL	2	598	ON	3RS ET	22.20577	113.83268	SUMMER	NONE	P
8-Sep-21	1	1312	FP	4	SWL	2	119	ON	3RS ET	22.1520	113.8973	AUTUMN	NONE	P
8-Sep-21	2	1350	CWD	1	SWL	2	141	ON	3RS ET	22.2059	113.8879	AUTUMN	NONE	P
8-Sep-21	3	1436	CWD	1	SWL	3	133	ON	3RS ET	22.1733	113.8687	AUTUMN	NONE	P
8-Sep-21	4	1502	CWD	3	SWL	2	95	ON	3RS ET	22.1946	113.8587	AUTUMN	NONE	P
8-Sep-21	5	1537	CWD	6	SWL	3	729	ON	3RS ET	22.1754	113.8499	AUTUMN	NONE	P
14-Sep-21	1	1037	FP	3	SWL	2	157	ON	3RS ET	22.1819	113.9359	AUTUMN	NONE	P
14-Sep-21	2	1048	FP	1	SWL	2	170	ON	3RS ET	22.1602	113.9368	AUTUMN	NONE	P
14-Sep-21	3	1050	FP	4	SWL	2	35	ON	3RS ET	22.1577	113.9368	AUTUMN	NONE	P
14-Sep-21	4	1108	FP	2	SWL	2	179	ON	3RS ET	22.1582	113.9277	AUTUMN	NONE	P
14-Sep-21	5	1114	FP	5	SWL	2	234	ON	3RS ET	22.1666	113.9280	AUTUMN	NONE	P
14-Sep-21	6	1123	FP	2	SWL	2	63	ON	3RS ET	22.1830	113.9276	AUTUMN	NONE	P
16-Sep-21	1	1044	CWD	1	WL	3	154	ON	3RS ET	22.2606	113.8501	AUTUMN	NONE	P
16-Sep-21	2	1123	CWD	3	WL	3	170	ON	3RS ET	22.2410	113.8409	AUTUMN	NONE	P
16-Sep-21	3	1151	CWD	9	WL	2	67	ON	3RS ET	22.2255	113.8318	AUTUMN	NONE	P
16-Sep-21	4	1221	CWD	2	WL	2	215	ON	3RS ET	22.2051	113.8324	AUTUMN	NONE	P
16-Sep-21	5	1236	CWD	3	WL	2	141	ON	3RS ET	22.2012	113.8245	AUTUMN	NONE	S
16-Sep-21	6	1250	CWD	10	WL	2	208	ON	3RS ET	22.1961	113.8416	AUTUMN	NONE	P
16-Sep-21	7	1308	CWD	1	WL	2	31	ON	3RS ET	22.1926	113.8425	AUTUMN	NONE	S
20-Sep-21	1	1201	CWD	3	NWL	2	7	ON	3RS ET	22.3859	113.8781	AUTUMN	NONE	P
23-Sep-21	1	1046	CWD	1	WL	2	71	ON	3RS ET	22.2608	113.8454	AUTUMN	NONE	P
23-Sep-21	2	1110	CWD	2	WL	2	1497	ON	3RS ET	22.2444	113.8491	AUTUMN	NONE	S
23-Sep-21	3	1203	CWD	6	WL	3	22	ON	3RS ET	22.2139	113.8312	AUTUMN	NONE	P
6-Oct-21	1	1049	CWD	1	WL	3	47	ON	3RS ET	22.2604	113.8535	AUTUMN	NONE	S

