



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

Construction Phase Monthly EM&A Report No.67
(For July 2021)

August 2021

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

T +852 2828 5757
F +852 2827 1823
mottmac.hk

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This Monthly EM&A Report No. 67 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

13 August 2021



AECOM +852 3922 9000 tel
12/F, Grand Central Plaza, Tower +852 3922 9797 fax
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

Our Ref : 60440482/C/JCHL210813

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

13 August 2021

Dear Sir,

Contract No. 3102
3RS Independent Environmental Checker Consultancy Services

Submission of Monthly EM&A Report No. 67 (July 2021)

Reference is made to the Environmental Team's submission of the Monthly EM&A Report No. 67 under Condition 3.5 of the Environmental Permit No. EP-489/2014 certified by the ET Leader on 13 August 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 67th 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 July 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	30
Noise monitoring	18
Water quality monitoring	13
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.

With reference to the requirement as stipulated in Section 6.2.1.3 of the Updated EM&A Manual, the proposed methodology for carrying out the annual sewage flow monitoring for the existing gravity sewer was approved by EPD on 21 June 2021. The annual sewage flow monitoring has been started from June 2021.

Snapshots of EM&A Activities in the Reporting Period

		
Photo Shoot for Identification of CWD	Impact Air Quality Monitoring conducted by ET in Man Tung Road Park	On-site Checking of Water Spraying Record conducted by ET

Results of Impact Monitoring

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

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

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

Summary of Upcoming Key Issues

Reclamation Works:

Contract 3206 Main Reclamation Works

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

Airfield Works:

Contract 3301 North Runway Crossover Taxiway

- Cable ducting works; and
- Paving works.

Contract 3302 Eastern Vehicular Tunnel Advance Works

- Cable laying and ducting works;
- Backfilling and reinstatement works; and

- Piling and structure works.

Contract 3303 Third Runway and Associated Works

- Footing and utilities work;
- Piling work;
- Construction of approach light;
- Operation of asphalt plant; and
- Cable laying and ducting works.

Contract 3305 Airfield Ground Lighting System

- Genset installation; and
- Site establishment.

Contract 3307 Fire Training Facility

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

Third Runway Concourse:**Contract 3403 New Integrated Airport Centres Building and Civil Works**

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

Contract 3405 Third Runway Concourse Foundation and Substructure Works

- Foundation works;
- Piling work;
- Excavation and backfilling; and
- Road formation.

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;
- 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;
- Formwork erection and;
- Concreting work.

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

- Electrical and mechanical installation; and
- Site establishment.

Contract 3723 Construction Support Facilities

- Erection of site office;
- Electrical and mechanical installation; and
- Sewage pump and treatment system installation

Airport Support Infrastructure:**Contract 3801 APM and BHS Tunnels on Existing Airport Island**

- Formwork and rebar fixing;
- Backfilling;
- Hanger support installation; and
- Demolition works.

Contract 3802 APM and BHS Tunnels and Related Works

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

Construction Support (Services / Licences):**Contract 3901A Concrete Batching Facility**

- Plant operation; and
- Material conveyor belt construction.

Contract 3901B Concrete Batching Facility

- Plant operation; and
- Foundation 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	√		In the previous reporting period, a complaint regarding dust issue at the eastern quay of the Project was received on 21 June 2021.	ET requested the relevant contractors to provide information related to the complaint. Regular site inspections and <i>ad-hoc</i> inspection were conducted in which no observation related to dust issue was recorded. ET also observed contractor was conducting water spraying at concerned area during ET's site inspection. Nevertheless, all contractors were reminded to continue implementing water spraying properly and adequately at their work areas. ET and IEC would continue to monitor contractors' dust suppression measures during environmental site inspections and the implementation of these measures at the concerned area. Hence, the complaint case was considered closed.
			In the previous reporting period, a complaint regarding muddy water from the Project was received on 28 June 2021.	ET requested the relevant contractors to provide information related to the complaint. Regular site inspections and joint inspection were conducted in which no illegal discharge was identified in the checklists. Moreover, Hong Kong Observatory issued four Amber Rainstorm Warning Signals on 22, 23, 24 June which might suggest heavy rainfall resulting in surface runoff at the alleged area. To follow up, ET would remind the contractors to pay attention on the possibility of surface run off, especially during rainy season and carry out further improvement on current measures if needed. Hence, the complaint case was considered closed.
			A complaint regarding dust issue at 3RS construction site area was received at 13 July 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		√	No notification of summons or prosecution was received.	Nil
Change that affect the EM&A		√	There was no change to the construction works that may affect the EM&A.	Nil

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

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

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

The summary of construction works programme can be referred to **Section 1.4**.

1.2 Scope of this Report

This is the 67th 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 July 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
	Deputy Environmental Team Leader	Daniel Sum	2585 8495
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 3307 Fire Training Facility (Paul Y. Construction Company Limited)	Project Manager	Steven Meredith	6109 1813
	Environmental Officer	Albert Chan	9700 1083

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 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	Gomez Yuen	9098 7807
Contract 3508 Terminal 2 Expansion Works (Gammon Engineering & Construction Company Limited)	Project Director	Richard Ellis	6201 5637
	Environmental Officer	Gena Tsang	9511 2283

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

Party	Position	Name	Telephone
Contract 3601 New Automated People Mover System (TRC Line) (CRRP Puzhen Bombardier Transportation Systems Limited and CRRP 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	Project Manager	Kunihiko Tatecho	9755 0351

Party	Position	Name	Telephone
(Niigata Transys Co., Ltd.)	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	9049 3161
	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	9049 3161
	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	Ivan Law	9852 5591
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 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.

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 for all environmental aspects under the Updated EM&A Manual

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

Parameters	EM&A Requirements	Status
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 ₂ S 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 ₂ S 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 Egretty Survey Plan	Once per month in the breeding season between April and July, prior to the commencement of HDD drilling works.	The Egretty Survey Plan was submitted and approved by EPD under EP Condition 2.14.
Ecological Monitoring	Monthly monitoring during the HDD construction works period from August to March.	The terrestrial ecological monitoring at Sheung Sha Chau was completed in January 2019.
Marine Ecology		
Pre-Construction Phase Coral Dive Survey	Prior to marine construction works	The Coral Translocation Plan was submitted and approved by EPD under EP Condition 2.12.
Coral Translocation	-	The coral translocation was completed.
Post-Translocation Coral Monitoring	As per an enhanced monitoring programme based on the Coral Translocation Plan	The post-translocation monitoring programme according to the Coral Translocation Plan was completed in April 2018.
Chinese White Dolphins (CWD)		
Baseline Monitoring	6 months of baseline surveys before the commencement of land formation related construction works. Vessel line transect surveys: Two full surveys per month; Land-based theodolite tracking surveys: Two days per month at the Sha Chau station and two days per month at the Lung Kwu Chau station; and 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	On-going

Parameters	EM&A Requirements	Status
	and one day per month at the Lung Kwu Chau station; and PAM: For the whole duration for land formation related construction works.	
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:

- Seventeen environmental management meetings for EM&A review with works contracts: 2, 8, 9, 13, 14, 19, 21, 22, 23, 29 and 30 July 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 A**.

2 Air Quality Monitoring

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

Table 2.1: Locations of Impact Air Quality Monitoring Stations

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

2.1 Action and Limit Levels

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

Table 2.2: Action and Limit Levels of Air Quality Monitoring

Monitoring Station	Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
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 2020	Monthly EM&A Report No. 58, Appendix E
	SIBATA LD-3B-1 (Serial No. 597337)	10 May 2021	Monthly EM&A Report No. 65, Appendix D

2.3 Monitoring Methodology

2.3.1 Measuring Procedure

The measurement procedures involved in the impact air quality monitoring can be summarised as follows:

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

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

2.3.2 Maintenance and Calibration

The portable direct reading dust meter is calibrated every year against high volume sampler (HVS) to check the validity and accuracy of the results measured by direct reading method. The calibration record of the HVS provided in Appendix D of Construction Phase Monthly EM&A Report No. 65, and the calibration certificates of portable direct reading dust meters listed in **Table 2.3** are valid in the reporting period.

2.4 Summary of Monitoring Results

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

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

Table 2.4: Summary of Air Quality Monitoring Results

Monitoring Station	1-hr TSP Concentration Range ($\mu\text{g}/\text{m}^3$)	Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
AR1A	7 - 43	306	500
AR2	11 - 39	298	

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

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

2.5 Conclusion

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

3 Noise Monitoring

Noise monitoring in the form of 30-minute measurements of L_{eq} , L_{10} , and L_{90} levels was conducted once per week between 0700 and 1900 on normal weekdays at four representative monitoring stations in the vicinity of noise sensitive receivers in Tung Chung and villages in North Lantau in accordance with the Manual. **Table 3.1** describes the details of the monitoring stations. **Figure 2.1** shows the locations of the monitoring stations.

Table 3.1: Locations of Impact Noise Monitoring Stations

Monitoring Station	Location	Type of measurement
NM1A	Man Tung Road Park	Free field
NM2 ⁽¹⁾	Tung Chung West Development	To be determined
NM3A ⁽²⁾	Site Office	Facade
NM4	Ching Chung Hau Po Woon Primary School	Free field
NM5	Village House in Tin Sum	Free field
NM6	House No. 1, Sha Lo Wan	Free field

Note:

- (1) As described in Section 4.3.3 of the Manual, noise monitoring at NM2 will only commence after occupation of the future Tung Chung West Development.
- (2) According to Section 4.3.3 of the Manual, the noise monitoring at NM3A was temporarily suspended starting from 1 September 2018 and would be resumed with the completion of the Tung Chung East Development.

3.1 Action and Limit Levels

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

Table 3.2: Action and Limit Levels for Noise Monitoring

Monitoring Stations	Time Period	Action Level	Limit Level, $L_{eq(30mins)}$ dB(A)
NM1A, NM2, NM3A, NM4, NM5 and NM6	0700-1900 hours on normal weekdays	When one documented complaint is received from any one of the sensitive receivers	75dB(A) ⁽¹⁾

Note:

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

3.2 Monitoring Equipment

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

Table 3.3: Noise Monitoring Equipment

Equipment	Brand and Model	Last Calibration Date	Calibration Certificate Provided in
Integrated Sound Level Meter	Rion NL-52 (Serial No. 00998505)	20 Mar 2021	Monthly EM&A Report No. 63, Appendix E
	Rion NL-52 (Serial No. 01287679)	20 Jun 2021	Monthly EM&A Report No. 66, Appendix D
Acoustic Calibrator	Casella CEL-120/1 (Serial No. 2383737)	20 Jun 2021	Monthly EM&A Report No. 66, Appendix D
	Castle GA607 (Serial No. 040162)	20 Mar 2021	Monthly EM&A Report No. 63, Appendix E

3.3 Monitoring Methodology

3.3.1 Monitoring Procedure

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

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

3.3.2 Maintenance and Calibration

The maintenance and calibration procedures are summarised below:

- a. The microphone head of the sound level meter was cleaned with soft cloth at regular intervals.
- b. The meter and calibrator were sent to the supplier or laboratory accredited under Hong Kong Laboratory Accreditation Scheme (HOKLAS) to check and calibrate at yearly intervals.

Calibration certificates of the sound level meters and acoustic calibrators used in the noise monitoring listed in **Table 3.3** are valid in the reporting period.

3.4 Summary of Monitoring Results

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

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

Table 3.4: Summary of Construction Noise Monitoring Results

Monitoring Station	Noise Level Range, dB(A)	Limit Level, dB(A)
	<i>L_{eq}</i> (30mins)	<i>L_{eq}</i> (30mins)
NM1A ⁽¹⁾	70 - 73	75
NM4 ⁽¹⁾⁽³⁾	60 - 63	70 ⁽²⁾
NM5 ⁽¹⁾⁽³⁾	53 - 62	75
NM6 ⁽¹⁾⁽³⁾	60 - 70	75

Notes:

- (1) +3dB(A) Façade correction included;
- (2) Reduced to 65dB(A) during school examination periods at NM4. Pre-Secondary 1 Hong Kong Attainment Test took place on 13 July 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		Surface and Middle	
	4.5mg/l		4.1mg/l	5mg/l for Fish Culture Zone (SR7) only
Suspended Solids (SS) in mg/l	Bottom		Bottom	
	3.4mg/l		2.7mg/l	
Turbidity in NTU	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
	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 6920V2 (Serial No. 0001C6A7)	22 Apr 2021 ⁽¹⁾	Monthly EM&A Report No. 64, Appendix E
	YSI 6920V2 (Serial No. 0001CF6C)	20 May 2021	Monthly EM&A Report No. 65, Appendix D
	YSI ProDSS (Serial No. 18A104824)	18 Jun 2021	Monthly EM&A Report No. 66, Appendix D
	YSI ProDSS (Serial No. 15M100005)	26 Jul 2021	Appendix D
	YSI ProDSS (Serial No. 16H104234)	22 Apr 2021 ⁽¹⁾	Monthly EM&A Report No. 64, Appendix E
	YSI ProDSS (Serial No. 16H104233)	20 May 2021	Monthly EM&A Report No. 65, Appendix D
	YSI ProDSS (Serial No. 17E100747)	18 Jun 2021	Monthly EM&A Report No. 66, Appendix D
	YSI ProDSS (Serial No. 17H105557)	26 Jul 2021	Appendix D

Note:

- (1) The monitoring equipment was not used in the reporting period after the expiry date of the calibration certificate.

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 4°C 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 B**. Monitoring sessions on 20 July 2021 was 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 C**.

For SS, some of the testing results triggered the corresponding Action and Limit 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
01/07/2021																				
03/07/2021																				
06/07/2021																				
08/07/2021				D																
10/07/2021																				
13/07/2021																				
15/07/2021																				
17/07/2021																				
22/07/2021																				
24/07/2021																				
27/07/2021																				
29/07/2021																				
31/07/2021																				
No. of result triggering Action or Limit Level	0	0	0	1	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
01/07/2021																			
03/07/2021																			
06/07/2021																			
08/07/2021																			
10/07/2021																			
13/07/2021																			
15/07/2021																			
17/07/2021																			
22/07/2021																			
24/07/2021																			
27/07/2021																			
29/07/2021																			
31/07/2021																			
No. of result triggering Action or Limit Level	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0

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

Monitoring results triggered the corresponding Action and Limit Levels on 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, EPD, IEC and Contractor were informed when the corresponding Action or Limit Levels were triggered.

Investigation focusing on the case which occurred at a monitoring station located downstream of the Project was carried out. Details of the Project's marine construction activities and site observations of the concerned monitoring day 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
08/07/2021	Marine Piling	At least 5.5km	Silt curtain deployed	No	No	No

The investigation confirmed that marine piling was conducted with silt curtains deployed during the concerned monitoring day. The silt curtains were maintained properly and checked by ET regularly.

For SS result recorded in ebb tide at IM4 on 8 July 2021 which triggered the corresponding Action Level, no silt plume was observed at this monitoring station and appropriate mitigation measures were implemented properly by the contractor. No muddy water discharges from outfalls of the reclaimed land were observed. Moreover, the location of IM4 was far away (i.e. at least 5.5km) from the nearest marine construction activity of the Project, so it was unlikely affected by the Project. Therefore, the case was considered unlikely due to the Project.

4.5 Conclusion

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

Based on the investigation findings, all results that triggered the corresponding Action Level and Limit 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 during weekly site inspection and regular environmental management meetings. These include maintaining mitigation measures properly for reclamation works including marine filling and seawall construction as recommended in the Manual.

5 Waste Management

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

5.1 Action and Limit Levels

The Action and Limit Levels of the construction waste are provided in **Table 5.1**.

Table 5.1: Action and Limit Levels for Construction Waste

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

5.2 Waste Management Status

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

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

Based on updated information provided by contractors, construction waste generated in the reporting period is summarised in **Table 5.2**. 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' facilities 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)
June 2021 ⁽²⁾⁽³⁾	*17,809	*106,196	0	*5,169	120	*800	*1,235
July 2021 ⁽²⁾⁽⁴⁾	28,937	106,079	381	4,514	0	0	1,582

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

Waypoint	Easting	Northing	Waypoint	Easting	Northing
5S	806473	801250	10S	811446	801335
5N	806473	808458	10N	811446	809436

6.2.2 Land-based Theodolite Tracking Survey

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

Table 6.3: Land-based Theodolite Survey Station Details

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

6.3 CWD Monitoring Methodology

6.3.1 Small Vessel Line-transect Survey

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

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

As mentioned in **Section 6.2.1**, the transects covered NEL, NWL, 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 12, 13, 14, 19, 21, 22, 26 and 28 July 2021, covering all transects in NEL, NWL, AW, WL and SWL survey areas for twice.

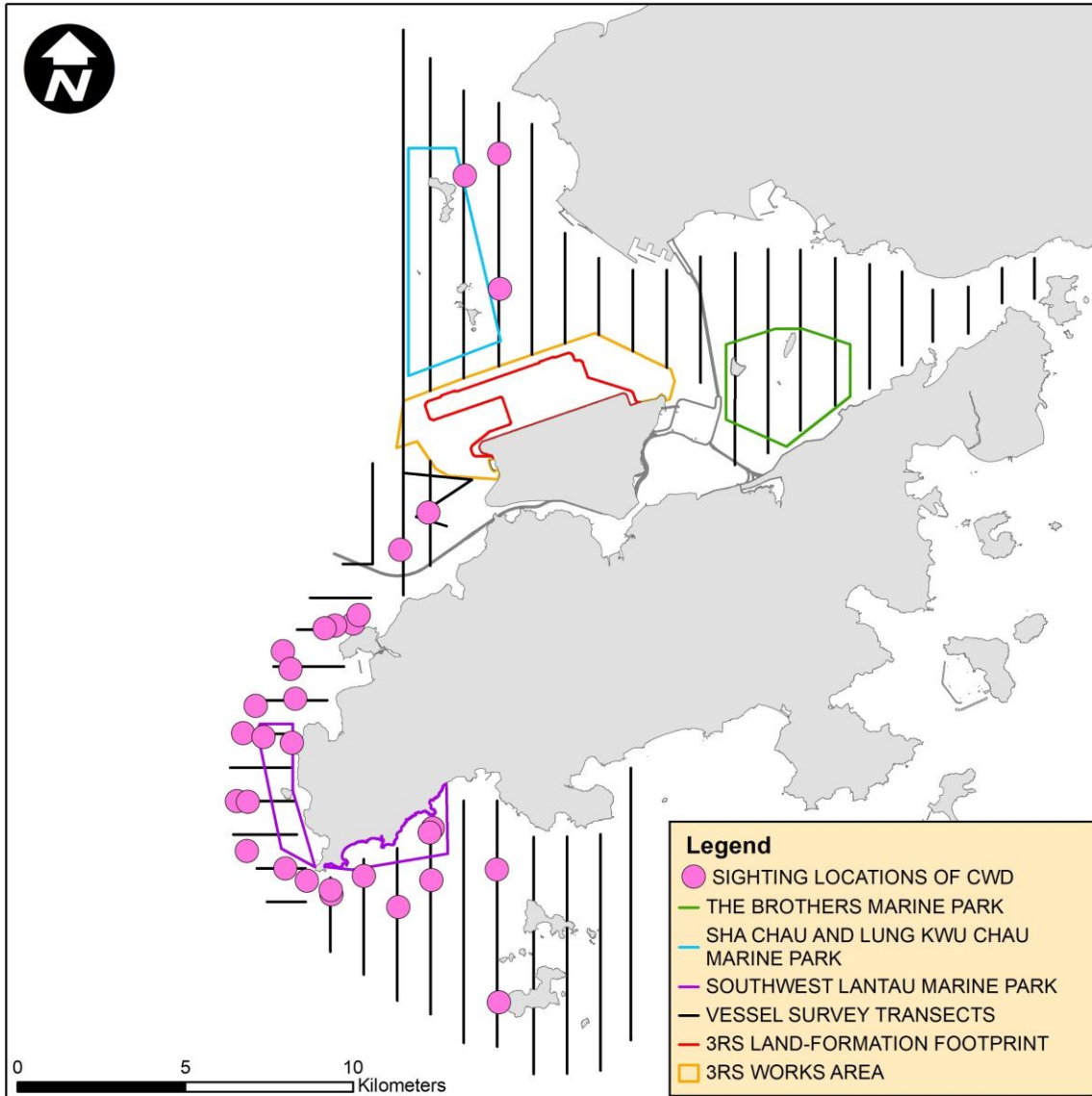
A total of around 432.30km of survey effort was collected from these surveys and around 98.1% of the survey effort was being conducted under favourable weather condition (i.e. Beaufort Sea State 3 or below with favourable visibility). Details of the survey effort are given in **Appendix C**.

Sighting Distribution

In July 2021, 30 sightings with 93 dolphins were sighted. Amongst these sightings, 29 sightings with 90 dolphins 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 C**.

Distribution of all CWD sightings recorded in July 2021 is illustrated in **Figure 6.3**. In WL, CWD sightings were scattered between Tai O and Fan Lau with more CWD groups sighted between Tai O and Yi O. In SWL, the majority of the CWD sightings were recorded within or south to the Southwest Lantau Marine Park. After three months of nil sighting in NWL between April and June 2021, CWD were re-occurring in NWL in this reporting month. Three CWD sightings were sighted in Urmston Road waters between Lung Kwu Tan and SCLKCMP while other two CWD sightings were recorded at the southwestern corner of the survey area. There was no CWD sighting recorded in NEL survey area during the reporting period.

Figure 6.3: Sightings Distribution of Chinese White Dolphins



Remarks: (1) Please note that there are 30 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)

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

Encounter Rate by Number of Dolphins (ANI)

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

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

In July 2021, a total of around 424.23 km of survey effort were conducted under Beaufort Sea State 3 or below with favourable visibility, whilst a total number of 29 on-effort sightings with 90 dolphins were sighted under such condition. Calculation of the encounter rates for the month are shown in **Appendix C**.

For the running quarter of the reporting period (i.e., from May to July 2021), a total of around 1116.93 km of survey effort were conducted under Beaufort Sea State 3 or below with favourable visibility, whilst a total number of 49 on-effort sightings and a total number of 145 dolphins from on-effort sightings were obtained under such condition. Calculation of the running quarterly encounter rates are shown in **Appendix C**.

The STG and ANI of CWD in the whole survey area (i.e. NEL, NWL, AW, WL and SWL) during the month of July 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 fall below the Action Level, the Action Level is not triggered as the running quarterly STG remain 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)
July 2021	6.84	21.22
Running Quarter from May to July 2021 ⁽¹⁾	4.39	12.98
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 May to July 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 July 2021, 30 groups of 93 dolphins in total were sighted, and the average group size of CWDs was 3.10 dolphins per group. Number of sightings with medium group size (i.e. 3-9 dolphins) was slightly higher than that with small group size (i.e. 1-2 dolphins). There were no CWD sightings with large group size (i.e. 10 or more dolphins).

Activities and Association with Fishing Boats

Eleven CWD sightings were recorded engaging in feeding activities in July 2021 and four sightings were observed in association with operating purse seiners. Two of these sightings were recorded in WL and the other two were sighted in SWL.

Mother-calf Pair

In July 2021, there were two CWD sightings recorded with the presence of mother-and-unspotted juvenile pair. These two sightings were recorded in NWL and WL respectively.

6.4.2 Photo Identification

In July 2021, a total number of 35 different CWD individuals were identified for totally 50 times. A summary of photo identification works is presented in **Table 6.5**. Representative photos of these individuals are given in **Appendix C**.

Table 6.5: Summary of Photo Identification

Individual ID	Date of Sighting (dd-mmm-yy)	Sighting Group No.	Area	Individual ID	Date of Sighting (dd-mmm-yy)	Sighting Group No.	Area
NLMM001	22-Jul-21	4	WL	WLMM001	12-Jul-21	4	SWL
NLMM009	26-Jul-21	2	NWL		22-Jul-21	3	WL
NLMM013	26-Jul-21	1	NWL	WLMM009	12-Jul-21	6	SWL
		2	NWL	WLMM028	22-Jul-21	7	WL
NLMM015	26-Jul-21	2	NWL			9	WL
NLMM023	28-Jul-21	3	NWL	WLMM029	22-Jul-21	7	WL
NLMM078	22-Jul-21	1	WL	WLMM030	14-Jul-21	3	WL
SLMM003	14-Jul-21	2	WL	WLMM043	14-Jul-21	1	WL
		7	WL			4	WL
SLMM010	14-Jul-21	2	WL		22-Jul-21	1	WL
	22-Jul-21	1	WL	WLMM063	22-Jul-21	5	WL
		2	WL	WLMM067	22-Jul-21	1	WL
SLMM012	13-Jul-21	3	SWL	WLMM073	12-Jul-21	5	SWL
SLMM014	12-Jul-21	2	SWL	WLMM076	14-Jul-21	6	WL
	14-Jul-21	5	WL		22-Jul-21	1	WL
SLMM023	13-Jul-21	3	SWL	WLMM089	28-Jul-21	1	NWL
SLMM027	13-Jul-21	3	SWL			2	NWL
SLMM034	13-Jul-21	3	SWL	WLMM091	14-Jul-21	3	WL
SLMM037	12-Jul-21	3	SWL	WLMM092	14-Jul-21	3	WL
	13-Jul-21	2	SWL		22-Jul-21	6	WL
	14-Jul-21	7	WL	WLMM114	12-Jul-21	4	SWL
SLMM045	22-Jul-21	2	WL		13-Jul-21	3	SWL
SLMM049	13-Jul-21	3	SWL	WLMM122	22-Jul-21	1	WL
SLMM060	13-Jul-21	1	SWL	WLMM131	14-Jul-21	6	WL
SLMM064	22-Jul-21	3	WL	WLMM166	22-Jul-21	2	WL

6.4.3 Land-based Theodolite Tracking Survey

Survey Effort

Land-based theodolite tracking surveys were conducted at LKC on 12 July 2021 and at SC on 27 July 2021, with a total of two days of land-based theodolite tracking survey effort accomplished in this reporting period. One CWD group was 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 C**.

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

Land-based Station	No. of Survey Sessions	Survey Effort (hh:mm)	No. of CWD Groups Sighted	CWD Group Sighting per Survey Hour
Lung Kwu Chau	1	6:00	1	0.17
Sha Chau	1	6:00	0	0
TOTAL	2	12:00	1	0.08

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 remained underwater and positioned at south of Sha Chau Island inside the SCLKCMP (**Figure 6.5**). The F-POD was last deployed on 20 May 2021 and the next re-deployment is scheduled in early August 2021 to retrieve the data for analysis. 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, in which dolphin observers were deployed by contractor in accordance with the MMWP. Overall, 2 to 7 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 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 B**. Bi-weekly site inspections were also conducted by the IEC. Besides, *ad-hoc* site inspections were conducted by ET and IEC if environmental problems were identified, or subsequent to receipt of an environmental complaint, or as part of the investigation work. These site inspections provided a direct means to reinforce the specified environmental protection requirements and pollution control measures in construction sites.

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

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

Good site practices were observed in site inspections during the reporting period. Advice 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 A**.

7.2 Landscape and Visual Mitigation Measures

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

intended aims of the measures. Site inspections shall be undertaken at least once every two months during the operation phase.






The implementation status of the environmental protection measures 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 clarified by the Contractors during the monthly Environmental Management Meetings. Implementation of the measures CM5, CM6 and CM7 by Contractors was observed.	3RS Project 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.	3302, 3503, 3508, 3602, 3801 3802 (To be implemented)
	The Contractors' performance on the implementation of the tree maintenance and protection measures were observed and checked by the ET weekly during construction period.	

Landscape and Visual Mitigation Measures during Construction	Implementation Status	Relevant Contract(s) in the Reporting Period
<p>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</p>	<p>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.</p> <p>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.</p> <p>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.</p> <p>Long term management of the transplanted trees were currently monitored by ET annually.</p>	<p>3503, 3508, 3801</p> <p>3802 (To be implemented)</p>
<p>CM 10 – Land formation works shall be followed with advanced hydroseeding around taxiways and runways as soon as practical</p>	<p>To be implemented around taxiways and runways as soon as practicable.</p>	<p>To be implemented</p>

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

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

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 87 and 26, respectively. A total of 90 nos. trees (including 11 nos. retained trees from Contract 3503 and 79 nos. provisional trees from Contract 3508) were not located within their works areas and were excluded from the Project. Moreover, seven trees under Contract 3508 were transplanted to their corresponding receptor sites during this reporting period. Details of the retained trees, transplanted trees and to-be-transplanted trees under the Project are summarized in **Table 7.5**. Photos of transplanted trees are presented in **Table 7.7**. Locations of newly transplanted trees during the reporting period are presented in **Figure 7.1**.

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

Table 7.3: Monitoring Programme for Landscape and Visual

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

Table 7.4: Event and Action Plan for Landscape and Visual

Event Action Level	Action			
	ET	IEC	AAHK / PM	Contractor
Design Check	Check final design conforms to the requirements of EP and prepare report.	Check report. Recommend remedial design if necessary.	Undertake remedial design if necessary.	
Non-conformity on one occasion	Identify source. Inform IEC and AAHK / PM. 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⁾	25	12	0	0
3602	2	0	0	0
3801	43	0	5 ⁽²⁾	0
Sub-total	87	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	138	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 fell after transplantation. Please refer to **Table 7.6** for details.






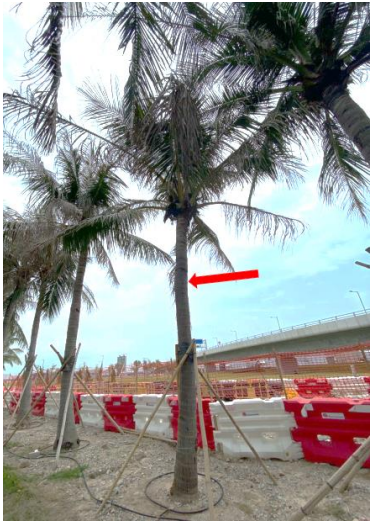


Summary of the updated transplanted trees and photos are presented in **Table 7.6** and **Table 7.7** respectively.

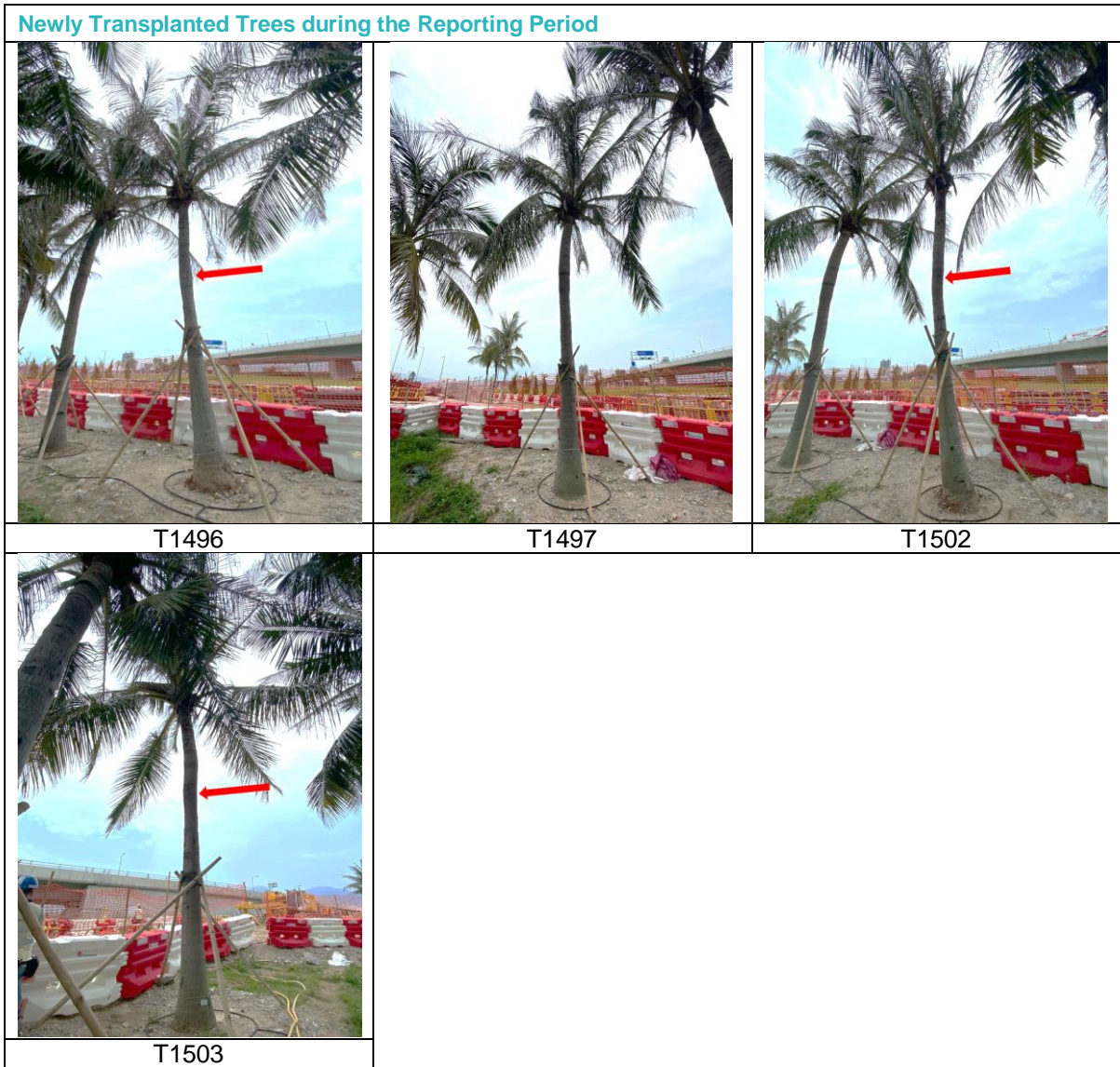
Table 7.6: Summary of the Transplanted Trees Updated in the Reporting Period

Tree ID	Transplant Date	Management Stage	Management Agency	Remarks
CT276	3 May 2018	<u>Establishment period</u> 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.
		<u>Long Term Management period</u> Jun 2019 – May 2028	Southern Landside Petrol Filling Station	
CT1253	4 May 2018	<u>Establishment period</u> 5 May 2018 – May 2019	Contract 3801	
		<u>Long Term Management period</u> Jun 2019 – May 2028	Southern Landside Petrol Filling Station	
T835	22 Jan 2020	<u>Establishment period</u> 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.
		<u>Long Term Management period</u> Feb 2021 – Jan 2030		
T836	13 Dec 2019	<u>Establishment period</u> 14 Dec 2020 – Jan 2021	Contract 3503	
		<u>Long Term Management period</u> Feb 2021 – Jan 2030		
T838	22 Jan 2020	<u>Establishment period</u> 23 Jan 2020 – Jan 2021	Contract 3503	
		<u>Long Term Management period</u> Feb 2021 – Jan 2030		
T812	21 Dec 2020	<u>Establishment period</u> 22 Dec 2020 – Dec 2021	Contract 3503	Next inspection will be conducted in August 2021. Photos of the last inspection in June 2021 can be referred to Table 7.7 of the Construction Phase Monthly EM&A Report No.66.
T814	20 Dec 2020	<u>Establishment period</u> 21 Dec 2020 – Dec 2021	Contract 3503	
T815	15 Dec 2020	<u>Establishment period</u> 16 Dec 2020 – Dec 2021	Contract 3503	
T829	18 Dec 2020	<u>Establishment period</u> 19 Dec 2020 – Dec 2021	Contract 3503	
T830	14 Dec 2020	<u>Establishment period</u> 15 Dec 2020 – Dec 2021	Contract 3503	
T831	19 Dec 2020	<u>Establishment period</u> 20 Dec 2020 – Dec 2021	Contract 3503	
T1493	6 July 2021	<u>Establishment period</u> 7 July 2021 – July 2022	Contract 3508	Next inspection will be conducted in August 2021. Photos of the last inspection in July 2021 were shown in

Tree ID	Transplant Date	Management Stage	Management Agency	Remarks
T1494	6 July 2021	<u>Establishment period</u> 7 July 2021 – July 2022	Contract 3508	Table 7.7
T1495	10 July 2021	<u>Establishment period</u> 11 July 2021 – July 2022	Contract 3508	
T1496	5 July 2021	<u>Establishment period</u> 6 July 2021 – July 2022	Contract 3508	
T1497	5 July 2021	<u>Establishment period</u> 6 July 2021 – July 2022	Contract 3508	
T1498	29 June 2021	<u>Establishment period</u> 30 June 2021 – July 2022	Contract 3508	
T1499	29 June 2021	<u>Establishment period</u> 30 June 2021 – July 2022	Contract 3508	
T1500	30 June 2021	<u>Establishment period</u> 1 July 2021 – July 2022	Contract 3508	
T1501	30 June 2021	<u>Establishment period</u> 1 July 2021 – July 2022	Contract 3508	
T1502	5 July 2021	<u>Establishment period</u> 6 July 2021 – July 2022	Contract 3508	
T1503	6 July 2021	<u>Establishment period</u> 7 July 2021 – July 2022	Contract 3508	
T1504	24 June 2021	<u>Establishment period</u> 25 June 2021 – July 2022	Contract 3508	
CT1194	4 May 2018	<u>Establishment period</u> 5 May 2018 – May 2019 <u>Long Term Management period</u> Jun 2019 – May 2028	Contract 3801 Southern Landside Petrol Filling Station	NA 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	<u>Establishment period</u> 4 May 2018 – May 2019 <u>Long Term Management period</u> Jun 2019 – May 2028	Contract 3801 AsiaWorld-Expo	NA 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	<u>Establishment period</u> 4 May 2018 – May 2019 <u>Long Term Management period</u> Jun 2019 – May 2028	Contract 3801 AsiaWorld-Expo	NA 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:		
		
T1498	T1499	T1500
		
T1501	T1504	
Newly Transplanted Trees during the Reporting Period		
		
T1493	T1494	T1495



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 July 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., 2 to 3 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 July 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	2 to 3 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:

- One skipper training session was held by contractor's Environmental Officer. Competency test was subsequently conducted with the trained skipper by ET. The list of all trained skippers was properly recorded and maintained by ET.
- In this reporting period, no skipper was trained by ET and 1 skipper was trained by contractor's Environmental Officer. In total, 1788 skippers were trained from August 2016 to July 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	
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	Accepted / approved by EPD
2.13	Fisheries Management Plan	
2.14	Egretty Survey Plan	
2.15	Silt Curtain Deployment Plan	
2.16	Spill Response Plan	
2.17	Detailed Plan on Deep Cement Mixing	
2.18	Landscape & Visual Plan	
2.19	Waste Management Plan	
2.20	Supplementary Contamination Assessment Plan	
3.1	Updated EM&A Manual	
3.4	Baseline Monitoring Reports	

7.8 Compliance with Other Statutory Environmental Requirements

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

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

7.9.1 Complaints

Complaints received in the previous reporting period

As reported in the previous Monthly EM&A Report, two complaints were received in the previous reporting period.

- A complaint regarding dust issue at the eastern quay of the Project received on 21 June 2021; and
- A complaint regarding muddy water from the Project received on 28 June 2021.

The cases were investigated by ET in accordance with the Manual and the Complaint Management Plan of the Project. The findings of investigation are presented below.

Complaint regarding dust issue received on 21 June 2021

With the information provided by the complainant on 21 June 2021 and subsequently on 8 July 2021, ET recognised the concerned areas and three identified related contractors and requested them to provide information regarding the complaint. Based on the information provided by the contractors, water trucks were assigned to carry out regular water spraying along the concerned areas according to their dust control management plan and provided their water spraying record for June and July 2021. Based on the ET's weekly site inspections and *ad-hoc* inspection, no observation related to dust issue was recorded. A joint inspection by EPD, ET, IEC and AAHK was arranged after receiving the complaint, in which the contractor was reminded to provide and maintain adequate dust mitigation measures for haul roads in site areas and review the effectiveness of dust control measures regularly. ET also observed another contractor was conducting water spraying at concerned area during ET's site inspection. Nevertheless, all contractors were reminded to continue implementing water spraying properly and adequately at their work areas. ET and IEC would continue to monitor contractors' dust suppression measures during environmental site inspections and the implementation of these measures at the concerned area. Hence, the complaint case was considered closed.

Complaint regarding muddy water received on 28 June 2021

With the photo provided by the complainant, ET recognised the concerned area and identified five related contractors and requested them to provide information regarding the complaint. Based on the information provided by the contractors, no illegal discharge along the alleged area during 21 to 25 June 2021 was reported. The temporary drainage system from one of the related contractors was operating properly for water storage, reuse and recycling onsite; and the sedimentation tanks from another contractor was installed on-site and confirmed their wastewater would be treated before discharge. Based on the ET's weekly site inspections, no illegal discharge was identified in the checklists. Both the temporary drainage system and sedimentation tanks were observed operating properly during the regular site inspections in June. No wastewater discharge was observed at the alleged area during IEC's *ad-hoc* site inspection in late June. A joint inspection by EPD, ET, IEC and AAHK was also arranged after receiving the

complaint. For the licensed discharge point near the alleged area, no discharge of muddy water was observed. No observation indicating any illegal discharge of muddy water from the vessels and pipes in accordance with the provided photo. Furthermore, the Hong Kong Observatory issued four Amber Rainstorm Warning Signals on 22, 23 and 24 June which might suggest the heavy rainfall might result in surface runoff at the alleged area. As such, ET would remind the contractors to pay attention on the possibility of surface runoff, especially during rainy season and carry out further improvement on current measures if needed. ET and IEC would continue to monitor 3RS water quality and conduct site inspections to check contractors' environmental practice and compliances. Hence, the complaint case was considered closed.

Complaint received in this reporting period

A complaint regarding dust issue at 3RS construction site area was received on 13 July 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

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

7.9.3 Cumulative Statistics

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

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

8.1 Construction Programme for the Coming Reporting Period

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

Reclamation Works:

Contract 3206 Main Reclamation Works

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

Airfield Works:

Contract 3301 North Runway Crossover Taxiway

- Cable ducting works; and
- Paving works.

Contract 3302 Eastern Vehicular Tunnel Advance Works

- Cable laying and ducting works;
- Backfilling and reinstatement works; and
- Piling and structure works;

Contract 3303 Third Runway and Associated Works

- Footing and utilities work;
- Piling work;
- Construction of approach light;
- Operation of asphalt plant; and
- Cable laying and ducting works.

Contract 3305 Airfield Ground Lighting System

- Genset installation; and
- Site establishment.

Contract 3307 Fire Training Facility

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

Third Runway Concourse:**Contract 3403 New Integrated Airport Centres Building and Civil Works**

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

Contract 3405 Third Runway Concourse Foundation and Substructure Works

- Foundation works;
- Piling work;
- Excavation and backfilling; and
- Road formation.

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;
- 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;
- Formwork erection and;
- Concreting work.

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

- Electrical and mechanical installation; and
- Site establishment.

Contract 3723 Construction Support Facilities

- Erection of site office;
- Electrical and mechanical installation; and
- Sewage pump and treatment system installation

Airport Support Infrastructure:

Contract 3801 APM and BHS Tunnels on Existing Airport Island

- Formwork and rebar fixing;
- Backfilling;
- Hanger support installation; and
- Demolition 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

- Plant operation; and
- Material conveyor belt construction.

Contract 3901B Concrete Batching Facility

- Plant operation; and
- Foundation 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 and bored piling for approach lights;
- Implementation of MMWP for silt curtain deployment;
- Sorting, recycling, storage and disposal of general refuse and construction waste;
- Reuse of treated marine sediments from piling and excavation works;
- Management of chemicals and avoidance of oil spillage on-site; and
- Acoustic decoupling measures for equipment on marine vessels.