DATE	STG #	TIME	CWD/FP	GP SZ	AREA	BEAU	PSD	EFFORT	TYPE	DEC LAT	DEC LON	SEASON	BOAT ASSOC.	P/S
6-Oct-21	2	1107	CWD	3	WL	3	32	ON	3RS ET	22.2607	113.8427	AUTUMN	NONE	P
6-Oct-21	3	1137	CWD	1	WL	3	94	ON	3RS ET	22.2413	113.8391	AUTUMN	NONE	P
6-Oct-21	4	1153	CWD	13	WL	3	162	ON	3RS ET	22.2318	113.8280	AUTUMN	NONE	P
6-Oct-21	5	1220	CWD	1	WL	3	15	ON	3RS ET	22.2317	113.8341	AUTUMN	NONE	P
6-Oct-21	6	1246	CWD	8	WL	3	100	ON	3RS ET	22.2140	113.8308	AUTUMN	NONE	P
19-Oct-21	1	1023	CWD	4	WL	2	192	ON	3RS ET	22.2706	113.8447	AUTUMN	NONE	P
19-Oct-21	2	1037	CWD	2	WL	2	201	ON	3RS ET	22.2689	113.8501	AUTUMN	NONE	P
19-Oct-21	3	1054	CWD	1	WL	2	355	ON	3RS ET	22.2651	113.8587	AUTUMN	NONE	S
19-Oct-21	4	1134	CWD	3	WL	3	93	ON	3RS ET	22.2342	113.8244	AUTUMN	NONE	S
19-Oct-21	5	1159	CWD	1	WL	2	282	ON	3RS ET	22.2242	113.8232	AUTUMN	NONE	P
19-Oct-21	6	1204	CWD	1	WL	3	54	ON	3RS ET	22.2225	113.8214	AUTUMN	SHRIMP TRAWLER	P
27-Oct-21	1	1100	FP	4	SWL	3	47	ON	3RS ET	22.1431	113.9276	AUTUMN	NONE	S
27-Oct-21	2	1111	FP	3	SWL	3	398	ON	3RS ET	22.1629	113.9275	AUTUMN	NONE	P
27-Oct-21	3	1240	CWD	1	SWL	2	218	ON	3RS ET	22.2046	113.9073	AUTUMN	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 350.345 km of survey effort was collected under Beaufort Sea State 3 or below with favourable visibility; total no. of 13 on-effort sightings and total number of 40 dolphins from on-effort sightings were collected under such condition. Calculation of the encounter rates in October 2021 are shown as below:

Encounter Rate by Number of Dolphin Sightings (STG) in October 2021

$$STG = \frac{13}{350.345}\ x\ 100 = 3.71$$

Encounter Rate by Number of Dolphins (ANI) in October 2021

$$ANI = \frac{40}{350.345}\ x\ 100 = 11.42$$

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

A total of 1226.523 km of survey effort was collected under Beaufort Sea State 3 or below with favourable visibility; total no. of 34 on-effort sightings and total number of 111 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)

$$STG = \frac{34}{1226.523}\ x\ 100 = 2.77$$

Running Quarterly Encounter Rate by Number of Dolphins (ANI)

$$ANI = \frac{111}{1226.523}\ x\ 100 = 9.05$$

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

WLMM043_20211006_1_9

WLMM071_20211006_2_4

WLMM168_20211006_2_2

NLMM081_20211006_4_4

SLMM007_20211006_4_3

SLMM025_20211006_4_6

SLMM049_20211006_4_5

SLMM052_20211006_4_2

WLMM007_20211006_4_2	WLMM062_20211006_4_1_Right
WLMM169_20211006_4_4	WLMM170_20211006_4_5_Left
SLMM003_20211006_6_11	SLMM037_20211006_6_1
WLMM079_20211006_6_1	SLMM030_20211019_2_3

SLMM031_20211027_3_7	

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
15/Oct/21	Sha Chau	10:37	16:37	6:00	2	2	0	-
25/Oct/21	Lung Kwu Chau	8:55	14:55	6:00	3	2-3	3	4-7