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

8.3 Monitoring Schedule for the Coming Reporting Period

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

8.4 Review of the Key Assumptions Adopted in the EIA Report

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

9 Conclusion and Recommendation

The key activities of the Project carried out in the reporting period 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 works 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 or Limit 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 2 to 3 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. A training has been provided for the concerned skipper 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

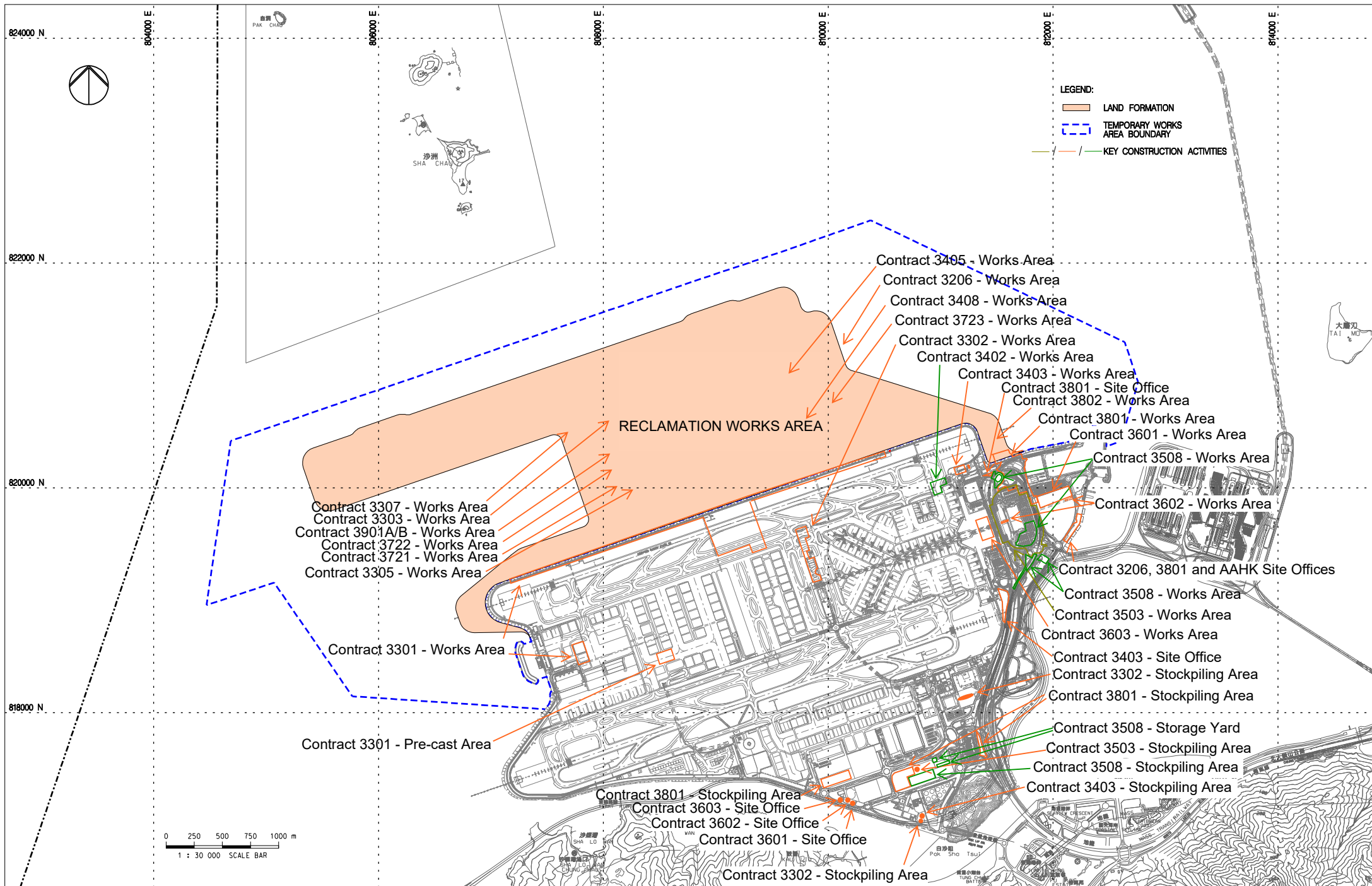


FIGURE 1.1 LOCATIONS OF KEY CONSTRUCTION ACTIVITIES

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



80000 E

80000 E

81000 E

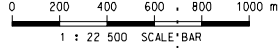
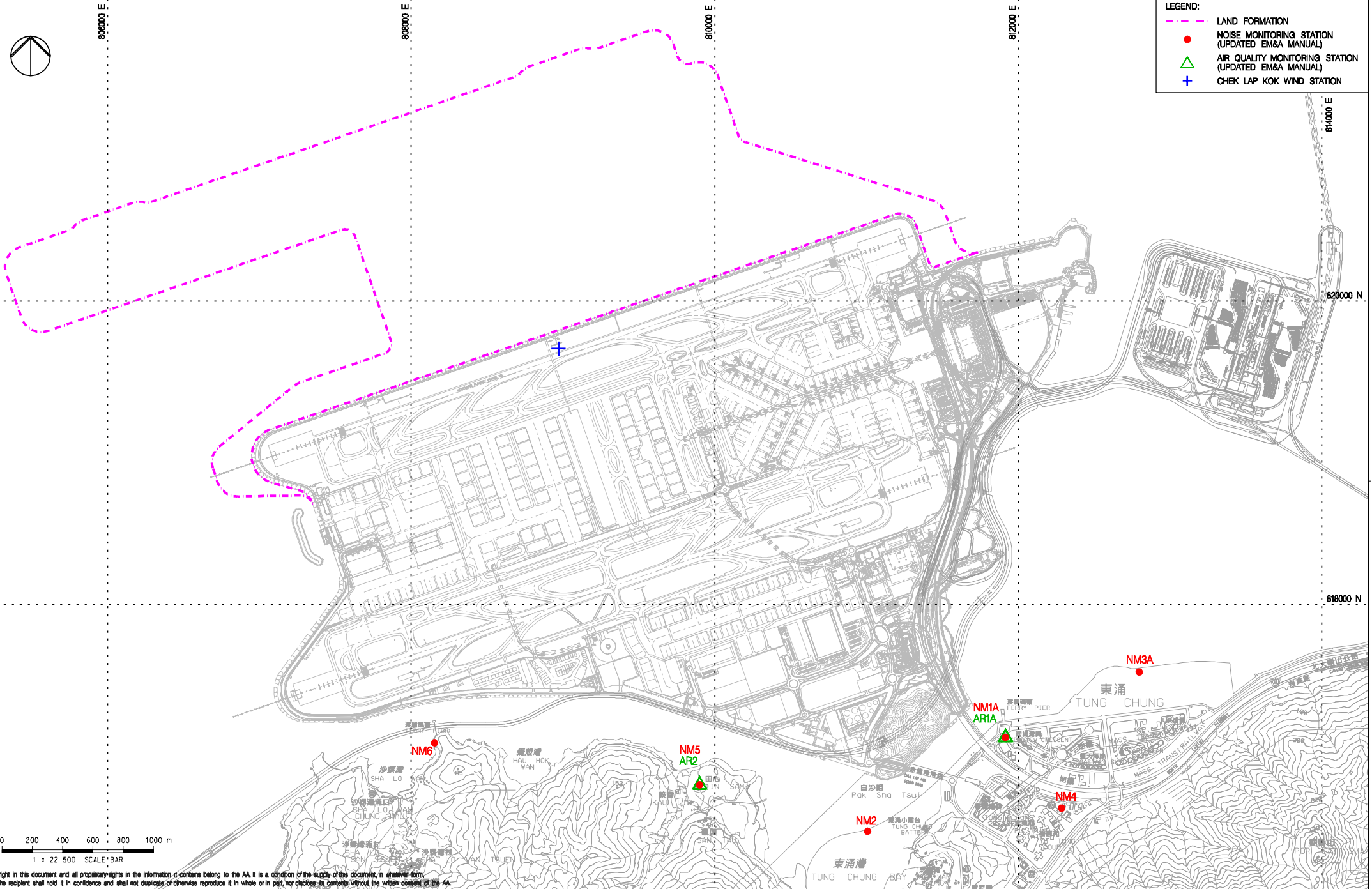
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- LEGEND:
- LAND FORMATION
 - NOISE MONITORING STATION (UPDATED EM&A MANUAL)
 - AIR QUALITY MONITORING STATION (UPDATED EM&A MANUAL)
 - CHEK LAP KOK WIND STATION



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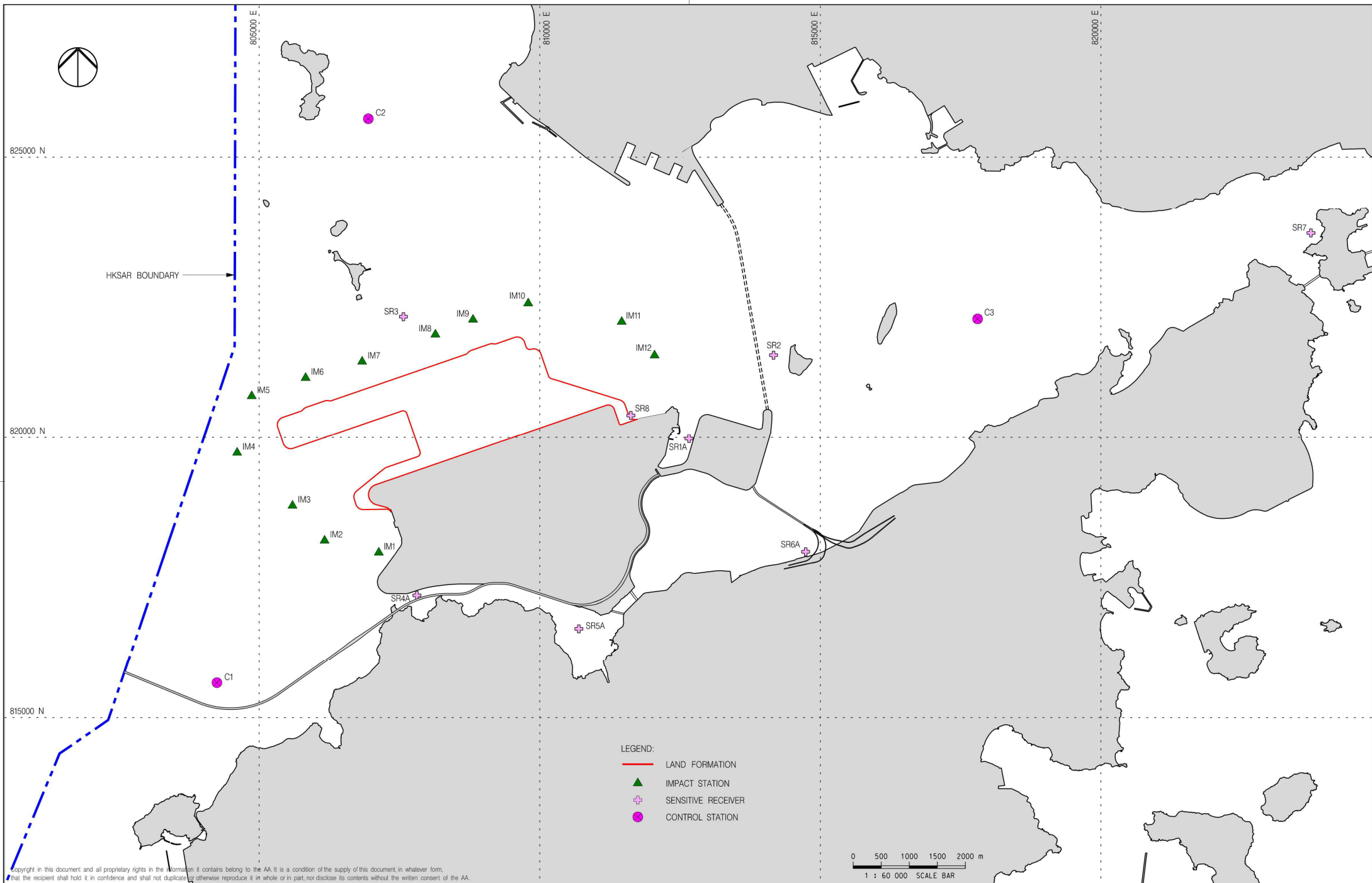
Rev.	Date	Description	Checked
A	06JAN16	FIRST ISSUE	RO
B	28JAN16	GENERAL REVISION	RO
C	11FEB16	GENERAL REVISION	RO
D	29OCT18	GENERAL REVISION	SH



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.	Scale at A3 1:22500
FIGURE 2.1	Rev. D



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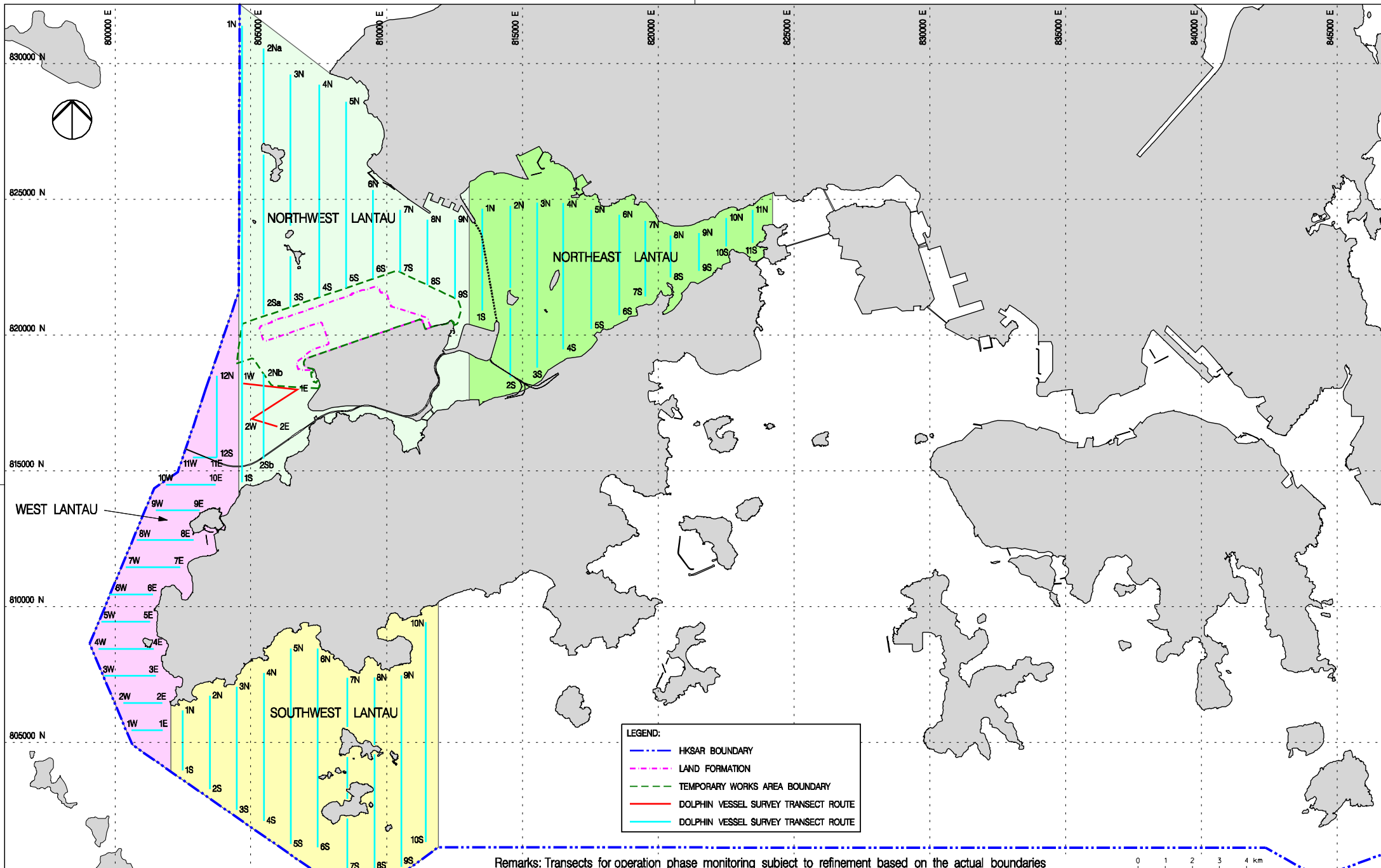
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WATER QUALITY MONITORING STATIONS

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EXPANSION OF HONG KONG INTERNATIONAL AIRPORT INTO A THREE-RUNWAY SYSTEM	
Drawing No.	Scale at A3 1 : 60000
FIGURE 4.1	Rev. A



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

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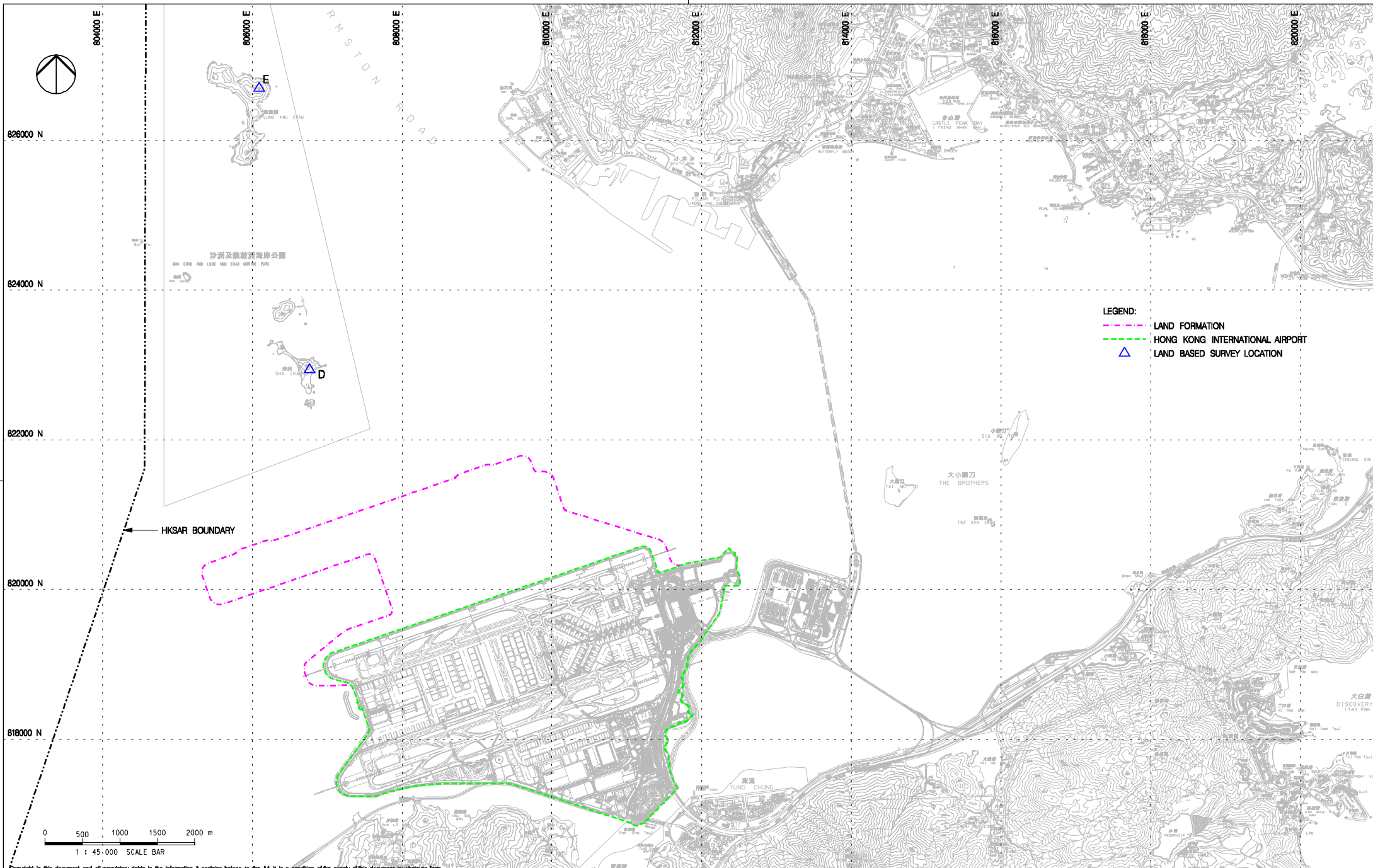
Rev.	Date	Description	Checked
B	27JUL16	GENERAL REVISION	JT
C	06FEB17	GENERAL REVISION	JT
D	01MAR17	GENERAL REVISION	JT
E	29OCT18	GENERAL REVISION	SH
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Title
VESSEL BASED DOLPHIN MONITORING
TRANSECTS IN CONSTRUCTION,
POST-CONSTRUCTION AND OPERATION PHASES

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

EXPANSION OF HONG KONG INTERNATIONAL AIRPORT INTO A THREE-RUNWAY SYSTEM		Scale at A3
Drawing No.	FIGURE 6.1	1 : 125000
Rev.	F	



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

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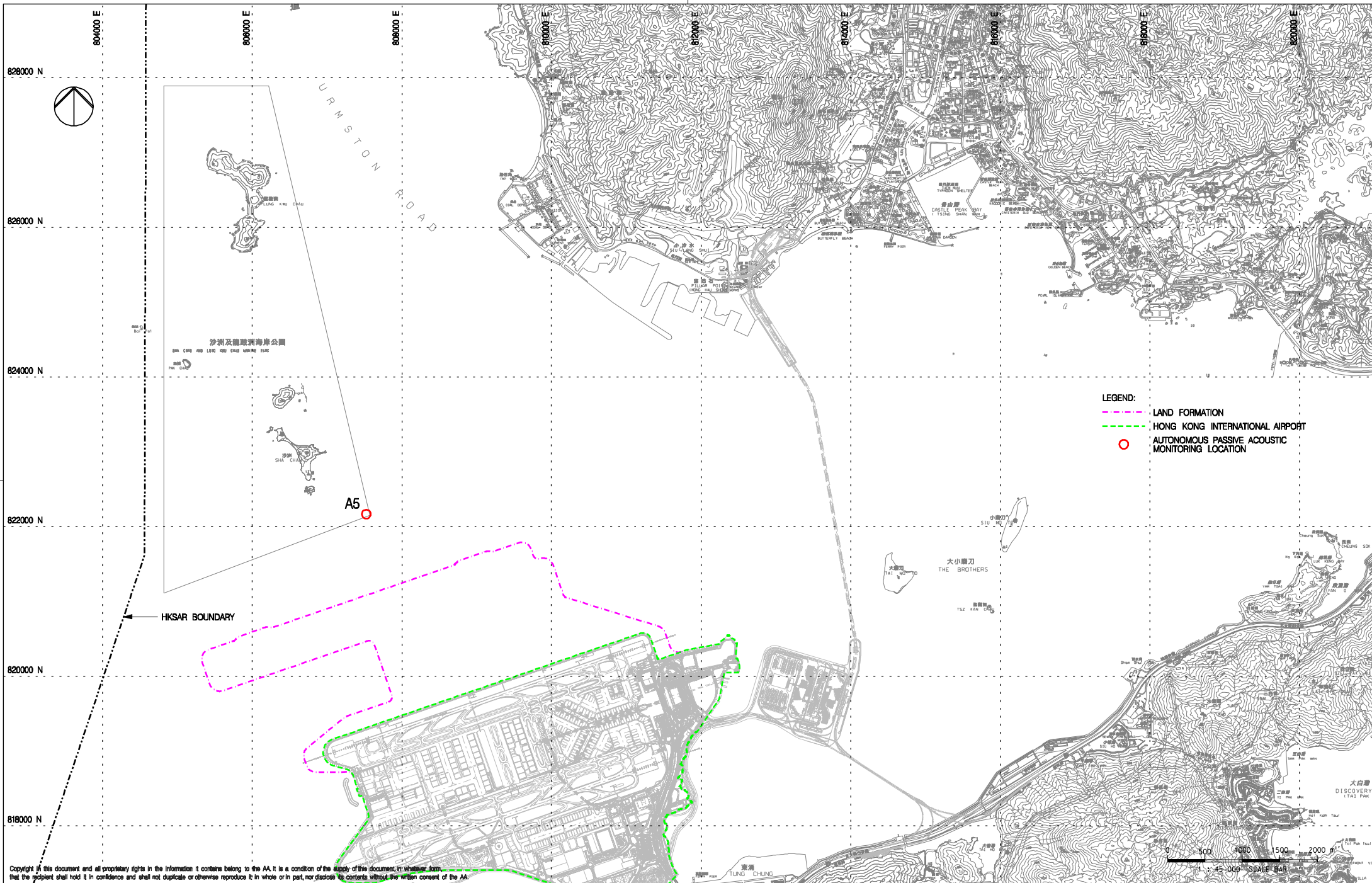
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Title
**LAND BASED DOLPHIN MONITORING
 IN BASELINE AND CONSTRUCTION PHASES**

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 6.2**
 Scale at A3 **1:45000**
 Rev. **C**



LEGEND:

- LAND FORMATION
- HONG KONG INTERNATIONAL AIRPORT
- AUTONOMOUS PASSIVE ACOUSTIC MONITORING LOCATION

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A	29AUG17	FIRST ISSUE	JT
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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
Rev. C

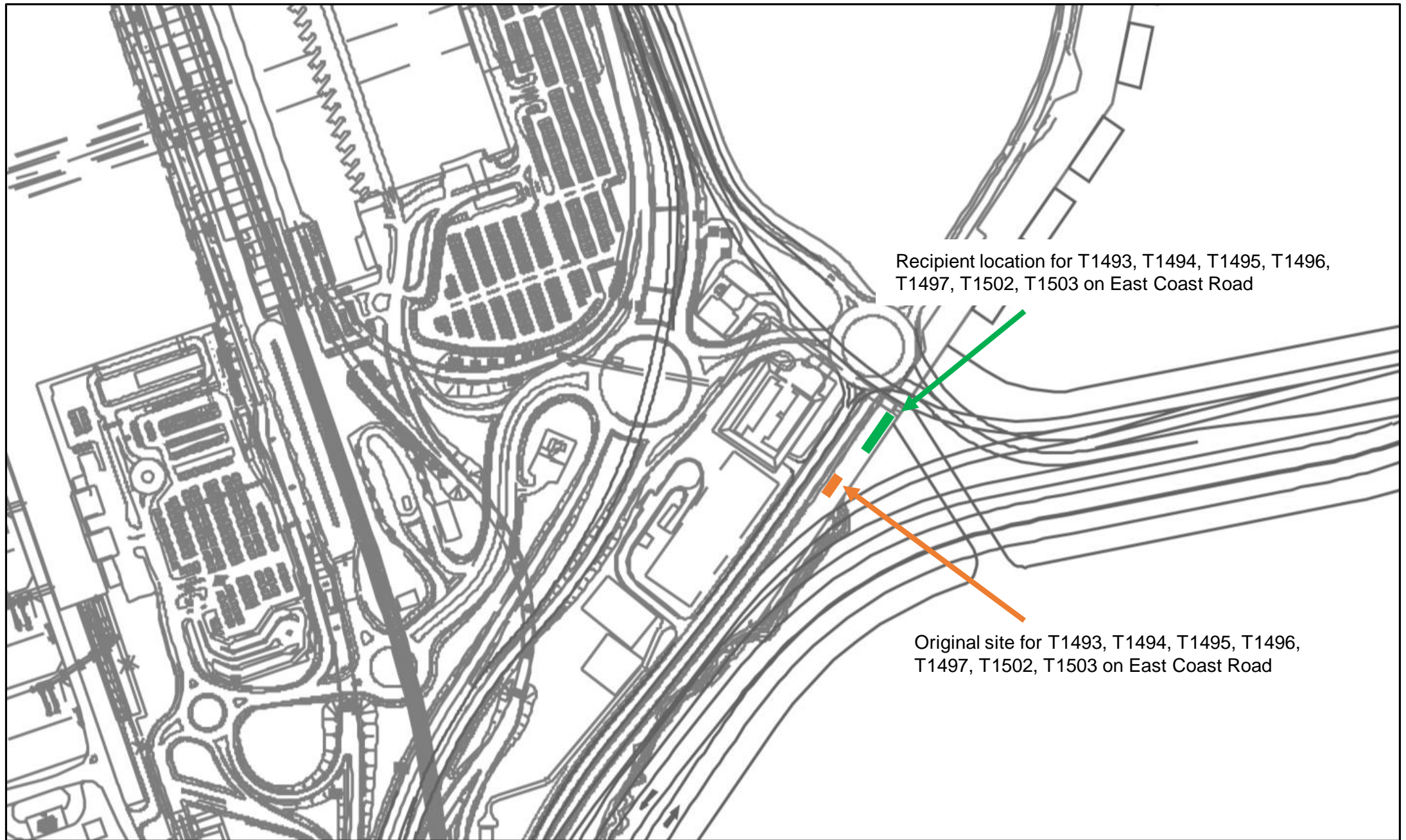


FIGURE 7.1 LOCATIONS OF NEWLY TRANSPLANTED TREES DURING THE REPORTING PERIOD

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

Environmental Mitigation Implementation Schedule (EMIS) for Construction Phase

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
Air Quality Impact – Construction Phase					
5.2.6.2	2.1	-	Dust Control Measures <ul style="list-style-type: none"> 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	-	<ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> Exposed earth should be properly treated by compaction, hydroseeding, vegetation planting or seeding 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?^
			<p>Loading, Unloading or Transfer of Dusty Materials</p> <ul style="list-style-type: none"> 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
			<p>Debris Handling</p> <ul style="list-style-type: none"> 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
			<p>Transport of Dusty Materials</p> <ul style="list-style-type: none"> 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
			<p>Wheel washing</p> <ul style="list-style-type: none"> 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
			<p>Use of vehicles</p> <ul style="list-style-type: none"> 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
			<p>Site hoarding</p> <ul style="list-style-type: none"> 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	-	<p>Best Practices for Concrete Batching Plant</p> <p>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:</p> <p>Cement and other dusty materials</p>	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?^
			<ul style="list-style-type: none"> ▪ 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. 		
			<p>Other raw materials</p> <ul style="list-style-type: none"> ▪ 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; 	<p>Within Concrete Batching Plant / Duration of the construction phase</p>	I

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			<ul style="list-style-type: none"> ▪ 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. 		
			<p>Loading of materials for batching</p> <ul style="list-style-type: none"> ▪ Concrete truck shall be loaded in such a way as to minimise airborne dust emissions. The following control measures shall be implemented: <ul style="list-style-type: none"> (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	
			<p>Vehicles</p> <ul style="list-style-type: none"> ▪ 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	
			<p>Housekeeping</p> <ul style="list-style-type: none"> ▪ 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	
5.2.6.6	2.1	-	<p>Best Practices for Asphaltic Concrete Plant</p> <p>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:</p> <p>Design of Chimney</p> <ul style="list-style-type: none"> ▪ 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	

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			<ul style="list-style-type: none"> ▪ 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. 		
			<p>Cold feed side</p> <ul style="list-style-type: none"> ▪ 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. 	<p>Within Concrete Batching Plant / Duration of the construction phase</p>	
			<p>Hot feed side</p> <ul style="list-style-type: none"> ▪ 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; 	<p>Within Concrete Batching Plant / Duration of the construction phase</p>	

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			<ul style="list-style-type: none"> 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). 		
			<p>Material transportation</p> <ul style="list-style-type: none"> 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	
			<p>Control of emissions from bitumen decanting</p> <ul style="list-style-type: none"> 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 <p>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.</p>	Within Concrete Batching Plant / Duration of the construction phase	
			<p>Liquid fuel</p> <ul style="list-style-type: none"> 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	
			<p>Housekeeping</p> <ul style="list-style-type: none"> 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	
5.2.6.7	2.1	-	<p>Best Practices for Rock Crushing Plants</p> <p>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:</p>	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?^
			<p>Crushers</p> <ul style="list-style-type: none"> ▪ 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. 		
			<p>Vibratory screens and grizzlies</p> <ul style="list-style-type: none"> ▪ 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
			<p>Belt conveyors</p> <ul style="list-style-type: none"> ▪ 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?^
			<p>Storage piles and bins</p> <ul style="list-style-type: none"> 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
			<p>Rock drilling equipment</p> <ul style="list-style-type: none"> 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	-	<ul style="list-style-type: none"> Precautionary measures should be established to request barges to move away during typhoons. 	Construction Site / Construction Period	I
Table 6.40	3.2	-	<ul style="list-style-type: none"> 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	-	<ul style="list-style-type: none"> 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	-	<p>Good Site Practice</p> <p>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:</p> <ul style="list-style-type: none"> 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?^
			<ul style="list-style-type: none"> ▪ 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	-	<p>Adoption of QPME</p> <ul style="list-style-type: none"> ▪ 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	-	<p>Use of Movable Noise Barriers</p> <ul style="list-style-type: none"> ▪ 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	-	<p>Use of Noise Enclosure/ Acoustic Shed</p> <ul style="list-style-type: none"> ▪ 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	<p>Marine Construction Activities</p> <p><u>General Measures to be Applied to All Works Areas</u></p> <ul style="list-style-type: none"> ▪ 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
			<p><u>Specific Measures to be Applied to All Works Areas</u></p> <ul style="list-style-type: none"> ▪ 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
			<ul style="list-style-type: none"> ▪ 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
			<ul style="list-style-type: none"> ▪ 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)
			<ul style="list-style-type: none"> ▪ 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?^
			<p><u>Specific Measures to be Applied to Land Formation Activities prior to Commencement of Marine Filling Works</u></p> <ul style="list-style-type: none"> 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	<p>N/A</p> <p>*(The arrangement of silt curtain has been modified. The details can be referred to Silt Curtain Deployment Plan)</p>
			<ul style="list-style-type: none"> 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 		<p>For C7a, I</p> <p>For C8, I</p> <p>*(The requirement of silt curtain / screen has been modified. The details can be referred to Silt Curtain Deployment Plan)</p>
			<ul style="list-style-type: none"> The silt curtains and silt screens should be regularly checked and maintained. 		I
			<p><u>Specific Measures to be Applied to Land Formation Activities during Marine Filling Works</u></p> <ul style="list-style-type: none"> 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	<p>I</p> <p>*(The arrangement of silt curtain has been modified. The details can be referred to Silt Curtain Deployment Plan)</p>
			<ul style="list-style-type: none"> Double layer silt curtains to be applied at the south-western opening prior to commencement of marine filling activities; 		<p>N/A</p> <p>*(The arrangement of silt curtain has been modified. The details can be referred to Silt Curtain Deployment Plan)</p>
			<ul style="list-style-type: none"> 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 		<p>N/A</p> <p>*(The requirement of silt curtain / screen has been modified. The details can be referred to Silt Curtain Deployment Plan)</p>
			<ul style="list-style-type: none"> 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?^
			<p><u>Specific Measures to be Applied to the Field Joint Excavation Works for the Submarine Cable Diversion</u></p> <ul style="list-style-type: none"> 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	-	<p>Modification of the Existing Seawall</p> <ul style="list-style-type: none"> 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	-	<p>Construction of New Stormwater Outfalls and Modifications to Existing Outfalls</p> <ul style="list-style-type: none"> 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	<p>Piling Activities for Construction of New Runway Approach Lights and HKIAAA Marker Beacons</p> <p>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.</p> <p><u>For construction of the eastern approach lights at the CMPs</u></p> <ul style="list-style-type: none"> Ground improvement via DCM using a close-spaced layout shall be completed prior to commencement of piling works; Steel casings shall be installed to enclose the excavation area prior to commencement of excavation; The excavated materials shall be removed using a closed grab within the steel casings; No discharge of the cement mixed materials into the marine environment will be allowed; and Excavated materials shall be treated and reused on-site. 	Within construction site / Duration of the construction phase	I I
8.8.1.8	5.1	-	<p>Construction of Site Runoff and Drainage</p> <p>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:</p> <ul style="list-style-type: none"> Install perimeter cut-off drains to direct off-site water around the site and implement internal drainage, erosion and sedimentation control facilities. Channels, earth bunds or sand bag barriers should be provided on site to direct storm water to silt removal facilities. The design of the temporary on-site 	Within construction site / Duration of the construction phase	I

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			<p>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);</p> <hr/> <ul style="list-style-type: none"> ▪ 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; <hr/> <ul style="list-style-type: none"> ▪ 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; <hr/> <ul style="list-style-type: none"> ▪ 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; <hr/> <ul style="list-style-type: none"> ▪ 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 <hr/> <ul style="list-style-type: none"> ▪ 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	-	<p>Sewage Effluent from Construction Workforce</p> <ul style="list-style-type: none"> ▪ 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		<p>General Construction Activities</p> <ul style="list-style-type: none"> ▪ 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?^
8.8.1.12 8.8.1.13	5.1	2.28	<ul style="list-style-type: none"> ▪ 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. <p>Drilling Activities for the Submarine Aviation Fuel Pipelines</p> <p>To prevent potential water quality impacts at Sha Chau, the following measures shall be applied:</p> <ul style="list-style-type: none"> ▪ 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
			<p>At the airport island side of the drilling works, the following measures shall be applied for treatment of wastewater:</p> <ul style="list-style-type: none"> ▪ 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	-	<p>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:</p> <ul style="list-style-type: none"> ▪ The relevant construction methods (particularly for the tunnel works) and construction programme have been carefully planned and developed to minimise the extent of excavation and to maximise the on-site reuse of inert C&D materials generated by the project as far as practicable. Temporary stockpiling areas will also be provided to facilitate on-site reuse of inert C&D materials; ▪ Priority should be given to collect and reuse suitable inert C&D materials generated from other concurrent projects and the Government's PFRF as fill materials for the proposed land formation works; ▪ Only non-dredged ground improvement methods should be adopted in order to completely avoid the need for dredging and disposal of marine sediment for the proposed land formation work; ▪ Excavation work for constructing the APM tunnels, BHS tunnels and airside tunnels will not be down to the CMPs beneath the fill materials in order to avoid excavating any sediments; and 	Project Site Area / During design and construction phase	I
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EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			<ul style="list-style-type: none"> ▪ 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	-	<p>The following good site practices should be performed during the construction activities include:</p> <ul style="list-style-type: none"> ▪ 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	-	<p>The following practices should be performed to achieve waste reduction include:</p> <ul style="list-style-type: none"> ▪ 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?^
			<ul style="list-style-type: none"> 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		<ul style="list-style-type: none"> 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	-	<ul style="list-style-type: none"> 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	-	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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	-	<p>The following mitigation measures are recommended during excavation and treatment of the sediments:</p> <ul style="list-style-type: none"> On-site remediation should be carried out in an enclosed area in order to minimise odour/dust emissions; The loading, unloading, handling, transfer or storage of treated and untreated sediment should be carried out in such a manner to prevent or minimise dust emissions; All practical measures, including but not limited to speed control for vehicles, should be taken to minimise dust emission; Good housekeeping should be maintained at all times at the sediment treatment facility and storage area; Treated and untreated sediment should be clearly separated and stored separately; and Surface runoff from the enclosed area should be properly collected and stored separately, and then properly treated to levels in compliance with the relevant effluent standards as required by the Water Pollution Control Ordinance before final discharge. 	Project Site Area / Construction Phase	I I I I I
10.5.1.18	7.1	-	<p>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</p>	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?^
			<p>followed to minimise potential impacts on water quality during transportation of the sediments requiring Type 1 disposal:</p> <ul style="list-style-type: none"> 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	-	<p>Contractor should register with the EPD as a chemical waste producer and to follow the relevant guidelines. The following measures should be implemented:</p> <ul style="list-style-type: none"> 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	-	<ul style="list-style-type: none"> 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	-	<ul style="list-style-type: none"> 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	<p>For areas inaccessible during site reconnaissance survey</p> <ul style="list-style-type: none"> 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
			<ul style="list-style-type: none"> 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?^
			<ul style="list-style-type: none"> ▪ 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. <hr/> <ul style="list-style-type: none"> ▪ 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. 		<p>I *(CAR for golf course and Terminal 2 Emergency Power Supply System Nos.1, 2, 3, 4 and 5)</p> <hr/> <p>N/A</p>
11.8.1.2	8.1	-	<p>If contaminated soil is identified, the following mitigation measures are for the excavation and transportation of contaminated materials (if any):</p> <ul style="list-style-type: none"> ▪ 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	<p>Pre-construction Egretty Survey</p> <ul style="list-style-type: none"> ▪ Conduct ecological survey for Sha Chau egretty to update the latest boundary of the egretty. 	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 Egret <ul style="list-style-type: none"> The daylighting location will avoid direct encroachment to the Sheung Sha Chau egret. The daylighting location and mooring of flat top barge, if required, will be kept away from the egret; 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	
12.7.2.5	9.1	2.30	Preservation of Nesting Vegetation <ul style="list-style-type: none"> 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	
12.7.2.4 and 12.7.2.6	9.1	2.30	Timing the Pipe Connection Works outside Ardeid's Breeding Season <ul style="list-style-type: none"> 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	
12.10.1.1	9.3	-	Ecological Monitoring <ul style="list-style-type: none"> 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	
Marine Ecological Impact – Pre-construction Phase					
13.11.4.1	10.2.2	-	<ul style="list-style-type: none"> Pre-construction phase Coral Dive Survey. 	HKIAAA artificial seawall	
Marine Ecological Impact – Construction Phase					
13.11.1.3 to 13.11.1.6	-	-	Minimisation of Land Formation Area <ul style="list-style-type: none"> 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	
13.11.1.7 to 13.11.1.10	-	2.31	Use of Construction Methods with Minimal Risk/Disturbance <ul style="list-style-type: none"> 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	

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			<ul style="list-style-type: none"> 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; 		
			<ul style="list-style-type: none"> Use of bored piling in short duration to form the new approach lights and marker beacons for the new runway; 		
			<ul style="list-style-type: none"> Avoid bored piling during CWD peak calving season (Mar to Jun); 		
			<ul style="list-style-type: none"> Prohibition of underwater percussive piling; and 		
			<ul style="list-style-type: none"> 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. 		
13.11.2.1 to 13.11.2.7	-	-	<p>Mitigation for Indirect Disturbance due to Deterioration of Water Quality</p> <ul style="list-style-type: none"> Water quality mitigation measures during construction phases include consideration of alternative construction methods, deployment of silt curtain and good site practices; Alternative construction methods including use of non-dredge methods for ground improvement (e.g. Deep Cement Mixing (DCM), prefabricated vertical drains (PVD), sand compaction piles, steel cells, stone columns and vertical sand drains); Use of bored piling in short duration to form the new approach lights and marker beacons for the new runway; and <p>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.</p>	All works area during the construction phase	
13.11.1.12	-	-	<p>Strict Enforcement of No-Dumping Policy</p> <ul style="list-style-type: none"> 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-dumping 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	
13.11.1.13	-	-	<p>Good Construction Site Practices</p> <ul style="list-style-type: none"> 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	

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 <ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> SkyPier HSFs operating to / from Zhuhai and Macau would divert north of SCLKC Marine Park with a 15 knot speed limit to apply for the part-journeys that cross high CWD abundance grid squares as indicatively shown in Drawing No. MCL/P132/EIA/13-023 of the EIA Report. Both the alignment of the northerly route and the portion of routings to be subject to the speed limit of 15 knots shall be finalised prior to commencement of construction based on the future review of up-to-date CWD abundance and EM&A data and taking reference to changes in total SkyPier HSF numbers; and A maximum of 10 knots will be enforced through the designated SCLKC Marine Park area at all times. Other mitigation measures <ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> Establishment of a 24 hr Dolphin Exclusion Zone (DEZ) with a 250 m radius around the land formation works areas; A DEZ would also be implemented during ground improvement works (e.g. DCM), water jetting works for submarine cables diversion, open trench dredging at the field joint locations and seawall construction; and A DEZ would also be implemented during bored piling work but as a precautionary measure only. 	Marine waters around land formation works area during construction phase	I
13.11.5.19	10.4	2.31	Acoustic Decoupling of Construction Equipment <ul style="list-style-type: none"> 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?^
			<ul style="list-style-type: none"> 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	-	<p>Construction Vessel Speed Limits and Skipper Training</p> <ul style="list-style-type: none"> 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	
Fisheries Impact – Construction Phase					
14.9.1.2 to 14.9.1.5	-	-	<p>Minimisation of Land Formation Area</p> <ul style="list-style-type: none"> 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	
14.9.1.6	-	-	<p>Use of Construction Methods with Minimal Risk/Disturbance</p> <ul style="list-style-type: none"> Use of non-dredge method for the main land formation and ancillary works including the diversion of the aviation fuel pipeline to the AFRF; Use of Deep Cement Mixing (DCM) method instead of conventional seabed dredging for the land formation works to reduce the risk of negative impacts through the elevation of suspended solids and contaminants on fisheries and the marine environment; Use of bored piling in short duration to form the new approach lights and marker beacons for the new runway; and Use of horizontal directional drilling (HDD) method and water jetting methods for placement of undersea cables and pipelines to minimise the disturbance to fisheries resources. 	During construction phase at marine works area	
14.9.1.11	-	-	<p>Strict Enforcement of No-Dumping Policy</p> <ul style="list-style-type: none"> 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-dumping 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	

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 <ul style="list-style-type: none"> 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	
14.9.1.13 to 14.9.1.18	-		Mitigation for Indirect Disturbance due to Deterioration of Water Quality <ul style="list-style-type: none"> Water quality mitigation measures during construction phases include consideration of alternative construction methods, deployment of silt curtain and good site practices; Alternative construction methods including use of non-dredge methods for ground improvement (e.g. Deep Cement Mixing (DCM), prefabricated vertical drains (PVD), sand compaction piles, steel cells, stone columns and vertical sand drains); Use of bored piling in short duration to form the new approach lights and marker beacons for the new runway; and Use of horizontal directional drilling (HDD) method and water jetting methods for placement of undersea cables and pipelines to minimise the disturbance to fisheries resources. 	All works area during the construction phase	
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.	
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.	
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.	
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.	