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

Appendix E. Calibration Certificates

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES

SUB-CONTRACTING REPORT

CONTACT	: HIN CHAN	WORK ORDER	: **HK2139964**
CLIENT	: **MOTT MACDONALD HONG KONG LIMITED**		
ADDRESS	: 3/F INTERNATIONAL TRADE TOWER, 348 KWUN TONG ROAD, KWUN TONG, KOWLOON, HONG KONG	SUB-BATCH	: 1
		DATE RECEIVED	: 4-OCT-2021
		DATE OF ISSUE	: 21-OCT-2021
PROJECT	: CALIBIRATION/PERFORMANCE CHECK OF DUST METER	NO. OF SAMPLES	: 1
		CLIENT ORDER	:---

General Comments

- **Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in ambient condition. The result(s) related only to the item(s) tested.**
- **Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.**
- **Calibration was subcontracted to and analysed by Action-United Environmental Services & Consulting.**

Signatories

This document has been signed by those names that appear on this report and are the authorised signatories

Signatories	*Position*
Richard Fung	Managing Director

This is the Final Report and supersedes any preliminary report with this batch number.

All pages of this report have been checked and approved for release.

ALS Technichem (HK) Pty Ltd
Part of the ALS Laboratory Group
11/F. Chung Shun Knitting Centre 1 - 3 Wing Yip Street Kwai Chung N.T. Hong Kong
Tel. +852 2610 1044 Fax. +852 2610 2021 **www.alsglobal.com**

WORK ORDER : HK2139964
SUB-BATCH : 1
CLIENT : MOTT MACDONALD HONG KONG LIMITED
PROJECT : CALIBIRATION/PERFORMANCE CHECK OF DUST METER

ALS Lab ID	Client's Sample ID	Sample Type	Sample Date	External Lab Report No.
HK2139964-001	S/N: 296098	Equipments	04-Oct-2021	S/N: 296098

Equipment Verification Report (TSP)

Equipment Calibrated:

Type:	Laser Dust monitor
Manufacturer:	Sibata LD-3B
Serial No.	296098
Equipment Ref:	Nil
Job Order	HK2139964

Standard Equipment:

Standard Equipment:	Higher Volume Sampler
Location & Location ID:	AUES office (calibration room)
Equipment Ref:	HVS 018
Last Calibration Date:	2 August 2021

Equipment Verification Results:

Testing Date: 11&18 October 2021

Hour	Time	Mean Temp °C	Mean Pressure (hPa)	Concentration in μg/m³ (Standard Equipment)	Total Count (Calibrated Equipment)	Count/Minute (Total Count/min)
2hr	09:33 ~ 11:33	28.5	1005.4	35.5	2326	19.4
2hr04min	11:34 ~ 13:38	28.5	1005.4	42.9	2659	21.4
2hr01min	09:16 ~ 11:17	23.9	1018.3	40.5	2427	20.0
2hr01min	11:20 ~ 13:21	23.9	1018.3	44.4	3750	31.1
2hr	13:25 ~ 15:25	23.9	1018.3	48.0	3841	32.0

Linear Regression of Y or X

Slope (K-factor): 1.4552 (μg/m3)/CPM

Correlation Coefficient (R) 0.9469

Date of Issue 20 October 2021

Remarks:

1. **Strong** Correlation (R>0.8)
2. Factor 1.4552 (μg/m3)/CPM should be applied for TSP monitoring

*If R<0.5, repair or re-verification is required for the equipment

Operator : Fai So Signature : Date : 20 October 2021

QC Reviewer : Ben Tam Signature : Date : 20 October 2021

TSP SAMPLER CALIBRATION CALCULATION SPREADSHEET

Location :	Gold King Industrial Building, Kwai Chung	Date of Calibration:	2-Aug-21
Location ID :	Calibration Room	Next Calibration Date:	2-Nov-21

CONDITIONS

Sea Level Pressure (hPa)	998.3	Corrected Pressure (mm Hg)	748.725
Temperature (ºC)	30.0	Temperature (K)	303

CALIBRATION ORIFICE

Make->	TISCH	Qstd Slope ->	2.10574
Model->	5025A	Qstd Intercept ->	-0.00985
Calibration Date->	19-Jan-21	Expiry Date->	18-Jan-22

CALIBRATION

Plate No.	H20 (L) (in)	H2O (R) (in)	H20 (in)	Qstd (m3/min)	I (chart)	IC corrected	LINEAR REGRESSION	
18	6.4	6.4	12.8	1.677	50	49.22	Slope =	30.5541
13	5.3	5.3	10.6	1.527	48	47.25	Intercept =	-0.5839
10	4.4	4.4	8.8	1.391	44	43.31	Corr. coeff. =	0.9906
8	2.6	2.6	5.2	1.071	31	30.51		
5	1.6	1.6	3.2	0.841	26	25.59		

Calculations :

Qstd = 1/m[Sqrt(H20(Pa/Pstd)(Tstd/Ta))-b]
IC = I[Sqrt(Pa/Pstd)(Tstd/Ta)]

Qstd = standard flow rate
IC = corrected chart respones
I = actual chart response
m = calibrator Qstd slope
b = calibrator Qstd intercept
Ta = actual temperature during calibration (deg K)
Pstd = actual pressure during calibration (mm Hg)

For subsequent calculation of sampler flow:

1/m((I)[Sqrt(298/Tav)(Pav/760)]-b)

m = sampler slope
b = sampler intercept
I = chart response
Tav = daily average temperature
Pav = daily average pressure

TISCH Environmental

RECALIBRATION DUE DATE:
January 19, 2022

Certificate of Calibration

Calibration Certification Information					
Cal. Date:	January 19, 2021	**Rootsmeter S/N:** 438320	**Ta:** 294	°K	
Operator:	Jim Tisch		**Pa:** 755.1	mm Hg	
Calibration Model #:	TE-5025A	**Calibrator S/N:** **1941**			

Run	Vol. Init (m3)	Vol. Final (m3)	ΔVol. (m3)	ΔTime (min)	ΔP (mm Hg)	ΔH (in H2O)
1	1	2	1	1.4830	3.2	2.00
2	3	4	1	1.0420	6.4	4.00
3	5	6	1	0.9290	8.0	5.00
4	7	8	1	0.8840	8.8	5.50
5	9	10	1	0.7340	12.9	8.00

Data Tabulation

Vstd (m3)	Qstd (x-axis)	$\sqrt{\Delta H\left(\frac{Pa}{Pstd}\right)\left(\frac{Tstd}{Ta}\right)}$ (y-axis)	Va	Qa (x-axis)	$\sqrt{\Delta H\left(Ta/Pa\right)}$ (y-axis)
1.0029	0.6762	1.4192	0.9958	0.6715	0.8824
0.9986	0.9583	2.0071	0.9915	0.9516	1.2479
0.9965	1.0726	2.2440	0.9894	1.0650	1.3952
0.9954	1.1260	2.3535	0.9883	1.1180	1.4633
0.9899	1.3487	2.8385	0.9829	1.3391	1.7648
QSTD	**m=**	**2.10574**	**QA**	**m=**	**1.31858**
	b=	**-0.00985**		**b=**	**-0.00612**
	r=	**0.99992**		**r=**	**0.99992**

Calculations

Vstd=	ΔVol((Pa-ΔP)/Pstd)(Tstd/Ta)	**Va=**	ΔVol((Pa-ΔP)/Pa)
Qstd=	Vstd/ΔTime	**Qa=**	Va/ΔTime

For subsequent flow rate calculations:

Qstd= $1/m\left(\left(\sqrt{\Delta H\left(\frac{Pa}{Pstd}\right)\left(\frac{Tstd}{Ta}\right)}\right)-b\right)$

Qa= $1/m\left(\left(\sqrt{\Delta H\left(Ta/Pa\right)}\right)-b\right)$

Standard Conditions	
Tstd:	298.15 °K
Pstd:	760 mm Hg

Key

- ΔH: calibrator manometer reading (in H2O)
- ΔP: rootsmeter manometer reading (mm Hg)
- Ta: actual absolute temperature (°K)
- Pa: actual barometric pressure (mm Hg)
- b: intercept
- m: slope