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 B. Monitoring Schedule

Monitoring Schedule of This Reporting Period

Jul-21

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1 WQ General mid-ebb: 18:04 mid-flood: 11:27	2 Site Inspection AR1A, AR2 NM1A, NM5	3 WQ General mid-ebb: 8:44 mid-flood: 14:06
4	5 Site Inspection NM4, NM6	6 Site Inspection WQ General mid-ebb: 11:04 mid-flood: 17:50	7	8 Site Inspection AR1A, AR2 NM1A, NM5 WQ General mid-ebb: 12:14 mid-flood: 19:23	9 Site Inspection	10 WQ General mid-ebb: 13:25 mid-flood: 20:38
11	12 Site Inspection CWD Survey (Vessel, Land-based)	13 Site Inspection CWD Survey (Vessel) WQ General mid-ebb: 15:18 mid-flood: 8:10	14 CWD Survey (Vessel) AR1A, AR2 NM1A, NM5	15 Site Inspection NM4, NM6 WQ General mid-ebb: 16:39 mid-flood: 9:44	16 Site Inspection	17 WQ General mid-ebb: 18:19 mid-flood: 11:54
18	19 Site Inspection CWD Survey (Vessel) NM4, NM6	20 Site Inspection AR1A, AR2 NM1A, NM5 WQ General ⁽¹⁾ mid-ebb: 9:40 mid-flood: 16:50	21 CWD Survey (Vessel)	22 Site Inspection CWD Survey (Vessel) WQ General mid-ebb: 11:33 mid-flood: 19:02	23 Site Inspection	24 WQ General mid-ebb: 13:12 mid-flood: 20:34
25	26 Site Inspection CWD Survey (Vessel) AR1A, AR2 NM1A, NM5	27 Site Inspection CWD Survey (Land-based) NM4, NM6 WQ General mid-ebb: 15:23 mid-flood: 8:29	28 Site Inspection CWD Survey (Vessel)	29 Site Inspection WQ General mid-ebb: 16:36 mid-flood: 10:03	30 Site Inspection	31 AR1A, AR2 WQ General mid-ebb: 17:47 mid-flood: 11:56
Notes: CWD - Chinese White Dolphin Air quality and Noise Monitoring Station WQ - Water Quality ⁽¹⁾ Water quality monitoring session on 20 July 2021 was cancelled due to Strong Wind Signal No.3 in force. NM1A/AR1A - Man Tung Road Park NM4 - Ching Chung Hau Po Woon Primary School NM5/AR2 - Village House, Tin Sum NM6 - House No. 1, Sha Lo Wan						

Tentative Monitoring Schedule of Next Reporting Period

Aug-21

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	2 Site Inspection	3 Site Inspection WQ General mid-ebb: 9:40 mid-flood: 22:01	4	5 Site Inspection NM4, NM6 WQ General mid-ebb: 11:11 mid-flood: 18:36	6 Site Inspection AR1A, AR2 NM1A, NM5	7 WQ General mid-ebb: 12:29 mid-flood: 19:41
8	9 Site Inspection	10 Site Inspection WQ General mid-ebb: 14:22 mid-flood: 7:26	11 CWD Survey (Vessel) NM4, NM6	12 Site Inspection CWD Survey (Land-based) AR1A, AR2 NM1A, NM5 WQ General mid-ebb: 15:35 mid-flood: 8:56	13 Site Inspection	14 WQ General mid-ebb: 16:57 mid-flood: 10:40
15	16 Site Inspection CWD Survey (Vessel)	17 Site Inspection NM4, NM6 WQ General mid-ebb: 8:03 mid-flood: 15:44	18 CWD Survey (Vessel) AR1A, AR2 NM1A, NM5	19 Site Inspection CWD Survey (Vessel) WQ General mid-ebb: 10:29 mid-flood: 18:13	20 Site Inspection CWD Survey (Vessel)	21 WQ General mid-ebb: 12:14 mid-flood: 19:35
22	23 Site Inspection CWD Survey (Vessel, Land-based) NM4, NM6	24 Site Inspection CWD Survey (Vessel) AR1A, AR2 NM1A, NM5 WQ General mid-ebb: 14:20 mid-flood: 7:37	25 Site Inspection CWD Survey (Vessel)	26 Site Inspection WQ General mid-ebb: 15:23 mid-flood: 9:02	27 Site Inspection	28 WQ General mid-ebb: 16:23 mid-flood: 10:31
29	30 Site Inspection AR1A, AR2 NM1A, NM5	31 Site Inspection NM4, NM6 WQ General mid-ebb: 7:20 mid-flood: 19:53				
<p>Notes:</p> <p>CWD - Chinese White Dolphin</p> <p>Air quality and Noise Monitoring Station</p> <p>WQ - Water Quality</p> <p>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</p>						

Appendix C. Monitoring Results

Air Quality Monitoring Results

1-hour TSP Results

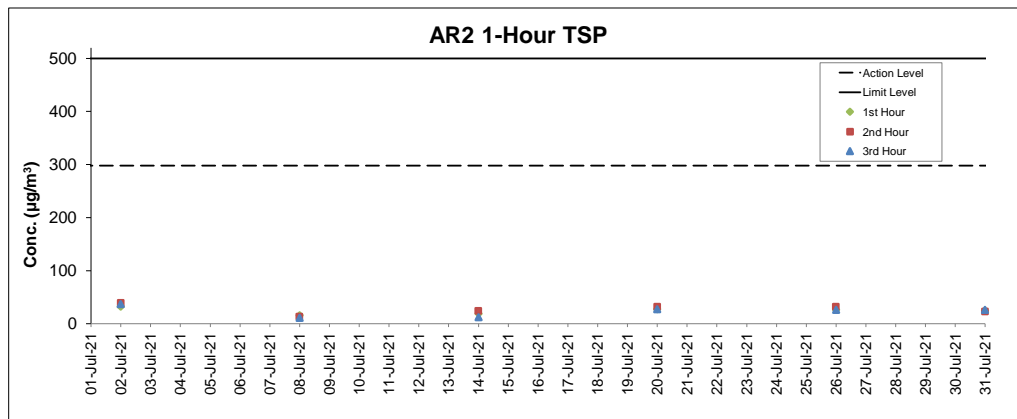
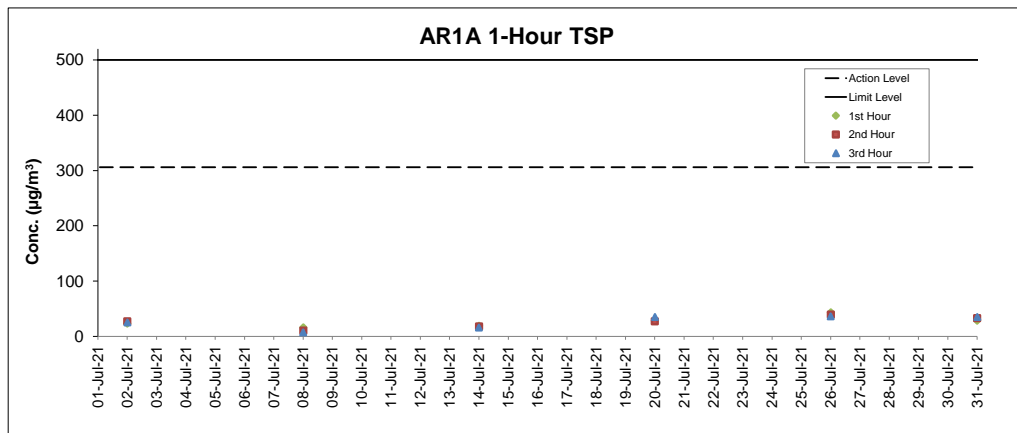
Station: AR1A- Man Tung Road Park

Date	Time	Weather	Wind Speed (m/s)	Wind Direction (deg)	1-hr TSP ($\mu\text{g}/\text{m}^3$)	Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
02-Jul-21	13:35	Cloudy	8.3	222	23	306	500
02-Jul-21	14:35	Cloudy	7.8	229	27	306	500
02-Jul-21	15:35	Cloudy	7.8	224	25	306	500
08-Jul-21	14:22	Sunny	5.3	159	16	306	500
08-Jul-21	15:22	Sunny	6.7	151	10	306	500
08-Jul-21	16:22	Sunny	6.7	155	7	306	500
14-Jul-21	13:40	Sunny	4.4	251	19	306	500
14-Jul-21	14:40	Sunny	2.5	Variable	18	306	500
14-Jul-21	15:40	Sunny	1.1	Variable	16	306	500
20-Jul-21	14:55	Cloudy	6.1	82	28	306	500
20-Jul-21	15:55	Cloudy	4.4	69	27	306	500
20-Jul-21	16:55	Cloudy	5.0	100	35	306	500
26-Jul-21	13:42	Sunny	3.3	292	43	306	500
26-Jul-21	14:42	Sunny	3.3	262	39	306	500
26-Jul-21	15:42	Sunny	5.0	240	36	306	500
31-Jul-21	13:46	Cloudy	6.9	225	28	306	500
31-Jul-21	14:46	Cloudy	7.2	228	33	306	500
31-Jul-21	15:46	Cloudy	7.8	226	35	306	500

1-hour TSP Results

Station: AR2- Village House, Tin Sum

Date	Time	Weather	Wind Speed (m/s)	Wind Direction (deg)	1-hr TSP ($\mu\text{g}/\text{m}^3$)	Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
02-Jul-21	13:53	Sunny	7.8	229	32	298	500
02-Jul-21	14:53	Sunny	7.2	225	39	298	500
02-Jul-21	15:53	Sunny	7.5	222	37	298	500
08-Jul-21	13:32	Sunny	6.1	154	16	298	500
08-Jul-21	14:32	Sunny	5.0	162	13	298	500
08-Jul-21	15:32	Sunny	6.1	149	11	298	500
14-Jul-21	13:48	Sunny	4.4	239	19	298	500
14-Jul-21	14:48	Sunny	2.5	Variable	24	298	500
14-Jul-21	15:48	Sunny	1.1	Variable	12	298	500
20-Jul-21	13:35	Cloudy	6.1	87	27	298	500
20-Jul-21	14:35	Cloudy	6.4	79	32	298	500
20-Jul-21	15:35	Cloudy	2.8	99	27	298	500
26-Jul-21	13:37	Sunny	2.8	291	26	298	500
26-Jul-21	14:37	Sunny	3.3	278	32	298	500
26-Jul-21	15:37	Sunny	4.7	241	26	298	500
31-Jul-21	9:39	Cloudy	3.3	242	24	298	500
31-Jul-21	10:39	Cloudy	3.6	234	23	298	500
31-Jul-21	11:39	Cloudy	5.8	230	26	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	Measured	L _{eq(30mins)} dB(A) ^
			L ₁₀ dB(A)	L ₉₀ dB(A)	
02-Jul-21	Cloudy	14:12	69.8	59.5	70
02-Jul-21	Cloudy	14:17	71.0	61.3	
02-Jul-21	Cloudy	14:22	71.8	61.0	
02-Jul-21	Cloudy	14:27	66.0	57.2	
02-Jul-21	Cloudy	14:32	65.0	57.0	
02-Jul-21	Cloudy	14:37	63.8	54.6	
08-Jul-21	Sunny	13:23	74.2	55.9	73
08-Jul-21	Sunny	13:28	67.8	52.4	
08-Jul-21	Sunny	13:33	73.5	57.1	
08-Jul-21	Sunny	13:38	73.8	66.2	
08-Jul-21	Sunny	13:43	72.7	63.0	
08-Jul-21	Sunny	13:48	72.9	59.1	
14-Jul-21	Sunny	13:56	67.1	55.4	70
14-Jul-21	Sunny	14:01	72.9	59.1	
14-Jul-21	Sunny	14:06	72.4	60.1	
14-Jul-21	Sunny	14:11	72.9	60.2	
14-Jul-21	Sunny	14:16	71.8	58.7	
14-Jul-21	Sunny	14:21	70.8	60.1	
20-Jul-21	Cloudy	13:20	73.4	57.4	71
20-Jul-21	Cloudy	13:25	71.9	65.5	
20-Jul-21	Cloudy	13:30	68.6	64.6	
20-Jul-21	Cloudy	13:35	69.6	61.1	
20-Jul-21	Cloudy	13:40	70.4	57.9	
20-Jul-21	Cloudy	13:45	71.3	57.9	
26-Jul-21	Sunny	13:53	72.4	51.4	71
26-Jul-21	Sunny	13:58	72.2	50.6	
26-Jul-21	Sunny	14:03	74.6	49.7	
26-Jul-21	Sunny	14:08	71.6	49.3	
26-Jul-21	Sunny	14:13	71.4	49.4	
26-Jul-21	Sunny	14:18	73.2	51.4	

Remarks:

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

Noise Measurement Results

Station: NM4- Ching Chung Hau Po Woon Primary School

Date	Weather	Time	Measured	Measured	L _{eq(30mins)} dB(A) ^
			L ₁₀ dB(A)	L ₉₀ dB(A)	
05-Jul-21	Cloudy	10:56	62.5	57.6	63
05-Jul-21	Cloudy	11:01	62.4	57.9	
05-Jul-21	Cloudy	11:06	61.9	58.1	
05-Jul-21	Cloudy	11:11	60.8	57.7	
05-Jul-21	Cloudy	11:16	62.7	57.9	
05-Jul-21	Cloudy	11:21	61.7	58.3	
15-Jul-21	Cloudy	13:00	61.4	57.4	63
15-Jul-21	Cloudy	13:05	60.6	56.2	
15-Jul-21	Cloudy	13:10	61.5	56.8	
15-Jul-21	Cloudy	13:15	62.3	56.8	
15-Jul-21	Cloudy	13:20	61.9	57.6	
15-Jul-21	Cloudy	13:25	61.2	57.5	
19-Jul-21	Cloudy	12:45	61.3	55.3	63
19-Jul-21	Cloudy	12:50	60.6	55.9	
19-Jul-21	Cloudy	12:55	64.6	59.0	
19-Jul-21	Cloudy	13:00	62.6	59.6	
19-Jul-21	Cloudy	13:05	64.3	51.2	
19-Jul-21	Cloudy	13:10	52.2	48.5	
27-Jul-21	Sunny	13:16	62.3	58.5	60*
27-Jul-21	Sunny	13:21	60.8	57.3	
27-Jul-21	Sunny	13:26	64.4	58.5	
27-Jul-21	Sunny	13:31	68.0	59.7	
27-Jul-21	Sunny	13:36	65.6	59.4	
27-Jul-21	Sunny	13:41	64.2	59.4	

Remarks:

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

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

Limit Level at NM4 was reduced to 65dB(A) during school examination periods. Pre-Secondary 1 Hong Kong Attainment Test took place on 13 July during this reporting period.

Noise Measurement Results

Station: NM5- Village House, Tin Sum

Date	Weather	Time	Measured L ₁₀ dB(A)	Measured L ₉₀ dB(A)	L _{eq(30mins)} dB(A) ^
02-Jul-21	Sunny	13:40	53.0	45.0	54
02-Jul-21	Sunny	13:45	56.8	45.2	
02-Jul-21	Sunny	13:50	52.3	42.9	
02-Jul-21	Sunny	13:55	53.5	44.9	
02-Jul-21	Sunny	14:00	53.3	45.6	
02-Jul-21	Sunny	14:05	50.1	44.1	
08-Jul-21	Sunny	14:14	56.7	51.7	62*
08-Jul-21	Sunny	14:19	66.8	55.2	
08-Jul-21	Sunny	14:24	63.3	57.7	
08-Jul-21	Sunny	14:29	60.9	56.0	
08-Jul-21	Sunny	14:34	61.7	54.4	
08-Jul-21	Sunny	14:39	63.5	54.1	
14-Jul-21	Sunny	12:47	52.8	44.0	53
14-Jul-21	Sunny	12:52	49.0	41.7	
14-Jul-21	Sunny	12:57	49.2	42.2	
14-Jul-21	Sunny	13:02	54.4	44.5	
14-Jul-21	Sunny	13:07	53.2	44.2	
14-Jul-21	Sunny	13:12	48.6	44.3	
20-Jul-21	Cloudy	13:49	59.7	53.4	61*
20-Jul-21	Cloudy	13:54	58.8	53.3	
20-Jul-21	Cloudy	13:59	67.1	59.8	
20-Jul-21	Cloudy	14:04	59.6	56.3	
20-Jul-21	Cloudy	14:09	58.2	54.6	
20-Jul-21	Cloudy	14:14	58.8	54.3	
26-Jul-21	Sunny	13:08	53.8	50.4	56
26-Jul-21	Sunny	13:13	54.6	50.0	
26-Jul-21	Sunny	13:18	53.9	49.7	
26-Jul-21	Sunny	13:23	52.8	49.0	
26-Jul-21	Sunny	13:28	52.1	49.3	
26-Jul-21	Sunny	13:33	64.6	49.1	

Remarks:

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

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

Noise Measurement Results

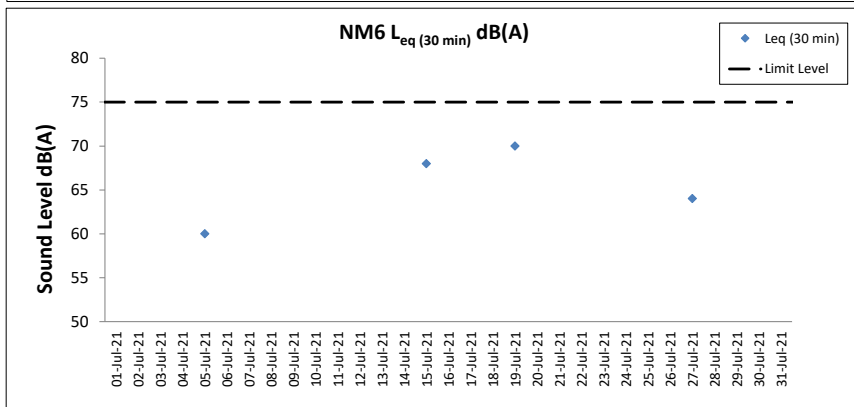
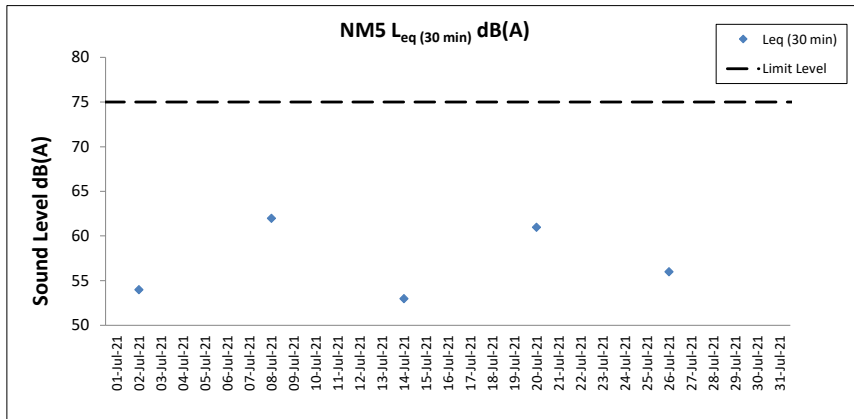
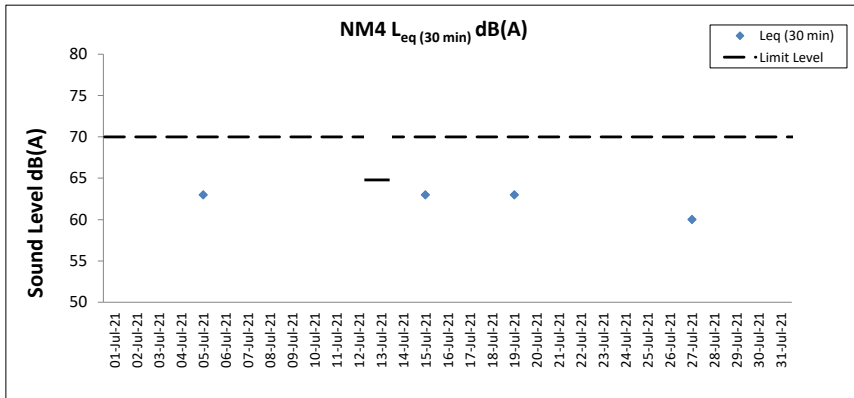
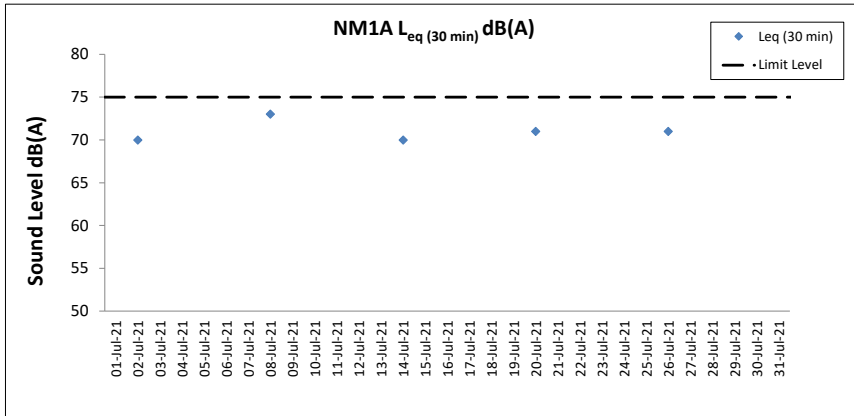
Station: NM6- House No.1 Sha Lo Wan

Date	Weather	Time	Measured L ₁₀ dB(A)	Measured L ₉₀ dB(A)	L _{eq(30mins)} dB(A) ^
05-Jul-21	Cloudy	13:41	54.2	45.4	60
05-Jul-21	Cloudy	13:46	55.9	41.8	
05-Jul-21	Cloudy	13:51	54.6	42.2	
05-Jul-21	Cloudy	13:56	53.4	47.4	
05-Jul-21	Cloudy	14:01	67.6	53.1	
05-Jul-21	Cloudy	14:06	58.7	42.2	
15-Jul-21	Sunny	15:45	71.3	55.0	68
15-Jul-21	Sunny	15:50	70.2	54.9	
15-Jul-21	Sunny	15:55	71.1	54.9	
15-Jul-21	Sunny	16:00	66.5	54.3	
15-Jul-21	Sunny	16:05	57.7	53.5	
15-Jul-21	Sunny	16:10	57.1	53.6	
19-Jul-21	Cloudy	15:38	72.5	53.2	70*
19-Jul-21	Cloudy	15:43	72.5	56.2	
19-Jul-21	Cloudy	15:48	76.1	56.4	
19-Jul-21	Cloudy	15:53	58.7	52.7	
19-Jul-21	Cloudy	15:58	62.4	54.2	
19-Jul-21	Cloudy	16:03	71.6	56.2	
27-Jul-21	Sunny	15:47	62.6	47.0	64
27-Jul-21	Sunny	15:52	65.4	44.3	
27-Jul-21	Sunny	15:57	66.6	51.6	
27-Jul-21	Sunny	16:02	65.0	47.3	
27-Jul-21	Sunny	16:07	58.7	41.7	
27-Jul-21	Sunny	16:12	65.3	42.0	

Remarks:

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

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



Notes

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

Water Quality Monitoring Results

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

Water Quality Monitoring

Water Quality Monitoring Results on **01 July 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	17:34	9.0	Surface	1.0	0.3	207	27.9	27.9	8.3	8.3	16.6	16.6	112.2	112.2	7.7	6.8	7.6	3	3	815636	804246	
						1.0	0.3	221	27.9	8.3	16.6	112.1	7.7	7.6	3									
						4.5	0.2	221	27.1	8.2	23.0	23.1	86.3	86.3	5.8	6.8	8.8	3						
					4.5	0.2	223	27.1	8.2	23.1	23.1	86.2	86.3	5.8	6.8	8.9	3							
					8.0	0.3	213	26.8	26.8	8.1	8.1	26.0	25.7	71.9	72.0	4.8	4.8	16.5	3					
					8.0	0.3	233	26.8	26.8	8.1	8.1	25.5	25.0	72.0	72.0	4.8	4.8	16.5	2					
C2	Sunny	Moderate	16:26	12.3	Surface	1.0	0.4	188	29.1	29.1	8.1	8.1	18.4	18.4	99.1	99.1	6.9	5.7	2.1	2	2	825705	806960	
						1.0	0.4	202	29.1	29.1	8.1	18.4	18.4	99.0	99.1	6.9	5.7	2.2	3					
						6.2	0.3	179	27.2	27.2	7.9	7.9	23.9	23.9	65.1	65.0	4.5	4.2	2.4	2				
					6.2	0.3	187	27.2	27.2	7.9	7.9	23.9	23.9	64.9	65.0	4.5	4.2	2.5	3					
					11.3	0.3	192	26.9	26.9	7.9	7.9	25.1	25.1	60.9	61.0	4.2	4.2	6.3	2					
					11.3	0.3	192	26.9	26.9	7.9	7.9	25.2	25.1	61.1	61.0	4.2	4.2	6.3	2					
C3	Sunny	Moderate	18:40	11.3	Surface	1.0	0.2	100	28.9	28.9	8.1	8.1	20.3	20.3	96.7	96.7	6.7	6.2	2.0	4	3	822112	817779	
						1.0	0.2	101	28.9	28.9	8.1	20.3	20.3	96.7	96.7	6.7	6.2	2.0	3					
						5.7	0.3	92	27.7	27.7	8.0	8.0	22.7	22.7	80.0	80.2	5.6	4.9	1.8	4				
					5.7	0.3	94	27.7	27.7	8.0	8.0	22.7	22.7	80.4	80.2	5.6	4.9	1.8	3					
					10.3	0.3	76	26.8	26.8	8.0	8.0	25.6	25.6	70.2	70.3	4.9	4.9	1.7	3					
					10.3	0.4	77	26.8	26.8	8.0	8.0	25.6	25.6	70.3	70.3	4.9	4.9	1.7	3					
IM1	Sunny	Moderate	17:13	5.4	Surface	1.0	0.1	175	28.1	28.1	8.3	8.3	15.6	15.6	108.2	108.2	7.4	7.4	8.2	3	3	817963	807108	
						1.0	0.1	177	28.1	28.1	8.3	15.6	15.6	108.1	108.1	7.4	7.4	8.2	2					
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-
					4.4	0.2	188	27.2	27.2	8.1	8.1	22.1	22.1	80.8	80.9	5.4	5.4	13.6	4					
					4.4	0.2	191	27.2	27.2	8.1	8.1	22.0	22.1	80.9	80.9	5.4	5.4	13.7	3					
					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
IM2	Sunny	Moderate	17:05	7.8	Surface	1.0	0.2	200	27.9	27.9	8.2	8.2	18.3	18.3	101.6	101.5	6.9	6.4	8.6	3	3	818153	806185	
						1.0	0.2	217	27.9	27.9	8.2	18.3	18.3	101.4	101.5	6.9	6.4	8.6	3					
						3.9	0.2	135	27.4	27.4	8.2	8.2	20.8	20.8	86.8	86.7	5.8	6.4	11.5	3				
					3.9	0.2	137	27.5	27.5	8.2	8.2	20.8	20.8	86.5	86.7	5.8	6.4	11.6	3					
					6.8	0.2	186	26.5	26.5	8.1	8.1	26.9	26.9	66.0	66.1	4.4	4.4	26.1	2					
					6.8	0.2	201	26.5	26.5	8.1	8.1	26.9	26.9	66.1	66.1	4.4	4.4	26.3	3					
IM3	Sunny	Moderate	16:57	8.1	Surface	1.0	0.3	179	28.4	28.4	8.3	8.3	16.8	16.8	108.9	108.9	7.4	6.5	8.5	2	3	818781	805586	
						1.0	0.3	186	28.4	28.4	8.3	16.8	16.8	108.8	108.9	7.4	6.5	8.5	3					
						4.1	0.2	199	27.2	27.2	8.1	8.1	22.2	22.2	81.4	81.4	5.5	6.5	11.6	3				
					4.1	0.2	203	27.2	27.2	8.1	8.1	22.2	22.2	81.4	81.4	5.5	6.5	11.6	3					
					7.1	0.2	168	26.8	26.8	8.1	8.1	25.4	25.4	69.8	69.9	4.6	4.6	21.7	3					
					7.1	0.3	181	26.8	26.8	8.1	8.1	25.3	25.4	69.9	69.9	4.6	4.6	21.5	4					
IM4	Sunny	Moderate	16:47	8.2	Surface	1.0	0.2	203	28.3	28.3	8.2	8.2	16.3	16.3	104.7	104.7	7.1	6.7	7.8	3	3	819724	804610	
						1.0	0.2	206	28.3	28.3	8.2	16.3	16.3	104.6	104.7	7.1	6.7	7.8	3					
						4.1	0.4	213	27.4	27.4	8.2	8.2	21.2	21.2	93.5	93.6	6.3	6.6	10.7	2				
					4.1	0.4	225	27.4	27.4	8.2	8.2	21.1	21.2	93.6	93.6	6.3	6.6	10.7	3					
					7.2	0.3	208	26.7	26.7	8.1	8.1	25.6	25.6	68.1	68.2	4.5	4.5	48.3	2					
					7.2	0.3	228	26.7	26.7	8.1	8.1	25.6	25.6	68.2	68.2	4.5	4.5	48.0	3					
IM5	Sunny	Moderate	16:38	7.6	Surface	1.0	0.3	208	28.3	28.3	8.2	8.2	16.0	16.0	103.2	103.2	7.0	6.1	7.8	6	5	820755	804853	
						1.0	0.3	209	28.3	28.3	8.2	16.0	16.0	103.1	103.2	7.0	6.1	7.8	5					
						3.8	0.3	211	27.1	27.1	8.1	8.1	23.2	23.2	77.2	77.3	5.2	6.1	14.0	4				
					3.8	0.3	216	27.1	27.1	8.1	8.1	23.2	23.2	77.3	77.3	5.2	6.1	14.1	5					
					6.6	0.3	209	26.7	26.7	8.1	8.1	25.3	25.3	67.8	67.9	4.5	4.5	28.3	4					
					6.6	0.4	213	26.7	26.7	8.1	8.1	25.3	25.3	68.0	67.9	4.5	4.5	28.4	4					
IM6	Sunny	Moderate	16:29	7.8	Surface	1.0	0.3	218	28.3	28.3	8.1	8.1	14.9	14.9	98.8	98.8	6.8	6.3	8.0	4	3	821036	805829	
						1.0	0.3	234	28.3	28.3	8.1	14.9	14.9	98.7	98.8	6.8	6.3	8.0	3					
						3.9	0.3	228	27.1	27.1	8.2	8.2	21.5	21.6	84.0	84.0	5.7	6.6	9.9	3				
					3.9	0.3	241	27.1	27.1	8.2	8.2	21.8	21.6	83.9	84.0	5.7	6.6	10.0	2					
					6.8	0.3	211	26.8	26.8	8.1	8.1	24.8	24.8	71.2	71.3	4.7	4.8	24.3	3					
					6.8	0.3	219	26.8	26.8	8.1	8.1	24.8	24.8	71.4	71.3	4.7	4.8	24.3	2					
IM7	Sunny	Moderate	16:21	8.8	Surface	1.0	0.3	223	28.4	28.4	8.2	8.2	14.0	14.0	101.6	101.6	7.0	6.6	7.7	4	3	821340	806822	
						1.0	0.3	239	28.4	28.4	8.2	14.0	14.0	101.6	101.6	7.0	6.6	7.7	3					
						4.4	0.3	231	27.5	27.5	8.2	8.2	19.9	19.9	90.0	90.0	6.1	6.6	9.2	3				
					4.4	0.3	250	27.5	27.5	8.2	8.2	19.9	19.9	89.9	90.0	6.1	6.6	9.2	2					
					7.8	0.4	227	27.0	27.0	8.1	8.1	23.9	23.9	73.3	73.3	4.9	4.9	13.9	3					
					7.8	0.4	236	27.0	27.0	8.1	8.1	23.9	23.9	73.3	73.3	4.9	4.9	13.9	2					
IM8	Sunny	Moderate	16:54	7.6	Surface	1.0	0.2	107	29.0	29.0	8.1	8.1	19.8	19.8	92.7	92.6	6.4	6.0	2.2	3	3	821829	808134	
						1.0	0.3	116	29.0	29.0	8.1	19.8	19.8	92.5	92.6	6.4	6.0	2.2	4					
						3.8	0.2	96	28.3	28.3	8.0	8.0	20.3	20.3	80.6	80.5	5.6	6.0	3.3	4				
					3.8	0.2	97	28.2	28.3	8.0	8.0	20.3	20.3	80.4	80.5	5.6	6.0	3.3	3					
					6.6	0.1	71	27.4	27.5	7.9	7.9	22.8	22.8	68.0	67.9	4.7	4.7	3.8	3					
					6.6	0.1	76	27.5	27.5	7.9	7.9	22.7	22.7	67.7	67.9	4.7	4.7	3.7	3					

DA: Depth-Averaged

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

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

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

Water Quality Monitoring

Water Quality Monitoring Results on 01 July 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	17:00	7.7	Surface	1.0	0.3	80	28.9	28.9	8.1	8.1	19.2	19.2	91.8	91.8	6.4	2.4	2	2	822117	808820		
						1.0	0.3	84	28.9	8.1	8.1	19.2	19.2	91.7	91.7	6.4	2.4	3						
						3.9	0.2	80	27.8	8.0	8.0	21.6	21.6	71.3	71.3	5.0	7.1	3						
					Middle	3.9	0.2	80	27.8	8.0	8.0	21.6	21.6	71.3	71.3	5.0	7.1	2						
						6.7	0.3	94	27.2	7.9	7.9	23.9	23.8	64.6	64.8	4.5	7.8	2						
						6.7	0.3	98	27.2	7.9	7.9	23.8	23.8	65.0	64.8	4.5	7.6	2						
					Bottom	1.0	0.4	114	29.0	29.0	8.0	8.0	19.3	19.3	91.0	91.0	6.3	2.2	3					
						1.0	0.4	123	29.0	29.0	8.0	8.0	19.3	19.3	90.9	91.0	6.3	2.2	3					
						4.0	0.2	95	28.0	28.0	8.0	8.0	21.0	21.0	75.9	75.8	5.3	3.5	3					
IM10	Sunny	Moderate	17:08	8.0	Surface	1.0	0.4	114	29.0	29.0	8.0	8.0	19.3	19.3	91.0	91.0	6.3	2.2	3	3	822370	809808		
						1.0	0.4	123	29.0	29.0	8.0	8.0	19.3	19.3	90.9	91.0	6.3	2.2	3					
						4.0	0.2	95	28.0	28.0	8.0	8.0	21.0	21.0	75.9	75.8	5.3	3.5	3					
					Middle	4.0	0.2	96	28.0	28.0	8.0	8.0	21.0	21.0	75.6	75.8	5.3	3.5	3					
						7.0	0.3	75	27.4	27.4	8.0	8.0	23.1	23.2	67.1	67.2	4.7	7.9	2					
						7.0	0.3	77	27.4	27.4	8.0	8.0	23.2	23.2	67.2	67.2	4.7	8.2	3					
					Bottom	1.0	0.4	113	28.8	28.8	8.1	8.1	19.5	19.5	92.5	92.5	6.4	2.2	2					
						1.0	0.4	122	28.8	28.8	8.1	8.1	19.5	19.5	92.5	92.5	6.4	2.3	2					
						4.1	0.2	141	28.2	28.2	8.0	8.0	20.3	20.3	83.5	83.4	5.8	2.2	3					
IM11	Sunny	Moderate	17:18	8.2	Surface	1.0	0.2	141	28.2	28.2	8.0	8.0	20.3	20.3	83.5	83.4	5.8	2.2	3	2	822064	811446		
						1.0	0.2	141	28.2	28.2	8.0	8.0	20.3	20.3	83.2	83.4	5.8	2.2	3					
						4.1	0.2	141	28.2	28.2	8.0	8.0	20.3	20.3	83.2	83.4	5.8	2.2	3					
					Middle	7.2	0.2	83	26.9	26.9	7.9	7.9	24.9	24.9	64.9	65.1	4.5	4.8	2					
						7.2	0.2	86	26.9	26.9	7.9	7.9	24.9	24.9	65.2	65.1	4.5	4.8	2					
						1.0	0.4	103	28.7	28.7	8.1	8.1	19.7	19.7	91.9	91.9	6.4	2.0	3					
					Bottom	1.0	0.4	112	28.7	28.7	8.1	8.1	19.7	19.7	91.9	91.9	6.4	2.0	4					
						4.5	0.2	112	28.3	28.3	8.0	8.0	20.6	20.6	84.8	84.4	5.9	2.1	3					
						4.5	0.2	122	28.3	28.3	8.0	8.0	20.6	20.6	84.0	84.4	5.8	2.1	3					
IM12	Sunny	Moderate	17:24	9.0	Surface	1.0	0.2	83	26.9	26.9	8.0	8.0	25.1	25.0	63.4	65.2	4.4	4.9	2	3	821468	812036		
						1.0	0.4	103	28.7	28.7	8.1	8.1	19.7	19.7	91.9	91.9	6.4	2.0	3					
						1.0	0.4	112	28.7	28.7	8.1	8.1	19.7	19.7	91.9	91.9	6.4	2.0	4					
					Middle	4.5	0.2	112	28.3	28.3	8.0	8.0	20.6	20.6	84.8	84.4	5.9	2.1	3					
						4.5	0.2	122	28.3	28.3	8.0	8.0	20.6	20.6	84.0	84.4	5.8	2.1	3					
						8.0	0.2	81	26.9	27.0	8.0	8.0	25.1	25.0	63.4	65.2	4.4	4.9	2					
					Bottom	8.0	0.2	83	27.0	27.0	8.0	8.0	25.0	25.0	66.9	65.2	4.6	4.6	3					
						1.0	-	-	28.6	28.6	8.0	8.0	19.8	19.7	88.0	88.0	6.1	2.4	3					
						1.0	-	-	28.6	28.6	8.0	8.0	19.7	19.7	88.0	88.0	6.1	2.4	2					
SR1A	Sunny	Calm	17:57	5.2	Surface	1.0	-	-	-	-	8.0	8.0	20.6	20.6	85.3	85.3	5.9	2.5	2	3	819982	812658		
						1.0	-	-	-	-	8.0	8.0	20.6	20.6	85.2	85.3	5.9	2.5	3					
						2.6	-	-	-	-	8.0	8.0	20.6	20.6	85.3	85.3	5.9	2.5	2					
					Middle	2.6	-	-	-	-	8.0	8.0	20.6	20.6	85.2	85.3	5.9	2.5	3					
						4.2	-	-	28.3	28.3	8.0	8.0	20.6	20.6	85.3	85.3	5.9	2.5	2					
						4.2	-	-	28.3	28.3	8.0	8.0	20.6	20.6	85.2	85.3	5.9	2.5	3					
					Bottom	1.0	0.2	87	28.7	28.8	8.1	8.1	19.7	19.7	96.0	96.0	6.7	1.8	3					
						1.0	0.2	90	28.8	28.8	8.1	8.1	19.7	19.7	95.9	96.0	6.6	1.8	4					
						-	-	-	-	-	-	-	-	-	-	-	-	-	2.4					
SR2	Sunny	Moderate	18:11	4.7	Surface	1.0	-	-	-	-	8.0	8.0	21.4	21.4	85.7	85.9	6.0	3.2	2	3	821486	814149		
						1.0	0.2	118	28.1	28.1	8.0	8.0	21.4	21.4	85.7	85.9	6.0	3.2	2					
						1.0	0.2	90	28.8	28.8	8.1	8.1	19.7	19.7	95.9	96.0	6.6	1.8	4					
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	2.5					
						-	-	-	-	-	-	-	-	-	-	-	-	-	2.5					
						3.7	0.2	118	28.1	28.1	8.0	8.0	21.4	21.4	85.7	85.9	6.0	3.2	2					
					Bottom	3.7	0.2	129	28.1	28.1	8.0	8.0	21.3	21.4	86.0	85.9	6.0	3.0	3					
						1.0	0.5	100	28.8	28.8	8.1	8.1	19.3	19.3	96.6	96.4	6.7	3.3	2					
						1.0	0.5	107	28.8	28.8	8.1	8.1	19.4	19.3	96.2	96.4	6.7	3.4	3					
Middle	4.6	0.3	84	28.4	28.4	8.0	8.0	20.4	20.4	87.1	86.9	6.0	3.5	3										
	4.6	0.3	85	28.4	28.4	8.0	8.0	20.4	20.4	86.7	86.9	6.0	3.4	2										
	8.1	0.1	353	27.4	27.4	8.0	8.0	23.1	23.1	67.6	67.7	4.7	4.5	<2										
Bottom	8.1	0.1	325	27.4	27.4	8.0	8.0	23.2	23.2	67.7	67.7	4.7	4.6	<2										
	1.0	0.4	79	27.8	27.8	8.2	8.2	18.0	18.0	87.8	87.6	6.0	11.5	<2										
	1.0	0.4	79	27.8	27.8	8.2	8.2	17.9	18.0	87.4	87.6	6.0	11.5	<2										
Middle	4.8	0.4	88	26.7	26.7	8.1	8.1	26.4	26.4	64.2	64.2	4.3	19.5	3										
	4.8	0.4	95	26.7	26.7	8.1	8.1	26.4	26.4	64.2	64.2	4.3	19.5	2										
	8.5	0.4	102	26.5	26.5	8.1	8.1	26.8	26.8	65.5	65.6	4.3	21.5	3										
Bottom	8.5	0.4	102	26.5	26.5	8.1	8.1	26.8	26.8	65.6	65.6	4.3	21.5	2										
	1.0	0.4	55	28.6	28.6	8.3	8.3	19.1	19.1	122.7	122.7	8.2	9.0	<2										
	1.0	0.4	59	28.6	28.6	8.3	8.3	19.1	19.1	122.6	122.7	8.2	9.0	<2										
Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	10.0										
	-	-	-	-	-	-	-	-	-	-	-	-	-	10.0										
	4.7	0.4	67	28.3	28.3	8.2	8.2	20.2	20.2	103.9	104.0	6.9	11.0	2										
Bottom	4.7	0.4	70	28.3	28.3	8.2	8.2	20.2	20.2	104.0	104.0	6.9	11.0	2										
	1.0	0.2	70	28.5	28.5	8.3	8.3	19.8	19.8	126.3	126.1	8.4	11.6	<2										
	1.0	0.2	74	28.5	28.5	8.3	8.3	19.8	19.8	125.9	126.1	8.4	11.6	<2										
Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	11.7										
	-	-	-	-	-	-	-	-	-	-	-	-	-	11.7										
	3.7	0.3	88	28.2	28.2	8.2	8.2	20.3	20.3	116.4	116.7	7.8	11.7	<2										
Bottom	3.7	0.3	95	28.2	28.2	8.2	8.2	20.3	20.3	116.9	116.7	7.8	11.7	<2										
	1.0	0.4	113	29.0	29.0	8.1	8.1	19.5	19.5	103.5	103.7	7.2	1.6	<2										
	1.0	0.4	117	29.0	29.0	8.1	8.1	19.5	19.5	103.9	103.7	7.2	1.6	<2										
Middle	7.3	0.4	147	28.8	28.8	8.1	8.1	19.8	19.8	99.7	99.6	6.9	1.6	3										
	7.3	0.5	160	28.8	28.8	8.1	8.1	19.8	19.8	99.5	99.6	6.9	1.7	2										
	13.5	0.4	151	28.5	28.5	8.1	8.1	20.6	20.7	96.5	96.7	6.7	2.3	3										
Bottom	13.5	0.5	154	28.5	28.5	8.1	8.1	20.8	20.7	96.8	96.7	6.7	2.4	2										
	1.0	-	-	28.6	28.																			

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

Water Quality Monitoring Results on 01 July 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	Moderate	11:02	9.5	Surface	1.0	0.4	66	26.6	26.6	8.0	8.0	25.6	25.6	64.0	64.1	4.3	21.6	2	2	815610	804227			
						1.0	0.4	69	26.6	26.6	8.0	8.0	25.5	25.5	4.3	21.4	2								
					Middle	4.8	0.3	37	27.2	27.2	8.0	8.0	16.6	16.6	84.7	84.7	5.9	7.7	2						
						4.8	0.3	39	27.2	27.2	8.0	8.0	16.6	16.6	84.6	84.6	5.9	7.7	2						
					Bottom	8.5	0.3	55	27.4	27.4	8.1	8.1	20.3	20.3	78.2	78.2	5.3	9.0	<2						
						8.5	0.3	56	27.4	27.4	8.1	8.1	20.3	20.3	78.2	78.2	5.3	9.1	<2						
C2	Sunny	Moderate	13:09	12.9	Surface	1.0	0.3	37	29.0	29.0	8.1	8.1	18.2	18.2	97.9	97.8	6.8	2.3	3	3	825679	806949			
						1.0	0.4	37	29.0	29.0	8.1	8.1	18.2	18.2	97.7	97.7	6.8	2.3	2						
					Middle	6.5	0.3	30	27.2	27.2	7.9	7.9	24.2	24.2	63.9	63.9	4.4	2.6	3						
						6.5	0.3	31	27.2	27.2	7.9	7.9	24.2	24.2	63.9	63.9	4.4	2.6	3						
					Bottom	11.9	0.3	24	26.8	26.8	7.9	7.9	25.5	25.5	60.0	60.2	4.2	7.7	3						
						11.9	0.3	24	26.8	26.8	7.9	7.9	25.4	25.4	60.4	60.4	4.2	6.9	4						
C3	Sunny	Moderate	11:05	12.5	Surface	1.0	0.3	227	28.3	28.3	8.0	8.0	19.1	19.1	86.8	86.8	6.1	2.0	3	2	822121	817800			
						1.0	0.3	228	28.3	28.3	8.0	8.0	19.1	19.1	86.8	86.8	6.1	2.0	2						
					Middle	6.3	0.4	246	27.1	27.1	8.0	8.0	24.2	24.2	71.8	71.8	5.0	1.8	2						
						6.3	0.4	262	27.1	27.1	8.0	8.0	24.2	24.2	71.8	71.8	5.0	1.8	3						
					Bottom	11.5	0.3	233	25.9	25.9	8.0	8.0	29.2	29.2	60.3	60.4	4.2	4.7	<2						
						11.5	0.3	245	25.9	25.9	8.0	8.0	29.2	29.2	60.4	60.4	4.2	4.7	<2						
IM1	Sunny	Moderate	11:21	5.7	Surface	1.0	0.2	133	27.1	27.1	8.0	8.0	15.9	15.9	85.2	85.2	5.9	8.3	4	4	817961	807137			
						1.0	0.2	140	27.1	27.1	8.0	8.0	15.9	15.9	85.1	85.1	5.9	8.3	3						
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-
						-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-
					Bottom	4.7	0.1	108	27.3	27.3	8.1	8.1	18.6	18.6	80.9	80.9	5.5	10.3	4						
						4.7	0.1	117	27.3	27.3	8.1	8.1	18.6	18.6	80.8	80.8	5.5	10.4	4						
IM2	Sunny	Moderate	11:29	8.0	Surface	1.0	0.2	61	27.1	27.1	8.1	8.1	17.4	17.4	88.8	88.8	6.1	7.1	4	4	818155	806156			
						1.0	0.2	64	27.1	27.1	8.1	8.1	17.4	17.4	88.7	88.7	6.1	7.1	5						
					Middle	4.0	0.3	55	27.5	27.5	8.1	8.1	19.3	19.3	83.1	83.1	5.6	8.4	4						
						4.0	0.3	59	27.5	27.5	8.1	8.1	19.3	19.3	83.0	83.0	5.6	8.4	4						
					Bottom	7.0	0.2	49	27.3	27.3	8.1	8.1	21.6	21.6	75.4	75.4	5.1	11.1	5						
						7.0	0.2	50	27.3	27.3	8.1	8.1	21.7	21.7	75.4	75.4	5.1	11.3	4						
IM3	Sunny	Moderate	11:37	8.2	Surface	1.0	0.4	59	27.2	27.2	8.1	8.1	18.5	18.5	89.9	89.9	6.2	7.7	3	3	818760	805610			
						1.0	0.4	60	27.2	27.2	8.1	8.1	18.5	18.5	89.8	89.8	6.2	7.8	3						
					Middle	4.1	0.3	58	27.6	27.6	8.1	8.1	19.9	19.9	84.9	84.8	5.7	10.3	4						
						4.1	0.3	60	27.6	27.6	8.1	8.1	19.9	19.9	84.7	84.7	5.7	10.4	3						
					Bottom	7.2	0.3	69	27.2	27.2	8.1	8.1	23.1	23.1	77.4	77.5	5.2	26.2	3						
						7.2	0.3	74	27.2	27.2	8.1	8.1	23.1	23.1	77.5	77.5	5.2	26.3	4						
IM4	Sunny	Moderate	11:48	8.2	Surface	1.0	0.3	44	26.5	26.5	8.1	8.1	27.4	27.4	64.9	65.0	4.3	24.2	3	3	819706	804596			
						1.0	0.3	45	26.5	26.5	8.1	8.1	27.4	27.4	65.0	65.0	4.3	24.5	4						
					Middle	4.1	0.3	66	27.2	27.2	8.1	8.1	17.9	17.9	93.2	93.2	6.4	7.6	3						
						4.1	0.3	69	27.2	27.2	8.1	8.1	17.9	17.9	93.1	93.1	6.4	7.7	2						
					Bottom	7.2	0.3	49	27.4	27.4	8.1	8.1	21.4	21.3	88.3	88.3	5.9	8.7	3						
						7.2	0.3	51	27.4	27.4	8.1	8.1	21.1	21.1	88.3	88.3	6.0	8.7	2						
IM5	Sunny	Moderate	11:57	7.6	Surface	1.0	0.3	46	27.2	27.2	8.1	8.1	23.6	23.6	78.7	78.9	5.2	10.8	3	3	820735	804852			
						1.0	0.3	46	27.2	27.2	8.1	8.1	23.6	23.6	79.0	78.9	5.3	10.8	2						
					Middle	3.8	0.3	63	27.1	27.1	8.1	8.1	15.6	15.6	83.6	83.5	5.8	10.7	3						
						3.8	0.3	67	27.1	27.1	8.1	8.1	15.6	15.6	83.4	83.4	5.8	10.7	2						
					Bottom	6.6	0.3	72	26.8	26.8	8.1	8.1	25.2	25.2	70.3	70.3	4.7	16.6	4						
						6.6	0.3	74	26.8	26.8	8.1	8.1	25.2	25.2	70.3	70.3	4.7	16.6	4						
IM6	Sunny	Moderate	12:05	7.7	Surface	1.0	0.4	37	27.9	27.9	8.2	8.2	20.3	20.3	96.6	96.6	6.5	11.1	3	3	821050	805811			
						1.0	0.4	39	27.9	27.9	8.2	8.2	20.3	20.3	96.6	96.6	6.5	11.1	3						
					Middle	3.9	0.2	51	27.6	27.6	8.1	8.1	18.4	18.4	91.1	91.1	6.2	8.2	4						
						3.9	0.3	51	27.6	27.6	8.1	8.1	18.4	18.4	91.0	91.0	6.2	8.2	3						
					Bottom	6.7	0.3	61	27.6	27.6	8.1	8.1	20.4	20.4	82.2	82.2	5.5	10.5	3						
						6.7	0.4	63	27.6	27.6	8.1	8.1	20.4	20.4	82.1	82.1	5.5	10.6	4						
IM7	Sunny	Moderate	12:15	8.7	Surface	1.0	0.4	22	27.9	27.9	8.1	8.1	18.5	18.5	90.5	90.5	6.1	9.1	4	4	821336	806836			
						1.0	0.4	22	27.9	27.9	8.1	8.1	18.5	18.5	90.4	90.4	6.1	9.1	5						
					Middle	4.4	0.3	43	27.7	27.7	8.1	8.1	19.6	19.6	87.8	87.8	5.9	9.6	3						
						4.4	0.4	43	27.7	27.7	8.1	8.1	19.6	19.6	87.8	87.8	5.9	9.6	3						
					Bottom	7.7	0.4	35	28.0	28.0	8.2	8.2	20.3	20.3	97.6	97.6	6.5	10.0	3						
						7.7	0.4	35	28.0	28.0	8.2	8.2	20.3	20.3	97.6	97.6	6.5	10.0	3						
IM8	Sunny	Moderate	12:52	8.2	Surface	1.0	0.1	26	28.7	28.7	8.0	8.0	19.0	19.0	90.1	90.1	6.3	2.5	4	4	821818	808131			
						1.0	0.1	26	28.7	28.7	8.0	8.0	19.0	19.0	90.0	90.0	6.3	2.5	4						
					Middle	4.1	0.1	318	27.9	27.9	7.9	7.9	20.8	20.8	74.0	73.8	5.2	4.7	4						
						4.1	0.1	319	27.9	27.9	7.9	7.9	20.8	20.8	73.6	73.6	5.1	5.2	4						
					Bottom	7.2	0.2	102	27.2	27.2	7.9	7.9	24.2	24.2	62.8	62.9	4.4	13.1	4						
						7.2	0.2	108	27.2	27.2	7.9	7.9	24.2	24.2	63.0	62.9	4.4	13.3	5						