RECALIBRATION

US EPA recommends annual recalibration per 1998 40 Code of Federal Regulations Part 50 to 51, Appendix B to Part 50, Reference Method for the Determination of Suspended Particulate Matter in the Atmosphere, 9.2.17, page 30

Tisch Environmental, Inc.
145 South Miami Avenue
Village of Cleves, OH 45002

www.tisch-env.com
TOLL FREE: (877)263-7610
FAX: (513)467-9009

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

Report No. : BA100044
Date of Issue : 22 October 2021

PART A – CUSTOMER INFORMATION

Enovative Environmental Service Ltd.
Flat 2207, Yu Fun House,
Yu Chui Court, Shatin
New Territories, Hong Kong
Attn: Mr. Thomas WONG

PART B – DESCRIPTION

Name of Equipment	:	YSI ProDSS (Multi-Parameters)
Manufacturer	:	YSI (a xylem brand)
Serial Number	:	15M100005
Date of Received	:	Oct 22, 2021
Date of Calibration	:	Oct 22, 2021
Date of Next Calibration[a]	:	Jan 21, 2022

PART C – REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

Parameter	Reference Method
pH at 25°C	APHA 21e 4500-H^+ B
Dissolved Oxygen	APHA 21e 4500-O G
Conductivity at 25°C	APHA 21e 2510 B
Salinity	APHA 21e 2520 B
Turbidity	APHA 21e 2130 B
Temperature	Section 6 of international Accreditation New Zealand Technical Guide no. 3 Second edition March 2008: Working Thermometer Calibration Procedure.

PART D – CALIBRATION RESULTS[b,c]

(1) pH at 25°C

Target (pH unit)	Displayed Reading[d] (pH Unit)	Tolerance[e](pH Unit)	Results
4.00	4.09	0.09	Satisfactory
7.42	7.46	0.04	Satisfactory
10.01	10.11	0.10	Satisfactory

Tolerance of pH should be less than ±0.20 (pH unit)

(2) Temperature

Reading of Ref. thermometer (°C)	Displayed Reading (°C)	Tolerance (°C)	Results
10	10.0	0.0	Satisfactory
24	23.8	-0.2	Satisfactory
45	44.9	-0.1	Satisfactory

Tolerance limit of temperature should be less than ±2.0 (°C)

~ CONTINUED ON NEXT PAGE ~

Remark(s): -

[a] *The "Date of Next Calibration" is recommended according to best practice principals as practiced by QPT or quoted form relevant international standards.*
[b] *The results relate only to the calibrated equipment as received*
[c] *The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.*
[d] *"Displayed Reading" denotes the figure shown on item under calibration/ checking regardless of equipment precision or significant figures.*
[e] *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..*

LEE Chun-ning
Senior Chemist

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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

PART D – CALIBRATION RESULTS (Cont'd)

(3) Dissolved Oxygen

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)	Results
0.12	0.11	-0.01	Satisfactory
1.77	1.84	0.07	Satisfactory
5.01	5.17	0.16	Satisfactory
8.19	8.19	0.00	Satisfactory

Tolerance limit of dissolved oxygen should be less than ±0.50 (mg/L)

(4) Conductivity at 25°C

Conc. of KCl (M)	Expected Reading (μS/cm)	Displayed Reading (μS/cm)	Tolerance (%)	Results
0.001	146.9	153.2	4.29	Satisfactory
0.01	1412	1371	-2.90	Satisfactory
0.1	12890	12409	-3.73	Satisfactory
0.5	58670	57941	-1.24	Satisfactory
1.0	111900	111932	0.03	Satisfactory

Tolerance limit of conductivity should be less than ±10.0 (%)

(5) Salinity

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)	Results
10	9.90	-1.00	Satisfactory
20	19.93	-0.35	Satisfactory
30	30.14	0.47	Satisfactory