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

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

Water Quality Monitoring

Water Quality Monitoring Results on 01 July 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			Value	DA
IM9	Sunny	Moderate	12:46	7.8	Surface	1.0	0.1	70	28.8	28.8	8.0	8.0	18.9	18.9	91.0	91.0	6.3	6.1	2.2	3.8	6	4	822074	808811		
						1.0	0.1	75	28.8	8.0	8.0	18.9	18.9	6.3	6.1	2.2	3.8	5								
						3.9	0.0	196	28.6	8.0	8.0	19.5	19.4	85.1	85.2	5.9	5.0	2.7	3							
					Middle	3.9	0.0	210	28.6	8.0	8.0	19.4	19.4	85.2	85.2	5.9	5.0	2.6	4							
						6.8	0.2	245	27.7	7.9	7.9	21.7	21.7	70.8	70.9	4.9	4.1	6.7	3							
						6.8	0.2	257	27.7	7.9	7.9	21.7	21.7	71.0	70.9	5.0	4.1	6.6	4							
					Bottom	1.0	0.3	319	28.8	28.8	8.0	8.0	19.1	19.1	88.2	88.2	6.1	5.7	2.3	5.1	4					
						1.0	0.3	327	28.8	28.8	8.0	8.0	19.1	19.1	88.1	88.2	6.1	5.7	2.3	5						
						3.7	0.3	309	27.9	27.9	8.0	8.0	21.0	21.0	75.4	75.3	5.3	4.6	3.6	4						
IM10	Sunny	Moderate	12:38	7.3	Surface	1.0	0.3	319	28.8	28.8	8.0	8.0	19.1	19.1	88.2	88.2	6.1	5.7	2.3	5.1	4	4	822391	809798		
						1.0	0.3	327	28.8	8.0	8.0	19.1	19.1	88.1	88.2	6.1	5.7	2.3	5							
						3.7	0.3	309	27.9	27.9	8.0	8.0	21.0	21.0	75.4	75.3	5.3	4.6	3.6	4						
					Middle	3.7	0.4	329	27.9	27.9	8.0	8.0	21.0	21.0	75.2	75.3	5.3	4.6	3.5	5						
						6.3	0.3	295	27.4	27.4	7.9	7.9	23.0	23.0	65.9	65.9	4.6	4.1	9.2	2						
						6.3	0.3	323	27.4	27.4	7.9	7.9	23.1	23.1	65.8	65.9	4.6	4.1	9.5	3						
					Bottom	1.0	0.3	317	28.7	28.7	8.1	8.1	18.8	18.8	90.9	90.9	6.3	5.7	2.1	4.9	4					
						1.0	0.3	319	28.7	28.7	8.1	8.1	18.8	18.8	90.8	90.8	6.3	5.7	2.1	3						
						4.4	0.3	285	27.8	27.8	8.0	8.0	21.3	21.3	72.9	72.8	5.1	4.1	2.9	4						
IM11	Sunny	Moderate	12:26	8.8	Surface	1.0	0.3	317	28.7	28.7	8.1	8.1	18.8	18.8	90.9	90.9	6.3	5.7	2.1	4.9	4	4	822066	811439		
						1.0	0.3	319	28.7	28.7	8.1	8.1	18.8	18.8	90.8	90.8	6.3	5.7	2.1	3						
						4.4	0.3	285	27.8	27.8	8.0	8.0	21.3	21.3	72.9	72.8	5.1	4.1	2.9	4						
					Middle	4.4	0.3	293	27.8	27.8	8.0	8.0	21.3	21.3	72.6	72.8	5.1	4.1	2.9	3						
						7.8	0.3	292	26.8	26.8	7.9	7.9	25.5	25.5	59.7	59.6	4.1	4.1	9.6	4						
						7.8	0.3	294	26.8	26.8	7.9	7.9	25.5	25.5	59.4	59.6	4.1	4.1	9.6	3						
					Bottom	1.0	0.3	274	28.5	28.5	8.0	8.0	19.1	19.1	87.5	87.5	6.1	5.8	2.5	5.2	4					
						1.0	0.4	296	28.5	28.5	8.0	8.0	19.1	19.1	87.5	87.5	6.1	5.8	2.4	3						
						5.0	0.5	278	27.8	27.8	8.0	8.0	21.3	21.3	79.3	79.4	5.5	4.1	2.6	3						
IM12	Sunny	Moderate	12:18	10.0	Surface	1.0	0.3	274	28.5	28.5	8.0	8.0	19.1	19.1	87.5	87.5	6.1	5.8	2.5	5.2	4	4	821449	812056		
						1.0	0.4	296	28.5	28.5	8.0	8.0	19.1	19.1	87.5	87.5	6.1	5.8	2.4	3						
						5.0	0.5	278	27.8	27.8	8.0	8.0	21.3	21.3	79.3	79.4	5.5	4.1	2.6	3						
					Middle	5.0	0.5	304	27.8	27.8	8.0	8.0	21.3	21.3	79.5	79.4	5.5	4.1	2.5	4						
						9.0	0.1	277	26.2	26.2	8.0	8.0	28.2	28.2	55.7	55.8	3.8	3.9	10.8	5						
						9.0	0.1	288	26.2	26.2	8.0	8.0	28.2	28.2	55.9	55.8	3.9	3.9	10.7	4						
					Bottom	1.0	-	-	28.5	28.5	8.0	8.0	18.7	18.7	85.5	85.5	6.0	6.0	2.3	4						
						1.0	-	-	28.5	28.5	8.0	8.0	18.7	18.7	85.5	85.5	6.0	6.0	2.2	4						
						2.8	-	-	-	-	-	-	-	-	-	-	-	-	-	2.8	3					
SR1A	Sunny	Calm	11:44	5.6	Surface	1.0	-	-	28.5	28.5	8.0	8.0	18.7	18.7	85.5	85.5	6.0	6.0	2.3	4	3	819976	812659			
						1.0	-	-	28.5	28.5	8.0	8.0	18.7	18.7	85.5	85.5	6.0	6.0	2.2	4						
						2.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-				3		
					Middle	2.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	3	
						4.6	-	-	28.0	28.0	8.0	8.0	20.2	20.2	76.6	76.7	5.4	5.4	3.3	3						
						4.6	-	-	28.0	28.0	8.0	8.0	20.2	20.2	76.7	76.7	5.4	5.4	3.3	2						
					Bottom	1.0	0.1	335	28.4	28.4	8.0	8.0	19.0	19.0	83.9	83.7	5.9	5.9	2.5	4						
						1.0	0.1	308	28.4	28.4	8.0	8.0	19.0	19.0	83.5	83.5	5.9	5.9	2.6	4						
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				5.2		
SR2	Sunny	Moderate	11:27	4.9	Surface	1.0	0.1	335	28.4	28.4	8.0	8.0	19.0	19.0	83.9	83.7	5.9	5.9	2.5	4	3	821453	814168			
						1.0	0.1	308	28.4	28.4	8.0	8.0	19.0	19.0	83.5	83.5	5.9	5.9	2.6	4						
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				5.2		
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	3	
						3.9	0.1	351	27.6	27.6	8.0	8.0	22.2	22.2	72.9	73.0	5.1	5.1	7.9	3						
						3.9	0.1	323	27.6	27.6	8.0	8.0	22.2	22.2	73.0	73.0	5.1	5.1	7.9	2						
					Bottom	1.0	0.1	71	28.9	28.9	8.0	8.0	19.0	19.0	90.8	90.8	6.3	5.9	2.2	4						
						1.0	0.1	73	28.9	28.9	8.0	8.0	19.0	19.0	90.7	90.7	6.3	5.9	2.2	3						
						4.6	0.0	42	28.0	28.0	8.0	8.0	20.5	20.6	76.7	76.7	5.4	4.7	3.0	4						
SR3	Sunny	Moderate	12:58	9.2	Surface	1.0	0.1	71	28.9	28.9	8.0	8.0	19.0	19.0	90.8	90.8	6.3	5.9	2.2	4	4	822129	807552			
						1.0	0.1	73	28.9	28.9	8.0	8.0	19.0	19.0	90.7	90.7	6.3	5.9	2.2	3						
						4.6	0.0	42	28.0	28.0	8.0	8.0	20.5	20.6	76.7	76.7	5.4	4.7	3.0	4						
					Middle	4.6	0.0	43	28.0	28.0	8.0	8.0	20.6	20.6	76.6	76.7	5.4	4.7	3.0	3						
						8.2	0.1	91	27.4	27.4	7.9	7.9	23.0	23.0	67.7	67.7	4.7	4.7	3.3	4						
						8.2	0.1	95	27.4	27.4	7.9	7.9	22.9	22.9	67.6	67.7	4.7	4.7	3.3	5						
					Bottom	1.0	0.4	228	27.0	27.0	8.0	8.0	23.0	23.0	71.1	71.2	4.8	5.3	18.6	4						
						1.0	0.5	241	27.0	27.0	8.0	8.0	23.1	23.1	71.2	71.2	4.8	5.3	18.6	5						
						5.0	0.5	208	27.6	27.6	8.1	8.1	17.8	17.8	84.1	84.1	5.8	5.5	8.6	4						
SR4A	Sunny	Calm	10:38	10.0	Surface	1.0	0.4	228	27.0	27.0	8.0	8.0	23.0	23.0	71.1	71.2	4.8	5.3	18.6	4	4	817199	807801			
						1.0	0.5	241	27.0	27.0	8.0	8.0	23.1	23.1	71.2	71.2	4.8	5.3	18.6	5						
						5.0	0.5	208	27.6	27.6	8.1	8.1	17.8	17.8	84.1	84.1	5.8	5.5	8.6	4						
					Middle	5.0	0.5	220	27.6	27.6	8.1	8.1	17.8	17.8	84.1	84.1	5.8	5.5	8.6	3						
						9.0	0.4	221	27.6	27.6	8.1	8.1	18.6	18.6	80.6	80.6	5.5	5.5	10.9	3						
						9.0	0.5	228	27.6	27.6	8.1	8.1	18.6	18.6	80.6	80.6	5.5	5.5	11.0	3						
					Bottom	1.0	0.2	225	27.4	27.4	8.1	8.1	20.8	20.9	77.3	77.4	5.2	5.2	19.1	3						
						1.0	0.2	235	27.4	27.4	8.1	8.1	21.0	21.0	77.4	77.4	5.2	5.2	19.2	4						
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				13.8		
SR5A	Sunny	Calm	10:19	5.0	Surface	1.0	0.2	225	27.4	27.4	8.1	8.1	20.8	20.9	77.3	77.4	5.2	5.2	19.1	3	4	816611	810684			
						1.0	0.2	235	27.4	27.4	8.1	8.1	21.0	21.0	77.4	77.4	5.2	5.2	19.2	4						
						-	-	-																		

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

Water Quality Monitoring Results on **03 July 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	09:01	8.6	Surface	1.0	0.3	207	29.2	29.2	8.3	8.3	14.2	14.2	109.5	109.4	7.8	6.5	2.8	3.8	2	4	815623	804239				
						1.0	0.3	209	29.2	8.3	8.3	14.2	14.2	109.3	109.4	7.7	6.5	2.8	3.8	3								
						4.3	0.4	222	28.6	8.0	8.0	20.6	20.5	76.1	76.4	5.3	6.5	3.3	3.8	4								
						4.3	0.4	226	28.7	8.0	8.0	20.5	20.5	76.6	76.4	5.3	6.5	3.1	3.8	4								
						7.6	0.3	238	25.5	25.5	8.0	8.0	31.3	31.2	51.9	52.0	3.6	3.6	5.4	4								
						7.6	0.4	239	25.5	25.5	8.0	8.0	31.2	31.2	52.0	52.0	3.6	3.6	5.3	4								
C2	Fine	Rough	09:37	11.8	Surface	1.0	0.7	146	29.2	29.2	8.0	8.0	12.4	12.4	95.6	95.6	6.8	6.3	3.9	3.1	3	3	825692	806921				
						1.0	0.7	159	29.2	29.2	8.0	8.0	12.4	12.4	95.5	95.6	6.8	6.3	3.9	3.1	4							
						5.9	0.4	159	28.3	28.3	7.9	7.9	20.5	20.5	82.6	82.6	5.7	6.3	2.8	3.1	4							
						5.9	0.4	169	28.2	28.2	7.9	7.9	20.6	20.6	82.5	82.6	5.7	6.3	2.8	3.1	3							
						10.8	0.4	154	27.4	27.4	7.9	7.9	24.1	24.1	74.4	74.5	5.1	5.2	2.6	3.1	3							
						10.8	0.4	165	27.4	27.4	7.9	7.9	24.1	24.1	74.6	74.5	5.2	5.2	2.6	3.1	3							
C3	Fine	Rough	07:29	11.4	Surface	1.0	0.3	117	28.9	28.9	8.1	8.1	16.9	16.9	105.4	105.4	7.4	6.9	2.7	3.0	2	2	822117	817783				
						1.0	0.3	125	28.9	28.9	8.1	8.1	16.9	16.9	105.4	105.4	7.4	6.9	2.7	3.0	2							
						5.7	0.1	20	27.8	27.8	8.0	8.0	22.8	22.8	93.1	93.1	6.4	6.9	2.2	3.0	2							
						5.7	0.1	20	27.8	27.8	8.0	8.0	22.8	22.8	93.1	93.1	6.5	6.9	2.2	3.0	2							
						10.4	0.1	285	25.8	25.8	8.0	8.0	30.1	30.1	72.8	72.9	5.0	5.0	4.0	3.0	2							
						10.4	0.1	311	25.8	25.8	8.0	8.0	30.0	30.0	73.0	72.9	5.0	5.0	4.0	3.0	2							
IM1	Sunny	Moderate	09:25	5.0	Surface	1.0	0.1	168	29.3	29.3	8.3	8.3	14.6	14.6	115.5	115.4	8.2	8.2	2.8	3.1	4	4	817925	807115				
						1.0	0.1	173	29.3	29.3	8.3	8.3	14.6	14.6	115.2	115.4	8.1	8.2	2.8	3.1	3							
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	3.1	-	
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	4
						4.0	0.1	176	26.6	26.6	8.0	8.0	28.1	28.1	53.2	53.4	3.7	3.7	3.6	3.7	3.6				4			
						4.0	0.1	181	26.6	26.6	8.0	8.0	28.0	28.0	53.5	53.4	3.7	3.7	3.4	3.7	3							
IM2	Sunny	Moderate	09:33	7.4	Surface	1.0	0.1	191	28.9	28.9	8.3	8.3	16.1	16.3	112.5	110.4	7.9	6.0	3.5	4.0	3	3	818162	806156				
						1.0	0.1	193	28.9	28.9	8.3	8.3	16.6	16.3	108.2	110.4	7.6	6.0	3.5	4.0	3							
						3.7	0.1	199	26.8	26.9	8.0	8.0	26.2	26.2	61.4	61.3	4.2	6.0	4.2	4.0	4							
						3.7	0.1	212	26.9	26.9	8.0	8.0	26.2	26.2	61.2	61.3	4.2	6.0	4.3	4.0	4							
						6.4	0.1	223	25.6	25.6	8.0	8.0	31.0	31.0	52.2	52.4	3.6	3.6	4.3	3.6	4							
						6.4	0.1	238	25.6	25.6	8.0	8.0	31.0	31.0	52.5	52.4	3.6	3.6	4.3	3.6	3							
IM3	Sunny	Moderate	09:41	7.6	Surface	1.0	0.2	203	28.8	28.8	8.2	8.2	16.8	16.8	97.6	97.5	6.9	5.3	3.1	5.1	3	3	818802	805615				
						1.0	0.2	204	28.8	28.8	8.2	8.2	16.7	16.8	97.4	97.5	6.9	5.3	3.1	5.1	3							
						3.8	0.2	201	26.2	26.2	8.0	8.0	29.0	28.9	52.1	52.1	3.6	3.5	6.6	5.1	3							
						3.8	0.3	217	26.2	26.2	8.0	8.0	28.9	28.9	52.1	52.1	3.6	3.5	6.7	5.1	2							
						6.6	0.3	234	25.5	25.5	8.0	8.0	31.5	31.5	50.8	50.9	3.5	3.5	5.5	3.5	<2							
						6.6	0.3	238	25.5	25.5	8.0	8.0	31.5	31.5	51.0	50.9	3.5	3.5	5.7	3.5	<2							
IM4	Sunny	Moderate	09:53	8.2	Surface	1.0	0.2	221	29.6	29.6	8.2	8.2	14.4	14.4	103.1	102.8	7.3	7.1	2.9	7.4	4	4	819726	804620				
						1.0	0.3	224	29.6	29.6	8.2	8.2	14.4	14.4	102.5	102.8	7.2	7.1	2.9	7.4	4							
						4.1	0.3	218	27.8	27.8	8.0	8.0	22.1	22.1	65.4	65.5	4.5	7.1	9.2	7.4	4							
						4.1	0.3	230	27.8	27.8	8.0	8.0	22.0	22.0	65.5	65.5	4.6	7.1	9.2	7.4	3							
						7.2	0.3	221	26.0	26.0	8.0	8.0	29.5	29.5	50.6	50.8	3.5	3.5	10.2	3.5	2							
						7.2	0.3	231	26.0	26.0	8.0	8.0	29.5	29.5	50.9	50.8	3.5	3.5	10.2	3.5	6							
IM5	Sunny	Moderate	10:03	8.1	Surface	1.0	0.3	234	29.6	29.6	8.3	8.3	13.1	13.1	111.0	110.9	7.9	7.1	2.7	4.5	3	3	820734	804853				
						1.0	0.3	234	29.6	29.6	8.3	8.3	13.1	13.1	110.8	110.9	7.8	7.1	2.7	4.5	3							
						4.1	0.3	224	29.0	29.0	8.1	8.1	16.5	16.5	90.1	89.8	6.3	7.1	3.3	4.5	2							
						4.1	0.3	230	29.0	29.0	8.1	8.1	16.5	16.5	89.5	89.8	6.3	7.1	3.3	4.5	3							
						7.1	0.3	236	28.0	28.0	8.0	8.0	21.4	21.3	69.5	69.6	4.8	4.8	7.2	4.8	3							
						7.1	0.3	255	28.0	28.0	8.0	8.0	21.3	21.3	69.7	69.6	4.8	4.8	7.9	4.8	2							
IM6	Sunny	Moderate	10:12	8.2	Surface	1.0	0.3	251	29.6	29.6	8.3	8.3	13.4	13.4	111.0	110.9	7.9	7.5	2.8	5.1	4	4	821080	805812				
						1.0	0.3	272	29.6	29.6	8.3	8.3	13.4	13.4	110.8	110.9	7.8	7.5	2.8	5.1	5							
						4.1	0.3	236	29.3	29.3	8.2	8.2	15.1	15.1	102.2	101.9	7.2	7.5	3.1	5.1	4							
						4.1	0.3	242	29.3	29.3	8.2	8.2	15.1	15.1	101.5	101.9	7.2	7.5	3.1	5.1	3							
						7.2	0.3	245	27.8	27.8	7.9	7.9	22.3	22.3	64.2	64.3	4.5	4.5	9.4	4.5	4							
						7.2	0.3	263	27.8	27.8	7.9	7.9	22.3	22.3	64.4	64.3	4.5	4.5	9.6	4.5	3							
IM7	Sunny	Moderate	10:21	8.9	Surface	1.0	0.3	266	29.6	29.6	8.2	8.2	14.7	14.7	104.8	104.8	7.4	7.1	2.7	3.4	3	3	821331	806819				
						1.0	0.3	282	29.6	29.6	8.2	8.2	14.7	14.7	104.7	104.8	7.4	7.1	2.8	3.4	3							
						4.5	0.2	225	29.1	29.1	8.1	8.1	16.9	16.9	96.8	96.7	6.8	7.1	2.3	3.4	4							
						4.5	0.2	237	29.1	29.1	8.1	8.1	16.8	16.8	96.6	96.7	6.8	7.1	2.4	3.4	3							
						7.9	0.2	251	27.5	27.5	8.0	8.0	23.4	23.3	67.3	67.4	4.7	4.7	5.1	4.7	4							
						7.9	0.2	252	27.5	27.5	8.0	8.0	23.2	23.2	67.5	67.4	4.7	4.7	4.9	4.7	3							
IM8	Fine	Rough	09:10	7.8	Surface	1.0	0.2	156	29.4	29.4	8.0	8.0	14.7	14.7	106.2	106.2	7.5	7.3	3.2	3.4	2	2	821849	808124				
						1.0	0.2	167	29.4	29.4	8.0	8.0	14.7	14.7	106.1	106.2	7.5	7.3	3.2	3.4	3							
						3.9	0.0	167	29.2	29.2	8.0	8.0	16.2	16.2	99.2	99.2	7.0	7.3	3.1	3.4	3							
						3.9	0.0	183	29.2	29.2	8.0	8.0	16.2	16.2	99.2	99.2	7.0	7.3	3.1	3.4	2							
						6.8	0.1	298	28.4	28.4	7.9	7.9	20.3	20.3	86.4	86.5	6.0	6.0	3.8	6.0	2							
						6.8	0.1	324	28.4	28.4	7.9	7.9	20.3	20.3	86.5	86.5	6.0	6.0	3.8	6.0	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 03 July 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	09:03	7.4	Surface	1.0	0.3	121	29.4	29.4	8.0	8.0	14.4	14.4	105.0	105.0	7.4	6.8	3.1	<2	2	822115	808792	
						1.0	0.3	130	29.4	8.0	8.0	14.4	14.4	105.0	105.0	7.4	6.8	3.1	<2					
						3.7	0.2	72	28.8	7.9	7.9	17.8	17.8	88.2	88.2	6.2	5.7	3	2					
					Middle	3.7	0.2	72	28.7	28.8	7.9	7.9	17.9	17.8	88.1	88.2	6.2	5.9	2	3				
						6.4	0.2	72	28.0	28.0	7.9	7.9	21.8	21.8	79.9	80.1	5.5	7.8	3	3				
						6.4	0.2	73	28.0	28.0	7.9	7.9	21.8	21.8	80.2	80.1	5.6	7.7	2	3				
					Bottom	1.0	0.4	133	29.3	29.3	8.0	8.0	14.7	14.7	102.1	102.1	7.2	6.1	3.1	3				
						1.0	0.5	140	29.3	29.3	8.0	8.0	14.7	14.7	102.0	102.1	7.2	6.1	3.2	3				
						3.7	0.4	112	28.9	28.9	7.9	7.9	16.9	16.9	90.5	90.4	6.3	6.8	3.4	3				
Middle	3.7	0.4	112	28.9	28.9	7.9	7.9	16.9	16.9	90.2	90.4	6.3	6.8	3.4	3									
	6.3	0.4	126	28.3	28.3	7.9	7.9	20.8	20.8	88.0	88.0	6.1	6.1	3.5	3									
	6.3	0.4	130	28.3	28.3	7.9	7.9	20.9	20.8	87.9	88.0	6.1	6.1	3.4	3									
IM10	Fine	Rough	08:54	7.3	Surface	1.0	0.4	129	29.2	29.2	8.0	8.0	14.1	14.1	99.4	99.4	7.0	6.7	3.2	3	3	822365	809806	
						1.0	0.4	131	29.2	29.2	8.0	8.0	14.1	14.1	99.3	99.4	7.0	6.7	3.2	3				
						3.9	0.5	115	28.9	28.9	7.9	7.9	16.9	16.9	89.8	89.9	6.3	6.7	3.5	2				
					Middle	3.9	0.5	118	28.9	28.9	7.9	7.9	16.9	16.9	89.9	89.9	6.3	6.7	3.5	2				
						6.8	0.3	117	28.2	28.2	7.9	7.9	21.4	21.4	82.3	82.3	5.7	5.7	4.3	2				
						6.8	0.3	124	28.2	28.2	7.9	7.9	21.4	21.4	82.3	82.3	5.7	5.7	4.3	2				
					Bottom	1.0	0.3	118	29.5	29.5	8.0	8.0	13.1	13.1	104.0	103.9	7.4	6.6	3.5	2				
						1.0	0.3	128	29.5	29.5	8.0	8.0	13.1	13.1	103.8	103.9	7.4	6.6	3.5	3				
						4.5	0.4	102	28.7	28.7	7.9	7.9	17.7	17.7	82.8	82.7	5.8	6.6	3.6	3				
Middle	4.5	0.4	110	28.7	28.7	7.9	7.9	17.8	17.7	82.6	82.7	5.8	6.6	3.5	3									
	7.9	0.2	123	27.2	27.2	7.9	7.9	25.2	25.2	66.4	66.6	4.6	4.6	6.5	3									
	7.9	0.3	124	27.2	27.2	7.9	7.9	25.2	25.2	66.7	66.6	4.6	4.6	6.5	2									
SR1A	Fine	Rough	08:07	4.7	Surface	1.0	-	-	29.3	29.3	8.1	8.1	13.3	13.3	105.6	105.6	7.5	7.5	2.8	3	3	819977	812664	
						1.0	-	-	29.3	29.3	8.1	8.1	13.3	13.3	105.6	105.6	7.5	7.5	2.8	2				
						2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	2.8				
					Middle	2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-
						3.7	-	-	29.2	29.2	8.0	8.0	17.1	17.1	107.6	107.6	7.5	7.5	2.8	4				
						3.7	-	-	29.2	29.2	8.0	8.0	17.1	17.1	107.6	107.6	7.5	7.5	2.8	4				
					Bottom	1.0	0.3	56	29.4	29.4	8.1	8.1	14.3	14.3	107.8	107.8	7.6	7.6	2.8	2				
						1.0	0.3	60	29.4	29.4	8.1	8.1	14.3	14.3	107.8	107.8	7.6	7.6	2.8	3				
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.9				
Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
	3.3	0.3	52	29.2	29.2	8.1	8.1	16.2	16.2	106.8	106.8	7.5	7.5	3.0	3									
	3.3	0.3	52	29.2	29.2	8.1	8.1	16.2	16.2	106.8	106.8	7.5	7.5	3.1	2									
SR2	Fine	Rough	07:52	4.3	Surface	1.0	0.2	189	29.3	29.3	8.1	8.1	14.3	14.3	105.8	105.8	7.5	7.2	3.3	3	3	821479	814173	
						1.0	0.2	200	29.3	29.3	8.1	8.1	14.3	14.3	105.7	105.8	7.5	7.2	3.3	4				
						4.6	0.1	212	28.8	28.8	8.0	8.0	18.9	18.9	97.3	97.4	6.8	6.8	3.0	3				
					Middle	4.6	0.1	223	28.8	28.8	8.0	8.0	18.8	18.9	97.5	97.4	6.8	6.8	3.1	2				
						8.2	0.1	315	27.7	27.7	7.9	7.9	23.1	23.1	74.4	74.5	5.2	5.2	5.5	2				
						8.2	0.1	319	27.7	27.7	7.9	7.9	23.0	23.1	74.6	74.5	5.2	5.2	5.3	2				
					Bottom	1.0	0.4	113	28.8	28.8	8.2	8.2	17.9	17.9	97.3	97.1	6.8	6.8	3.9	5				
						1.0	0.4	122	28.8	28.8	8.2	8.2	17.9	17.9	96.9	97.1	6.8	6.8	3.9	5				
						4.6	0.4	97	26.3	26.3	8.0	8.0	28.9	28.9	54.3	54.3	3.7	3.8	8.8	6.8				
Middle	4.6	0.4	104	26.3	26.3	8.0	8.0	28.9	28.9	54.2	54.3	3.7	3.8	8.7	4									
	8.2	0.3	93	26.2	26.2	8.0	8.0	29.2	29.2	54.6	54.7	3.8	3.8	7.7	4									
	8.2	0.4	98	26.2	26.2	8.0	8.0	29.2	29.2	54.8	54.7	3.8	3.8	7.7	5									
SR4A	Fine	Calm	08:36	9.2	Surface	1.0	0.4	108	29.0	29.0	8.2	8.2	17.5	17.5	103.4	103.4	7.2	7.2	3.2	4	5	817183	807822	
						1.0	0.4	111	29.0	29.0	8.2	8.2	17.5	17.5	103.3	103.4	7.2	7.2	3.2	4				
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.3				
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
						4.4	0.2	67	28.8	28.8	8.1	8.1	19.3	19.2	91.5	91.6	6.3	6.4	5.5	3				
						4.4	0.2	70	28.8	28.8	8.1	8.1	19.2	19.2	91.6	91.6	6.4	6.4	5.3	2				
					Bottom	1.0	0.2	114	28.9	28.9	8.1	8.1	19.0	19.0	98.5	98.5	6.8	6.8	3.5	5				
						1.0	0.2	117	28.9	28.9	8.1	8.1	19.0	19.0	98.5	98.5	6.8	6.8	3.5	6				
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.6				
Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-									
	3.7	0.2	54	28.8	28.8	8.1	8.1	19.3	19.3	100.3	100.3	7.0	7.0	3.8	3									
	3.7	0.2	54	28.8	28.8	8.1	8.1	19.3	19.3	100.2	100.3	7.0	7.0	3.8	3									
SR6A	Fine	Calm	07:27	4.7	Surface	1.0	0.4	56	28.2	28.2	8.0	8.0	20.9	20.9	97.1	97.0	6.7	6.4	2.1	2	2	823651	823742	
						1.0	0.4	59	28.2	28.2	8.0	8.0	21.0	20.9	96.8	97.0	6.7	6.4	2.1	2				
						9.4	0.1	314	27.7	27.7	8.0	8.0	23.2	23.2	87.3	87.2	6.0	6.0	2.3	2				
					Middle	9.4	0.1	315	27.7	27.7	8.0	8.0	23.3	23.2	87.1	87.2	6.0	6.0	2.3	3				
						17.7	0.1	8	25.1	25.1	8.0	8.0	32.1	32.1	62.7	62.8	4.3	4.3	3.5	3				
						17.7	0.1	8	25.1	25.1	8.0	8.0	32.1	32.1	62.8	62.8	4.3	4.3	3.5	2				
					Bottom	1.0	-	-	29.7	29.7	8.0	8.0	14.3	14.3	105.9	106.0	7.4	7.4	3.3	2				
						1.0	-	-	29.7	29.7	8.0	8.0	14.3	14.3	106.0	106.0	7.4	7.4	3.3	2				
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.7				
Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-									
	4.2	-	-	29.1	29.1	8.0	8.0	17.7	17.7	101.9	102.0	7.1	7.1	4.0	3									
	4.2	-	-	29.1	29.1	8.0	8.0	17.7	17.7	102.1	102.1	7.1	7.1	4.0	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 **03 July 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	Moderate	13:41	8.7	Surface	1.0	0.4	101	29.8	29.8	8.0	8.0	13.3	13.3	138.6	138.5	9.8	9.6	3.2	5	5	815624	804225	
						1.0	0.5	101	29.8	8.0	8.0	13.3	13.3	138.4	138.5	9.8	9.6	3.2	4					
						4.4	0.3	133	29.5	29.5	8.0	8.0	14.3	14.2	134.3	134.1	9.5	9.4	3.2	5				
						4.4	0.3	134	29.5	29.5	8.0	8.0	14.2	14.2	133.9	133.9	9.4	9.4	3.2	5				
						7.7	0.3	97	27.3	27.3	8.0	8.0	25.2	24.1	66.0	65.9	4.6	4.6	8.6	6				
						7.7	0.3	102	27.2	27.2	8.0	8.0	24.1	24.1	65.8	65.9	4.6	4.6	8.6	5				
					Middle	1.0	0.6	169	29.4	29.4	8.2	8.2	11.8	11.8	97.4	97.4	7.0	7.0	4.0	3				
						1.0	0.7	176	29.4	29.4	8.2	8.2	11.8	11.8	97.4	97.4	7.0	7.0	4.0	4				
						4.6	0.4	175	27.7	27.7	8.0	8.0	22.2	22.2	68.8	68.8	4.8	4.8	3.5	4				
						4.6	0.4	176	27.7	27.7	8.0	8.0	22.2	22.2	68.8	68.8	4.8	4.8	3.5	3				
						8.2	0.1	168	26.7	26.7	8.0	8.0	26.4	26.4	61.8	62.0	4.3	4.3	3.0	4				
						8.2	0.1	173	26.7	26.7	8.0	8.0	26.4	26.4	62.2	62.2	4.3	4.3	3.1	3				
Bottom	1.0	0.1	236	29.5	29.5	8.2	8.2	16.3	16.3	136.9	136.0	9.5	9.5	2.8	4									
	1.0	0.1	254	29.5	29.5	8.2	8.2	16.3	16.3	136.1	136.0	9.5	9.5	2.8	4									
	5.7	0.2	278	27.9	27.9	8.0	8.0	22.3	22.3	90.7	90.7	6.3	6.3	2.2	3									
	5.7	0.2	281	27.9	27.9	8.0	8.0	22.3	22.3	90.7	90.7	6.3	6.3	2.2	4									
	10.4	0.1	276	27.1	27.1	7.9	7.9	25.2	25.2	76.6	77.0	5.3	5.3	2.3	4									
	10.4	0.2	301	27.1	27.1	7.9	7.9	25.1	25.1	77.3	77.3	5.3	5.3	2.4	3									
IM1	Sunny	Moderate	13:19	5.3	Surface	1.0	0.2	56	29.9	29.9	8.0	8.0	13.5	13.5	137.9	138.0	9.7	9.7	3.4	4	5	817949	807145	
						1.0	0.2	56	29.9	29.9	8.0	8.0	13.5	13.5	138.0	138.0	9.7	9.7	3.5	5				
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-
						4.3	0.1	68	29.6	29.6	8.0	8.0	15.6	15.6	130.5	131.1	9.1	9.2	4.7	5				
						4.3	0.1	69	29.6	29.6	8.0	8.0	15.5	15.5	131.7	131.7	9.2	9.2	4.5	4				
					Middle	1.0	0.2	92	29.8	29.8	8.0	8.0	15.1	15.1	130.6	130.7	9.1	9.1	3.4	4				
						1.0	0.2	95	29.7	29.7	8.0	8.0	15.2	15.2	130.7	130.7	9.1	9.1	3.5	3				
						3.7	0.2	107	29.2	29.2	8.3	8.3	16.5	16.5	112.3	112.1	7.9	7.9	4.9	4				
						3.7	0.2	114	29.2	29.2	8.3	8.3	16.5	16.5	111.8	111.8	7.8	7.8	4.9	3				
						6.3	0.1	53	26.3	26.3	8.0	8.0	28.9	28.9	57.5	57.5	3.9	3.9	9.7	5				
						6.3	0.1	56	26.3	26.3	8.0	8.0	28.9	28.9	57.6	57.6	4.0	4.0	9.7	4				
IM2	Sunny	Moderate	13:10	7.3	Surface	1.0	0.2	92	29.8	29.8	8.0	8.0	15.1	15.1	130.6	130.7	9.1	9.1	3.4	4	4	818139	806182	
						1.0	0.2	95	29.7	29.7	8.0	8.0	15.2	15.2	130.7	130.7	9.1	9.1	3.5	3				
						3.7	0.2	107	29.2	29.2	8.3	8.3	16.5	16.5	112.3	112.1	7.9	7.9	4.9	4				
						3.7	0.2	114	29.2	29.2	8.3	8.3	16.5	16.5	111.8	111.8	7.8	7.8	4.9	3				
						6.3	0.1	53	26.3	26.3	8.0	8.0	28.9	28.9	57.5	57.5	3.9	3.9	9.7	5				
						6.3	0.1	56	26.3	26.3	8.0	8.0	28.9	28.9	57.6	57.6	4.0	4.0	9.7	4				
					Middle	1.0	0.4	107	28.3	28.3	8.2	8.1	20.8	20.9	90.6	90.6	6.3	6.3	6.2	3				
						1.0	0.4	112	28.3	28.3	8.1	8.1	21.0	21.0	90.6	90.6	6.3	6.3	6.3	4				
						3.8	0.2	112	27.6	27.6	8.1	8.1	24.1	24.0	74.2	74.2	5.1	5.1	5.0	3				
						3.8	0.2	120	27.6	27.6	8.1	8.1	24.0	24.0	74.1	74.1	5.1	5.1	5.0	4				
						6.5	0.1	116	25.8	25.8	8.0	8.0	30.3	30.3	50.3	50.3	3.5	3.5	7.6	5				
						6.5	0.1	125	25.8	25.8	8.0	8.0	30.3	30.3	50.3	50.3	3.5	3.5	7.3	6				
IM3	Sunny	Moderate	13:02	7.5	Surface	1.0	0.4	107	28.3	28.3	8.2	8.1	20.8	20.9	90.6	90.6	6.3	6.3	6.2	3	4	818791	805589	
						1.0	0.4	112	28.3	28.3	8.1	8.1	21.0	21.0	90.6	90.6	6.3	6.3	6.3	4				
						3.8	0.2	112	27.6	27.6	8.1	8.1	24.1	24.0	74.2	74.2	5.1	5.1	5.0	3				
						3.8	0.2	120	27.6	27.6	8.1	8.1	24.0	24.0	74.1	74.1	5.1	5.1	5.0	4				
						6.5	0.1	116	25.8	25.8	8.0	8.0	30.3	30.3	50.3	50.3	3.5	3.5	7.6	5				
						6.5	0.1	125	25.8	25.8	8.0	8.0	30.3	30.3	50.3	50.3	3.5	3.5	7.3	6				
					Middle	1.0	0.4	103	30.0	30.0	8.1	8.1	14.5	14.5	146.9	146.7	10.3	10.3	2.9	2				
						1.0	0.4	106	30.0	30.0	8.1	8.1	14.5	14.5	146.5	146.5	10.2	10.2	2.8	3				
						4.2	0.2	92	29.2	29.2	8.3	8.3	17.3	17.4	119.8	119.8	8.3	8.3	3.4	3				
						4.2	0.2	94	29.2	29.2	8.3	8.3	17.4	17.4	119.7	119.7	8.3	8.3	3.3	2				
						7.4	0.2	79	26.1	26.1	8.0	8.0	29.4	29.3	55.8	56.0	3.8	3.9	7.7	3				
						7.4	0.2	80	26.1	26.1	8.0	8.0	29.3	29.3	56.2	56.2	3.9	3.9	7.5	2				
Bottom	1.0	0.3	92	30.1	30.1	8.1	8.1	13.1	13.1	130.4	130.0	9.2	9.2	2.7	4									
	1.0	0.3	92	30.1	30.1	8.1	8.1	13.1	13.1	129.6	129.6	9.1	9.1	2.7	3									
	3.8	0.2	68	28.9	28.9	8.1	8.1	17.2	17.2	87.9	87.8	6.2	6.2	2.8	4									
	3.8	0.2	68	28.9	28.9	8.1	8.1	17.2	17.2	87.6	87.6	6.1	6.1	2.8	3									
	6.5	0.2	82	26.3	26.3	7.9	7.9	29.0	29.0	52.3	52.5	3.6	3.6	5.7	3									
	6.5	0.2	83	26.3	26.3	7.9	7.9	29.0	29.0	52.7	52.7	3.6	3.6	5.6	4									
IM4	Sunny	Moderate	12:49	8.4	Surface	1.0	0.4	81	29.8	29.8	8.1	8.1	13.4	13.4	103.6	103.7	7.3	7.2	3.1	3	3	819724	804626	
						1.0	0.4	87	29.8	29.8	8.1	8.1	13.4	13.4	103.7	103.7	7.3	7.3	3.0	4				
						3.9	0.1	53	29.2	29.3	8.1	8.1	15.9	15.9	99.7	99.7	7.0	7.0	2.6	4				
						3.9	0.1	55	29.3	29.3	8.1	8.1	15.9	15.9	99.7	99.7	7.0	7.0	2.7	4				
						6.8	0.2	62	27.7	27.7	7.9	7.9	23.3	23.3	70.6	70.8	4.9	4.9	5.0	4				
						6.8	0.2	66	27.7	27.7	7.9	7.9	23.3	23.3	70.9	70.9	4.9	4.9	4.9	5				
					Middle	1.0	0.4	68	29.2	29.2	8.1	8.1	13.7	13.8	93.9	93.6	6.7	6.7	3.0	6				
						1.0	0.5	74	29.2	29.2	8.1	8.1	13.8	13.8	93.3	93.6	6.6	6.6	3.0	5				
						4.5	0.2	50	28.8	28.9	7.9	7.9	20.5	20.4	81.9	83.1	5.7	5.7	3.1	4				
						4.5	0.2	54	28.9	28.9	7.9	7.9	20.3	20.4	84.2	83.1	5.8	5.8	3.0	4				
						8.0	0.1	66	27.2	27.2	7.8	7.8	24.9	24.9	64.2	64.4	4.4	4.4	7.8	4				
						8.0	0.1	72	27.2	27.2	7.8	7.8	24.9	24.9	64.5	64.4	4.5	4.5	7.6	3				
Bottom	1.0	0.3	231	29.7	29.7	8.2	8.2	12.0	12.0	104.9	104.9	7.5	7.5	3.6	3									
	1.0	0.3	252	29.7	29.7	8.2	8.2	12.0	12.0	104.9	104.9	7.5	7.2	3.6	3									
	4.0	0.2	257	29.1	29.1	8.1	8.1	14.9	14.9	96.4	96.4	6.8	6.8	4.0	3									
	4.0	0.3	268	29.0	29.0	8.1	8.1	14.9	14.9	96.4	96.4	6.8	6.8	3.9	4									
	6.9	0.1	279	28.2	28.2	8.1	8.																	