Tolerance limit of salinity should be less than ±10.0 (%)

(6) Turbidity

Expected Reading (NTU)	Displayed Reading[f] (NTU)	Tolerance[g] (%)	Results
0	0.10	--	Satisfactory
10	9.91	-0.9	Satisfactory
20	19.88	-0.6	Satisfactory
100	97.73	-2.3	Satisfactory
800	796.64	-0.4	Satisfactory

Tolerance limit of turbidity should be less than ±10.0 (%)

~ END OF REPORT ~

Remark(s): -

(f) *"Displayed Reading" presents the figures shown on item under calibration/ checking regardless of equipment precision or significant figures.*

(g) *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.*

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Appendix F. 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-RS0505-21	Valid from 7 Jul 2021 to 5 Jan 2022
		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

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-RS0497-21	Valid from 7 July 2021 to 6 Jan 2022
			GW-RS0501-21	Valid from 7 July 2021 to 6 Jan 2022
			PP-RS0005-21	Valid from 3 May 2021 to 1 Nov 2021
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-RS0286-21	Valid from 16 May 2021 to 15 Nov 2021
		Works area of 3303 (Reclamation area)	GW-RS0630-21	Superseded by GW-RS0803-21 on 29 Oct 2021
			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	469170	Receipt acknowledged by EPD on 6 Jul 2021
	Registration as Chemical Waste Producer	Works area of 3310	5213-951-C4620-01	Approval granted from EPD on 26 Jul 2021
	Bill Account for disposal	Works area of 3310	A/C 7040969	Approval granted from EPD on 8 Jul 2021
	Construction Noise Permit (General Works)	Works area of 3310	GW-RS0768-21	Valid from 6 Oct 2021 to 5 Apr 2022
3402	Notification of Construction Work under APCO	Works area of 3402	464622	Receipt acknowledged by EPD on 18 Feb 2021
	Bill Account for disposal	Works area of 3402	A/C 7032577	Approval granted from EPD on 27 Nov 2018
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)	453912	Receipt acknowledged by EPD on 3 Mar 2020
	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-RS0338-21	Valid from 1 June 2021 to 30 Nov 2021
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

Contract No.	Description	Location	Permit/ Reference No.	Status
	Construction Noise Permit (General Works)	Works area of 3405	GW-RS0700-21	Superseded by GW-RS0807-21
		Works area of 3405	GW-RS0807-21	Valid from 29 Oct 2021 to 26 Apr 2022
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 14 Jan 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-RS0594-21	Superseded by GW-RS0818-21 on 29 Oct 2021
		Works area of 3408	GW-RS0818-21	Valid from 29 Oct 2021 to 31 Mar 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
	Registration as Chemical Waste Producer	Works area of 3503	WPN 5113-951-L2845-02	Completion of Registration on 3 Sep 2019
		Stockpiling area of 3503	WPN 5113-951-L2845-04	Completion of Registration on 19 Jun 2020
	Discharge License under WPCO	Works area of 3503	WT00031258-2018	Valid from 6 Aug 2019 to 30 Jun 2023
			WT00036551-2020	Valid from 17 Sep 2020 to 30 Sep 2025
			WT00036697-2020	Valid from 2 Nov 2020 to 30 Nov 2025
	Bill Account for disposal	Works area of 3503	A/C 7029665	Approval granted from EPD on 27 Dec 2017
	Construction Noise Permit (General Works)	Works area of 3503	GW-RS0695-21	Superseded by GW-RS0758-21
		Works area of 3503	GW-RS0758-21	Valid from 9 Oct 2021 to 4 Mar 2022
		Stockpiling area of 3503	GW-RS0215-21	Superseded by GW-RS0785-21
		Stockpiling area of 3503	GW-RS0785-21	Valid from 20 Oct 2021 to 18 Apr 2022
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