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

Water Quality Monitoring

Water Quality Monitoring Results on **06 July 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	11:23	8.0	Surface	1.0	0.7	188	29.5	29.5	8.2	8.2	13.2	13.2	144.0	143.9	10.2	2.4	6	6	815618	804254		
						1.0	0.7	199	29.4	8.2	8.2	13.2	13.2	143.7	143.9	10.2	2.4	7						
						4.0	0.6	195	29.1	8.1	8.1	15.2	15.2	115.7	115.5	8.2	2.6	5						
					4.0	0.6	210	29.1	8.1	8.1	15.2	15.2	115.2	115.5	8.1	2.7	6							
					7.0	0.6	213	27.0	8.0	8.0	25.3	25.3	63.6	63.6	4.4	3.7	5							
					7.0	0.6	231	27.0	8.0	8.0	25.3	25.3	63.6	63.6	4.4	3.7	5							
C2	Fine	Rough	12:38	7.8	Surface	1.0	1.0	164	29.2	29.2	8.3	8.3	13.9	13.9	107.0	106.8	7.6	5.0	6	6	825687	806963		
						1.0	1.0	176	29.2	8.3	8.3	13.9	13.9	106.5	106.8	7.6	5.0	6						
						3.9	0.3	147	28.9	8.3	8.3	14.3	14.4	99.2	98.6	7.1	4.7	6						
					3.9	0.3	148	28.8	8.3	8.3	14.5	14.5	98.0	98.6	7.0	4.7	6							
					6.8	0.1	194	27.8	8.1	8.1	21.7	21.7	70.9	71.1	4.9	5.4	7							
					6.8	0.1	212	27.8	8.1	8.1	21.7	21.7	71.2	71.1	5.0	5.4	7							
C3	Sunny	Rough	10:07	12.8	Surface	1.0	0.2	292	28.6	28.7	8.3	8.3	20.5	20.4	139.1	138.9	9.6	3.4	5	5	822093	817812		
						1.0	0.2	305	28.7	8.3	8.3	20.4	20.4	138.6	138.9	9.6	3.4	5						
						6.4	0.1	74	27.9	8.1	8.1	23.1	23.1	111.9	112.0	7.7	2.9	5						
					6.4	0.1	75	27.9	8.1	8.1	23.1	23.1	112.1	112.0	7.7	2.9	6							
					11.8	0.4	105	26.9	8.3	8.3	26.8	26.9	89.5	89.5	6.2	3.7	6							
					11.8	0.4	112	26.9	8.3	8.3	26.9	26.9	89.4	89.5	6.1	3.7	5							
IM1	Fine	Calm	11:45	4.2	Surface	1.0	0.0	116	29.3	29.3	8.2	8.2	17.7	17.6	124.6	125.2	8.7	2.1	7	6	817962	807120		
						1.0	0.0	117	29.3	8.2	8.2	17.6	17.6	125.7	125.2	8.7	2.0	6						
						-	-	-	-	-	-	-	-	-	-	-	-	-	-					
					3.2	0.0	137	28.1	7.9	7.9	22.6	22.5	74.9	75.4	5.2	5.6	6							
					3.2	0.0	150	28.2	7.9	7.9	22.5	22.5	75.8	75.4	5.2	5.5	6							
					-	-	-	-	-	-	-	-	-	-	-	-	-	-						
IM2	Fine	Calm	11:53	6.2	Surface	1.0	0.2	300	28.7	28.7	7.9	7.9	18.2	18.1	92.3	92.5	6.5	1.5	7	7	818174	806173		
						1.0	0.2	326	28.7	7.9	7.9	18.1	18.1	92.6	92.5	6.5	1.7	8						
						3.1	0.1	322	26.8	7.9	7.9	25.2	25.3	66.1	65.9	4.6	7.2	7						
					3.1	0.1	335	26.8	7.9	7.9	25.3	25.3	65.6	65.9	4.6	7.2	7							
					5.2	0.1	345	26.6	7.9	7.9	27.2	27.1	59.0	59.3	4.1	8.8	6							
					5.2	0.1	317	26.7	7.9	7.9	27.1	27.1	59.6	59.3	4.1	8.8	5							
IM3	Fine	Calm	11:59	6.4	Surface	1.0	0.1	282	28.8	28.8	7.9	7.9	18.7	18.6	98.4	99.0	6.9	4.4	7	7	818786	805603		
						1.0	0.1	291	28.8	7.9	7.9	18.6	18.6	99.6	99.0	6.9	4.4	8						
						3.2	0.2	275	27.3	7.8	7.8	24.3	24.3	66.3	66.2	4.6	5.2	7						
					3.2	0.2	300	27.2	7.8	7.8	24.3	24.3	66.0	66.2	4.6	5.4	8							
					5.4	0.0	298	26.4	7.8	7.8	28.0	28.0	53.9	53.9	3.7	6.9	6							
					5.4	0.0	323	26.4	7.8	7.8	28.0	28.0	53.8	53.9	3.7	7.0	7							
IM4	Fine	Calm	12:09	8.0	Surface	1.0	0.9	191	29.8	29.8	8.2	8.2	11.6	11.6	139.6	139.4	9.9	3.4	7	7	819725	804588		
						1.0	1.0	195	29.8	8.2	8.2	11.6	11.6	139.1	139.4	9.9	3.4	8						
						4.0	0.7	185	28.1	7.9	7.9	20.9	19.8	85.5	85.8	6.0	5.4	7						
					4.0	0.7	193	28.1	7.9	7.9	18.8	19.8	86.0	85.8	6.1	5.5	7							
					7.0	0.3	181	27.8	7.9	7.9	22.0	22.1	68.8	68.7	4.8	6.1	7							
					7.0	0.3	194	27.8	7.9	7.9	22.1	22.1	68.5	68.7	4.8	6.2	7							
IM5	Fine	Calm	12:20	7.0	Surface	1.0	0.8	228	29.9	29.9	8.3	8.3	11.8	11.8	149.1	148.1	10.6	2.9	7	6	820716	804883		
						1.0	0.8	245	29.9	8.3	8.3	11.8	11.8	147.1	148.1	10.4	2.9	6						
						3.5	0.7	227	29.8	8.2	8.2	13.2	13.4	119.4	111.9	8.4	4.8	7						
					3.5	0.7	238	29.6	8.2	8.2	13.5	13.4	104.4	111.9	7.4	4.7	6							
					6.0	0.6	200	28.2	7.9	7.9	20.5	20.5	71.7	71.9	5.0	5.4	6							
					6.0	0.6	204	28.2	7.9	7.9	20.5	20.5	72.1	71.9	5.0	5.4	6							
IM6	Fine	Calm	12:32	6.8	Surface	1.0	0.7	255	30.5	30.5	8.3	8.3	9.7	9.8	133.5	130.4	9.5	2.0	7	6	821043	805850		
						1.0	0.7	258	30.5	8.3	8.3	9.8	9.8	127.3	130.4	9.0	2.0	6						
						3.4	0.6	251	28.5	7.9	7.9	18.9	19.0	85.7	85.7	6.0	3.8	7						
					3.4	0.6	254	28.4	7.9	7.9	19.0	19.0	85.6	85.7	6.0	3.8	6							
					5.8	0.5	221	27.5	7.8	7.8	24.5	24.5	57.7	58.2	4.0	4.5	6							
					5.8	0.5	233	27.5	7.8	7.8	24.5	24.5	58.7	58.2	4.0	4.5	6							
IM7	Fine	Calm	12:41	7.8	Surface	1.0	0.6	248	30.2	30.2	8.3	8.3	10.4	10.4	128.2	125.4	9.1	2.2	6	6	821351	806827		
						1.0	0.6	249	30.2	8.3	8.3	10.4	10.4	122.6	125.4	8.7	2.2	6						
						3.9	0.5	260	27.3	7.8	7.8	23.1	23.1	58.5	58.3	4.1	5.4	6						
					3.9	0.6	267	27.2	7.8	7.8	23.2	23.1	58.1	58.3	4.1	5.9	6							
					6.8	0.3	201	27.1	7.9	7.9	26.0	26.0	48.1	48.7	3.3	6.9	7							
					6.8	0.3	201	27.2	7.9	7.9	26.0	26.0	49.3	48.7	3.4	6.5	7							
IM8	Fine	Rough	12:00	7.3	Surface	1.0	0.3	181	29.8	29.8	8.1	8.1	11.3	11.3	146.7	146.6	10.5	4.1	7	7	821850	808161		
						1.0	0.3	184	29.8	8.1	8.1	11.3	11.3	146.5	146.6	10.4	4.1	8						
						3.7	0.3	257	29.6	8.2	8.2	12.2	12.2	135.4	135.0	9.6	3.9	6						
					3.7	0.3	259	29.6	8.2	8.2	12.2	12.2	134.6	135.0	9.6	3.9	6							
					6.3	0.2	205	27.6	8.1	8.1	22.6	22.6	67.9	68.0	4.7	7.0	6							
					6.3	0.2	221	27.6	8.1	8.1	22.6	22.6	68.0	68.0	4.7	7.0	6							

DA: Depth-Averaged

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

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

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

Water Quality Monitoring Results on 06 July 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	DA	Value	DA	Value	DA	Value	DA		
IM9	Fine	Rough	11:54	6.6	Surface	1.0	0.3	147	30.1	30.1	8.2	8.2	10.8	10.7	146.7	146.7	10.4	10.0	4.2	6	6	822096	808788	
						1.0	0.3	150	30.1	8.2	10.7	146.6	10.4	4.2	6									
						3.3	0.1	99	29.5	8.2	12.5	134.6	9.6	4.0	6									
					Middle	3.3	0.1	102	29.5	8.2	8.2	12.5	134.4	134.5	9.6	4.0	6							
						5.6	0.1	192	27.5	8.1	8.1	23.2	66.3	66.5	4.6	6.5	7							
						5.6	0.1	198	27.5	8.1	23.2	66.7	66.5	4.6	6.5	6								
					Bottom	1.0	0.6	101	29.9	29.9	8.2	8.2	10.9	10.9	145.9	145.8	10.4	8.9	4.0	5				
						1.0	0.6	102	29.9	29.9	8.2	11.0	10.9	145.6	10.4	4.0	6							
						3.5	0.5	93	28.8	28.8	8.3	8.3	15.6	103.7	103.3	7.3	3.6	5						
Middle	3.5	0.5	93	28.8	28.8	8.3	8.3	15.6	102.9	7.3	3.6	5												
	5.9	0.4	113	27.4	27.4	8.0	8.0	23.7	66.4	66.6	4.6	6.3	4											
	5.9	0.5	118	27.4	27.4	8.0	23.7	66.8	4.6	6.3	4													
IM10	Fine	Rough	11:45	6.9	Surface	1.0	0.7	111	29.7	29.7	8.1	8.1	12.3	12.4	129.8	129.5	9.2	7.7	4.2	6	5	822403	809799	
						1.0	0.7	114	29.7	29.7	8.1	12.4	129.1	9.2	4.2	6								
						4.3	0.7	105	28.3	28.3	8.2	8.2	19.1	86.7	86.8	6.1	3.9	6						
					Middle	4.3	0.7	106	28.3	28.3	8.2	19.2	86.9	6.1	3.9	6								
						7.5	0.3	96	27.3	27.3	8.1	8.1	24.1	63.8	63.9	4.4	9.0	6						
						7.5	0.3	104	27.3	27.3	8.1	24.1	63.9	4.4	9.0	7								
					Bottom	1.0	0.5	83	29.9	29.9	8.7	8.7	12.3	12.3	164.0	163.9	11.6	9.6	3.9	6				
						1.0	0.5	86	29.9	29.9	8.7	12.3	12.3	163.7	11.6	3.9	5							
						4.7	0.7	92	28.9	28.9	8.2	8.2	15.6	106.8	106.7	7.6	3.6	6						
Middle	4.7	0.7	97	28.9	28.9	8.2	15.6	106.6	7.5	3.6	6													
	8.3	0.2	96	27.8	27.8	8.3	8.3	21.8	71.2	71.2	5.0	4.8	6											
	8.3	0.2	97	27.7	27.7	8.3	21.9	71.2	5.0	4.9	6													
SR1A	Fine	Rough	10:49	4.8	Surface	1.0	-	-	29.5	29.6	8.1	8.1	16.9	16.9	164.3	164.2	11.4	11.4	3.9	6	6	819975	812662	
						1.0	-	-	29.6	29.6	8.1	16.9	16.9	164.1	11.4	3.8	6							
						2.4	-	-	-	-	-	-	-	-	-	-	11.4	-	5.1					
					Middle	2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	6				
						3.8	-	-	28.3	28.3	8.3	8.2	17.2	124.1	118.2	8.8	6.3	6						
						3.8	-	-	28.2	28.3	8.2	19.1	112.3	7.8	6.3	7								
					Bottom	1.0	0.2	61	29.3	29.3	8.3	8.3	15.3	15.3	141.5	141.1	10.0	10.0	3.6	6				
						1.0	0.2	62	29.3	29.3	8.3	15.3	15.3	140.6	9.9	3.6	6							
						-	-	-	-	-	-	-	-	-	-	-	10.0	-	4.7					
Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6									
	4.2	0.2	87	28.0	28.0	7.9	7.9	21.4	82.8	82.9	5.8	5.9	6											
	4.2	0.2	91	28.0	28.0	7.9	21.4	83.0	5.8	5.6	5													
SR2	Sunny	Rough	10:34	5.2	Surface	1.0	0.3	204	29.7	29.7	8.1	8.1	12.1	12.0	138.9	139.1	9.9	8.9	4.1	7	6	822143	807585	
						1.0	0.3	209	29.7	29.7	8.1	11.8	139.2	9.9	4.1	7								
						4.3	0.3	267	29.0	29.0	8.3	8.3	15.0	109.9	109.8	7.8	3.7	6						
					Middle	4.3	0.3	275	29.0	29.0	8.3	15.1	109.7	7.8	3.7	6								
						7.5	0.3	193	27.3	27.3	8.0	8.0	24.3	62.5	62.7	4.3	4.9	5						
						7.5	0.3	200	27.3	27.3	8.0	24.3	62.8	4.3	4.9	6								
					Bottom	1.0	0.2	267	29.3	29.3	8.2	8.2	14.8	14.8	119.5	117.1	8.4	6.3	4.1	7				
						1.0	0.2	274	29.3	29.3	8.2	14.9	114.7	8.1	4.4	8								
						4.5	0.0	200	27.2	27.2	8.0	8.0	24.7	62.6	62.5	4.3	7.3	8						
Middle	4.5	0.0	209	27.2	27.2	8.0	24.6	62.4	4.3	7.2	7													
	8.0	0.0	46	26.9	26.9	8.1	8.1	26.5	63.8	63.9	4.4	9.2	7											
	8.0	0.0	46	26.9	26.9	8.1	26.4	64.0	4.4	9.2	7													
SR4A	Fine	Calm	11:01	9.0	Surface	1.0	0.0	255	29.6	29.6	8.2	8.2	15.4	15.4	131.4	131.2	9.2	9.2	5.1	8	7	817168	807797	
						1.0	0.0	261	29.5	29.6	8.2	15.4	131.0	9.2	5.4	9								
						-	-	-	-	-	-	-	-	-	-	-	6.6	-						
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	9					
						2.4	0.1	59	29.2	29.2	8.1	8.1	19.1	92.1	92.8	6.4	7.9	9						
						2.4	0.1	64	29.2	29.2	8.1	18.9	93.5	6.5	8.0	8								
					Bottom	1.0	0.2	13	29.9	29.9	8.2	8.2	17.5	17.5	114.8	114.5	7.9	7.9	6.0	9				
						1.0	0.2	13	29.9	29.9	8.2	17.5	114.1	7.9	6.3	10								
						-	-	-	-	-	-	-	-	-	-	-	6.9	-						
Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	10										
	3.2	0.1	346	28.0	28.0	7.9	7.9	22.4	69.9	69.9	4.8	7.5	10											
	3.2	0.1	355	28.0	28.0	7.9	22.5	69.9	4.8	7.6	9													
SR6A	Fine	Calm	10:16	4.2	Surface	1.0	0.4	91	28.7	28.7	8.3	8.3	20.4	20.4	148.6	148.6	10.3	10.1	2.5	7	6	823621	823755	
						1.0	0.5	99	28.7	28.7	8.3	20.5	148.6	10.3	2.5	6								
						7.4	0.1	277	28.5	28.5	8.2	8.2	21.1	143.2	143.1	9.9	2.7	5						
					Middle	7.4	0.1	302	28.4	28.4	8.2	21.1	142.9	9.9	2.7	6								
						13.7	0.2	108	28.4	28.4	8.2	8.2	21.3	140.7	140.7	9.7	2.7	5						
						13.7	0.2	117	28.4	28.4	8.2	21.3	140.6	9.7	2.7	6								
					Bottom	1.0	-	-	30.2	30.2	8.3	8.3	13.8	13.8	197.0	196.9	13.8	13.8	4.1	6				
						1.0	-	-	30.2	30.2	8.3	13.8	196.8	13.8	4.2	5								
						-	-	-	-	-	-	-	-	-	-	-	5.9	-						
Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	6										
	3.9	-	-	29.9	29.9	8.1	8.1	14.2	164.5	162.2	12.9	7.5	6											
	3.9	-	-	29.8	29.9	8.1	14.2	162.2	12.8	7.7	6													
Bottom	1.0	-	-	30.2	30.2	8.3	8.3	13.8	13.8	197.0	196.9	13.8	13.8	4.1	6									
	1.0	-	-	30.2	30.2	8.3	13.8	196.8	13.8	4.2	5													
	-	-	-	-	-	-	-	-	-	-	-	5.9	-											
Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	6										
	3.9	-	-	29.9	29.9	8.1	8.1	14.2	164.5	162.2	12.9	7.5	6											
	3.9	-	-	29.8	29.9	8.1	14.2	162.2	12.8	7.7	6													
Bottom	1.0	0.4	91	28.7	28.7	8.3	8.3	20.4	20.4	148.6	148.6	10.3	10.1	2.5	7									
	1.0	0.5	99	28.7	28.7	8.3	20.5	148.6	10.3	2.5	6													
	7.4	0.1	277	28.5	28.5	8.2	8.2	21.1	143.2	143.1	9.9	2.7	5											
Middle	7.4	0.1	302	28.4	28.4	8.2	21.1	142.9	9.9	2.7	6													
	13.7	0.2	108	28.4	28.4	8.2	8.2	21.3	140.7	140.7	9.7	2.7	5											
	13.7	0.2	117	28.4	28.4	8.2	21.3	140.6	9.7	2.7	6													
Bottom	1.0	-	-	30.2	30.2	8.3	8.3	13.8	13.8	197.0	196.9	13.8	13.8	4.1	6									
	1.0	-	-	30.2	30.2	8.3	13.8	196.8	13.8	4.2	5													
	-	-	-	-	-	-	-	-	-	-	-	5.9	-											
Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	6										
	3.9	-	-	29.9	29.9	8.1	8.1	14.2	164.5	162.2	12.9	7.5	6											
	3.9	-	-	29.8	29.9	8.1	14.2	162.2	12.8	7.7	6													
Bottom	1.0	0.4	91	28.7	28.7	8.3	8.3	20.4	20.4	148.6	148.6	10.3	10.1	2.5	7									
	1.0	0.5	99	28.7	28.7	8.3	20.5	148.6	10.3	2.5	6													
	7.4	0.1	277	28.5	28.5	8.2	8.2	21.1	143.2	143.1	9.9	2.7	5											

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

Water Quality Monitoring

Water Quality Monitoring Results on 06 July 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	17:17	7.2	Surface	1.0	0.3	45	28.2	28.2	8.2	8.2	19.4	19.4	88.8	88.5	6.2	5.7	8	8	815622	804257		
						1.0	0.3	48	28.1	8.2	8.2	19.4	19.4	88.2	88.5	6.2	5.7	8						
						3.6	0.2	39	27.9	27.9	8.2	8.2	21.7	21.7	76.0	76.1	5.3	6.9	8					
					3.6	0.2	41	27.8	27.8	8.2	8.2	21.7	21.7	76.1	76.1	5.3	7.0	9						
					6.2	0.2	104	27.4	27.4	8.2	8.2	23.3	23.3	73.5	73.8	5.1	7.6	9						
					6.2	0.3	109	27.4	27.4	8.2	8.2	23.6	23.6	74.0	74.0	5.1	7.6	8						
C2	Fine	Rough	16:13	8.1	Surface	1.0	1.0	68	29.1	29.1	8.2	8.2	12.3	12.3	88.9	88.9	6.4	4.4	6	6	825674	806925		
						1.0	1.0	69	29.1	29.1	8.2	8.2	12.3	12.3	88.8	88.9	6.4	4.3	7					
						4.1	0.4	58	27.7	27.8	8.1	8.1	21.0	20.9	69.5	69.6	4.9	4.8	6					
					4.1	0.4	70	27.8	27.8	8.1	8.1	20.9	20.9	69.6	69.6	4.9	4.8	6						
					7.1	0.2	49	27.6	27.6	8.1	8.1	22.1	22.1	69.1	69.2	4.8	4.9	5						
					7.1	0.2	48	27.6	27.6	8.1	8.1	22.1	22.1	69.2	69.2	4.8	4.9	4						
C3	Cloudy	Rough	18:24	10.7	Surface	1.0	0.3	226	29.0	29.1	8.1	8.1	18.6	18.6	131.7	132.9	9.1	3.5	5	6	822112	817810		
						1.0	0.3	240	29.1	29.1	8.1	8.1	18.6	18.6	134.1	134.1	9.3	3.6	6					
						5.4	0.3	225	27.4	27.4	8.2	8.2	24.1	24.1	89.6	89.4	6.2	2.1	6					
					5.4	0.4	245	27.4	27.4	8.2	8.2	24.2	24.2	89.1	89.1	6.2	2.1	6						
					9.7	0.3	243	26.6	26.6	8.2	8.2	27.3	27.3	75.3	75.4	5.2	3.3	6						
					9.7	0.4	255	26.6	26.6	8.2	8.2	27.3	27.3	75.4	75.4	5.2	3.3	7						
IM1	Fine	Calm	16:55	3.8	Surface	1.0	0.1	112	29.8	29.8	8.2	8.2	16.9	16.8	167.2	167.3	11.6	3.2	8	9	817929	807118		
						1.0	0.2	102	29.8	29.8	8.2	8.2	16.8	16.8	167.3	167.3	11.6	3.4	8					
						-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	
					2.8	0.1	138	28.1	28.1	7.9	7.9	22.1	22.1	99.0	99.4	6.8	4.7	10						
					2.8	0.1	126	28.1	28.1	7.9	7.9	22.1	22.1	99.8	99.8	6.9	4.7	11						
					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
IM2	Fine	Calm	16:45	6.0	Surface	1.0	0.3	68	29.5	29.5	8.2	8.2	16.3	16.4	152.4	152.5	10.6	2.1	9	9	818179	806153		
						1.0	0.3	68	29.5	29.5	8.2	8.2	16.4	16.4	152.5	152.5	10.6	2.0	9					
						3.0	0.2	64	28.1	28.0	7.8	7.8	20.6	20.6	82.8	82.6	5.8	2.7	9					
					3.0	0.2	69	27.9	27.9	7.8	7.8	20.6	20.6	82.3	82.6	5.8	2.9	8						
					5.0	0.1	81	27.0	27.0	7.8	7.8	25.9	25.9	63.6	63.8	4.4	5.7	9						
					5.0	0.1	90	27.1	27.1	7.8	7.8	25.9	25.9	63.9	63.8	4.4	5.5	8						
IM3	Fine	Calm	16:38	6.0	Surface	1.0	0.3	58	29.3	29.2	8.3	8.3	16.0	16.0	161.6	161.0	11.3	2.3	8	8	818778	805586		
						1.0	0.3	61	29.1	29.1	8.3	8.3	16.0	16.0	160.3	160.3	11.3	2.5	7					
						3.0	0.3	59	28.6	28.6	7.9	7.9	19.0	19.0	97.0	97.3	6.8	4.0	8					
					3.0	0.3	56	28.6	28.6	7.9	7.9	18.9	18.9	97.6	97.3	6.8	4.2	7						
					5.0	0.2	72	26.8	26.8	7.8	7.8	26.5	26.5	69.1	69.4	4.8	5.1	7						
					5.0	0.2	82	26.8	26.8	7.8	7.8	26.5	26.5	69.7	69.4	4.8	4.9	11						
IM4	Fine	Calm	16:28	7.6	Surface	1.0	1.0	43	30.5	30.5	8.1	8.1	9.3	9.3	124.5	124.2	8.9	5.9	8	7	819704	804594		
						1.0	1.0	47	30.5	30.5	8.1	8.1	9.3	9.3	123.9	123.9	8.8	5.8	8					
						3.8	0.5	57	27.7	27.7	7.8	7.8	22.2	22.2	73.7	74.3	5.1	6.9	7					
					3.8	0.5	60	27.7	27.7	7.8	7.8	22.2	22.2	74.9	74.3	5.2	6.9	6						
					6.6	0.2	40	27.3	27.3	7.8	7.8	23.1	23.1	67.3	67.4	4.7	7.8	6						
					6.6	0.2	42	27.3	27.3	7.8	7.8	23.0	23.1	67.4	67.4	4.7	7.8	7						
IM5	Fine	Calm	16:21	6.8	Surface	1.0	0.7	30	30.4	30.4	8.2	8.2	7.7	7.7	118.8	118.8	8.6	3.4	4	5	820716	804879		
						1.0	0.8	34	30.4	30.4	8.2	8.2	7.6	7.7	118.8	118.8	8.6	3.3	5					
						3.4	0.7	35	30.1	30.1	8.2	8.2	10.3	10.3	122.5	122.0	8.7	7.3	4					
					3.4	0.7	41	30.1	30.1	8.2	8.2	10.3	10.3	121.5	121.5	8.7	7.4	4						
					5.8	0.4	34	28.1	28.1	7.9	7.9	21.0	21.0	76.5	76.6	5.3	8.4	5						
					5.8	0.4	37	28.1	28.1	7.9	7.9	21.0	21.0	76.7	76.6	5.3	8.7	6						
IM6	Fine	Calm	16:15	6.4	Surface	1.0	0.6	25	30.2	30.2	8.2	8.2	10.2	10.2	138.0	137.9	9.8	2.1	6	5	821073	805817		
						1.0	0.7	22	30.2	30.2	8.2	8.2	10.2	10.2	137.7	137.7	9.8	2.1	5					
						3.2	0.7	25	30.0	30.0	8.2	8.2	10.8	10.8	131.9	131.8	9.4	2.3	6					
					3.2	0.7	26	29.9	29.9	8.2	8.2	10.8	10.8	131.6	131.6	9.4	2.3	5						
					5.4	0.6	25	29.2	29.2	8.1	8.1	11.7	11.4	109.9	107.4	7.9	3.6	4						
					5.4	0.7	27	29.1	29.1	8.1	8.1	11.2	11.4	104.8	107.4	7.3	3.6	5						
IM7	Fine	Calm	16:09	7.2	Surface	1.0	0.7	24	30.0	30.0	8.0	8.0	10.4	10.3	127.5	126.8	9.1	2.4	8	7	821358	806843		
						1.0	0.7	25	30.0	30.0	8.0	8.0	10.2	10.3	126.1	126.1	9.0	2.4	9					
						3.6	0.7	26	29.6	29.6	8.0	8.0	11.4	11.4	128.8	126.2	9.2	2.6	7					
					3.6	0.8	26	29.6	29.6	8.0	8.0	11.5	11.4	123.6	126.2	8.8	2.6	8						
					6.2	0.4	27	27.2	27.2	8.1	8.1	25.1	25.1	56.8	57.0	3.9	4.8	5						
					6.2	0.4	28	27.2	27.2	8.1	8.1	25.1	25.1	57.2	57.0	4.0	4.8	5						
IM8	Fine	Rough	16:36	6.2	Surface	1.0	0.4	286	29.9	30.0	8.2	8.3	10.6	10.5	150.8	150.8	10.8	4.2	6	6	821828	808151		
						1.0	0.5	283	30.0	30.0	8.3	8.3	10.5	10.5	150.7	150.8	10.8	4.3	6					
						3.1	0.3	275	29.5	29.5	8.0	8.0	12.3	12.3	121.2	121.2	8.6	4.0	6					
					3.1	0.3	282	29.5	29.5	8.0	8.0	12.3	12.3	121.2	121.2	8.6	4.1	7						
					5.2	0.3	282	28.6	28.6	8.1	8.1	16.0	16.0	90.2	90.4	6.4	4.4	7						
					5.2	0.3	291	28.6	28.6	8.1	8.1	16.0	16.0	90.6	90.4	6.4	4.4	6						

DA: Depth-Averaged

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

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

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

Water Quality Monitoring Results on 06 July 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	Rough	16:44	6.9	Surface	1.0	0.4	265	30.5	30.5	8.3	8.3	5.0	5.0	144.7	145.3	10.6	10.7	4.9	6	6	822098	808787								
						1.0	0.4	271	30.4	8.3	8.3	5.0	5.0	145.8	146.4	10.7	10.7	5.0	6												
						3.5	0.1	243	29.8	8.2	8.2	10.6	10.6	151.2	150.9	10.8	10.7	4.4	6												
					Middle	3.5	0.1	255	29.8	29.8	8.2	8.2	10.6	10.6	150.6	150.9	10.8	10.7	4.5	5											
						5.9	0.1	272	29.2	29.2	8.3	8.3	13.5	13.4	119.0	119.1	8.5	8.5	4.4	6											
						5.9	0.1	273	29.2	29.2	8.3	8.3	13.4	13.4	119.2	119.1	8.5	8.5	4.4	5											
					IM10	Rainy	Rough	16:51	7.5	Surface	1.0	0.2	275	29.6	29.6	8.1	8.1	11.9	11.9	138.8				138.2	9.9	9.6	4.0	6	6	822406	809815
											1.0	0.2	277	29.5	29.5	8.1	8.1	12.0	12.0	137.6				138.2	9.8	9.6	3.9	7			
											3.8	0.2	285	29.4	29.4	8.1	8.1	12.0	12.1	135.0				130.5	9.7	9.6	3.8	5			
Middle	3.8	0.2	287	29.4						29.4	8.1	8.1	12.1	12.1	126.0	130.5	9.0	9.0	3.8	5											
	6.5	0.1	269	29.2						29.2	8.2	8.2	14.6	14.6	105.8	105.5	7.5	7.5	3.5	5											
	6.5	0.2	263	29.1						29.1	8.2	8.2	14.6	14.6	105.2	105.5	7.5	7.5	3.6	5											
IM11	Rainy	Rough	17:02	7.6						Surface	1.0	0.4	222	30.0	30.0	8.2	8.2	10.7	10.7	161.9	161.7	11.5	8.5	4.3	6	6	822079	811471			
											1.0	0.4	223	30.0	30.0	8.2	8.2	10.7	10.7	161.5	161.7	11.5	8.5	4.3	5						
											3.8	0.1	248	28.1	28.1	8.1	8.1	20.0	20.0	78.0	77.9	5.5	5.5	5.3	6						
					Middle	3.8	0.1	249	28.0	28.0	8.1	8.1	20.0	20.0	77.8	77.9	5.5	5.5	5.4	5											
						6.6	0.1	244	27.4	27.4	8.0	8.0	23.3	23.3	64.2	64.5	4.5	4.5	7.9	7											
						6.6	0.1	245	27.4	27.4	8.0	8.0	23.3	23.3	64.8	64.5	4.5	4.5	8.0	7											
					IM12	Rainy	Rough	17:09	8.1	Surface	1.0	0.3	225	28.6	28.6	8.2	8.2	17.9	17.8	119.5	119.1	8.5	7.7	3.8	7				6	821442	812031
											1.0	0.3	225	28.6	28.6	8.2	8.2	17.8	17.8	118.6	119.1	8.4	7.7	3.8	6						
											4.1	0.2	224	29.1	29.1	8.0	8.0	14.9	14.9	99.5	99.5	7.0	7.0	4.1	6						
Middle	4.1	0.2	227	29.0						29.0	8.0	8.0	15.0	15.0	99.5	99.5	7.0	7.0	4.1	6											
	7.1	0.2	209	27.3						27.3	7.9	7.9	23.9	23.9	62.8	62.9	4.4	4.4	5.7	6											
	7.1	0.2	207	27.3						27.3	7.9	7.9	23.9	23.9	63.0	62.9	4.4	4.4	5.8	6											
SR1A	Cloudy	Rough	17:41	4.7						Surface	1.0	-	-	30.3	30.3	8.1	8.1	13.9	13.9	213.5	213.4	14.9	14.9	4.7	5	5	819975	812653			
											1.0	-	-	30.3	30.3	8.1	8.1	13.9	13.9	213.3	213.4	14.9	14.9	4.7	5						
											2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
					Middle	2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-										
						3.7	-	-	29.8	29.8	8.3	8.3	17.0	17.0	172.5	172.0	11.9	11.9	9.9	5											
						3.7	-	-	29.8	29.8	8.3	8.3	17.0	17.0	171.5	172.0	11.9	11.9	9.9	5											
					SR2	Cloudy	Rough	17:58	4.5	Surface	1.0	0.1	241	30.0	30.0	8.3	8.3	12.4	12.4	172.5	172.4	12.2	12.2	4.1	5				6	821476	814143
											1.0	0.1	243	30.0	30.0	8.3	8.3	12.4	12.4	172.2	172.4	12.2	12.2	4.1	6						
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
Middle	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-										
	3.5	0.1	235	29.2						29.2	8.2	8.3	14.6	14.6	120.9	120.9	8.6	8.6	4.1	6											
	3.5	0.1	223	29.2						29.2	8.3	8.3	14.6	14.6	120.9	120.9	8.6	8.6	4.1	5											
SR3	Fine	Rough	16:29	8.4						Surface	1.0	0.8	29	30.3	30.3	8.3	8.3	9.2	9.2	156.8	156.5	11.2	9.3	5.0	5	6	822127	807569			
											1.0	0.8	28	30.3	30.3	8.3	8.3	9.2	9.2	156.2	156.5	11.2	9.3	5.0	5						
											4.2	0.6	30	29.1	29.2	8.2	8.2	13.8	13.8	104.5	104.6	7.4	7.4	4.1	5						
					Middle	4.2	0.6	31	29.2	29.2	8.2	8.2	13.8	13.8	104.7	104.6	7.4	7.4	4.2	5											
						7.4	0.4	24	28.4	28.4	8.1	8.1	16.9	16.9	76.2	76.3	5.4	5.4	4.1	6											
						7.4	0.4	25	28.4	28.4	8.1	8.1	16.9	16.9	76.3	76.3	5.4	5.4	4.1	7											
					SR4A	Fine	Calm	17:37	8.2	Surface	1.0	0.5	252	30.3	30.3	8.3	8.2	16.5	16.5	140.3	138.2	9.6	8.1	5.2	8				10	817196	807809
											1.0	0.5	265	30.3	30.3	8.2	8.2	16.5	16.5	136.1	138.2	9.4	8.1	5.3	9						
											4.1	0.4	248	28.2	28.2	7.9	7.9	20.6	20.6	94.6	94.5	6.6	6.6	7.6	10						
Middle	4.1	0.4	248	28.1						28.1	7.9	7.9	20.7	20.6	94.3	94.5	6.6	6.6	7.6	10											
	7.2	0.2	242	27.4						27.4	7.9	7.9	24.7	24.7	72.3	75.1	5.0	5.0	8.9	10											
	7.2	0.2	260	27.4						27.4	7.9	7.9	24.7	24.7	77.9	75.1	5.4	5.4	8.9	11											
SR5A	Rainy	Calm	17:58	3.2						Surface	1.0	0.4	300	30.4	30.4	8.3	8.3	17.1	17.1	162.5	162.5	11.1	11.1	5.3	10	10	816581	810682			
											1.0	0.4	307	30.4	30.4	8.3	8.3	17.2	17.1	162.4	162.5	11.1	11.1	5.2	9						
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-										
						2.2	0.3	315	29.9	29.9	8.3	8.3	17.6	17.6	142.6	142.2	9.8	9.8	7.6	9											
						2.2	0.4	345	29.9	29.9	8.3	8.3	17.6	17.6	141.8	142.2	9.7	9.8	7.5	10											
					SR6A	Rainy	Calm	18:36	4.2	Surface	1.0	0.1	228	30.2	30.2	8.3	8.3	17.4	17.4	164.5	164.2	11.3	11.3	6.3	10				9	817953	814743
											1.0	0.1	219	30.2	30.2	8.3	8.3	17.4	17.4	163.9	164.2	11.2	11.3	6.2	11						
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
Middle	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-										
	3.2	0.1	243	30.2						30.2	8.3	8.3	17.4	17.3	156.9	157.2	10.7	10.8	7.3	8											
	3.2	0.1	227	30.3						30.3	8.3	8.3	17.3	17.3	157.5	157.2	10.8	10.8	7.3	7											
SR7	Cloudy	Rough	19:04	14.7						Surface	1.0	0.2	186	29.2	29.2	8.3	8.3	19.1	19.1	173.9	173.5	12.0	9.2	3.2	5	5	823637	823720			
											1.0	0.2	189	29.2	29.2	8.3	8.3	19.1	19.1	173.1	173.5	11.9	9.2	3.2	5						
											7.4	0.1	203	27.4	27.4	8.3	8.3	24.5	24.5	94.8	94.8	6.5	6.5	2.8	5						
					Middle	7.4	0.1	199	27.4	27.4	8.3	8.3	24.5	24.5	94.7	94.8	6.5	6.5	2.8	5											
						13.7	0.0	207	26.6	26.6	8.2	8.2	27.3	27.3	85.2	85.4	5.9	5.9	2.9	4											
						13.7	0.0	203	26.6	26.6	8.2	8.2	27.3	27.3	85.6	85.4	5.9	5.9	2.9	5											
					SR8	Rainy	Rough	17:19	4.3	Surface	1.0	-	-	30.9	30.9	8.3	8.3	12.3	12.3	202.1	201.9	14.1	14.1	5.3	6				6	820401	811615
											1.0	-	-	30.9	30.9	8.3	8.3	12.3	12.3	201.7	201.9	14.0	14.1	5.4	5						
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
Middle	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-										
	3.3	-	-	29.8						29.7	8.2	8.2	16.3	17.0	143.7	138.2	10.0	9.6	6.0	6											
	3.3	-	-	29.6						29.7	8.2	8.2	17.8	17.8	132.7	138.2	9.2	9.6	6.1	5											

DA: Depth-Averaged

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

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

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

Water Quality Monitoring

Water Quality Monitoring Results on 08 July 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	Moderate	11:54	8.5	Surface	1.0	0.3	199	29.1	29.1	8.2	8.2	16.1	16.1	117.4	117.3	8.2	7.6	3.1	12	13	815642	804233								
						1.0	0.4	206	29.1	29.1	8.2	8.2	16.1	16.1	117.2	117.3	8.2	7.6	3.1	12											
						4.3	0.4	206	28.6	28.6	8.2	8.2	18.5	18.5	101.0	100.6	7.1	7.6	3.7	12											
					Middle	4.3	0.4	210	28.6	28.6	8.2	8.2	18.5	18.5	100.2	100.6	7.0	7.6	3.7	13											
						7.5	0.6	234	27.2	27.2	8.2	8.2	25.2	25.2	60.8	60.9	4.2	4.2	8.2	13											
						7.5	0.6	257	27.2	27.2	8.2	8.2	25.2	25.2	61.0	60.9	4.2	4.2	8.8	14											
					C2	Sunny	Calm	13:23	11.2	Surface	1.0	1.0	154	28.1	28.1	8.3	8.3	14.1	14.1	101.8				101.2	7.4	6.5	4.8	9	9	825682	806942
											1.0	1.1	165	28.0	28.0	8.3	8.3	14.2	14.2	100.5				101.2	7.3	6.5	4.8	9			
											5.6	1.0	149	27.4	27.4	8.2	8.2	23.6	23.6	81.2				81.2	5.6	6.5	5.1	8			
Middle	5.6	1.0	152	27.4						27.4	8.2	8.2	23.5	23.5	81.1	81.2	5.6	6.5	5.5	9											
	10.2	0.7	150	27.2						27.2	8.2	8.2	25.6	25.6	74.1	74.3	5.1	5.1	6.8	9											
	10.2	0.8	152	27.4						27.3	8.2	8.2	25.5	25.5	74.4	74.3	5.1	5.1	6.7	8											
C3	Sunny	Calm	11:11	13.0						Surface	1.0	0.5	96	28.1	28.1	8.3	8.3	21.6	21.6	131.6	131.1	9.1	7.8	4.1	6	8	822089	817801			
											1.0	0.6	97	28.0	28.0	8.3	8.3	21.7	21.7	130.6	131.1	9.1	7.8	4.2	5						
											6.5	0.3	91	27.4	27.4	8.3	8.3	25.2	25.3	93.0	92.9	6.4	7.8	5.6	8						
					Middle	6.5	0.3	97	27.3	27.3	8.3	8.3	25.3	25.3	92.7	92.9	6.4	7.8	5.6	7											
						12.0	0.2	51	27.1	27.2	8.3	8.3	26.6	26.6	87.2	87.4	6.0	6.0	6.6	9											
						12.0	0.3	52	27.2	27.2	8.3	8.3	26.5	26.5	87.6	87.4	6.0	6.0	6.1	10											
					IM1	Cloudy	Moderate	12:18	4.4	Surface	1.0	0.0	121	28.6	28.6	8.0	8.0	22.3	22.3	91.0	91.2	6.2	6.3	4.7	9				9	817948	807153
											1.0	0.0	128	28.6	28.6	8.0	8.0	22.3	22.3	91.3	91.2	6.3	6.3	4.7	10						
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
Middle	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-									
	3.4	0.1	301	27.5						27.5	8.0	8.0	25.0	24.9	59.8	60.3	4.1	4.2	8.0	8											
	3.4	0.1	314	27.5						27.5	8.0	8.0	24.9	24.9	60.7	60.3	4.2	4.2	7.7	8											
IM2	Cloudy	Moderate	12:27	6.5						Surface	1.0	0.1	182	28.7	28.7	8.2	8.2	18.2	18.2	115.9	115.8	8.1	6.3	3.6	12	14	818181	806159			
											1.0	0.1	198	28.7	28.7	8.2	8.2	18.2	18.2	115.6	115.8	8.1	6.3	3.6	11						
											3.3	0.1	275	27.6	27.6	8.1	8.1	23.6	23.6	63.5	63.3	4.4	6.3	6.9	13						
					Middle	3.3	0.2	294	27.6	27.6	8.1	8.1	23.7	23.7	63.1	63.3	4.4	6.3	7.0	12											
						5.5	0.1	338	26.9	26.9	8.2	8.2	26.4	26.4	50.5	50.7	3.5	3.5	15.4	18											
						5.5	0.1	311	26.9	26.9	8.2	8.2	26.4	26.4	50.8	50.7	3.5	3.5	15.6	19											
					IM3	Cloudy	Moderate	12:34	6.5	Surface	1.0	0.2	218	29.4	29.4	8.1	8.1	15.9	15.9	122.4	122.2	8.6	6.2	2.8	11				12	818780	805606
											1.0	0.2	224	29.4	29.4	8.1	8.1	15.9	15.9	122.0	122.2	8.5	6.2	2.8	11						
											3.3	0.2	245	27.4	27.4	7.9	7.9	24.5	24.5	56.5	56.6	3.9	6.2	9.9	12						
Middle	3.3	0.2	251	27.4						27.4	7.9	7.9	24.5	24.5	56.6	56.6	3.9	6.2	9.9	11											
	5.5	0.1	300	26.9						26.9	7.9	7.9	26.5	26.5	51.2	51.3	3.5	3.5	10.7	13											
	5.5	0.1	311	26.9						26.9	7.9	7.9	26.5	26.5	51.4	51.3	3.5	3.5	10.3	12											
IM4	Cloudy	Moderate	12:47	7.8						Surface	1.0	1.0	199	29.0	29.1	8.1	8.1	18.7	18.6	100.3	101.3	7.0	6.3	8.1	25	2Z	819742	804606			
											1.0	1.1	209	29.1	29.1	8.1	8.1	18.6	18.6	102.2	101.3	7.1	6.3	8.8	24						
											3.9	0.8	198	28.2	28.2	8.0	8.0	20.3	20.3	79.8	79.8	5.6	6.3	12.2	28						
					Middle	3.9	0.8	216	28.2	28.2	8.0	8.0	20.3	20.3	79.8	79.8	5.6	6.3	12.1	28											
						6.8	0.6	183	28.2	28.2	8.0	8.0	20.5	20.5	77.7	77.8	5.4	5.4	13.3	29											
						6.8	0.6	192	28.2	28.2	8.0	8.0	20.5	20.5	77.8	77.8	5.4	5.4	13.3	30											
					IM5	Cloudy	Moderate	12:58	7.3	Surface	1.0	1.1	220	29.8	29.8	8.2	8.2	13.8	13.8	140.8	140.6	9.9	7.9	3.1	8				8	820711	804883
											1.0	1.1	233	29.8	29.8	8.2	8.2	13.8	13.8	140.4	140.6	9.9	7.9	3.1	7						
											3.7	0.9	223	28.2	28.3	8.0	8.0	19.9	19.9	84.1	84.2	5.9	7.9	13.2	8						
Middle	3.7	0.9	236	28.3						28.3	8.0	8.0	19.9	19.9	84.3	84.2	5.9	7.9	13.9	8											
	6.3	0.6	219	28.2						28.2	8.0	8.0	20.4	20.4	80.1	80.3	5.6	5.6	12.4	8											
	6.3	0.6	227	28.2						28.2	8.0	8.0	20.4	20.4	80.4	80.3	5.6	5.6	12.9	9											
IM6	Cloudy	Moderate	13:10	6.8						Surface	1.0	0.9	237	29.1	29.1	8.1	8.1	15.1	15.1	125.1	124.9	8.8	7.2	2.7	8	8	821082	805828			
											1.0	1.0	253	29.1	29.1	8.1	8.1	15.2	15.2	124.6	124.9	8.8	7.2	2.8	7						
											3.4	0.9	241	28.2	28.2	7.9	7.9	20.8	20.8	80.5	80.7	5.6	7.2	6.8	8						
					Middle	3.4	0.9	259	28.2	28.2	7.9	7.9	20.8	20.8	80.9	80.7	5.6	7.2	6.8	8											
						5.8	0.5	234	27.7	27.7	7.9	7.9	22.8	22.8	68.0	68.2	4.7	4.7	13.5	8											
						5.8	0.5	242	27.7	27.7	7.9	7.9	22.8	22.8	68.3	68.2	4.7	4.7	13.6	8											
					IM7	Cloudy	Moderate	13:21	7.2	Surface	1.0	0.6	232	29.1	29.1	8.1	8.1	14.0	14.0	118.5	118.3	8.4	7.1	3.8	7				9	821353	806856
											1.0	0.7	248	29.0	29.0	8.1	8.1	14.0	14.0	118.0	118.3	8.4	7.1	3.8	8						
											3.6	0.5	248	28.3	28.3	8.0	8.0	19.4	19.4	83.4	83.2	5.8	7.1	3.6	9						
Middle	3.6	0.6	257	28.2						28.3	8.0	8.0	19.4	19.4	83.0	83.2	5.8	7.1	3.4	9											
	6.2	0.4	245	28.0						28.0	8.0	8.0	21.7	21.7	82.4	82.6	5.7	5.7	8.1	9											
	6.2	0.4	252	28.0						28.0	8.0	8.0	21.7	21.7	82.8	82.6	5.7	5.7	8.2	9											
IM8	Sunny	Calm	12:54	7.6						Surface	1.0	0.3	157	28.2	28.2	8.3	8.3	18.8	18.8	103.9	104.4	7.3	6.5	5.5	7	8	821825	808152			
											1.0	0.4	159	28.2	28.2	8.2	8.2	18.8	18.8	104.8	104.4	7.4	6.5	5.6	8						
											3.8	0.2	196	27.9	27.9	8.2	8.2	21.2	21.2	82.0	82.1	5.7	6.5	6.1	8						
					Middle	3.8	0.2	197	27.9	27.9	8.2	8.2	21.2	21.2	82.2	82.1	5.7	6.5	6.0	7											
						6.6	0.1	182	28.3	28.4	8.2	8.1	21.5	21.5	79.0	79.4	5.5	5.5	7.6	8											
						6.6	0.1	187	28.4	28.4	8.1	8.1	21.5	21.5	79.8	79.4	5.5	5.5	7.5	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

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Water Quality Monitoring

Water Quality Monitoring Results on 08 July 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	Calm	12:48	7.2	Surface	1.0	0.4	131	28.2	28.2	8.2	8.2	15.9	15.7	112.3	110.6	8.0	6.9	5.4	5	7	822093	808808		
						1.0	0.4	136	28.1	8.2	8.2	15.6	15.7	108.8	110.6	7.8	6.9	5.6	6						
						3.6	0.3	98	28.0	8.2	8.2	20.6	20.6	84.5	84.6	5.9	5.7	7.1	6						
					Middle	3.6	0.3	98	28.0	28.0	8.2	8.2	20.6	20.6	84.6	84.6	5.9	5.7	7.2	7					
						6.2	0.2	83	28.6	28.7	8.2	8.2	21.0	21.0	81.7	82.6	5.6	5.7	8.6	8					
						6.2	0.2	84	28.7	28.7	8.2	8.2	20.9	21.0	83.5	82.6	5.7	5.7	8.3	7					
					Bottom	1.0	0.7	103	29.0	29.1	8.3	8.3	14.9	14.7	123.2	118.5	8.7	7.1	4.3	8					
						1.0	0.7	105	29.1	29.1	8.3	8.3	14.5	14.7	113.8	118.5	8.1	7.1	4.4	8					
						3.8	0.7	89	27.7	27.7	8.2	8.2	21.2	21.3	82.1	82.0	5.7	5.7	5.3	9					
Middle	3.8	0.7	91	27.7	27.7	8.2	8.2	21.4	21.4	81.9	82.0	5.7	5.7	5.4	9										
	6.6	0.6	85	28.0	28.1	8.2	8.2	23.1	23.1	82.3	82.6	5.7	5.7	6.4	10										
	6.6	0.6	90	28.1	28.1	8.2	8.2	23.0	23.1	82.9	82.6	5.7	5.7	6.3	10										
IM10	Sunny	Calm	12:40	7.6	Surface	1.0	0.8	132	27.8	27.8	8.2	8.2	17.1	17.0	102.3	101.0	7.3	6.3	6.7	10	10	822037	811476		
						1.0	0.8	132	27.7	27.8	8.2	8.2	17.0	17.0	99.6	101.0	7.1	6.3	6.7	9					
						4.5	0.6	131	27.4	27.4	8.2	8.2	23.1	23.0	76.8	76.7	5.3	5.5	7.6	9					
					Middle	4.5	0.6	133	27.4	27.4	8.2	8.2	23.0	23.0	76.6	76.7	5.3	5.5	7.6	9					
						8.0	0.4	142	27.3	27.3	8.2	8.2	24.2	24.2	77.9	78.4	5.4	5.5	8.4	11					
						8.0	0.5	151	27.3	27.3	8.2	8.2	24.2	24.2	78.8	78.4	5.5	5.5	8.3	10					
					Bottom	1.0	0.6	121	28.3	28.3	8.3	8.3	18.1	18.1	114.6	112.1	8.1	6.8	6.8	9					
						1.0	0.6	121	28.2	28.3	8.3	8.3	18.1	18.1	109.5	112.1	7.7	6.8	6.9	8					
						4.6	0.6	115	27.8	27.8	8.2	8.2	21.5	21.4	81.7	81.9	5.7	6.8	8.2	11					
Middle	4.6	0.6	122	27.8	27.8	8.2	8.2	21.4	21.4	82.0	81.9	5.7	6.8	8.4	10										
	8.2	0.3	112	27.8	27.9	8.2	8.2	23.4	23.3	73.1	73.4	5.0	5.1	9.4	11										
	8.2	0.3	122	27.9	27.9	8.2	8.2	23.3	23.3	73.7	73.4	5.1	5.1	9.1	11										
SR1A	Sunny	Calm	11:54	4.7	Surface	1.0	-	-	28.5	28.5	8.3	8.3	19.5	19.5	120.9	120.8	8.4	8.4	4.3	4	4	819977	812662		
						1.0	-	-	28.5	28.5	8.3	8.3	19.5	19.5	120.7	120.8	8.4	8.4	4.3	3					
						2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-				4.7	
					Middle	2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-
						3.7	-	-	28.4	28.4	8.3	8.3	20.3	20.4	112.8	112.7	7.8	7.8	5.1	4					
						3.7	-	-	28.4	28.4	8.3	8.3	20.5	20.4	112.6	112.7	7.8	7.8	5.1	4					
					Bottom	1.0	0.6	73	28.4	28.4	8.2	8.2	17.4	17.5	130.4	129.1	9.2	9.1	4.8	6					
						1.0	0.6	77	28.3	28.4	8.2	8.2	17.5	17.5	127.7	129.1	9.0	9.1	5.0	8					
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				5.4	
Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
	3.6	0.3	50	28.1	28.2	8.3	8.3	21.3	21.3	95.2	95.4	6.6	6.6	5.9	3										
	3.6	0.3	52	28.2	28.2	8.3	8.3	21.3	21.3	95.5	95.4	6.6	6.6	5.9	4										
SR2	Sunny	Calm	11:37	4.6	Surface	1.0	0.5	189	28.4	28.4	8.3	8.3	15.3	15.3	118.6	117.5	8.5	7.2	5.3	11	10	822150	807589		
						1.0	0.5	191	28.3	28.4	8.3	8.3	15.3	15.3	116.4	117.5	8.3	7.2	5.3	12					
						4.5	0.4	173	27.7	27.7	8.2	8.2	20.4	20.3	85.7	85.8	6.0	5.7	5.4	10					
					Middle	4.5	0.4	182	27.6	27.7	8.2	8.2	20.3	20.3	85.8	85.8	6.1	5.7	5.4	10					
						8.0	0.4	186	28.0	28.1	8.2	8.2	24.1	24.0	79.6	80.3	5.5	5.5	6.4	9					
						8.0	0.5	188	28.1	28.1	8.2	8.2	24.0	24.0	80.9	80.3	5.5	5.5	6.5	8					
					Bottom	1.0	0.3	251	28.7	28.7	8.2	8.2	18.7	18.6	111.1	111.0	7.7	5.9	5.1	9					
						1.0	0.3	262	28.7	28.7	8.2	8.2	18.6	18.6	110.8	111.0	7.7	5.9	5.1	9					
						4.4	0.1	279	27.3	27.3	8.2	8.2	24.9	24.9	58.0	58.1	4.0	6.3	6.5	8					
Middle	4.4	0.1	291	27.3	27.3	8.2	8.2	24.9	24.9	58.1	58.1	4.0	6.3	6.5	9										
	7.7	0.1	248	27.1	27.1	8.3	8.3	25.8	25.8	53.8	53.8	3.7	3.7	7.4	9										
	7.7	0.1	254	27.1	27.1	8.3	8.3	25.8	25.8	53.8	53.8	3.7	3.7	7.4	8										
Bottom	1.0	0.1	76	28.9	28.9	8.2	8.2	19.2	19.3	112.6	112.1	7.8	7.8	8.9	13										
	1.0	0.1	79	28.9	28.9	8.2	8.2	19.3	19.3	111.6	112.1	7.7	7.8	9.9	12										
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10.7									
Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
	2.6	0.1	106	28.9	28.9	8.2	8.2	19.6	19.6	102.8	103.0	7.1	7.1	12.0	11										
	2.6	0.1	100	28.9	28.9	8.2	8.2	19.6	19.6	103.1	103.0	7.1	7.1	12.1	11										
SR4A	Cloudy	Moderate	11:32	8.7	Surface	1.0	0.1	9	28.7	28.7	8.0	8.0	20.7	20.7	93.1	93.0	6.4	6.4	6.4	10	9	817195	807820		
						1.0	0.1	9	28.7	28.7	8.0	8.0	20.7	20.7	92.9	93.0	6.4	6.4	6.4	9					
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				7.8	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	
						3.4	0.1	232	27.8	27.8	8.0	8.0	23.1	23.1	74.8	74.8	5.2	5.2	9.2	9					
						3.4	0.1	233	27.8	27.8	8.0	8.0	23.1	23.1	74.8	74.8	5.2	5.2	9.2	8					
					Bottom	1.0	0.6	63	27.8	27.8	8.3	8.3	23.8	23.8	125.4	123.5	8.6	7.3	1.1	8					
						1.0	0.6	63	27.8	27.8	8.3	8.3	23.9	23.8	121.5	123.5	8.4	7.3	1.1	7					
						9.4	0.2	48	26.7	26.7	8.2	8.2	27.7	27.7	89.5	89.6	6.1	6.4	2.4	6					
Middle	9.4	0.2	52	26.7	26.7	8.2	8.2	27.8	27.7	89.7	89.6	6.2	6.4	2.5	6										
	17.7	0.2	34	26.8	26.9	8.2	8.2	27.9	27.9	92.9	93.5	6.3	6.4	3.4	5										
	17.7	0.3	34	26.9	26.9	8.2	8.2	27.9	27.9	94.1	93.5	6.4	6.4	3.3	5										
Bottom	1.0	-	-	29.1	29.1	8.3	8.3	18.3	18.3	133.5	131.7	9.3	9.2	6.4	8										
	1.0	-	-	29.0	29.1	8.3	8.3	18.4	18.3	129.9	131.7	9.0	9.2	6.3	8										
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.9									
Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
	4.2	-	-	29.0	29.0	8.3	8.3	18.6	18.6	123.0	122.9	8.5	8.5	7.5	10										
	4.2	-	-	28.9	29.0	8.3	8.3	18.6	18.6	122.7	122.9	8.5	8.5	7.6	10										
Bottom	1.0	-	-	29.1	29.1	8.3	8.3	18.3	18.3	133.5	131.7	9.3	9.2	6.4	8										
	1.0	-	-	29.0	29.1	8.3	8.3	18.4	18.3	129.9	131.7	9.0	9.2	6.3	8										
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.9									
Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
	4.2	-	-	29.0	29.0	8.3	8.3	18.6	18.6	123.0	122.9	8.5	8.5	7.5	10										
	4.2	-	-	28.9	29.0	8.3	8.3	18.6	18.6	122.7	122.9	8.5	8.5	7.6	10										
Bottom	1.0	-	-	29.1	29.1	8.3	8.3	18.3	18.3	133.5	131.7	9.3	9.2	6.4	8										

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

Water Quality Monitoring Results on 08 July 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	19:17	8.5	Surface	1.0	0.5	58	29.1	29.1	8.1	8.1	16.9	16.9	116.7	116.5	8.2	7.1	9.6	7	7	815599	804250	
						1.0	0.5	61	29.0	8.1	8.1	16.9	16.9	116.3	116.5	8.2	7.1	10.0	6					
						4.3	0.4	72	28.3	8.0	8.0	19.9	19.9	85.4	85.3	6.0	5.1	12.2	8					
					4.3	0.4	77	28.2	8.0	8.0	19.9	19.9	85.1	85.3	5.9	5.1	12.4	7						
					7.5	0.2	22	28.0	8.0	8.0	22.0	22.0	74.0	74.1	5.1	5.1	13.1	7						
					7.5	0.2	21	28.0	8.0	8.0	22.0	22.0	74.1	74.1	5.1	5.1	13.2	6						
C2	Sunny	Calm	17:40	10.8	Surface	1.0	1.3	18	28.4	28.4	8.1	8.1	13.2	13.1	78.5	78.8	5.7	5.5	5.7	5	6	825690	806945	
						1.0	1.3	19	28.3	8.1	8.1	13.0	13.0	79.0	79.0	5.7	5.5	5.8	5					
						5.4	0.9	18	27.7	8.1	8.1	20.1	20.0	74.0	74.0	5.2	5.2	7.2	6					
					5.4	1.0	18	27.6	8.1	8.1	20.0	20.0	73.9	74.3	5.2	5.2	7.3	6						
					9.8	0.4	19	27.6	8.2	8.2	21.8	21.8	74.3	74.4	5.2	5.2	7.5	6						
					9.8	0.4	20	27.6	8.2	8.2	21.7	21.7	74.5	74.5	5.2	5.2	7.4	7						
C3	Sunny	Calm	19:32	11.4	Surface	1.0	0.5	216	27.9	27.9	8.5	8.5	19.6	19.7	119.4	116.3	8.4	7.0	2.4	12	10	822089	817820	
						1.0	0.5	234	27.8	8.5	8.5	19.7	19.7	119.2	116.3	8.0	7.0	2.3	11					
						5.7	0.5	226	27.2	8.3	8.2	23.3	23.3	81.9	81.7	5.7	5.7	3.4	10					
					5.7	0.5	233	27.0	8.2	8.2	23.3	23.3	81.4	81.4	5.7	5.7	3.5	10						
					10.4	0.4	225	26.5	8.2	8.2	27.9	28.0	71.3	71.5	4.9	4.9	4.6	9						
					10.4	0.4	256	26.5	8.2	8.2	28.0	28.0	71.6	71.6	4.9	4.9	4.6	9						
IM1	Cloudy	Moderate	18:54	4.6	Surface	1.0	0.0	19	29.9	29.9	8.2	8.2	17.6	17.6	152.9	151.6	10.5	10.4	5.4	12	11	817952	807133	
						1.0	0.0	20	29.9	8.2	8.2	17.6	17.6	150.3	151.6	10.3	10.4	5.8	13					
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-
					3.6	0.0	248	27.5	7.8	7.8	24.7	24.8	65.1	65.3	4.5	4.5	8.5	9						
					3.6	0.0	268	27.5	7.8	7.8	24.8	24.8	65.5	65.3	4.5	4.5	8.5	10						
					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
IM2	Cloudy	Moderate	18:44	6.4	Surface	1.0	0.2	87	28.3	28.4	7.9	7.9	21.9	21.9	91.7	91.6	6.3	5.1	4.5	8	9	818179	806159	
						1.0	0.2	91	28.4	7.9	7.9	21.9	21.9	91.4	91.6	6.3	5.1	4.5	7					
						3.2	0.2	123	27.3	7.7	7.7	25.1	25.1	56.6	56.6	3.9	3.6	7.3	8					
					3.2	0.3	124	27.3	7.7	7.7	25.1	25.1	56.5	56.6	3.9	3.6	7.4	9						
					5.4	0.1	88	27.0	7.7	7.7	25.9	25.9	52.4	52.6	3.6	3.6	7.7	10						
					5.4	0.1	85	27.0	7.7	7.7	25.9	25.9	52.7	52.6	3.6	3.6	7.2	11						
IM3	Cloudy	Moderate	18:35	6.7	Surface	1.0	0.3	5	29.3	29.3	8.0	8.0	19.5	19.5	119.4	119.2	8.2	6.4	4.7	8	8	818760	805588	
						1.0	0.3	5	29.3	8.0	8.0	19.5	19.5	119.0	119.2	8.2	6.4	4.8	7					
						3.4	0.2	353	27.7	7.8	7.8	24.1	24.1	65.4	65.7	4.5	4.5	5.7	7					
					3.4	0.2	325	27.7	7.8	7.8	24.0	24.0	66.0	65.7	4.5	4.5	5.8	8						
					5.7	0.1	321	27.0	7.7	7.7	25.9	25.8	46.7	48.6	3.2	3.4	10.2	8						
					5.7	0.1	330	27.1	7.7	7.7	25.7	25.7	50.5	48.6	3.5	3.4	10.3	7						
IM4	Cloudy	Moderate	18:25	6.8	Surface	1.0	0.8	69	28.8	28.8	7.9	7.9	16.9	16.9	102.2	102.2	7.2	6.9	12.7	12	12	819711	804583	
						1.0	0.8	75	28.8	7.9	7.9	16.9	16.9	102.2	102.2	7.2	6.9	12.5	12					
						3.4	0.7	85	28.6	7.9	7.9	17.6	17.6	94.7	94.5	6.7	6.9	11.3	12					
					3.4	0.7	89	28.6	7.9	7.9	17.6	17.6	94.2	94.5	6.6	6.9	11.2	11						
					5.8	0.4	67	28.0	7.8	7.8	21.4	21.4	75.6	75.8	5.3	5.3	10.3	11						
					5.8	0.4	68	28.0	7.8	7.8	21.4	21.4	75.9	75.8	5.3	5.3	10.3	11						
IM5	Cloudy	Moderate	18:18	6.4	Surface	1.0	0.9	42	29.3	29.3	8.2	8.2	16.1	15.9	125.8	129.4	8.8	7.6	3.5	9	10	820733	804848	
						1.0	1.0	46	29.3	8.2	8.2	15.6	15.6	132.9	129.4	9.3	7.6	3.6	9					
						3.2	0.8	45	28.4	7.9	7.9	19.1	19.1	89.0	89.0	6.2	6.3	8.1	9					
					3.2	0.8	44	28.4	8.0	8.0	19.1	19.1	89.0	89.0	6.2	6.3	8.2	10						
					5.4	0.5	37	28.4	8.0	8.0	19.4	19.4	89.5	89.7	6.3	6.3	13.8	11						
					5.4	0.5	36	28.4	8.0	8.0	19.4	19.4	89.9	89.7	6.3	6.3	13.1	11						
IM6	Cloudy	Moderate	18:11	6.5	Surface	1.0	1.1	23	30.0	30.0	8.2	8.2	12.4	12.4	144.6	144.5	10.2	8.8	3.1	11	12	821046	805825	
						1.0	1.2	25	30.0	8.2	8.2	12.4	12.4	144.4	144.5	10.2	8.8	3.2	10					
						3.3	1.0	25	28.8	7.9	7.9	16.7	16.7	103.9	104.0	7.3	7.3	10.7	11					
					3.3	1.1	26	28.8	7.9	7.9	16.7	16.7	104.1	104.0	7.3	7.3	10.4	12						
					5.5	0.7	25	28.6	7.9	7.9	17.3	17.3	95.9	95.9	6.8	6.8	12.7	13						
					5.5	0.8	27	28.6	7.9	7.9	17.3	17.3	95.9	95.9	6.8	6.8	12.6	12						
IM7	Cloudy	Moderate	18:04	7.8	Surface	1.0	1.0	23	29.8	29.8	8.3	8.3	12.5	12.5	135.0	134.6	9.6	8.4	3.2	12	11	821328	806846	
						1.0	1.0	25	29.8	8.3	8.3	12.5	12.5	134.1	134.6	9.5	8.4	3.2	11					
						3.9	0.9	24	28.7	8.2	8.2	17.2	17.2	103.1	102.7	7.3	7.3	8.8	10					
					3.9	0.9	26	28.6	8.2	8.2	17.2	17.2	102.2	102.7	7.2	7.2	9.1	11						
					6.8	0.7	25	28.5	8.3	8.3	17.9	17.9	87.8	87.8	6.2	6.2	10.0	10						
					6.8	0.7	27	28.5	8.3	8.3	17.9	17.9	87.8	87.8	6.2	6.2	10.0	10						
IM8	Sunny	Calm	18:01	7.0	Surface	1.0	0.6	223	29.3	29.3	8.3	8.3	11.1	11.0	114.7	118.5	8.3	8.7	4.6	6	5	821852	808142	
						1.0	0.6	241	29.3	8.3	8.3	10.9	11.0	122.2	118.5	8.8	8.7	4.6	5					
						3.5	0.4	225	29.0	8.3	8.3	14.4	14.3	124.8	122.7	8.9	8.7	5.8	6					
					3.5	0.4	246	29.0	8.3	8.3	14.3	14.3	120.6	122.7	8.6	8.7	5.8	5						
					6.0	0.3	245	28.8	8.3	8.3	15.4	15.4	118.8	118.2	8.4	8.4	6.4	5						
					6.0	0.3	261	28.7	8.3	8.3	15.4	15.4	117.5	118.2	8.3	8.4	6.7	4						

DA: Depth-Averaged

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

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

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

Water Quality Monitoring Results on 08 July 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	Calm	18:07	6.2	Surface	1.0	0.4	244	29.3	29.3	8.2	8.2	9.1	9.1	113.2	116.7	8.3	8.5	3.1	4.2	6	5	822109	808800				
						1.0	0.4	258	29.2	8.2	8.2	9.2	9.2	120.1	117.9	8.8	8.5	3.1	4.2	5	4							
						3.1	0.3	226	28.9	8.2	8.2	14.5	14.5	118.4	112.3	8.4	7.9	4.2	5.3	5	5							
					Middle	3.1	0.3	232	28.9	28.9	8.2	8.2	14.5	14.5	117.4	112.3	8.4	7.9	4.2	5.3	4	5						
						5.2	0.1	276	28.8	28.8	8.3	8.3	16.5	16.4	112.5	111.3	7.9	7.9	5.3	5.2	5	6						
						5.2	0.1	276	28.8	28.8	8.3	8.3	16.4	16.4	112.1	111.3	7.9	7.9	5.2	5.0	4	6						
					Bottom	1.0	0.3	238	30.5	30.5	8.3	8.3	8.5	8.5	120.6	121.1	8.6	8.5	3.6	3.6	5	4						
						1.0	0.3	233	30.5	30.5	8.3	8.3	8.5	8.5	121.6	117.0	8.7	8.5	3.6	3.6	4	5						
						3.0	0.3	226	28.8	28.8	8.3	8.3	15.1	15.1	118.0	117.0	8.4	7.9	4.2	4.2	4	5						
3.0	0.4	219	28.8	28.8		8.3	8.3	15.2	15.2	115.9	111.3	8.2	7.9	4.2	4.2	5	6											
5.0	0.4	219	28.8	28.8		8.3	8.3	16.7	16.7	111.1	111.3	7.8	7.9	5.0	5.0	6	6											
5.0	0.4	220	28.8	28.8		8.3	8.3	16.7	16.7	111.5	111.3	7.9	7.9	5.0	5.0	6	6											
IM10	Sunny	Calm	18:15	6.0	Surface	1.0	0.3	238	30.5	30.5	8.3	8.3	8.5	8.5	120.6	121.1	8.6	8.5	3.6	3.6	5	4	822385	809804				
						1.0	0.3	233	30.5	30.5	8.3	8.3	8.5	8.5	121.6	117.0	8.7	8.5	3.6	3.6	4	5						
						3.0	0.3	226	28.8	28.8	8.3	8.3	15.1	15.1	118.0	117.0	8.4	7.9	4.2	4.2	4	5						
					Middle	3.0	0.4	219	28.8	28.8	8.3	8.3	15.2	15.2	115.9	111.3	8.2	7.9	4.2	4.2	5	6						
						5.0	0.4	219	28.8	28.8	8.3	8.3	16.7	16.7	111.1	111.3	7.8	7.9	5.0	5.0	6	6						
						5.0	0.4	220	28.8	28.8	8.3	8.3	16.7	16.7	111.5	111.3	7.9	7.9	5.0	5.0	6	6						
					Bottom	1.0	0.4	281	28.9	28.9	8.3	8.3	13.3	13.3	145.0	142.4	10.4	10.4	1.1	1.1	5	4						
						1.0	0.4	287	28.8	28.8	8.3	8.3	13.4	13.4	139.8	142.4	10.0	10.0	1.1	1.1	4	5						
						4.1	0.7	288	28.3	28.3	8.3	8.3	17.8	17.8	102.8	102.4	7.3	7.3	4.2	4.2	7	8						
4.1	0.7	290	28.2	28.2		8.3	8.3	17.8	17.8	102.0	102.4	7.2	7.2	4.2	4.2	8	10											
7.2	0.3	297	28.2	28.2		8.2	8.2	20.7	20.7	91.5	91.8	6.4	6.4	7.4	7.4	10	10											
7.2	0.3	301	28.2	28.2		8.2	8.2	20.8	20.8	92.0	91.8	6.4	6.4	7.3	7.3	10	10											
IM11	Sunny	Calm	18:25	8.2	Surface	1.0	0.4	281	28.9	28.9	8.3	8.3	13.3	13.3	145.0	142.4	10.4	10.4	1.1	1.1	5	4	822046	811448				
						1.0	0.4	287	28.8	28.8	8.3	8.3	13.4	13.4	139.8	142.4	10.0	10.0	1.1	1.1	4	5						
						4.1	0.7	288	28.3	28.3	8.3	8.3	17.8	17.8	102.8	102.4	7.3	7.3	4.2	4.2	7	8						
					Middle	4.1	0.7	290	28.2	28.2	8.3	8.3	17.8	17.8	102.0	102.4	7.2	7.2	4.2	4.2	8	10						
						7.2	0.3	297	28.2	28.2	8.2	8.2	20.7	20.7	91.5	91.8	6.4	6.4	7.4	7.4	10	10						
						7.2	0.3	301	28.2	28.2	8.2	8.2	20.8	20.8	92.0	91.8	6.4	6.4	7.3	7.3	10	10						
					Bottom	1.0	0.7	225	28.5	28.5	8.2	8.2	15.3	15.0	117.8	114.8	8.4	8.4	6.7	6.7	6	6						
						1.0	0.7	225	28.4	28.5	8.2	8.2	14.7	14.7	111.7	114.8	8.0	8.0	7.0	7.0	5	5						
						3.9	0.4	300	28.3	28.3	8.3	8.3	18.6	18.7	96.7	96.5	6.8	6.8	7.5	7.5	8	8						
3.9	0.4	307	28.2	28.3		8.3	8.3	18.7	18.7	96.2	96.5	6.8	6.8	7.5	7.5	8	8											
6.8	0.3	294	28.2	28.2		8.2	8.2	20.5	20.5	88.1	88.6	6.1	6.1	8.6	8.6	8	8											
6.8	0.3	300	28.2	28.2		8.2	8.2	20.4	20.5	89.1	88.6	6.2	6.2	8.6	8.6	8	8											
SR1A	Sunny	Calm	18:57	5.1	Surface	1.0	-	-	29.0	29.0	8.3	8.3	17.2	17.2	142.6	142.1	10.0	10.0	5.3	5.3	11	12	819970	812659				
						1.0	-	-	29.0	29.0	8.3	8.3	17.2	17.2	141.5	142.1	9.9	9.9	5.3	5.3	12	12						
						2.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			6.0	-		
					Middle	2.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	13	-
						4.1	-	-	29.0	29.0	8.3	8.3	18.8	18.9	138.1	137.9	9.6	9.6	6.8	6.8	14	14						
						4.1	-	-	29.0	29.0	8.3	8.3	18.9	18.9	137.7	137.9	9.6	9.6	6.7	6.7	14	14						
					Bottom	1.0	0.2	270	29.2	29.2	8.3	8.3	13.8	13.8	155.3	154.7	11.0	11.0	5.9	5.9	12	12						
						1.0	0.2	274	29.2	29.2	8.3	8.3	13.8	13.8	154.0	154.7	10.9	10.9	5.9	5.9	12	12						
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			6.1	-		
-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-									
2.8	0.2	266	28.7	28.7		8.2	8.2	16.5	16.5	124.9	125.1	8.8	8.9	6.3	6.3	13	13											
2.8	0.3	272	28.7	28.7		8.2	8.2	16.5	16.5	125.3	125.1	8.9	8.9	6.3	6.3	13	13											
SR2	Sunny	Calm	19:12	3.8	Surface	1.0	0.2	270	29.2	29.2	8.3	8.3	13.8	13.8	155.3	154.7	11.0	11.0	5.9	5.9	12	12	821474	814171				
						1.0	0.2	274	29.2	29.2	8.3	8.3	13.8	13.8	154.0	154.7	10.9	10.9	5.9	5.9	12	12						
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			6.1	-		
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	13	-
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-
						2.8	0.2	266	28.7	28.7	8.2	8.2	16.5	16.5	124.9	125.1	8.8	8.9	6.3	6.3	13	13						
					Bottom	2.8	0.3	272	28.7	28.7	8.2	8.2	16.5	16.5	125.3	125.1	8.9	8.9	6.3	6.3	13	13						
						1.0	0.8	17	29.4	29.5	8.3	8.3	12.5	12.4	100.7	100.6	7.2	7.2	5.3	5.3	8	7						
						1.0	0.9	18	29.5	29.5	8.3	8.3	12.3	12.3	100.4	100.6	7.2	7.2	5.4	5.4	7	6						
3.8	0.5	19	28.3	28.3		8.2	8.2	17.9	17.8	94.9	95.1	6.7	6.7	6.8	6.8	6	6											
3.8	0.5	20	28.3	28.3		8.2	8.2	17.7	17.7	95.3	95.1	6.7	6.7	6.9	6.9	6	6											
6.6	0.4	21	28.4	28.4		8.2	8.2	19.2	19.2	85.7	85.2	6.0	6.0	8.4	8.4	6	6											
6.6	0.5	23	28.4	28.4	8.2	8.2	19.2	19.2	84.6	85.2	5.9	5.9	8.5	8.5	6	6												
SR4A	Cloudy	Moderate	19:38	8.4	Surface	1.0	0.7	253	29.3	29.3	8.0	8.0	20.2	20.2	114.2	114.1	7.8	7.8	13.4	13.4	20	21	817209	807813				
						1.0	0.7	276	29.3	29.3	8.0	8.0	20.2	20.2	114.0	114.1	7.8	7.8	13.2	13.2	20	21						
						4.2	0.5	251	29.1	29.1	8.0	8.0	20.3	20.3	108.6	108.6	7.5	7.5	13.2	13.2	24	24						
					Middle	4.2	0.6	254	29.1	29.1	8.0	8.0	20.3	20.3	108.6	108.6	7.4	7.4	13.3	13.3	24	24						
						7.4	0.5	255	29.1	29.1	8.0	8.0	20.4	20.4	106.0	106.0	7.3	7.3	14.8	14.8	28	28						
						7.4	0.5	271	29.1	29.1	8.0	8.0	20.4	20.4	105.9	106.0	7.3	7.3	14.8	14.8	28	28						
					Bottom	1.0	0.3	275	29.5	29.5	8.1	8.1	20.1	20.2	126.3	126.2	8.6	8.6	7.1	7.1	14	14						
						1.0	0.3	277	29.5	29.5	8.1	8.1	20.2	20.2	126.1	126.2	8.6	8.6	7.3	7.3	14	14						
						-	-	-	-	-																		

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

Water Quality Monitoring

Water Quality Monitoring Results on 10 July 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	Moderate	12:48	8.2	Surface	1.0	0.6	206	29.1	29.1	8.2	8.2	18.4	18.3	123.3	122.3	8.6	6.9	2.7	7	8	815605	804244	
						1.0	0.6	220	29.0	8.2	8.2	18.3	18.3	121.2	122.3	8.4	6.9	2.7	7					
						4.1	0.4	213	27.9	8.2	8.2	24.8	24.8	78.7	78.1	5.4	6.9	5.4	8					
					Middle	4.1	0.4	224	27.9	27.9	8.2	8.2	24.8	24.8	77.5	78.1	5.3	6.9	5.4	7				
						7.2	0.5	222	26.6	26.6	8.2	8.2	29.2	29.2	45.2	45.3	3.1	3.1	12.9	8				
						7.2	0.5	240	26.6	26.6	8.2	8.2	29.2	29.2	45.4	45.3	3.1	3.1	12.6	8				
C2	Sunny	Moderate	11:40	12.5	Surface	1.0	0.3	147	29.5	29.5	8.3	8.3	16.0	16.0	141.0	140.4	9.9	7.3	4.1	6	7	825669	806930	
						1.0	0.3	154	29.4	29.4	8.3	8.3	16.1	16.1	139.7	140.4	9.8	7.3	4.1	6				
						6.3	0.5	161	27.5	27.5	8.2	8.2	24.3	24.3	69.6	69.7	4.8	7.3	8.0	7				
					Middle	6.3	0.5	172	27.5	27.5	8.2	8.2	24.4	24.4	69.8	69.7	4.8	7.3	7.8	7				
						11.5	0.5	140	26.1	26.1	8.1	8.1	29.7	29.7	54.2	54.3	3.7	3.7	16.9	8				
						11.5	0.5	145	26.1	26.1	8.1	8.1	29.7	29.7	54.3	54.3	3.7	3.7	16.7	8				
C3	Fine	Moderate	13:29	11.7	Surface	1.0	0.3	305	28.1	28.1	8.3	8.3	23.9	23.8	107.4	107.2	7.4	6.3	4.9	5	6	822128	817801	
						1.0	0.3	328	28.1	28.1	8.3	8.3	23.8	23.8	106.9	107.2	7.3	6.3	5.0	6				
						5.9	0.0	210	27.2	27.2	8.3	8.3	26.4	26.4	77.8	77.6	5.3	6.3	6.1	6				
					Middle	5.9	0.0	220	27.2	27.2	8.3	8.3	26.4	26.4	77.3	77.6	5.3	6.3	6.1	6				
						10.7	0.1	51	26.2	26.2	8.2	8.2	30.1	30.1	57.5	57.7	3.9	4.0	10.3	6				
						10.7	0.1	55	26.2	26.2	8.2	8.2	30.1	30.1	57.8	57.7	4.0	4.0	10.4	8				
IM1	Cloudy	Moderate	12:27	5.1	Surface	1.0	0.1	197	27.6	27.7	8.2	8.2	24.8	24.7	67.6	67.8	4.6	4.6	4.1	6	6	817933	807115	
						1.0	0.2	205	27.7	27.7	8.2	8.2	24.7	24.7	67.9	67.8	4.6	4.6	4.1	6				
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-
						4.1	0.1	162	27.4	27.4	8.1	8.1	26.6	26.6	63.0	63.4	4.3	4.3	11.0	7				
						4.1	0.1	174	27.4	27.4	8.1	8.1	26.6	26.6	63.7	63.4	4.3	4.3	11.0	6				
IM2	Cloudy	Moderate	12:18	7.1	Surface	1.0	0.2	143	27.6	27.6	8.1	8.1	24.8	24.7	75.1	75.1	5.1	4.6	2.7	5	6	818169	806162	
						1.0	0.2	153	27.6	27.6	8.1	8.1	24.7	24.7	75.1	75.1	5.1	4.6	2.8	6				
						3.6	0.2	141	27.0	27.0	8.2	8.2	27.2	27.2	58.7	58.7	4.0	4.6	9.5	6				
					Middle	3.6	0.3	149	27.0	27.0	8.2	8.2	27.2	27.2	58.7	58.7	4.0	4.6	10.2	7				
						6.1	0.2	132	27.0	27.0	8.1	8.1	27.6	27.6	55.5	55.6	3.8	3.8	14.8	7				
						6.1	0.2	138	27.0	27.0	8.1	8.1	27.6	27.6	55.7	55.6	3.8	3.8	14.3	7				
IM3	Sunny	Moderate	12:11	7.2	Surface	1.0	0.2	161	28.1	28.1	8.2	8.2	22.0	22.0	88.5	88.3	6.1	4.8	3.0	7	7	818769	805600	
						1.0	0.2	163	28.1	28.1	8.2	8.2	22.0	22.0	88.1	88.3	6.1	4.8	3.0	8				
						3.6	0.5	134	26.8	26.8	8.2	8.2	27.5	27.5	51.3	51.3	3.5	4.8	7.1	7				
					Middle	3.6	0.5	135	26.8	26.8	8.2	8.2	27.6	27.6	51.3	51.3	3.5	4.8	7.7	8				
						6.2	0.3	121	26.8	26.8	8.2	8.2	28.2	28.2	53.3	53.5	3.6	3.6	11.9	8				
						6.2	0.3	125	26.8	26.8	8.2	8.2	28.2	28.2	53.7	53.5	3.6	3.6	12.0	6				
IM4	Sunny	Moderate	12:02	8.0	Surface	1.0	0.7	201	29.6	29.6	8.2	8.2	13.2	13.2	107.1	105.2	7.5	5.5	2.9	4	4	819743	804608	
						1.0	0.7	212	29.6	29.6	8.2	8.2	13.2	13.2	103.2	105.2	7.3	5.5	3.3	3				
						4.0	0.5	186	26.8	26.8	8.2	8.2	28.0	28.0	53.3	53.3	3.6	5.5	9.8	4				
					Middle	4.0	0.6	187	26.8	26.8	8.2	8.2	28.1	28.0	53.2	53.3	3.6	5.5	10.3	4				
						7.0	0.3	156	26.8	26.8	8.2	8.2	28.1	28.1	53.8	54.1	3.7	3.7	11.3	5				
						7.0	0.3	158	26.8	26.8	8.2	8.2	28.1	28.1	54.3	54.1	3.7	3.7	11.3	4				
IM5	Sunny	Moderate	11:55	7.4	Surface	1.0	0.7	226	29.6	29.6	8.2	8.2	13.8	13.8	111.0	110.8	7.8	6.3	2.6	5	5	820734	804858	
						1.0	0.7	237	29.6	29.6	8.2	8.2	13.8	13.8	110.6	110.8	7.7	6.3	2.6	4				
						3.7	0.5	198	27.5	27.5	8.2	8.2	21.3	22.7	71.2	69.8	5.0	6.3	3.7	5				
					Middle	3.7	0.5	215	27.4	27.4	8.3	8.2	24.2	22.7	68.3	69.8	4.7	6.3	4.1	5				
						6.4	0.4	188	26.9	26.9	8.3	8.3	27.9	27.9	54.6	54.7	3.7	3.7	9.3	5				
						6.4	0.4	203	26.9	26.9	8.3	8.3	27.9	27.9	54.8	54.7	3.7	3.7	9.4	5				
IM6	Sunny	Moderate	11:47	7.7	Surface	1.0	0.4	237	29.7	29.8	8.2	8.2	12.5	12.5	106.4	106.5	7.5	5.8	2.6	4	5	821036	805812	
						1.0	0.4	243	29.8	29.8	8.2	8.2	12.5	12.5	106.6	106.5	7.5	5.8	2.8	5				
						3.9	0.2	245	27.2	27.2	8.3	8.3	25.9	26.0	59.8	59.7	4.1	5.8	5.8	5				
					Middle	3.9	0.2	256	27.2	27.2	8.3	8.3	26.1	26.0	59.6	59.7	4.1	5.8	6.2	6				
						6.7	0.2	192	27.0	27.1	8.3	8.3	26.9	26.9	55.8	55.9	3.8	3.8	8.3	5				
						6.7	0.2	207	27.1	27.1	8.3	8.3	26.9	26.9	56.0	55.9	3.8	3.8	8.6	6				
IM7	Sunny	Moderate	11:41	8.3	Surface	1.0	0.2	205	29.3	29.3	8.3	8.3	16.4	16.3	109.1	109.1	7.6	6.0	2.9	4	5	821360	806846	
						1.0	0.2	206	29.3	29.3	8.3	8.3	16.2	16.3	109.0	109.1	7.6	6.0	2.9	4				
						4.2	0.1	241	27.8	27.8	8.3	8.3	22.6	22.6	63.2	63.1	4.4	5.5	5.5	5				
					Middle	4.2	0.1	242	27.7	27.8	8.3	8.3	22.6	22.6	63.0	63.1	4.4	5.5	5.8	5				
						7.3	0.1	94	27.4	27.4	8.3	8.3	25.6	25.6	53.4	53.6	3.7	3.7	7.8	7				
						7.3	0.1	101	27.4	27.4	8.3	8.3	25.6	25.6	53.7	53.6	3.7	3.7	7.9	6				
IM8	Sunny	Moderate	12:00	8.3	Surface	1.0	0.1	226	29.8	29.8	8.3	8.3	16.3	16.3	159.6	159.4	11.1	7.9	3.7	5	6	821809	808160	
						1.0	0.1	233	29.8	29.8	8.3	8.3	16.3	16.3	159.2	159.4	11.0	7.9	3.7	5				
						4.2	0.1	100	27.7	27.7	8.2	8.2	23.4	23.5	67.5	67.3	4.7	6.7	6.7	7				
					Middle	4.2	0.1	107	27.7	27.7	8.2	8.2	23.5	23.5	67.0	67.3	4.6	6.7	6.7	6				
						7.3	0.2	39	27.1	27.1	8.1	8.1	25.8	25.8	53.7	53.8	3.7	3.7	9.9	7				
						7.3	0.2	40	27.1	27.1	8.1	8.1	25.8	25.8	53.9	53.8	3.7	3.7	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 **10 July 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	12:05	7.9	Surface	1.0	0.2	118	29.5	29.5	8.3	8.3	16.1	16.1	133.0	132.8	9.3	7.4	4.2	7	7	822105	808805	
						1.0	0.2	120	29.5	8.3	8.3	16.2	16.2	132.6	132.2	9.3	7.4	4.2	6					
						4.0	0.3	99	28.1	8.2	8.2	22.1	22.1	79.7	79.5	5.5	4.1	6	7					
					Middle	4.0	0.3	108	28.0	28.1	8.2	8.2	22.2	22.2	79.2	79.5	5.5	4.1	7	7				
						6.9	0.2	72	27.3	27.3	8.1	8.1	25.0	25.0	58.8	59.0	4.1	4.1	11.0	6				
						6.9	0.2	73	27.3	27.3	8.1	8.1	25.0	25.0	59.1	59.0	4.1	4.1	11.0	7				
					Bottom	1.0	0.7	112	29.1	29.1	8.3	8.3	17.0	17.0	123.2	123.2	8.6	6.5	4.8	7				
						1.0	0.7	122	29.1	29.1	8.3	8.3	17.0	17.0	123.1	123.2	8.6	6.5	4.9	7				
						3.8	0.6	110	27.5	27.5	8.1	8.1	23.9	23.9	61.8	61.8	4.3	4.1	8.6	7				
Middle	3.8	0.7	114	27.5	27.5	8.1	8.1	23.9	23.9	61.8	61.8	4.3	4.1	8.6	6									
	6.6	0.5	89	27.5	27.5	8.1	8.1	24.4	24.4	59.9	60.0	4.1	4.1	10.4	4									
	6.6	0.5	92	27.5	27.5	8.1	8.1	24.4	24.4	60.0	60.0	4.1	4.1	10.2	4									
Bottom	1.0	0.7	98	28.8	28.8	8.3	8.3	18.7	18.7	108.6	106.2	7.6	5.9	4.1	6									
	1.0	0.8	106	28.8	28.8	8.3	8.3	18.8	18.8	103.7	106.2	7.2	5.9	4.0	5									
	4.5	0.7	99	27.6	27.6	8.1	8.1	23.9	23.9	64.2	64.2	4.4	4.3	9.2	5									
Middle	4.5	0.7	104	27.6	27.6	8.1	8.1	23.9	23.9	64.2	64.2	4.4	4.3	9.3	4									
	8.0	0.5	98	27.5	27.5	8.1	8.1	24.4	24.4	62.3	62.4	4.3	4.3	13.3	4									
	8.0	0.5	102	27.5	27.5	8.1	8.1	24.4	24.4	62.4	62.4	4.3	4.3	13.4	5									
Bottom	1.0	0.9	118	29.6	29.6	8.3	8.3	17.3	17.2	160.6	160.1	11.1	7.6	3.2	7									
	1.0	0.9	118	29.6	29.6	8.3	8.3	17.2	17.2	159.5	160.1	11.0	7.6	3.3	8									
	4.8	0.7	118	27.5	27.5	8.1	8.1	24.2	24.2	60.9	61.1	4.2	4.6	12.7	7									
Middle	4.8	0.7	126	27.5	27.5	8.1	8.1	24.2	24.2	61.2	61.1	4.2	4.6	12.8	6									
	8.5	0.2	97	27.3	27.3	8.2	8.2	25.4	25.5	66.1	66.2	4.6	4.6	13.2	5									
	8.5	0.2	98	27.2	27.3	8.2	8.2	25.5	25.5	66.2	66.2	4.6	4.6	13.1	6									
Bottom	1.0	-	-	29.4	29.4	8.3	8.3	18.4	18.4	137.4	137.4	9.5	9.5	4.2	7									
	1.0	-	-	29.4	29.4	8.3	8.3	18.4	18.4	137.3	137.4	9.5	9.5	4.2	8									
	2.8	-	-	-	-	-	-	-	-	-	-	-	9.5	4.2	8									
Middle	2.8	-	-	-	-	-	-	-	-	-	-	-	-	-	4.2	8								
	4.6	-	-	29.3	29.3	8.3	8.3	19.2	19.2	130.7	130.7	9.0	9.0	4.2	8									
	4.6	-	-	29.3	29.3	8.3	8.3	19.2	19.2	130.6	130.7	9.0	9.0	4.2	7									
Bottom	1.0	0.4	88	29.8	29.8	8.3	8.3	17.6	17.6	157.7	157.3	10.9	10.9	2.7	5									
	1.0	0.4	94	29.8	29.8	8.3	8.3	17.6	17.6	156.8	157.3	10.8	10.9	2.8	5									
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.6	6								
Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	821452	814147						
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	821452	814147						
	3.2	0.3	86	28.5	28.5	8.3	8.3	20.8	20.8	110.8	110.6	7.7	7.7	4.5	6									
Bottom	3.2	0.3	87	28.5	28.5	8.3	8.3	20.8	20.8	110.4	110.6	7.6	7.7	4.5	6									
	1.0	0.2	190	30.0	30.0	8.3	8.3	16.0	16.0	164.4	164.0	11.4	8.0	3.3	6									
	1.0	0.2	193	30.0	30.0	8.3	8.3	16.0	16.0	163.6	164.0	11.3	8.0	3.3	5									
Middle	4.7	0.1	166	27.7	27.7	8.2	8.2	23.3	23.3	67.5	67.5	4.7	3.7	6.5	5									
	4.7	0.1	169	27.7	27.7	8.2	8.2	23.3	23.3	67.5	67.5	4.7	3.7	6.5	4									
	8.4	0.2	31	27.0	27.0	8.1	8.1	26.3	26.3	53.7	53.8	3.7	3.7	8.8	5									
Bottom	8.4	0.2	33	27.0	27.0	8.1	8.1	26.3	26.3	53.8	53.8	3.7	3.7	8.9	4									
	1.0	0.3	258	28.9	28.9	8.3	8.3	19.6	19.6	108.6	107.9	7.5	5.6	5.7	9									
	1.0	0.4	269	28.8	28.9	8.3	8.3	19.7	19.7	107.1	107.9	7.4	5.6	6.0	8									
Middle	4.4	0.2	267	27.4	27.4	8.3	8.3	25.5	25.6	53.7	53.8	3.7	3.7	8.1	8									
	4.4	0.2	271	27.3	27.4	8.3	8.3	25.6	25.6	53.8	53.8	3.7	3.7	8.3	9									
	7.7	0.1	262	27.2	27.3	8.3	8.3	26.5	26.5	51.5	51.7	3.5	3.6	10.4	10									
Bottom	7.7	0.1	283	27.3	27.3	8.3	8.3	26.5	26.5	51.9	51.7	3.6	3.6	10.4	11									
	1.0	0.2	317	29.5	29.5	8.3	8.3	18.5	18.5	121.0	120.7	8.3	8.3	7.3	8									
	1.0	0.2	325	29.4	29.5	8.3	8.3	18.5	18.5	120.4	120.7	8.3	8.3	7.1	8									
Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.8	9								
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	816580	810673							
	2.8	0.1	307	29.4	29.5	8.3	8.3	20.1	20.1	97.9	99.1	6.7	6.8	10.3	10									
Bottom	2.8	0.1	335	29.5	29.5	8.3	8.3	20.1	20.1	100.3	99.1	6.8	6.8	10.4	11									
	1.0	0.2	351	28.8	28.8	8.3	8.3	20.9	20.9	101.2	101.0	7.0	7.0	12.7	11									
	1.0	0.2	355	28.7	28.8	8.3	8.3	20.9	20.9	100.7	101.0	6.9	7.0	12.3	12									
Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13.9	12								
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	817941	814747							
	3.0	0.0	302	28.1	28.1	8.3	8.3	23.3	23.4	82.7	82.9	5.7	5.7	15.5	11									
Bottom	3.0	0.0	306	28.1	28.1	8.3	8.3	23.4	23.4	83.1	82.9	5.7	5.7	15.3	12									
	1.0	0.6	64	28.9	28.9	8.3	8.3	21.0	21.0	138.8	138.8	9.5	8.7	4.3	7									
	1.0	0.6	66	28.9	28.9	8.3	8.3	21.0	21.0	138.7	138.8	9.5	8.7	4.3	7									
Middle	7.2	0.1	79	28.1	28.1	8.3	8.3	23.0	23.0	115.6	115.6	7.9	7.6	3.5	7									
	7.2	0.1	80	28.1	28.1	8.3	8.3	22.9	23.0	115.5	115.6	7.9	7.6	3.6	7									
	13.4	0.1	100	28.0	28.0	8.3	8.3	23.5	23.5	110.3	110.3	7.6	7.6	3.3	7									
Bottom	13.4	0.1	107	28.0	28.0	8.3	8.3	23.5	23.5	110.3	110.3	7.6	7.6	3.3	6									
	1.0	-	-	29.5	29.5	8.3	8.3	18.3	18.3	142.5	142.6	9.8	9.8	4.0	7									
	1.0	-	-	29.5	29.5	8.3	8.3	18.3	18.3	142.6	142.6	9.8	9.8	3.9	6									
Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.4	6								
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	820382	811630							
	3.4	-	-	29.7	29.7	8.3	8.3	18.9	18.9	142.1	142.0	9.7	9.7	4.7	5									
Bottom	3.4	-	-	29.7	29.7	8.3	8.3	18.9	18.9	141.9	142.0	9.7	9.7	4.9	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 10 July 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	Moderate	20:03	8.5	Surface	1.0	0.4	34	28.3	28.3	7.7	7.7	19.0	19.0	77.9	77.9	5.5	4.1	3.0	5	5	815643	804244			
						1.0	0.4	35	28.3	7.7	7.7	19.0	19.0	77.8	77.9	5.5	4.1	3.0	6							
					Middle	4.3	0.3	34	26.3	26.3	7.6	7.6	29.7	29.7	38.5	38.5	2.6	2.6	7.4	5				5		
						4.3	0.3	36	26.3	26.3	7.6	7.6	29.7	29.7	38.5	38.5	2.6	2.6	7.4	5						
					Bottom	7.5	0.3	50	26.1	26.1	7.6	7.6	30.4	30.4	40.7	40.9	2.8	2.8	14.9	5				4		
						7.5	0.3	54	26.1	26.1	7.6	7.6	30.4	30.4	41.1	40.9	2.8	2.8	15.3	4						
C2	Fine	Moderate	22:20	12.2	Surface	1.0	0.2	113	28.9	28.9	8.3	8.3	17.0	17.0	109.1	109.1	7.7	6.3	4.3	4	4	825686	806964			
						1.0	0.2	119	28.9	28.9	8.3	8.3	17.0	17.0	109.1	109.1	7.7	6.3	4.3	4						
					Middle	6.1	0.2	145	27.9	27.9	8.2	8.2	22.4	22.4	69.2	69.2	4.8	4.8	11.6	4				4		
						6.1	0.2	149	27.9	27.9	8.2	8.2	22.4	22.4	69.1	69.1	4.8	4.8	11.4	4						
					Bottom	11.2	0.2	179	26.3	26.3	8.1	8.1	28.8	28.8	55.9	56.0	3.8	3.8	12.6	4				4		
						11.2	0.2	179	26.3	26.3	8.1	8.1	28.9	28.9	56.0	56.0	3.8	3.8	12.5	4						
C3	Fine	Moderate	19:24	12.3	Surface	1.0	0.5	240	28.0	28.0	8.3	8.3	22.8	22.8	100.9	101.0	7.0	5.9	2.7	5	5	822107	817806			
						1.0	0.5	250	28.0	28.0	8.3	8.3	22.8	22.8	101.1	101.1	7.0	5.9	2.7	5						
					Middle	6.2	0.6	260	26.6	26.6	8.2	8.2	28.6	28.6	69.3	69.1	4.7	4.7	2.8	5				4		
						6.2	0.6	283	26.6	26.6	8.2	8.2	28.6	28.6	69.9	69.1	4.7	4.7	2.9	5						
					Bottom	11.3	0.5	280	25.7	25.7	8.1	8.1	31.6	31.6	50.0	50.1	3.4	3.4	8.1	6				6		
						11.3	0.6	282	25.7	25.7	8.1	8.1	31.6	31.6	50.2	50.1	3.4	3.4	8.2	6						
IM1	Sunny	Moderate	20:25	5.6	Surface	1.0	0.1	47	28.7	28.7	7.8	7.8	15.2	15.2	95.4	95.3	6.8	6.8	2.9	3	4	817952	807124			
						1.0	0.1	50	28.7	28.7	7.8	7.8	15.2	15.2	95.2	95.3	6.8	6.8	2.9	3						
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	3
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	
					Bottom	4.6	0.1	42	28.2	28.2	7.8	7.8	20.7	20.7	81.4	81.8	5.7	5.7	4.6	4				4		
						4.6	0.1	42	28.2	28.2	7.8	7.8	20.7	20.7	82.1	81.8	5.7	5.7	4.6	5						
IM2	Sunny	Moderate	20:34	7.7	Surface	1.0	0.1	350	28.8	28.8	7.8	7.7	17.3	17.3	85.4	85.3	6.0	5.3	2.8	4	3	818181	806147			
						1.0	0.1	322	28.8	28.8	7.7	7.7	17.2	17.2	85.2	85.3	6.0	5.3	2.8	3						
					Middle	3.9	0.2	41	27.9	27.9	7.7	7.7	23.0	23.0	66.7	66.7	4.6	4.6	3.3	3				5		
						3.9	0.2	41	27.8	27.8	7.7	7.7	23.0	23.0	66.6	66.7	4.6	4.6	3.3	3						
					Bottom	6.7	0.1	65	27.2	27.2	7.7	7.7	25.8	25.8	54.2	54.2	3.7	3.7	10.2	3				3		
						6.7	0.2	65	27.2	27.2	7.7	7.7	25.8	25.8	54.1	54.2	3.7	3.7	10.0	3						
IM3	Sunny	Moderate	20:40	7.8	Surface	1.0	0.2	322	28.9	28.9	7.7	7.7	17.0	17.0	83.6	83.6	5.9	5.2	2.5	4	4	818762	805574			
						1.0	0.2	350	28.8	28.8	7.7	7.7	17.0	17.0	83.5	83.6	5.9	5.2	2.5	4						
					Middle	3.9	0.3	4	27.6	27.6	7.7	7.7	23.9	23.9	63.3	63.3	4.4	4.4	3.4	4				4		
						3.9	0.3	4	27.6	27.6	7.7	7.7	24.0	24.0	63.2	63.3	4.4	4.4	3.7	4						
					Bottom	6.8	0.1	358	27.1	27.1	7.7	7.7	26.1	26.1	54.0	54.2	3.7	3.7	8.3	4				4		
						6.8	0.1	329	27.1	27.1	7.7	7.7	26.1	26.1	54.3	54.2	3.7	3.7	8.6	4						
IM4	Sunny	Moderate	20:50	8.5	Surface	1.0	0.5	352	28.7	28.7	7.8	7.8	16.2	16.2	85.1	85.0	6.0	4.7	2.6	4	4	819715	804630			
						1.0	0.5	324	28.7	28.7	7.8	7.8	16.2	16.2	84.9	85.0	6.0	4.7	2.6	4						
					Middle	4.3	0.4	21	27.0	27.0	7.7	7.7	26.6	26.6	49.8	49.8	3.4	3.4	7.2	3				6		
						4.3	0.4	22	27.0	27.0	7.7	7.7	26.6	26.6	49.7	49.8	3.4	3.4	7.1	3						
					Bottom	7.5	0.3	13	27.0	27.0	7.7	7.7	26.6	26.6	49.2	49.4	3.4	3.4	9.8	4				3		
						7.5	0.3	13	27.0	27.0	7.7	7.7	26.6	26.6	49.5	49.4	3.4	3.4	10.0	3						
IM5	Sunny	Moderate	20:58	7.8	Surface	1.0	0.6	0	28.4	28.4	7.8	7.8	21.4	21.4	76.2	76.4	5.3	4.9	2.6	5	5	820727	804875			
						1.0	0.7	0	28.4	28.4	7.8	7.8	21.4	21.4	76.6	76.4	5.3	4.9	2.6	4						
					Middle	3.9	0.5	22	27.0	27.0	7.7	7.7	26.4	26.5	65.2	65.2	4.5	4.5	7.8	4				7		
						3.9	0.5	22	27.0	27.0	7.7	7.7	26.5	26.5	65.2	65.2	4.4	4.4	8.2	4						
					Bottom	6.8	0.3	33	27.0	27.0	7.7	7.7	26.7	26.7	50.7	50.9	3.5	3.5	11.8	5				5		
						6.8	0.3	34	27.0	27.0	7.7	7.7	26.7	26.7	51.0	50.9	3.5	3.5	11.6	5						
IM6	Sunny	Moderate	21:07	8.0	Surface	1.0	0.1	315	28.9	28.9	7.9	7.9	17.5	17.5	94.8	94.5	6.6	5.5	2.8	6	5	821083	805841			
						1.0	0.2	323	28.9	28.9	7.9	7.9	17.5	17.5	94.2	94.5	6.6	5.5	2.8	5						
					Middle	4.0	0.2	352	27.7	27.7	7.8	7.8	23.5	23.5	62.0	62.0	4.3	4.3	6.4	6				6		
						4.0	0.2	324	27.7	27.7	7.8	7.8	23.5	23.5	62.0	62.0	4.3	4.3	6.4	6						
					Bottom	7.0	0.2	71	27.4	27.4	7.8	7.8	24.9	24.9	56.8	57.0	3.9	3.9	10.3	6				4		
						7.0	0.2	72	27.4	27.4	7.8	7.8	24.9	24.9	57.2	57.0	3.9	3.9	10.2	4						
IM7	Sunny	Moderate	21:17	7.4	Surface	1.0	0.2	242	28.7	28.7	7.8	7.8	15.2	15.2	89.0	88.7	6.3	5.6	4.7	4	4	821333	806857			
						1.0	0.2	257	28.6	28.6	7.8	7.8	15.3	15.3	88.4	88.7	6.3	5.6	4.7	5						
					Middle	3.7	0.0	100	28.1	28.1	7.7	7.7	20.2	20.2	70.0	69.8	4.9	4.9	10.2	4				9		
						3.7	0.0	107	28.0	28.0	7.7	7.7	20.2	20.2	69.6	69.8	4.9	4.9	10.7	2						
					Bottom	6.4	0.2	102	27.4	27.4	7.7	7.7	24.7	24.7	51.7	51.8	3.6	3.6	11.4	3				4		
						6.4	0.2	107	27.4	27.4	7.7	7.7	24.7	24.7	51.8	51.8	3.6	3.6	11.5	4						
IM8	Fine	Moderate	21:55	8.8	Surface	1.0	0.4	72	28.6	28.6	8.3	8.3	17.7	17.7	91.5	91.6	6.4	5.9	5.6	4	4	821844	808124			
						1.0	0.4	79	28.6	28.6	8.3	8.3	17.7	17.7	91.6	91.6	6.4	5.9	5.6	4						
					Middle	4.4	0.3	65	28.2	28.2	8.2	8.2	20.3	20.3	77.9	77.9	5.4	5.4	7.1	4				5		
						4.4	0.3	69	28.2	28.2	8.2	8.2	20.3	20.3	77.8	77.9	5.4	5.4	7.1	5						
					Bottom	7.8	0.2	80	27.0	27.0	8.1	8.1	26.6	26.6	50.5	50.7	3.5	3.5	16.4	5				4		
						7.8	0.3	85	27.0	27.0	8.1	8.1	26.6	26.6	50.8	50.7	3.5	3.5	16.6	4						