Contract No.	Description	Location	Permit/ Reference No.	Status
			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-RS0710-21	Valid from 23 Sep 2021 to 22 Mar 2022
		Works area of 3508	GW-RS0778-21	Valid from 15 Oct 2021 to 12 Apr 2022
		Works area of 3508 (Area 10)	GW-RS0493-21	Valid from 27 Jun 2021 to 24 Dec 2021
		Works area of 3508 (Special Case)	GW-RS0414-21	Valid from 30 May 2021 to 25 Nov 2021
		Works area of 3508 (Special Case)	GW-RS0315-21	Valid from 12 May 2021 to 9 Nov 2021
		Works area of 3508 (Area 13)	GW-RS0711-21	Valid from 17 Sep 2021 to 30 Nov 2021
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-RS0407-21	Valid from 3 June 2021 to 30 Nov 2021
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

Contract No.	Description	Location	Permit/ Reference No.	Status
	Construction Noise Permit (General Works)	Works area of 3603	GW-RS0367-21	Valid from 24 May 2021 to 23 Nov 2021
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-RS0326-21	Superseded by GW-RS0748-21
		Works area of 3721	GW-RS0748-21	Valid from 6 Oct 2021 to 6 Mar 2022
3722	Notification of Construction Work under APCO	Works area of 3722A	465843	Receipt acknowledged by EPD on 14 Aug 2020
		Works area of 3722B	465845	Receipt acknowledged by EPD on 14 Aug 2020
		Works area of 3722C	465842	Receipt acknowledged by EPD on 14 Aug 2020
		Works area of 3722D	465846	Receipt acknowledged by EPD on 14 Aug 2020
	Registration as Chemical Waste Producer	Works area of 3722A	WPN 5218-951-T3863-01	Completion of Registration on 18 Mar 2020
		Works area of 3722B	WPN 5218-951-T3864-01	Completion of Registration on 18 Mar 2020
		Works area of 3722C	WPN 5218-951-T3862-01	Completion of Registration on 18 Mar 2020
		Works area of 3722D	WPN 5218-951-T3865-01	Completion of Registration on 18 Mar 2020
	Discharge License under WPCO	Sewage Treatment Facility of 3722D	WT00037491-2021	Valid from 30 Mar 2021 to 31 Mar 2026
	Bill Account for disposal	Works area of 3722A	A/C 7036752	Approval granted from EPD on 11 Mar 2020
		Works area of 3722B	A/C 7036966	Approval granted from EPD on 6 Apr 2020
		Works area of 3722C	A/C 7036967	Approval granted from EPD on 6 Apr 2020
		Works area of 3722D	A/C 7036795	Approval granted from EPD on 20 Mar 2020
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
	Registration as Chemical Waste Producer	3723A	WPN 5218-951-T3920-01	Completion of Registration on 9 Feb 2021
		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

Contract No.	Description	Location	Permit/ Reference No.	Status
		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
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
3801	Notification of Construction Work under APCO	Works area of 3801	418345	Receipt acknowledged by EPD on 26 Jun 2017
			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 24 Nov 2017 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
	Registration as Chemical Waste Producer	Works area of 3802	WPN 5218-951-G2895-01	Completion of Registration on 28 Aug 2020
		Works area of 3802	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
	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-RS0404-21	Superseded by GW-RS0808-21
		Works area of 3802	GW-RS0808-21	Valid from 29 Oct 2021 to 24 Apr 2022
		Works area of 3802	GW-RS0734-21	Valid from 7 Oct 2021 to 27 Mar 2022
3901A	Notification of Construction	Works area of 3901A	466883	Receipt acknowledged by EPD on 26 Apr 2021

Contract No.	Description	Location	Permit/ Reference No.	Status
	Work under APCO			
	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/C7037889	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
	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
	Construction Noise Permit (General Works)	Works area of 3901B	GW-RS0702-21	Valid from 16 Sep 2021 to 13 Mar 2022

Appendix G. 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	2	1	1
From 28 December 2015 to end of the reporting period	42	2	2