DA: Depth-Averaged

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

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

**Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring**

Water Quality Monitoring Results on 10 July 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	21:48	8.6	Surface	1.0	0.4	69	28.8	28.8	8.3	8.3	17.5	17.5	97.8	97.5	6.9	6.3	3.9	6	6	822111	808804	
						1.0	0.4	72	28.8	8.3	8.3	17.5	17.5	97.1	97.5	6.8	6.3	3.9	7					
						4.3	0.4	69	28.5	8.2	8.2	19.6	19.6	81.9	81.8	5.7	6.3	4.1	5					
					Middle	4.3	0.5	75	28.5	28.5	8.2	8.2	19.6	19.6	81.6	81.8	5.7	6.3	4.1	6				
						7.6	0.4	56	27.4	27.4	8.0	8.0	24.8	24.8	51.4	51.5	3.5	3.6	11.7	5				
						7.6	0.4	57	27.4	27.4	8.0	8.0	24.8	24.8	51.5	51.5	3.6	3.6	11.5	6				
					Bottom	1.0	0.2	71	28.9	28.9	8.3	8.3	19.3	19.3	103.3	103.2	7.2	6.6	4.0	5				
						1.0	0.2	74	28.9	28.9	8.3	8.3	19.3	19.3	103.0	103.2	7.1	6.6	3.9	4				
						4.4	0.4	71	28.6	28.6	8.3	8.3	19.9	19.9	88.2	87.9	6.1	6.6	4.3	5				
Middle	4.4	0.4	72	28.6	28.6	8.3	8.3	19.9	19.9	87.6	87.9	6.1	6.6	4.4	4									
	7.8	0.3	74	27.7	27.7	8.2	8.2	24.0	24.0	70.7	70.9	4.9	4.9	5.2	5									
	7.8	0.4	75	27.7	27.7	8.2	8.2	24.0	24.0	71.0	70.9	4.9	4.9	5.2	5									
IM11	Fine	Moderate	20:38	9.1	Surface	1.0	0.4	233	28.7	28.7	8.3	8.3	19.1	19.1	111.4	111.3	7.8	7.3	3.3	4	5	822048	811454	
						1.0	0.4	245	28.7	28.7	8.3	8.3	19.1	19.1	111.1	111.3	7.7	7.3	3.2	4				
						4.6	0.3	241	28.2	28.2	8.3	8.3	21.7	21.7	97.6	97.4	6.8	6.6	3.1	5				
					Middle	4.6	0.3	244	28.2	28.2	8.3	8.3	21.7	21.7	97.2	97.4	6.7	6.6	3.2	6				
						8.1	0.1	5	26.8	26.8	8.2	8.2	27.4	27.4	64.8	64.8	4.4	4.5	9.8	6				
						8.1	0.1	5	26.8	26.8	8.2	8.2	27.4	27.4	64.8	64.8	4.5	4.5	9.4	6				
					Bottom	1.0	0.3	235	28.5	28.5	8.3	8.3	20.2	20.2	108.0	108.1	7.5	6.3	3.5	4				
						1.0	0.3	255	28.5	28.5	8.3	8.3	20.2	20.2	108.1	108.1	7.5	6.3	3.5	5				
						4.9	0.2	273	27.4	27.4	8.2	8.2	25.1	25.2	74.8	74.7	5.1	6.3	6.8	5				
Middle	4.9	0.2	295	27.4	27.4	8.2	8.2	25.2	25.2	74.6	74.7	5.1	6.3	6.8	5									
	8.8	0.0	65	26.7	26.7	8.2	8.2	28.0	28.0	64.6	64.7	4.4	4.4	9.5	5									
	8.8	0.0	69	26.7	26.7	8.2	8.2	28.0	28.0	64.7	64.7	4.4	4.4	9.5	6									
SR1A	Fine	Calm	19:59	5.5	Surface	1.0	-	-	29.0	29.0	8.3	8.3	17.7	17.7	103.2	103.1	7.2	7.2	3.9	6	7	819980	812665	
						1.0	-	-	29.0	29.0	8.3	8.3	17.7	17.7	103.0	103.1	7.2	7.2	3.9	7				
						2.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-
					Middle	2.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-
						4.5	-	-	28.6	28.6	8.3	8.3	20.6	20.6	89.7	89.7	6.2	6.2	5.1	6				
						4.5	-	-	28.6	28.6	8.3	8.3	20.6	20.6	89.6	89.6	6.2	6.2	5.0	7				
					Bottom	1.0	0.6	295	28.7	28.7	8.3	8.3	19.1	19.2	103.6	103.3	7.2	7.2	4.4	5				
						1.0	0.6	296	28.7	28.7	8.3	8.3	19.2	19.2	103.0	103.3	7.2	7.2	4.4	5				
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
	3.8	0.2	213	26.2	26.3	8.2	8.2	29.6	29.6	60.1	60.2	4.1	4.1	14.3	4									
	3.8	0.2	227	26.3	26.3	8.2	8.2	29.6	29.6	60.3	60.2	4.1	4.1	14.0	4									
SR3	Fine	Moderate	22:01	10.0	Surface	1.0	0.3	165	28.7	28.7	8.3	8.3	16.9	16.9	98.3	98.1	6.9	5.9	4.9	5	5	822152	807550	
						1.0	0.3	174	28.7	28.7	8.3	8.3	16.9	16.9	97.8	98.1	6.9	5.9	4.9	5				
						5.0	0.2	166	28.0	28.0	8.2	8.2	22.1	22.1	71.2	71.0	4.9	6.3	9.8	4				
					Middle	5.0	0.3	174	28.0	28.0	8.2	8.2	22.2	22.2	70.8	71.0	4.9	6.3	10.2	5				
						9.0	0.3	90	27.1	27.1	8.0	8.0	26.3	26.3	48.7	48.9	3.4	3.4	20.7	4				
						9.0	0.3	92	27.1	27.1	8.0	8.0	26.3	26.3	49.1	48.9	3.4	3.4	20.7	4				
					Bottom	1.0	0.3	60	28.8	28.8	7.8	7.8	15.6	15.6	91.9	91.8	6.5	5.9	2.7	3				
						1.0	0.3	60	28.8	28.8	7.8	7.8	15.6	15.6	91.6	91.8	6.5	5.9	2.9	4				
						4.4	0.2	90	28.3	28.3	7.7	7.7	20.3	20.3	74.1	74.0	5.2	6.0	5.0	3				
Middle	4.4	0.2	91	28.2	28.3	7.7	7.7	20.3	20.3	73.8	74.0	5.2	6.0	5.3	4									
	7.8	0.3	70	26.9	26.9	7.6	7.6	27.3	27.3	54.8	54.9	3.7	3.7	10.2	3									
	7.8	0.3	70	26.9	26.9	7.6	7.6	27.3	27.3	54.9	54.9	3.7	3.7	10.2	3									
SR5A	Sunny	Moderate	19:21	3.8	Surface	1.0	0.1	323	29.2	29.2	7.8	7.8	19.6	19.7	98.9	98.9	6.8	6.8	7.2	6	6	816608	810684	
						1.0	0.1	343	29.2	29.2	7.8	7.8	19.7	19.7	98.8	98.9	6.8	6.8	8.1	5				
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-
						2.8	0.0	304	29.0	29.0	7.8	7.8	20.1	20.1	92.0	91.9	6.3	6.3	9.8	6				
						2.8	0.0	311	29.0	29.0	7.8	7.8	20.1	20.1	91.8	91.9	6.3	6.3	9.7	5				
					Bottom	1.0	0.0	294	29.1	29.1	7.9	7.9	18.1	18.1	103.1	103.0	7.2	7.2	4.0	5				
						1.0	0.0	294	29.0	29.1	7.9	7.9	18.1	18.1	102.9	103.0	7.2	7.2	4.2	6				
						-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
	3.5	0.0	279	28.6	28.6	7.9	7.9	20.3	20.3	90.1	90.1	6.2	6.2	5.7	6									
	3.5	0.0	304	28.6	28.6	7.9	7.9	20.3	20.3	90.1	90.1	6.2	6.2	5.7	6									
SR7	Fine	Moderate	18:56	14.6	Surface	1.0	0.3	358	27.3	27.3	8.3	8.3	25.4	25.4	87.3	87.4	6.0	5.5	2.6	4	4	823612	823726	
						1.0	0.3	329	27.3	27.3	8.3	8.3	25.4	25.4	87.4	87.4	6.0	5.5	2.6	3				
						7.3	0.2	65	26.7	26.7	8.2	8.2	28.1	28.1	72.2	72.2	4.9	3.0	2.9	3				
					Middle	7.3	0.2	69	26.7	26.7	8.2	8.2	28.1	28.1	72.2	72.2	4.9	3.0	2.9	4				
						13.6	0.2	43	25.8	25.8	8.1	8.1	31.2	31.2	53.2	53.3	3.6	3.6	3.5	4				
						13.6	0.3	44	25.8	25.8	8.1	8.1	31.2	31.2	53.4	53.3	3.6	3.6	3.4	5				
					Bottom	1.0	-	-	28.7	28.7	8.3	8.3	19.7	19.7	99.7	99.6	6.9	6.9	4.1	5				
						1.0	-	-	28.7	28.7	8.3	8.3	19.8	19.7	99.4	99.6	6.9	6.9	4.2	5				
						-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
	4.2	-	-	27.9	27.9	8.2	8.2	23.2	23.2	80.2	80.2	5.5	5.5	12.0	5									
	4.2	-	-	27.9	27.9	8.2	8.2	23.2	23.2	80.1	80.2	5.5	5.5	12.1	6									
Bottom	1.0	-	-	28.7	28.7	8.3	8.3	19.7	19.7	99.7	99.6	6.9	6.9	4.1	5									
	1.0	-	-	28.7	28.7	8.3	8.3	19.8	19.7	99.4	99.6	6.9	6.9	4.2	5									
	-	-	-	-	-	-	-	-	-	-	-	-	-	-										
Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
	4.2	-	-	27.9	27.9	8.2	8.2	23.2	23.2	80.2	80.2	5.5	5.5	12.0	5									
	4.2	-	-	27.9	27.9	8.2	8.2	23.2	23.2	80.1	80.2	5.5	5.5	12.1	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 13 July 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	14:49	8.8	Surface	1.0	0.5	234	30.3	30.3	7.7	7.7	22.2	22.2	176.0	176.0	11.7	8.3	1.6	6	8	815631	804244	
						1.0	0.6	249	30.3	7.7	7.7	22.2	22.2	176.0	11.7	1.7	6							
						4.4	0.6	203	27.9	7.8	7.8	26.2	26.3	71.8	71.8	4.9	4.6	8						
						4.4	0.6	221	27.8	7.9	7.9	26.3	26.3	71.7	71.7	4.9	5.1	9						
					Bottom	7.8	0.4	211	27.4	27.4	7.8	7.8	29.4	29.4	56.6	56.6	3.8	3.8	13.5	10				
						7.8	0.4	216	27.4	27.4	7.8	7.8	29.4	29.4	56.5	56.5	3.8	3.8	14.2	9				
						1.0	0.6	160	28.9	28.9	8.3	8.3	19.0	19.0	105.3	104.8	7.3	6.8	6					
						1.0	0.6	168	28.9	28.9	8.3	8.3	19.0	19.0	104.3	104.8	7.2	6.8	7					
Middle	6.0	0.4	158	28.4	28.4	8.2	8.2	21.8	21.9	89.1	88.4	6.1	6.1	8.4	7									
	6.0	0.4	170	28.4	28.4	8.2	8.2	21.9	21.9	87.7	88.4	6.0	6.0	8.7	8									
	11.0	0.3	137	28.9	29.0	8.2	8.2	23.7	23.5	83.9	85.1	5.7	5.8	9.3	9									
	11.0	0.4	144	29.0	29.0	8.2	8.2	23.3	23.5	86.3	85.1	5.8	5.8	9.0	10									
C3	Sunny	Moderate	15:25	12.0	Surface	1.0	0.3	78	28.3	28.3	8.4	8.4	24.8	24.9	111.9	110.0	7.6	6.8	6.0	6	6	822110	817779	
						1.0	0.3	79	28.2	28.3	8.4	8.4	24.9	24.9	108.1	110.0	7.3	6.0	6					
						6.0	0.1	33	27.3	27.3	8.3	8.3	25.9	25.9	91.0	90.0	6.2	6.7	7					
						6.0	0.1	33	27.2	27.3	8.3	8.3	26.0	25.9	89.0	90.0	6.1	6.8	6					
					Middle	11.0	0.2	26	27.3	27.3	8.2	8.2	29.0	29.0	73.3	75.4	4.9	5.1	7.1	6				
						11.0	0.3	28	27.3	27.3	8.2	8.2	28.9	29.0	77.5	75.4	5.2	5.1	7.0	7				
						1.0	0.0	295	30.2	30.3	7.8	7.8	21.9	21.9	178.3	178.6	11.9	11.9	1.9	5				
						1.0	0.0	323	30.3	30.3	7.7	7.7	21.9	21.9	178.8	178.6	11.9	11.9	1.9	5				
Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	6	817943	807143			
	3.8	0.1	141	28.5	28.5	7.8	7.8	25.1	25.1	75.2	75.3	5.1	5.1	10.1	7									
	3.8	0.1	153	28.5	28.5	7.7	7.7	25.1	25.1	75.4	75.3	5.1	5.1	10.6	6									
	1.0	0.3	180	30.4	30.4	8.0	8.0	21.6	21.6	170.3	169.6	11.4	8.0	1.6	8									
Middle	1.0	0.3	188	30.4	30.4	8.0	8.0	21.6	21.6	168.8	169.6	11.3	8.0	1.6	9									
	3.5	0.2	140	28.1	28.1	8.0	8.0	26.0	26.1	69.4	69.3	4.7	4.7	12.5	6									
	3.5	0.3	143	28.1	28.1	8.0	8.0	26.1	26.1	69.1	69.3	4.7	4.7	12.8	6									
	6.0	0.2	136	28.3	28.4	8.0	8.0	26.2	26.2	69.4	70.0	4.7	4.7	11.4	6									
Bottom	6.0	0.2	145	28.4	28.4	8.0	8.0	26.1	26.2	70.5	70.0	4.7	4.7	11.4	5									
	1.0	0.2	150	28.5	28.5	8.0	8.0	23.9	23.8	103.4	103.4	7.0	5.8	3.2	15									
	1.0	0.2	160	28.4	28.5	8.0	8.0	23.8	23.8	103.4	103.4	7.0	5.8	3.3	14									
	3.7	0.3	150	28.2	28.2	7.9	7.9	25.5	25.5	68.7	68.4	4.7	4.7	4.4	7									
Middle	3.7	0.3	160	28.2	28.2	7.9	7.9	25.6	25.5	68.1	68.4	4.6	4.6	4.4	6									
	6.3	0.3	119	28.1	28.1	7.9	7.9	26.8	26.8	67.6	67.9	4.6	4.6	13.0	8									
	6.3	0.3	120	28.1	28.1	7.9	7.9	26.8	26.8	68.1	67.9	4.6	4.6	13.8	7									
	1.0	0.4	192	28.1	28.1	7.8	7.8	25.6	25.6	71.5	71.5	4.8	4.5	10.9	19									
Bottom	1.0	0.4	195	28.1	28.1	7.7	7.7	27.3	27.3	71.4	71.5	4.8	4.5	11.0	17									
	4.1	0.3	182	27.7	27.7	7.7	7.7	27.3	27.3	59.9	60.0	4.1	4.1	11.4	13									
	4.1	0.3	191	27.7	27.7	7.7	7.7	27.3	27.3	60.0	60.0	4.1	4.1	11.6	12									
	7.2	0.3	179	27.8	27.9	7.7	7.8	27.3	27.3	60.6	60.8	4.1	4.1	12.4	10									
Middle	7.2	0.3	181	27.9	27.9	7.8	7.8	27.3	27.3	61.0	60.8	4.1	4.1	12.5	10									
	1.0	0.5	230	28.9	28.9	8.0	8.0	22.4	22.4	102.6	102.7	7.0	6.1	3.6	5									
	1.0	0.5	241	28.9	28.9	8.0	8.0	22.4	22.4	102.7	102.7	7.0	6.1	3.7	5									
	4.1	0.4	195	28.0	28.0	8.0	8.0	25.8	25.7	75.1	75.1	5.1	5.1	7.6	5									
Bottom	4.1	0.5	211	28.0	28.0	8.0	8.0	25.7	25.7	75.1	75.1	5.1	5.1	8.6	6									
	7.2	0.3	178	27.8	27.9	7.9	7.9	27.1	27.1	63.2	63.3	4.3	4.3	15.3	6									
	7.2	0.3	184	27.9	27.9	7.9	7.9	27.1	27.1	63.3	63.3	4.3	4.3	15.4	6									
	1.0	0.3	241	29.1	29.1	7.8	7.8	21.5	21.4	101.2	101.7	6.9	5.6	4.6	6									
Middle	1.0	0.3	258	29.1	29.1	7.8	7.8	21.4	21.4	102.2	101.7	7.0	5.6	4.5	6									
	4.0	0.3	180	27.9	28.0	7.7	7.7	25.8	25.8	62.6	62.6	4.3	4.3	12.6	8									
	4.0	0.3	190	28.0	28.0	7.7	7.7	25.9	25.8	62.5	62.6	4.2	4.2	13.5	7									
	6.9	0.2	195	28.0	28.1	7.8	7.8	25.8	25.8	62.8	62.9	4.3	4.3	15.5	10									
Bottom	6.9	0.2	203	28.1	28.1	7.7	7.7	25.8	25.8	62.9	62.9	4.3	4.3	15.6	8									
	1.0	0.3	229	28.8	28.8	7.9	7.9	20.7	20.7	100.6	99.8	6.9	6.0	5.6	6									
	1.0	0.3	237	28.7	28.8	7.8	7.8	20.7	20.7	98.9	99.8	6.8	6.0	5.8	6									
	4.0	0.1	145	28.4	28.4	7.8	7.8	24.1	24.2	76.5	76.2	5.2	4.5	7.4	6									
Middle	4.0	0.1	157	28.3	28.4	7.7	7.7	24.4	24.2	75.9	76.2	5.2	4.5	7.4	6									
	7.0	0.2	114	28.2	28.2	7.7	7.7	25.0	25.0	66.8	66.9	4.5	4.5	11.6	9									
	7.0	0.2	124	28.2	28.2	7.7	7.7	25.0	25.0	67.0	66.9	4.5	4.5	11.5	8									
	1.0	0.1	90	30.1	30.1	8.3	8.3	20.6	20.6	142.1	141.7	9.6	7.9	5.6	7									
Bottom	1.0	0.1	96	30.1	30.1	8.3	8.3	20.7	20.7	141.2	141.7	9.5	7.9	5.8	8									
	4.0	0.1	140	28.4	28.4	8.2	8.2	22.3	22.3	91.1	90.7	6.3	7.2	6										
	4.0	0.1	140	28.3	28.4	8.2	8.2	22.3	22.3	90.3	90.7	6.2	7.3	7										
	7.0	0.2	138	28.1	28.1	8.2	8.2	24.8	24.7	78.9	79.1	5.4	5.4	8.7	6									
Middle	7.0	0.2	141	28.1	28.1	8.2	8.2	24.7	24.7	79.2	79.1	5.4	5.4	8.7	6									

DA: Depth-Averaged

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

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

**Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring**

Water Quality Monitoring Results on 13 July 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	13:58	7.8	Surface	1.0	0.2	109	29.2	29.1	8.3	8.3	20.8	20.8	144.4	143.9	9.9	8.4	5.8	6	6	822101	808817				
						1.0	0.2	118	29.0	8.3	8.3	20.9	20.9	143.4	143.9	9.8	8.4	5.6	6								
						3.9	0.2	129	28.4	8.4	8.4	21.9	22.0	102.4	99.0	7.1	8.4	6.7	6								
					Middle	3.9	0.2	132	28.3	28.4	8.4	8.4	22.0	22.0	95.6	83.8	6.6	6.6	6.6	6				6			
						6.8	0.3	123	28.1	28.1	8.2	8.2	24.9	24.9	81.5	83.8	5.5	5.7	7.5	6				6			
						6.8	0.3	125	28.1	28.1	8.2	8.2	24.9	24.9	86.1	83.8	5.9	5.7	7.6	7				6			
IM10	Sunny	Moderate	14:06	8.2	Surface	1.0	0.9	96	29.2	29.1	8.4	8.4	20.3	20.3	157.7	155.8	10.8	8.2	5.1	7	6	822395	809802				
						1.0	1.0	101	29.0	29.0	8.3	8.3	20.3	20.3	153.9	155.8	10.6	8.2	5.1	6							
						4.1	0.7	94	28.4	28.4	8.2	8.2	23.6	23.6	84.6	83.4	5.8	8.2	6.3	7							
					Middle	4.1	0.8	100	28.4	28.4	8.2	8.2	23.6	23.6	82.2	83.4	5.6	6.3	6.3	7				6			
						7.2	0.5	84	28.3	28.3	8.2	8.2	23.7	23.7	82.8	83.0	5.7	5.7	7.9	5				6			
						7.2	0.5	84	28.3	28.3	8.2	8.2	23.7	23.7	83.2	83.0	5.7	5.7	8.0	6				6			
IM11	Sunny	Moderate	14:15	8.0	Surface	1.0	0.9	98	28.9	28.8	8.4	8.4	20.6	20.6	142.4	137.9	9.8	8.0	5.7	7	7	822079	811477				
						1.0	0.9	104	28.7	28.7	8.4	8.4	20.7	20.7	133.3	137.9	9.2	8.0	5.8	8							
						4.0	0.8	101	28.5	28.5	8.3	8.3	22.9	22.9	94.3	94.3	6.4	6.3	6.3	7							
					Middle	4.0	0.8	101	28.5	28.5	8.3	8.3	22.9	22.9	94.3	94.3	6.4	6.3	6.4	7				6			
						7.0	0.6	94	28.5	28.5	8.3	8.3	23.0	23.0	96.6	97.0	6.6	6.7	7.8	6				7			
						7.0	0.6	94	28.5	28.5	8.3	8.3	23.0	23.0	97.4	97.0	6.7	6.7	7.9	5				6			
IM12	Sunny	Moderate	14:20	9.9	Surface	1.0	0.7	123	30.4	30.6	8.4	8.4	18.7	18.4	159.5	154.0	10.8	8.5	6.1	5	4	821469	812056				
						1.0	0.8	124	30.8	30.8	8.4	8.4	18.2	18.2	148.5	154.0	10.0	8.5	6.1	5							
						5.0	0.6	121	28.6	28.6	8.3	8.3	22.7	22.7	96.6	97.0	6.6	6.3	7.2	4							
					Middle	5.0	0.6	131	28.6	28.6	8.3	8.3	22.7	22.7	97.3	97.0	6.7	7.3	7.3	5				4			
						8.9	0.3	79	28.3	28.4	8.2	8.2	25.3	25.4	76.7	77.5	5.2	5.3	8.1	4				6			
						8.9	0.3	83	28.4	28.4	8.2	8.2	25.4	25.4	78.2	77.5	5.3	5.3	8.1	3				6			
SR1A	Sunny	Moderate	14:32	4.2	Surface	1.0	-	-	30.2	30.2	8.2	8.2	20.8	20.8	150.1	149.4	10.1	10.1	5.7	3	4	819975	812662				
						1.0	-	-	30.2	30.2	8.2	8.2	20.8	20.8	148.7	149.4	10.0	10.1	5.7	4							
						2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-				5.9	-		
					Middle	2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	
						3.2	-	-	30.1	30.1	8.3	8.3	20.8	20.7	144.3	144.9	9.7	9.8	6.2	5				6			
						3.2	-	-	30.1	30.1	8.3	8.3	20.7	20.7	145.4	144.9	9.8	9.8	6.0	4				6			
SR2	Sunny	Moderate	15:06	4.4	Surface	1.0	0.5	68	29.1	29.2	8.4	8.4	22.1	22.1	123.7	122.0	8.4	8.3	5.9	4	6	821449	814173				
						1.0	0.5	72	29.2	29.2	8.4	8.4	22.1	22.1	120.3	122.0	8.2	8.3	5.8	5							
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-		
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	-
						3.4	0.4	65	29.5	29.6	8.4	8.4	22.1	22.1	110.5	110.7	7.5	7.5	7.4	6				6			
3.4	0.4	66	29.6	29.6	8.4	8.4	22.1	22.1	110.9	110.7	7.5	7.5	7.5	7	6												
SR3	Sunny	Moderate	13:47	9.2	Surface	1.0	0.2	223	30.1	30.1	8.3	8.3	20.3	20.3	125.5	123.4	8.5	7.0	6.3	6	6	822155	807566				
						1.0	0.2	238	30.1	30.1	8.3	8.3	20.3	20.3	121.3	123.4	8.2	7.0	6.2	6							
						4.6	0.2	210	28.2	28.2	8.3	8.3	23.3	23.3	81.7	81.5	5.6	7.4	7.4	5							
					Middle	4.6	0.3	210	28.1	28.1	8.3	8.3	23.4	23.4	81.3	81.5	5.6	7.4	7.4	6				6			
						8.2	0.1	180	28.1	28.1	8.3	8.3	25.2	25.2	71.9	72.2	4.9	4.9	8.4	6				6			
						8.2	0.2	196	28.1	28.1	8.3	8.3	25.1	25.1	72.5	72.2	4.9	4.9	8.4	5				6			
SR4A	Sunny	Moderate	15:13	8.9	Surface	1.0	0.1	252	30.2	30.2	7.8	7.8	22.5	22.5	153.5	153.3	10.2	7.7	3.0	7	6	817203	807806				
						1.0	0.1	266	30.2	30.2	7.8	7.8	22.5	22.5	153.1	153.3	10.2	7.7	2.9	6							
						4.5	0.1	216	28.4	28.4	7.8	7.8	24.7	24.7	76.9	77.0	5.2	6.0	6.0	6							
					Middle	4.5	0.1	235	28.4	28.4	7.8	7.8	24.8	24.7	77.0	77.0	5.2	6.3	6.3	7				6			
						7.9	0.0	253	28.4	28.4	7.7	7.7	25.4	25.4	69.4	69.6	4.7	10.7	10.7	5				6			
						7.9	0.0	254	28.4	28.4	7.7	7.7	25.4	25.4	69.8	69.6	4.7	10.5	10.5	6				6			
SR5A	Sunny	Moderate	15:31	4.1	Surface	1.0	0.1	296	30.6	30.6	7.9	7.9	21.4	21.4	131.3	131.2	8.7	8.7	3.7	6	7	816587	810710				
						1.0	0.1	296	30.5	30.6	7.9	7.9	21.4	21.4	131.1	131.2	8.7	8.7	4.2	7							
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-		
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	-
						3.1	0.1	337	29.6	29.6	8.0	8.0	22.1	22.1	107.7	107.7	7.3	7.3	10.7	7				7			
3.1	0.1	348	29.6	29.6	8.0	8.0	22.1	22.1	107.6	107.7	7.3	7.3	11.3	7	7												
SR6A	Sunny	Moderate	16:12	4.5	Surface	1.0	0.1	7	29.7	29.8	7.7	7.8	22.1	22.1	108.4	108.0	7.3	7.3	13.3	7	10	817969	814754				
						1.0	0.1	7	29.8	29.8	7.8	7.8	22.1	22.1	107.6	108.0	7.2	7.3	13.3	9							
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-		
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	-
						3.5	0.0	343	28.4	28.4	7.8	7.9	24.4	24.4	71.4	71.7	4.9	4.9	10.9	11				6			
3.5	0.0	359	28.4	28.4	7.9	7.9	24.5	24.4	71.9	71.7	4.9	4.9	11.4	12	6												
SR7	Sunny	Moderate	16:00	15.4	Surface	1.0	0.9	83	28.0	27.9	8.4	8.4	24.7	24.8	109.1	108.4	7.5	6.2	4.3	6	5	823632	823761				
						1.0	0.9	89	27.8	27.9	8.4	8.4	24.9	24.9	107.6	108.4	7.4	6.2	4.4	7							
						7.7	0.5	86	27.1	27.1	8.2	8.2	28.3	28.3	73.9	74.0	5.0	5.9	5.9	4							
					Middle	7.7	0.5	86	27.1	27.1	8.2	8.2	28.4	28.4	74.0	74.0	5.0	5.9	5.9	5				6			
						14.4	0.1	114	26.9	26.9	8.2	8.2	29.2	29.1	78.9	80.3	5.4	5.5	7.1	3				6			
						14.4	0.1	124	26.9	26.9	8.2	8.2	29.1	29.1	81.7	80.3	5.5	5.5	6.9	3				6			
SR8	Sunny	Moderate	14:28	5.4	Surface	1.0	-	-	30.0	30.0	8.3	8.3	20.5	20.5	152.2	152.3	10.3	10.3	4.1	5	6	820366	811606				
						1.0	-	-	30.0	30.0	8.3	8.3	20.6	20.5	152.3	152.3	10.3	10.3	4.2	6							
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-		
					Middle	-	-	-																			

**Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring**

Water Quality Monitoring Results on 13 July 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	Moderate	08:45	8.5	Surface	1.0	0.6	37	28.8	28.8	7.8	7.8	22.1	22.1	90.7	90.6	6.2	5.5	2.8	8.0	4	4	815598	804237							
						1.0	0.6	37	28.8	7.8	7.8	22.1	22.1	90.5	90.6	6.2	5.5	2.8	8.0	4	4										
						4.3	0.5	33	27.9	27.9	7.8	7.8	25.1	25.1	70.4	70.4	4.8	5.1	4	4											
					Middle	4.3	0.5	35	27.8	27.8	7.8	7.8	25.1	25.1	70.3	70.3	4.8	5.1	4	4											
						7.5	0.3	19	27.2	27.2	7.8	7.8	29.0	29.0	57.4	57.4	3.9	3.9	16.0	3	3										
						7.5	0.3	19	27.2	27.2	7.8	7.8	29.0	29.0	58.0	58.0	3.9	3.9	16.2	3	3										
					C2	Fine	Moderate	09:54	13.0	Surface	1.0	0.4	41	28.9	28.9	8.3	8.3	18.9	18.9	102.1	101.9	7.1			6.6	6.6	7.4	3	3	825658	806948
											1.0	0.5	45	28.9	28.9	8.3	8.3	18.9	18.9	101.6	101.9	7.1			6.6	3	3				
											6.5	0.4	13	28.3	28.3	8.2	8.2	22.1	22.1	87.8	87.5	6.1			7.2	3	3				
Middle	6.5	0.4	14	28.3						28.3	8.2	8.2	22.1	22.1	87.2	87.5	6.0	7.3	3	3											
	12.0	0.3	1	28.5						28.6	8.2	8.2	24.8	24.8	77.7	78.2	5.3	8.1	3	3											
	12.0	0.4	1	28.6						28.6	8.2	8.2	24.8	24.8	78.6	78.2	5.3	8.1	3	3											
C3	Fine	Calm	07:48	12.2						Surface	1.0	0.4	280	29.0	29.0	8.3	8.3	20.6	20.6	96.0	95.3	6.6	5.5	4.9	6.0	6	8	822110	817788		
											1.0	0.5	281	29.0	29.0	8.3	8.3	20.6	20.6	94.6	95.3	6.5	5.7	7	7						
											6.1	0.6	285	26.9	26.9	8.2	8.2	28.8	28.9	66.7	66.8	4.5	6.1	7	7						
					Middle	6.1	0.6	303	26.8	26.8	8.2	8.2	28.9	29.1	66.8	66.8	4.5	6.1	7	7											
						11.2	0.6	286	26.8	26.8	8.2	8.2	29.1	29.1	68.0	68.3	4.6	7.2	9	9											
						11.2	0.6	300	26.8	26.8	8.2	8.2	29.1	29.1	68.5	68.3	4.7	7.3	10	10											
					IM1	Sunny	Moderate	09:05	5.4	Surface	1.0	0.0	356	28.9	28.9	8.0	8.0	22.1	22.1	103.0	102.9	7.0	7.0	3.5	5.5	6	7			817968	807120
											1.0	0.0	328	28.8	28.8	8.0	8.0	22.1	22.1	102.7	102.9	7.0	3.9	6	6						
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Middle	4.4	0.1	2	28.1						28.1	7.9	7.9	25.8	25.8	68.1	68.3	4.6	7.2	7	7											
	4.4	0.1	2	28.1						28.1	8.0	8.0	25.8	25.8	68.5	68.3	4.6	7.6	8	8											
	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-											
IM2	Sunny	Moderate	09:14	7.5						Surface	1.0	0.3	357	28.6	28.6	7.8	7.8	22.8	22.8	89.5	89.1	6.1	5.4	4.2	9.4	8	8	818139	806177		
											1.0	0.3	328	28.5	28.5	7.8	7.8	22.9	22.8	88.7	89.1	6.1	4.3	8	8						
											3.8	0.3	2	28.0	28.0	7.8	7.8	23.6	23.6	68.4	68.3	4.7	8.8	7	7						
					Middle	3.8	0.3	2	28.0	28.0	7.8	7.8	23.7	23.7	68.2	68.3	4.7	8.8	8	8											
						6.5	0.2	336	27.9	27.9	7.8	7.8	26.6	26.6	68.9	69.1	4.7	15.4	6	6											
						6.5	0.2	346	27.9	27.9	7.8	7.8	26.6	26.6	69.3	69.1	4.7	15.1	8	8											
					IM3	Sunny	Moderate	09:21	7.8	Surface	1.0	0.4	343	29.1	29.1	7.9	7.9	21.7	21.7	107.6	107.5	7.3	6.0	3.4	6.9	7	7			818782	805583
											1.0	0.5	355	29.0	29.0	7.9	7.9	21.7	21.7	107.3	107.5	7.3	3.7	8	8						
											3.9	0.4	346	28.1	28.1	7.8	7.8	24.2	24.1	69.5	69.5	4.7	4.6	8	8						
Middle	3.9	0.4	318	28.1						28.1	7.8	7.8	24.1	24.1	69.5	69.5	4.7	4.8	7	7											
	6.8	0.3	335	27.8						27.8	7.8	7.8	26.5	26.5	65.6	65.9	4.4	12.4	6	6											
	6.8	0.4	349	27.8						27.8	7.8	7.8	26.5	26.5	66.1	65.9	4.5	12.6	6	6											
IM4	Sunny	Moderate	09:29	8.3						Surface	1.0	0.7	0	29.2	29.2	7.9	7.9	21.3	21.3	100.4	100.4	6.8	6.1	2.7	6.6	6	6	819736	804615		
											1.0	0.7	0	29.2	29.2	7.9	7.9	21.3	21.3	100.4	100.4	6.8	2.5	6	6						
											4.2	0.7	359	28.5	28.5	7.8	7.8	22.7	22.7	77.9	77.8	5.3	5.5	7	7						
					Middle	4.2	0.7	330	28.4	28.4	7.8	7.8	22.8	22.7	77.6	77.8	5.3	5.7	6	6											
						7.3	0.4	346	27.8	27.8	7.8	7.8	26.5	26.5	65.6	65.9	4.4	11.8	6	6											
						7.3	0.4	318	27.8	27.8	7.8	7.8	26.5	26.5	66.1	65.9	4.5	11.5	6	6											
					IM5	Sunny	Moderate	09:36	7.4	Surface	1.0	1.0	5	29.0	29.0	7.9	7.9	20.9	20.9	101.4	101.4	7.0	5.7	2.8	10.3	5	5			820714	804847
											1.0	1.0	5	28.9	28.9	7.9	7.9	20.9	20.9	101.4	101.4	7.0	2.9	4	4						
											3.7	0.8	7	27.9	27.9	7.8	7.8	25.4	25.4	64.2	64.1	4.4	11.3	6	6						
Middle	3.7	0.9	7	27.9						27.9	7.8	7.8	25.5	25.4	64.0	64.1	4.4	11.2	5	5											
	6.4	0.5	18	27.9						27.9	7.9	7.9	25.9	25.9	64.2	64.3	4.4	16.8	6	6											
	6.4	0.6	19	27.9						27.9	7.9	7.9	25.9	25.9	64.4	64.3	4.4	16.8	6	6											
IM6	Sunny	Moderate	09:44	8.0						Surface	1.0	0.1	278	29.2	29.2	7.9	7.9	19.2	19.2	100.9	100.8	7.0	6.7	2.4	6.8	4	5	821060	805835		
											1.0	0.1	299	29.2	29.2	7.9	7.9	19.3	19.2	100.7	100.8	7.0	2.6	4	4						
											4.0	0.2	41	28.6	28.6	7.8	7.8	21.3	21.3	91.7	91.3	6.3	6.7	4	4						
					Middle	4.0	0.2	45	28.5	28.5	7.8	7.8	21.3	21.3	90.9	91.3	6.3	7.5	5	5											
						7.0	0.2	76	28.1	28.1	7.8	7.8	25.1	25.1	64.6	64.7	4.4	10.6	4	4											
						7.0	0.2	76	28.1	28.1	7.8	7.8	25.2	25.1	64.8	64.7	4.4	10.7	4	4											
					IM7	Sunny	Moderate	09:53	8.1	Surface	1.0	0.2	192	29.2	29.2	8.0	8.0	19.7	19.8	100.3	100.2	6.9	6.7	2.3	5.4	5	4			821334	806850
											1.0	0.2	192	29.2	29.2	8.0	8.0	19.8	19.8	100.1	100.2	6.9	2.4	5	5						
											4.1	0.2	157	28.7	28.6	8.0	8.0	20.5	20.5	93.5	93.1	6.5	5.0	5	4						
Middle	4.1	0.2	168	28.5						28.5	8.0	8.0	20.6	20.5	92.7	93.1	6.4	5.0	4	4											
	7.1	0.1	71	28.1						28.1	8.0	8.0	25.9	25.9	68.6	69.5	4.6	8.8	4	4											
	7.1	0.1	76	28.1						28.1	8.0	8.0	25.9	25.9	70.4	69.5	4.8	8.7	3	3											
IM8	Fine	Moderate	09:28	8.4						Surface	1.0	0.1	66	29.0	29.0	8.3	8.2	20.1	20.1	99.0	99.0	6.8	6.5	5.2	7.0	5	6	821831	808132		
											1.0	0.1	66	29.0	29.0	8.2	8.2	20.1	20.1	99.0	99.0	6.8	5.1	5	5						
											4.2	0.1	83	28.8	28.8	8.2	8.2	21.8	21.9	90.6	90.2	6.2	7.2	6	6						
					Middle	4.2	0.1	84	28.8	28.8	8.2	8.2	21.9	21.9	89.7	90.2	6.1	7.6	6	6											
						7.4	0.2	68	28.8	28.8	8.2	8.2	22.2	22.1	85.4	85.6	5.8	8.6	6	6											
						7.4	0.2	70	28.8	28.8	8.2	8.2	22.1	22.1	85.8	85.6	5.9	8.6	6	6											

DA: Depth-Averaged

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

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

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

Water Quality Monitoring Results on 13 July 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	DA	Value	DA	Value	DA											
IM9	Fine	Calm	09:21	8.6	Surface	1.0	0.3	62	29.2	29.2	8.3	8.3	20.6	20.7	96.1	96.0	6.6	6.8	8												
						1.0	0.3	67	29.1	8.3	8.3	20.7	20.7	95.8	96.0	6.6	7.1	8													
						4.3	0.1	61	28.7	8.2	8.2	22.1	22.1	86.4	86.7	5.9	8.7	7													
					Middle	4.3	0.1	63	28.7	8.2	8.2	22.1	22.1	86.9	86.7	5.9	8.7	8													
						7.6	0.1	84	28.8	8.2	8.2	22.1	22.1	87.6	87.8	6.0	9.5	7													
						7.6	0.1	84	28.8	8.2	8.2	22.1	22.1	87.9	87.8	6.0	9.5	8													
					Bottom	1.0	0.7	303	29.3	29.3	8.4	8.4	19.7	19.7	112.4	112.2	7.7	4.3	6												
						1.0	0.7	330	29.3	29.3	8.4	8.4	19.8	19.7	111.9	112.2	7.7	4.3	7												
						4.9	0.8	291	28.2	28.2	8.2	8.2	24.3	24.3	84.2	84.2	5.8	5.4	6												
IM10	Fine	Calm	09:13	9.8	Surface	1.0	0.7	303	29.3	29.3	8.4	8.4	19.7	19.7	112.4	112.2	7.7	4.3	6												
						1.0	0.7	330	29.3	29.3	8.4	8.4	19.8	19.7	111.9	112.2	7.7	4.3	7												
						4.9	0.8	291	28.2	28.2	8.2	8.2	24.3	24.3	84.2	84.2	5.8	5.4	6												
					Middle	4.9	0.8	298	28.1	28.1	8.2	8.2	24.4	24.4	84.2	84.2	5.7	5.3	5												
						8.8	0.5	296	28.6	28.6	8.2	8.2	24.3	24.2	82.5	83.1	5.6	6.9	4												
						8.8	0.6	314	28.7	28.7	8.2	8.2	24.2	24.2	83.6	83.1	5.7	6.9	5												
					Bottom	1.0	0.7	300	28.2	28.2	8.3	8.3	21.8	22.0	95.8	95.3	6.6	6.3	8												
						1.0	0.7	329	28.1	28.1	8.3	8.3	22.2	22.2	94.7	95.3	6.5	6.5	7												
						4.4	0.7	284	27.8	27.8	8.3	8.3	24.8	24.8	82.7	82.7	5.7	7.6	7												
IM11	Fine	Calm	09:03	8.8	Surface	1.0	0.7	300	28.2	28.2	8.3	8.3	21.8	22.0	95.8	95.3	6.6	6.3	8												
						1.0	0.7	329	28.1	28.1	8.3	8.3	22.2	22.2	94.7	95.3	6.5	6.5	7												
						4.4	0.7	284	27.8	27.8	8.3	8.3	24.8	24.8	82.7	82.7	5.7	7.6	7												
					Middle	4.4	0.7	304	27.7	27.7	8.3	8.3	24.8	24.8	82.6	82.7	5.7	7.9	6												
						7.8	0.5	274	27.7	27.7	8.2	8.2	26.1	26.1	72.9	73.1	5.0	8.2	6												
						7.8	0.5	282	27.7	27.7	8.2	8.2	26.0	26.1	73.2	73.1	5.0	8.1	5												
					Bottom	1.0	0.5	280	28.1	28.1	8.3	8.3	23.6	23.6	90.4	90.5	6.2	7.4	12												
						1.0	0.5	289	28.0	28.0	8.3	8.3	23.5	23.5	90.5	90.5	6.2	7.2	12												
						4.5	0.4	266	27.8	27.8	8.2	8.2	25.6	25.6	77.5	77.4	5.3	9.0	13												
IM12	Fine	Calm	08:56	9.0	Surface	1.0	0.5	280	28.1	28.1	8.3	8.3	23.6	23.6	90.4	90.5	6.2	7.4	12												
						1.0	0.5	289	28.0	28.0	8.3	8.3	23.5	23.5	90.5	90.5	6.2	7.2	12												
						4.5	0.4	266	27.8	27.8	8.2	8.2	25.6	25.6	77.5	77.4	5.3	9.0	13												
					Middle	4.5	0.4	280	27.8	27.8	8.2	8.2	25.6	25.6	77.3	77.4	5.3	8.9	12												
						8.0	0.4	251	28.1	28.1	8.2	8.2	25.5	25.5	76.8	77.1	5.2	9.5	12												
						8.0	0.4	254	28.3	28.3	8.2	8.2	25.4	25.5	77.4	77.1	5.2	9.5	13												
					Bottom	1.0	0.2	118	27.8	27.8	8.3	8.3	22.2	22.3	86.8	84.7	6.0	9.0	4												
						1.0	0.2	123	27.7	27.7	8.3	8.3	22.4	22.3	82.5	84.7	5.7	8.9	5												
						4.0	0.1	228	27.6	27.6	8.2	8.2	26.3	26.3	72.5	72.7	4.9	9.7	4												
SR1A	Fine	Calm	08:23	4.2	Surface	1.0	-	-	29.1	29.1	8.3	8.3	20.5	20.5	99.4	99.5	6.8	5.4	8												
						1.0	-	-	29.1	29.1	8.3	8.3	20.5	20.5	99.5	99.5	6.8	5.4	8												
						2.1	-	-	-	-	-	-	-	-	-	-	-	-	6.8												
					Middle	2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.0									
						3.2	-	-	28.9	28.9	8.3	8.3	20.7	20.7	94.4	95.1	6.5	6.7	4												
						3.2	-	-	28.9	28.9	8.3	8.3	20.6	20.7	95.7	95.1	6.6	6.7	4												
					Bottom	1.0	0.2	118	27.8	27.8	8.3	8.3	22.2	22.3	86.8	84.7	6.0	9.0	4												
						1.0	0.2	123	27.7	27.7	8.3	8.3	22.4	22.3	82.5	84.7	5.7	8.9	5												
						4.0	0.1	228	27.6	27.6	8.2	8.2	26.3	26.3	72.5	72.7	4.9	9.7	4												
SR2	Fine	Calm	08:08	5.0	Surface	1.0	0.2	118	27.8	27.8	8.3	8.3	22.2	22.3	86.8	84.7	6.0	9.0	4												
						1.0	0.2	123	27.7	27.7	8.3	8.3	22.4	22.3	82.5	84.7	5.7	8.9	5												
						4.0	0.1	228	27.6	27.6	8.2	8.2	26.3	26.3	72.5	72.7	4.9	9.7	4												
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.3									
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
						4.0	0.1	228	27.6	27.6	8.2	8.2	26.3	26.3	72.5	72.7	4.9	9.7	4												
					Bottom	1.0	0.0	194	29.1	29.1	8.4	8.4	19.2	19.2	111.6	111.6	7.7	5.8	5												
						1.0	0.0	205	29.1	29.1	8.4	8.4	19.1	19.2	111.5	111.6	7.7	5.8	5												
						5.0	0.1	36	28.8	28.8	8.3	8.3	21.2	21.3	91.5	91.3	6.3	6.8	4												
SR3	Fine	Moderate	09:35	10.0	Surface	1.0	0.0	194	29.1	29.1	8.4	8.4	19.2	19.2	111.6	111.6	7.7	5.8	5												
						1.0	0.0	205	29.1	29.1	8.4	8.4	19.1	19.2	111.5	111.6	7.7	5.8	5												
						5.0	0.1	36	28.8	28.8	8.3	8.3	21.2	21.3	91.5	91.3	6.3	6.8	4												
					Middle	5.0	0.1	36	28.8	28.8	8.3	8.3	21.4	21.3	91.1	91.3	6.2	6.9	3												
						9.0	0.2	42	28.8	28.9	8.2	8.2	21.9	21.8	81.8	82.0	5.6	8.1	3												
						9.0	0.2	43	28.9	28.9	8.2	8.2	21.8	21.8	82.1	82.0	5.6	8.0	4												
					Bottom	1.0	0.1	244																							

**Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring**

Water Quality Monitoring Results on 15 July 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	DA	Value	DA	Value	DA	Value	DA		
C1	Sunny	Moderate	16:13	8.4	Surface	1.0	0.4	244	29.4	29.5	8.4	8.4	23.1	23.1	114.9	112.1	7.7	3.9	2	3	815643	804244		
						1.0	0.5	257	29.5	8.4	8.4	23.1	23.1	109.2	106.4	7.3	3.9	2						
						4.2	0.2	193	27.3	8.2	8.2	29.2	29.2	71.2	71.3	4.8	3.9	3						
						4.2	0.2	206	27.2	8.2	8.2	29.3	29.3	71.4	71.3	4.8	4.1	4						
						7.4	0.2	215	26.8	8.1	8.1	31.0	31.0	57.3	57.2	3.9	6.6	4						
						7.4	0.2	228	26.8	8.1	8.1	31.0	31.0	57.1	57.2	3.8	6.6	5						
C2	Sunny	Moderate	15:01	12.6	Surface	1.0	0.2	116	30.3	30.3	8.4	8.4	19.9	19.9	126.4	126.4	8.5	3.6	6	5	825664	806960		
						1.0	0.2	125	30.3	8.4	8.4	19.9	19.9	126.3	126.3	8.5	3.6	6						
						6.3	0.3	102	29.2	8.1	8.1	22.3	22.3	87.7	87.8	5.9	6.9	5						
						6.3	0.4	110	29.2	8.1	8.1	22.3	22.3	87.8	87.8	6.0	6.9	5						
						11.6	0.2	147	29.1	8.1	8.1	22.8	22.8	84.0	84.1	5.7	6.6	4						
						11.6	0.2	150	29.1	8.1	8.1	22.8	22.8	84.1	84.1	5.7	6.7	4						
C3	Sunny	Moderate	17:10	12.8	Surface	1.0	0.3	90	29.7	29.7	7.9	7.9	23.1	23.1	107.3	107.3	7.2	2.5	4	6	822086	817805		
						1.0	0.3	95	29.7	7.9	7.9	23.1	23.1	107.3	107.3	7.2	2.5	5						
						6.4	0.3	120	29.4	7.9	7.9	23.4	23.4	104.5	104.5	7.0	3.8	5						
						6.4	0.3	131	29.4	7.9	7.9	23.4	23.4	104.5	104.5	7.0	3.8	6						
						11.8	0.3	21	28.4	7.9	7.9	25.7	25.7	86.1	86.1	5.8	1.6	7						
						11.8	0.3	21	28.4	7.9	7.9	25.7	25.7	86.1	86.1	5.8	1.7	6						
IM1	Sunny	Moderate	15:54	5.3	Surface	1.0	0.1	213	29.9	29.9	8.1	8.1	21.6	21.6	145.3	145.5	9.8	3.4	3	3	817964	807124		
						1.0	0.2	220	29.8	8.1	8.1	21.7	21.7	145.6	145.6	9.8	3.4	3						
						-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	
						-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	
						4.3	0.2	163	29.2	29.2	8.3	8.3	23.9	23.9	102.5	103.3	6.9	15.9	3					
						4.3	0.2	164	29.2	29.2	8.3	8.3	23.8	23.8	104.0	104.0	7.0	15.1	3					
IM2	Sunny	Moderate	15:46	7.1	Surface	1.0	0.2	204	30.4	30.4	8.1	8.1	21.5	21.5	128.9	127.4	8.6	3.9	3	4	818173	806157		
						1.0	0.2	206	30.4	30.4	8.1	8.1	21.5	21.5	125.9	125.9	8.4	4.0	4					
						3.6	0.2	210	28.3	28.3	8.2	8.2	25.7	25.8	86.6	86.4	5.9	4.4	4					
						3.6	0.2	226	28.3	28.3	8.2	8.2	25.9	25.9	86.2	86.2	5.8	4.5	3					
						6.1	0.2	115	28.1	28.1	8.2	8.2	26.5	26.5	75.6	76.2	5.1	14.7	4					
						6.1	0.2	119	28.1	28.1	8.2	8.2	26.5	26.5	76.7	76.2	5.2	14.3	4					
IM3	Sunny	Moderate	15:39	7.6	Surface	1.0	0.1	184	28.9	28.9	8.4	8.4	22.9	22.9	116.0	115.9	7.9	8.4	4	5	818791	805606		
						1.0	0.1	188	28.9	28.9	8.4	8.4	23.0	23.0	115.7	115.7	7.9	8.9	5					
						3.8	0.1	100	28.2	28.2	8.2	8.2	26.0	26.1	85.5	85.4	5.8	8.5	9.9					
						3.8	0.1	109	28.2	28.2	8.2	8.2	26.1	26.1	85.2	85.2	5.8	9.0	4					
						6.6	0.2	102	28.1	28.1	8.2	8.2	26.7	26.7	74.6	74.6	5.0	12.1	5					
						6.6	0.2	107	28.1	28.1	8.2	8.2	26.7	26.7	74.5	74.5	5.0	12.6	6					
IM4	Sunny	Moderate	15:27	7.2	Surface	1.0	0.2	197	29.9	29.9	8.4	8.4	21.5	21.4	125.3	125.0	8.4	4.1	4	4	819737	804610		
						1.0	0.2	215	29.9	29.9	8.4	8.4	21.4	21.4	124.7	124.7	8.4	4.4	4					
						3.6	0.1	107	27.9	27.9	8.2	8.2	27.1	27.1	73.3	73.2	4.9	8.1	4					
						3.6	0.1	112	27.9	27.9	8.2	8.2	27.1	27.1	73.0	73.0	4.9	8.2	4					
						6.2	0.2	115	27.8	27.9	8.2	8.2	27.3	27.3	72.4	72.5	4.9	9.8	5					
						6.2	0.2	124	27.9	27.9	8.2	8.2	27.3	27.3	72.6	72.6	4.9	9.8	5					
IM5	Sunny	Moderate	15:18	8.5	Surface	1.0	0.2	305	29.1	29.1	8.3	8.3	22.7	22.6	99.1	99.4	6.7	4.3	5	4	820726	804887		
						1.0	0.2	313	29.1	29.1	8.3	8.3	22.5	22.5	99.7	99.7	6.8	4.6	4					
						4.3	0.1	353	28.1	28.1	8.2	8.2	26.3	26.3	78.2	78.3	5.3	7.1	4					
						4.3	0.1	325	28.1	28.1	8.2	8.2	26.4	26.4	78.4	78.4	5.3	7.2	4					
						7.5	0.1	120	28.0	28.0	8.2	8.2	26.9	26.9	72.7	72.9	4.9	11.2	4					
						7.5	0.2	123	28.0	28.0	8.2	8.2	26.9	26.9	73.0	73.0	4.9	11.2	4					
IM6	Sunny	Moderate	15:11	7.6	Surface	1.0	0.3	282	29.4	29.4	8.3	8.3	22.1	22.1	104.1	104.1	7.0	4.3	4	5	821039	805817		
						1.0	0.4	287	29.4	29.4	8.3	8.3	22.1	22.1	104.0	104.0	7.0	4.4	4					
						3.8	0.2	288	28.3	28.3	8.2	8.2	25.6	25.6	78.9	79.0	5.3	7.1	4					
						3.8	0.2	313	28.3	28.3	8.2	8.2	25.6	25.6	79.1	79.1	5.3	7.4	5					
						6.6	0.1	191	28.3	28.3	8.2	8.2	25.7	25.6	74.5	74.6	5.0	8.1	6					
						6.6	0.1	204	28.3	28.3	8.2	8.2	25.6	25.6	74.7	74.7	5.0	7.9	5					
IM7	Sunny	Moderate	15:02	8.6	Surface	1.0	0.1	235	29.6	29.6	8.3	8.3	21.4	21.5	108.1	108.0	7.3	3.9	6	6	821330	806843		
						1.0	0.2	245	29.6	29.6	8.3	8.3	21.6	21.6	107.9	107.9	7.3	4.0	6					
						4.3	0.2	235	28.9	28.9	8.3	8.3	22.8	22.8	94.9	94.6	6.4	6.9	6					
						4.3	0.2	250	28.9	28.9	8.3	8.3	22.9	22.9	94.3	94.3	6.4	7.2	6					
						7.6	0.1	160	28.4	28.4	8.2	8.2	25.5	25.6	75.4	75.4	5.1	10.4	5					
						7.6	0.1	175	28.4	28.4	8.2	8.2	25.6	25.6	75.4	75.4	5.1	10.7	5					
IM8	Sunny	Moderate	15:27	8.3	Surface	1.0	0.7	97	30.2	30.2	8.0	8.0	19.9	19.9	113.9	113.9	7.7	3.4	5	5	821853	808126		
						1.0	0.7	105	30.2	30.2	8.0	8.0	19.9	19.9	113.9	113.9	7.7	3.4	4					
						4.2	0.5	95	29.3	29.3	7.9	7.9	21.5	21.5	86.4	86.4	5.9	2.4	5					
						4.2	0.5	99	29.3	29.3	7.9	7.9	21.5	21.5	86.4	86.4	5.9	2.4	5					
						7.3	0.3	84	28.7	28.7	7.9	7.9	24.4	24.4	77.0	77.1	5.2	6.0	5					
						7.3	0.3	87	28.7	28.7	7.9	7.9	24.4	24.4	77.1	77.1	5.2	6.0	5					

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

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

Water Quality Monitoring

Water Quality Monitoring Results on **15 July 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	15:35	7.6	Surface	1.0	0.8	116	30.1	30.1	8.0	8.0	20.2	20.2	112.6	112.5	7.6	6.8	2.5	3.3	5	5	822096	808800								
						1.0	0.8	117	30.1	8.0	8.0	20.2	20.2	112.4	112.5	7.6	6.8	2.5	4													
						3.8	0.7	122	29.3	8.0	8.0	21.9	21.9	88.2	88.1	6.0	5.4	2.7	5													
					Middle	3.8	0.7	123	29.3	29.3	8.0	8.0	22.0	22.0	88.0	88.1	6.0	5.4	2.8	5	4											
						6.6	0.4	126	28.8	28.8	8.0	8.0	23.9	23.9	79.2	79.3	5.4	4.8	4.8	5												
						6.6	0.4	138	28.8	28.8	8.0	8.0	23.9	23.9	79.3	79.3	5.4	4.8	4.8	6												
					IM10	Sunny	Moderate	15:43	7.8	Surface	1.0	0.7	124	30.7	30.7	7.9	7.9	20.3	20.3	112.9	112.9				7.6	7.2	3.2	5.5	4	4	822375	809813
											1.0	0.7	128	30.7	7.9	7.9	20.3	20.3	112.9	112.9	7.6				7.2	3.2	4					
											3.9	0.6	110	30.2	29.3	7.9	7.9	21.0	21.0	101.8	101.7				6.8	6.0	4.9	4				
Middle	3.9	0.7	120	30.2						30.2	7.9	7.9	21.0	21.0	101.6	101.7	6.8	6.0	4.9	4	4											
	6.8	0.4	104	28.5						28.5	7.9	7.9	24.8	24.8	70.2	70.3	4.8	4.8	8.3	5												
	6.8	0.4	112	28.5						28.5	7.9	7.9	24.8	24.8	70.3	70.3	4.8	4.8	8.3	5												
IM11	Sunny	Moderate	15:53	8.6						Surface	1.0	0.4	111	30.0	30.0	8.0	8.0	20.2	20.2	112.3	112.1	7.6	6.8	1.1	1.9	4	4	822064	811477			
											1.0	0.4	120	30.0	7.9	7.9	20.2	20.2	111.9	112.1	7.6	6.8	1.1	5								
											4.3	0.4	103	29.3	29.3	7.9	7.9	22.5	22.4	88.2	88.3	6.0	5.2	2.1	4							
					Middle	4.3	0.4	103	29.3	29.3	7.9	7.9	22.4	22.4	88.3	88.3	6.0	5.2	2.1	4	4											
						7.6	0.4	88	28.7	28.7	7.9	7.9	23.9	23.9	76.8	76.8	5.2	5.2	2.4	4												
						7.6	0.4	92	28.7	28.7	7.9	7.9	23.9	23.9	76.7	76.8	5.2	5.2	2.4	4												
					IM12	Sunny	Moderate	16:00	8.7	Surface	1.0	0.2	133	29.5	29.5	7.8	7.8	21.9	21.9	92.0	92.0	6.2	5.9	2.1	2.1	5				5	821441	812041
											1.0	0.2	134	29.5	29.5	7.8	7.8	21.9	21.9	92.0	92.0	6.2	5.9	2.2	4							
											4.4	0.2	124	29.0	29.0	7.8	7.8	23.2	23.2	81.3	81.3	5.5	5.5	2.4	5							
Middle	4.4	0.2	124	29.0						29.0	7.8	7.8	23.2	23.2	81.3	81.3	5.5	5.5	2.4	4	4											
	7.7	0.3	67	28.5						28.5	7.8	7.8	24.5	24.5	77.9	77.9	5.3	5.3	1.9	6												
	7.7	0.3	72	28.5						28.5	7.8	7.8	24.5	24.5	77.9	77.9	5.3	5.3	1.9	4												
SR1A	Sunny	Moderate	16:34	4.3						Surface	1.0	-	-	29.5	29.5	7.8	7.8	22.8	22.8	90.0	90.0	6.1	6.1	4.0	6	6	819981	812663				
											1.0	-	-	29.5	29.5	7.8	7.8	22.8	22.8	89.9	90.0	6.1	6.1	4.0	5							
											2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	4.3							
					Middle	2.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4										
						3.3	-	-	29.2	29.2	7.8	7.8	23.5	23.5	85.3	85.4	5.8	5.8	4.7	6												
						3.3	-	-	29.2	29.2	7.8	7.8	23.5	23.5	85.4	85.4	5.8	5.8	4.7	6												
					SR2	Sunny	Moderate	16:49	4.9	Surface	1.0	0.5	86	30.0	30.0	7.9	7.9	20.5	20.5	114.5	114.5	7.7	7.7	1.7	4				5	821450	814165	
											1.0	0.5	86	30.0	30.0	7.9	7.9	20.5	20.5	114.5	114.5	7.7	7.7	1.8	5							
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.7							
Middle	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-	6										
	3.9	0.2	61	29.2						29.2	7.8	7.8	22.6	22.6	93.0	93.1	6.3	6.3	3.8	6												
	3.9	0.2	63	29.2						29.2	7.8	7.8	22.6	22.6	93.1	93.1	6.3	6.3	3.8	4												
SR3	Sunny	Moderate	15:22	9.4						Surface	1.0	0.3	146	29.9	29.9	8.0	8.0	20.5	20.5	105.2	105.2	7.1	6.2	2.5	4.6	5	4	822142				807581
											1.0	0.3	156	29.9	29.9	8.0	8.0	20.5	20.5	105.1	105.1	7.1	6.2	2.4	4							
											4.7	0.3	150	29.1	29.1	7.9	7.9	22.6	22.6	78.6	78.7	5.3	5.5	3.5	3							
					Middle	4.7	0.3	154	29.1	29.1	7.9	7.9	22.6	22.6	78.7	78.7	5.3	5.5	3.3	4	4											
						8.4	0.1	87	29.0	29.0	8.0	8.0	23.4	23.4	81.6	81.6	5.5	5.5	8.0	3												
						8.4	0.1	91	29.0	29.0	8.0	8.0	23.4	23.4	81.6	81.6	5.5	5.5	8.0	4												
					SR4A	Sunny	Moderate	16:36	8.1	Surface	1.0	0.2	65	30.2	30.3	8.4	8.4	22.0	22.0	124.5	123.1	8.3	6.9	7.4	10.9	5			5	817204	807800	
											1.0	0.2	66	30.3	30.3	8.4	8.4	22.0	22.0	121.6	123.1	8.1	6.9	7.9	4							
											4.1	0.2	71	28.4	28.4	8.2	8.2	25.8	25.8	82.4	81.9	5.6	5.5	10.7	5							
Middle	4.1	0.2	72	28.4						28.4	8.2	8.2	25.9	25.9	81.4	81.9	5.5	5.5	10.9	5	5											
	7.1	0.2	62	28.4						28.4	8.2	8.2	26.0	25.9	80.9	81.1	5.5	5.5	13.4	5												
	7.1	0.2	65	28.4						28.4	8.2	8.2	25.9	25.9	81.3	81.1	5.5	5.5	15.3	6												
SR5A	Sunny	Moderate	16:53	3.4						Surface	1.0	0.1	353	29.7	29.7	8.3	8.3	22.5	22.5	99.2	99.1	6.7	6.7	6.4	6.8	8	10	816580				810697
											1.0	0.1	325	29.7	29.7	8.3	8.3	22.5	22.5	99.0	99.1	6.7	6.7	6.5	9							
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.8							
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11										
						2.4	0.0	24	29.6	29.6	8.3	8.3	22.6	22.6	97.5	97.5	6.6	6.6	7.2	10												
						2.4	0.0	24	29.6	29.6	8.3	8.3	22.6	22.6	97.5	97.5	6.6	6.6	7.3	10												
					SR6A	Sunny	Moderate	17:34	4.2	Surface	1.0	0.0	301	29.2	29.1	8.2	8.2	23.2	23.3	98.8	96.0	6.7	6.5	7.2	9	9			817942	814718		
											1.0	0.0	313	29.0	29.1	8.2	8.2	23.3	23.3	93.1	96.0	6.3	6.5	7.2	9							
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	11.8							
Middle	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-	9										
	3.2	0.1	168	28.9						28.9	8.3	8.3	23.5	23.5	81.4	81.6	5.5	5.5	17.3	9												
	3.2	0.1	180	28.9						28.9	8.3	8.3	23.5	23.5	81.8	81.6	5.5	5.5	15.6	8												
SR7	Sunny	Moderate	17:36	14.2						Surface	1.0	1.3	78	28.2	28.2	7.8	7.8	26.4	26.3	121.7	121.6	8.1	6.9	2.9	4.5		5	5			823637	823760
											1.0	1.4	79	28.2	28.2	7.8	7.8	26.3	26.3	121.5	121.5	8.1	6.9	2.9	4							
											7.1	0.7	77	27.3	27.3	7.8	7.8	28.7	28.7	83.8	83.7	5.7	4.4	4.1	5							
					Middle	7.1	0.8	80	27.3	27.3	7.8	7.8	28.7	28.7	83.6	83.7	5.6	4.4	4.1	5	5											
						13.2	0.1	99	26.9	26.9	7.9	7.9	29.7	29.7	65.6	65.6	4.4	4.4	6.6	5												
						13.2	0.1	108	26.9	26.9	7.9	7.9	29.7	29.7	65.5	65.6	4.4	4.4	6.6	4												
					SR8	Sunny	Moderate	16:11	4.2	Surface	1.0	-	-	29.8	29.8	7.9	7.9	22.2	22.2	96.3	96.3	6.5	6.5	1.6	1.9	4	5		820368	811626		
											1.0	-	-	29.8	29.8	7.9	7.9	22.2	22.2	96.3	96.3	6.5	6.5	1.6	5							
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
Middle	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-	5										
	3.2	-	-	29.6						29.6	7.9	7.9	22.5	22.5	93.1	93.2	6.3	6.3	2.2	5												
	3.2	-	-	29.6						29.6	7.9	7.9	22.5	22.5	93.2	93.2	6.3	6.3	2.2	5												

DA: Depth-Averaged

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

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

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

Water Quality Monitoring

Water Quality Monitoring Results on 15 July 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	Moderate	09:57	8.3	Surface	1.0	0.5	34	28.9	28.9	8.3	8.3	22.6	22.6	98.6	98.4	6.7	5.0	4	5	815616	804255	
						1.0	0.5	35	28.8	8.3	8.3	22.6	22.6	98.2	98.4	6.7	5.2	4	5				
						4.2	0.5	33	27.7	27.7	8.2	8.2	25.0	25.1	80.6	80.0	5.5	4.5	5	5			
					4.2	0.5	36	27.6	27.6	8.2	8.2	25.1	25.1	80.6	80.0	5.4	4.9	4	4				
					7.3	0.2	31	27.3	27.3	8.2	8.2	29.1	29.1	64.0	64.2	4.3	12.0	5	5				
					7.3	0.2	31	27.3	27.3	8.2	8.2	29.1	29.1	64.4	64.2	4.3	11.2	4	4				
C2	Sunny	Rough	11:18	13.2	Surface	1.0	0.5	48	30.2	30.2	8.1	8.1	19.7	19.7	110.0	109.9	7.4	3.5	4	4	825688	806931	
						1.0	0.5	51	30.2	30.2	8.1	8.1	19.7	19.7	109.8	109.9	7.4	3.6	4	4			
						6.6	0.4	57	29.4	29.4	8.2	8.2	21.7	21.7	91.1	91.2	6.2	5.7	4	4			
					6.6	0.5	60	29.4	29.4	8.2	8.2	21.7	21.7	91.3	91.2	6.2	5.6	5	5				
					12.2	0.1	352	29.0	29.0	8.3	8.3	22.9	22.9	78.8	78.7	5.3	5.0	6	6				
					12.2	0.1	324	29.0	29.0	8.3	8.3	23.0	23.0	76.6	76.6	5.3	4.9	5	5				
C3	Sunny	Moderate	09:04	11.8	Surface	1.0	0.5	261	29.4	29.4	8.0	8.0	21.5	21.5	98.5	98.5	6.7	3.5	4	4	822121	817825	
						1.0	0.5	267	29.4	29.4	8.0	8.0	21.5	21.5	98.4	98.5	6.7	3.5	4	4			
						5.9	0.7	268	28.6	28.6	8.0	8.0	24.1	24.1	84.8	84.8	5.8	3.6	3	3			
					5.9	0.7	292	28.6	28.6	8.0	8.0	24.0	24.0	84.8	84.8	5.8	3.6	4	4				
					10.8	0.5	289	26.8	26.8	8.1	8.1	30.1	30.1	58.4	58.6	4.0	5.9	3	3				
					10.8	0.5	305	26.8	26.8	8.1	8.1	30.1	30.1	58.7	58.6	4.0	5.7	4	4				
IM1	Sunny	Moderate	10:16	5.3	Surface	1.0	0.2	335	28.4	28.4	8.2	8.2	25.7	25.8	88.8	88.3	6.0	7.0	4	4	817959	807111	
						1.0	0.2	308	28.3	28.3	8.2	8.2	25.9	25.9	87.8	88.3	5.9	7.6	4	4			
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-
					4.3	0.1	262	27.8	27.8	8.2	8.2	27.4	27.4	72.2	72.3	4.9	12.0	6	6				
					4.3	0.1	275	27.8	27.8	8.2	8.2	27.4	27.4	72.4	72.3	4.9	12.2	6	6				
					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
IM2	Sunny	Moderate	10:24	7.3	Surface	1.0	0.4	4	28.9	28.9	8.2	8.2	23.4	23.4	90.3	90.3	6.1	4.7	5	5	818143	806154	
						1.0	0.4	4	28.9	28.9	8.2	8.2	23.4	23.4	90.2	90.3	6.1	4.7	4	4			
						3.7	0.4	348	28.4	28.4	8.2	8.2	24.0	24.0	89.2	89.1	6.1	4.5	5	5			
					3.7	0.4	320	28.3	28.3	8.2	8.2	24.0	24.0	88.9	89.1	6.1	4.5	6	6				
					6.3	0.3	300	27.8	27.8	8.2	8.2	27.3	27.3	73.7	73.8	5.0	15.9	7	7				
					6.3	0.3	328	27.8	27.8	8.2	8.2	27.3	27.3	73.8	73.8	5.0	16.0	8	8				
IM3	Sunny	Moderate	10:31	7.6	Surface	1.0	0.4	337	28.4	28.4	8.2	8.2	22.8	22.8	90.5	90.1	6.2	5.6	2	2	818784	805576	
						1.0	0.4	357	28.3	28.3	8.2	8.2	22.8	22.8	89.6	90.1	6.2	5.8	3	3			
						3.8	0.4	338	28.0	28.0	8.2	8.2	26.3	26.4	78.1	78.1	5.3	6.5	3	3			
					3.8	0.5	342	27.9	27.9	8.2	8.2	26.4	26.4	78.1	78.1	5.3	6.5	4	4				
					6.6	0.4	323	27.8	27.8	8.2	8.2	27.2	27.2	73.3	73.4	5.0	9.4	6	6				
					6.6	0.4	354	27.8	27.8	8.2	8.2	27.2	27.2	73.4	73.4	5.0	9.4	7	7				
IM4	Sunny	Moderate	10:41	8.8	Surface	1.0	0.7	354	28.8	28.7	8.2	8.2	22.9	22.9	90.9	90.9	6.2	3.9	2	2	819741	804619	
						1.0	0.8	326	28.6	28.6	8.2	8.2	22.9	22.9	90.9	90.9	6.2	3.9	2	2			
						4.4	0.7	351	27.6	27.6	8.2	8.2	27.7	27.7	67.7	67.6	4.6	8.9	2	2			
					4.4	0.7	323	27.6	27.6	8.2	8.2	27.7	27.7	67.5	67.6	4.6	8.5	3	3				
					7.8	0.4	339	27.6	27.6	8.2	8.2	27.8	27.8	67.6	67.7	4.6	14.8	3	3				
					7.8	0.4	312	27.6	27.6	8.2	8.2	27.8	27.8	67.8	67.7	4.6	15.0	4	4				
IM5	Sunny	Moderate	10:47	7.0	Surface	1.0	1.1	2	28.7	28.7	8.2	8.2	23.5	23.5	91.0	91.0	6.2	5.7	4	4	820720	804881	
						1.0	1.2	2	28.7	28.7	8.2	8.2	23.5	23.5	90.9	91.0	6.2	5.9	4	4			
						3.5	1.0	9	28.5	28.5	8.2	8.2	24.8	24.9	83.8	83.9	5.7	6.8	3	3			
					3.5	1.0	9	28.4	28.4	8.2	8.2	24.9	24.9	83.9	83.9	5.7	6.8	4	4				
					6.0	0.6	19	28.1	28.1	8.2	8.2	26.3	26.2	78.3	78.5	5.3	11.4	4	4				
					6.0	0.7	20	28.1	28.1	8.2	8.2	26.2	26.2	78.7	78.5	5.3	11.3	3	3				
IM6	Sunny	Moderate	10:57	7.8	Surface	1.0	0.1	165	29.3	29.3	8.3	8.3	20.5	20.5	106.9	106.8	7.3	5.1	3	3	821055	805845	
						1.0	0.1	172	29.2	29.2	8.3	8.3	20.5	20.5	106.6	106.8	7.3	5.4	3	3			
						3.9	0.4	52	28.8	28.8	8.3	8.3	24.7	24.7	87.9	88.0	5.9	8.0	3	3			
					3.9	0.5	53	28.8	28.8	8.3	8.3	24.7	24.7	88.1	88.0	5.9	8.4	3	3				
					6.8	0.2	79	28.3	28.3	8.2	8.2	25.7	25.7	80.7	80.9	5.5	12.8	4	4				
					6.8	0.2	79	28.3	28.3	8.2	8.2	25.7	25.7	81.0	80.9	5.5	12.8	3	3				
IM7	Sunny	Moderate	11:07	8.0	Surface	1.0	0.0	223	29.5	29.5	8.3	8.3	20.4	20.4	101.0	100.8	6.9	2.8	4	4	821346	806846	
						1.0	0.0	241	29.5	29.5	8.3	8.3	20.4	20.4	100.6	100.8	6.9	2.9	3	3			
						4.0	0.1	57	29.4	29.3	8.3	8.3	20.9	20.9	98.6	98.5	6.7	3.9	3	3			
					4.0	0.1	57	29.2	29.2	8.3	8.3	20.9	20.9	98.4	98.5	6.7	4.0	4	4				
					7.0	0.3	68	28.8	28.9	8.3	8.3	25.4	25.3	80.5	81.0	5.4	7.8	5	5				
					7.0	0.3	73	28.9	28.9	8.3	8.3	25.3	25.3	81.4	81.0	5.5	7.5	6	6				
IM8	Sunny	Rough	10:49	8.6	Surface	1.0	0.2	90	29.8	29.8	7.8	7.8	19.7	19.7	100.3	100.3	6.8	4.6	2	2	821841	808122	
						1.0	0.2	95	29.8	29.8	7.8	7.8	19.7	19.7	100.3	100.3	6.8	4.6	4	4			
						4.3	0.3	90	29.3	29.3	7.7	7.7	21.5	21.5	82.7	82.7	5.6	3.6	3	3			
					4.3	0.3	91	29.3	29.3	7.7	7.7	21.4	21.4	82.7	82.7	5.6	3.6	4	4				
					7.6	0.3	83	28.6	28.6	7.7	7.7	24.6	24.6	69.7	69.8	4.7	7.3	4	4				
					7.6	0.4	88	28.6	28.6	7.7	7.7	24.6	24.6	69.8	69.8	4.7	7.2	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

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Water Quality Monitoring

Water Quality Monitoring Results on 15 July 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					
																									Value	DA	Value
IM9	Sunny	Rough	10:41	8.1	Surface	1.0	0.4	88	29.4	29.4	7.8	7.8	21.1	21.1	86.5	86.5	5.9	5.6	2.1	5.3	3	4	822087	808806			
						1.0	0.4	96	29.4	29.1	7.8	7.8	21.1	21.1	86.5	86.5	5.9	5.6	2.1	5.3	4						
					Middle	4.1	0.3	88	29.1	29.1	7.8	7.8	22.2	22.2	76.6	76.6	5.2	5.1	6.8	5.3	3				4		
						4.1	0.3	89	29.1	29.1	7.8	7.8	22.3	22.3	76.6	76.6	5.2	5.1	6.8	5.3	4				4		
					Bottom	7.1	0.1	82	29.0	29.0	7.8	7.8	23.1	23.1	75.3	75.4	5.1	5.1	7.1	5.4	6				4		
						7.1	0.1	85	29.0	29.0	7.8	7.8	23.1	23.1	75.4	75.4	5.1	5.1	7.0	5.4	4				4		
IM10	Sunny	Rough	10:32	9.1	Surface	1.0	0.4	341	29.7	29.7	7.9	7.9	21.0	21.0	95.5	95.5	6.5	6.6	4.7	3.5	4	4	822408	809775			
						1.0	0.4	343	29.7	29.7	7.9	7.9	21.0	21.0	95.5	95.5	6.5	6.6	4.7	3.5	5						
					Middle	4.6	0.4	327	29.6	29.6	7.9	7.9	21.7	21.6	96.8	96.8	6.6	6.6	2.6	3.5	4						
						4.6	0.5	350	29.6	29.6	7.9	7.9	21.6	21.6	96.8	96.8	6.6	6.6	2.6	3.5	4						
					Bottom	8.1	0.2	332	28.8	28.8	7.9	7.9	23.9	23.9	82.3	82.5	5.6	5.6	3.1	3.5	3						
						8.1	0.3	338	28.8	28.8	7.9	7.9	23.9	23.9	82.6	82.5	5.6	5.6	3.1	3.5	3						
IM11	Sunny	Rough	10:22	8.9	Surface	1.0	0.4	279	29.6	29.6	7.9	7.9	22.0	22.0	96.2	96.2	6.5	6.1	4.7	5.7	4	5	822075	811466			
						1.0	0.5	303	29.6	29.6	7.9	7.9	22.0	22.0	96.1	96.2	6.5	6.1	4.7	5.7	4						
					Middle	4.5	0.3	284	28.9	28.9	7.8	7.8	23.8	23.7	82.4	82.9	5.6	5.6	3.1	5.7	4						
						4.5	0.3	293	28.9	28.9	7.8	7.8	23.6	23.7	83.3	82.9	5.6	5.6	3.4	5.7	5						
					Bottom	7.9	0.1	245	28.1	28.1	7.8	7.8	25.9	26.0	72.1	71.9	4.9	4.9	9.1	6.5	6						
						7.9	0.1	254	28.1	28.1	7.8	7.8	26.0	26.0	71.7	71.9	4.9	4.9	9.1	6.5	5						
IM12	Sunny	Rough	10:15	9.6	Surface	1.0	0.4	273	28.9	28.9	7.8	7.8	23.5	23.5	83.5	83.5	5.7	5.5	2.5	6.5	3	4	821476	812024			
						1.0	0.4	282	28.9	28.9	7.8	7.8	23.5	23.5	83.4	83.5	5.7	5.5	2.6	6.5	4						
					Middle	4.8	0.3	274	28.5	28.5	7.8	7.8	24.4	24.4	76.6	76.6	5.2	5.2	6.3	6.5	3						
						4.8	0.3	279	28.5	28.5	7.8	7.8	24.4	24.4	76.6	76.6	5.2	5.2	6.4	6.5	4						
					Bottom	8.6	0.1	283	28.3	28.3	7.8	7.8	25.0	25.0	72.8	72.8	4.9	4.9	10.5	6.5	5						
						8.6	0.1	306	28.3	28.3	7.8	7.8	25.0	25.0	72.8	72.8	4.9	4.9	10.6	6.5	5						
SR1A	Sunny	Moderate	09:43	5.1	Surface	1.0	-	-	29.8	29.8	7.8	7.8	20.4	20.4	89.8	89.8	6.1	6.1	5.5	7.5	4	3	819975	812666			
						1.0	-	-	29.8	29.8	7.8	7.8	20.4	20.4	89.8	89.8	6.1	6.1	5.5	7.5	3						
					Middle	2.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	7.5	-
						2.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-
					Bottom	4.1	-	-	29.3	29.3	7.8	7.8	21.7	21.7	80.3	80.5	5.5	5.5	9.4	6.5	2						
						4.1	-	-	29.3	29.3	7.8	7.8	21.7	21.7	80.7	80.5	5.5	5.5	9.5	6.5	3						
SR2	Sunny	Moderate	09:26	4.5	Surface	1.0	0.2	310	29.5	29.5	8.0	8.0	21.6	21.6	93.3	93.3	6.3	6.3	1.7	4.3	3	4	821448	814185			
						1.0	0.3	321	29.5	29.5	8.0	8.0	21.6	21.6	93.2	93.3	6.3	6.3	1.6	4.3	2						
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	4.3	-
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-
					Bottom	3.5	0.1	322	28.6	28.6	8.1	8.1	24.3	24.3	76.6	76.5	5.2	5.2	7.0	6.5	6						
						3.5	0.1	339	28.6	28.6	8.1	8.1	24.3	24.3	76.4	76.5	5.2	5.2	7.1	6.5	4						
SR3	Sunny	Rough	10:56	9.9	Surface	1.0	0.2	104	29.9	29.9	7.9	7.9	20.0	20.0	102.0	102.0	6.9	6.5	6.3	4.5	4	4	822150	807575			
						1.0	0.2	113	29.9	29.9	7.9	7.9	20.0	20.0	101.9	102.0	6.9	6.5	6.3	4.5	3						
					Middle	5.0	0.3	98	29.1	29.1	7.8	7.8	23.0	23.0	89.2	89.3	6.0	6.0	5.4	4.5	4						
						5.0	0.3	102	29.1	29.1	7.8	7.8	23.0	23.0	89.3	89.3	6.0	6.0	5.4	4.5	4						
					Bottom	8.9	0.4	67	29.8	29.8	7.9	7.9	20.3	20.3	99.8	99.8	6.8	6.8	2.0	6.5	5						
						8.9	0.5	71	29.8	29.8	7.9	7.9	20.3	20.3	99.8	99.8	6.8	6.8	2.0	6.5	4						
SR4A	Sunny	Moderate	09:33	9.1	Surface	1.0	0.2	237	29.5	29.5	8.3	8.3	21.4	21.4	101.0	101.0	6.8	6.1	4.4	8.2	8	6	817166	807797			
						1.0	0.2	251	29.5	29.5	8.3	8.3	21.4	21.4	100.9	101.0	6.8	6.1	4.4	8.2	7						
					Middle	4.6	0.0	162	28.1	28.1	8.2	8.2	26.4	26.4	77.8	77.8	5.3	5.3	7.9	8.2	5						
						4.6	0.0	177	28.1	28.1	8.2	8.2	26.4	26.4	77.8	77.8	5.3	5.3	8.3	8.2	6						
					Bottom	8.1	0.1	83	27.9	27.9	8.2	8.2	27.1	27.1	73.5	73.6	5.0	5.0	12.0	6.5	5						
						8.1	0.1	88	27.9	27.9	8.2	8.2	27.1	27.1	73.6	73.6	5.0	5.0	12.1	6.5	6						
SR5A	Sunny	Moderate	09:16	3.6	Surface	1.0	0.2	299	29.6	29.6	8.3	8.3	21.4	21.4	98.9	98.8	6.7	6.7	8.1	10.2	5	5	816590	810716			
						1.0	0.2	326	29.6	29.6	8.3	8.3	21.4	21.4	98.7	98.8	6.7	6.7	8.5	10.2	5						
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	10.2	-
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-
					Bottom	2.6	0.1	306	29.6	29.6	8.3	8.3	21.5	21.5	97.8	97.8	6.6	6.6	12.0	6.5	4						
						2.6	0.1	323	29.6	29.6	8.3	8.3	21.5	21.5	97.8	97.8	6.6	6.6	12.1	6.5	4						
SR6A	Sunny	Moderate	08:50	4.1	Surface	1.0	0.1	254	29.4	29.4	8.3	8.3	21.5	21.6	104.4	104.3	7.1	7.1	5.2	7.3	4	4	817953	814739			
						1.0	0.1	259	29.4	29.4	8.3	8.3	21.6	21.6	104.1	104.3	7.1	7.1	5.6	7.3	5						
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	7.3	-
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-
					Bottom	3.1	0.0	329	29.3	29.3	8.2	8.2	22.2	22.2	96.3	96.5	6.5	6.5	8.7	6.5	4						
						3.1	0.0	352	29.2	29.2	8.2	8.2	22.3	22.2	96.6	96.5	6.5	6.5	9.8	6.5	3						
SR7	Sunny	Moderate	08:33	15.4	Surface	1.0	0.2	350	29.2	29.2	7.9	7.9	22.3	22.3	97.9	97.9	6.6	5.5	1.6	1.4	3	4	823652	823758			
						1.0	0.3	356	29.2	29.2	7.9	7.9	22.3	22.3	97.8	97.9	6.6	5.5	1.5	1.4	3						
					Middle	7.7	0.3	67	27.3	27.3	8.0	8.0	28.2	28.2	65.0	65.0	4.4	4.4	1.4	6.5	3						
						7.7	0.3	73	27.3	27.3	8.0	8.0	28.2	28.2	65.0	65.0	4.4	4.4	1.5	6.5	3						
					Bottom	14.4	0.2	61	26.8	26.8	8.1	8.1	29.9	29.9	55.1	55.1	3.7	3.7	1.2	6.5	5						
						14.4	0.2	63	26.8	26.8	8.1	8.1	29.9	29.9	55.0	55.1	3.7	3.7	1.2	6.5	4						
SR8	Sunny	Moderate	10:06	4.7	Surface	1.0	-	-	28.9	28.9	7.8	7.8	23.2	23.2	79.1	79.1	5.4	5.4	4.3	6.5	4	4	820413	811608			
						1.0	-	-	28.9	28.9	7.8	7.8															

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

Water Quality Monitoring

Water Quality Monitoring Results on 17 July 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	17:49	8.4	Surface	1.0	0.5	234	29.8	29.8	8.2	8.2	20.8	20.8	109.8	109.8	7.4	4.5	6.1	4.5	10	10	9	815637	804261								
						1.0	0.5	245	29.8	8.2	8.2	20.8	20.8	109.8	109.8	7.4	4.5	6.1	4.5	10	10												
					Middle	4.2	0.6	210	27.7	27.7	8.1	8.1	28.7	28.7	70.1	70.2	4.7	5.8	6.7	5.8	9	9				6	825683	806955					
						4.2	0.6	222	27.7	27.7	8.1	8.1	28.6	28.6	70.3	70.2	4.7	5.8	6.7	5.8	9	9											
					Bottom	7.4	0.4	211	26.5	26.5	8.4	8.4	32.3	32.2	71.6	71.6	4.8	9.6	4.8	4.8	9.6	9.7							8	8	7	822125	817809
						7.4	0.4	229	26.6	26.6	8.4	8.4	32.2	32.2	71.6	71.6	4.8	9.6	4.8	4.8	9.6	9.7							8	8			
C2	Fine	Calm	16:37	12.6	Surface	1.0	0.1	179	29.8	29.8	8.4	8.4	20.4	20.5	116.9	116.8	7.9	6.8	5.9	2.9	6	6	6	822125	817809								
						1.0	0.1	182	29.8	29.8	8.4	8.4	20.5	20.5	116.6	116.8	7.9	6.8	5.9	2.9	6	6											
					Middle	6.3	0.2	159	28.8	28.8	8.2	8.2	23.5	23.6	83.3	83.4	5.7	4.8	4.5	4.8	6	6				7	817956	807150					
						6.3	0.2	162	28.7	28.8	8.2	8.2	23.6	23.6	83.4	83.4	5.7	4.8	4.5	4.8	6	6											
					Bottom	11.6	0.2	45	28.6	28.6	8.3	8.3	25.5	25.5	76.2	76.4	5.1	5.7	5.2	5.2	5.7	5.7							6	6	7	818158	806163
						11.6	0.2	47	28.6	28.6	8.3	8.3	25.4	25.5	76.6	76.4	5.2	5.7	5.2	5.7	5.7	5.7							6	6			
C3	Fine	Calm	18:47	12.2	Surface	1.0	0.3	55	29.1	29.1	8.4	8.4	24.4	24.4	123.5	121.6	8.3	7.0	6.0	1.8	6	6	7	818158	806163								
						1.0	0.3	59	29.1	29.1	8.4	8.4	24.4	24.4	119.7	121.6	8.0	7.0	6.0	1.9	6	6											
					Middle	6.1	0.2	280	26.9	26.9	8.2	8.2	29.8	29.8	89.2	87.5	6.0	2.3	2.6	2.3	7	7				8	820717	804860					
						6.1	0.2	293	26.9	26.9	8.2	8.2	29.8	29.8	85.8	87.5	5.8	2.4	2.6	2.4	7	7											
					Bottom	11.2	0.2	307	26.9	26.9	8.2	8.2	29.8	29.7	84.8	87.0	5.7	3.5	5.9	3.5	7	7							8	821077	805847		
						11.2	0.2	331	26.9	26.9	8.2	8.2	29.7	29.7	89.1	87.0	6.0	3.6	5.9	3.6	7	7											
IM1	Cloudy	Rough	17:29	5.2	Surface	1.0	0.0	295	29.8	29.8	8.2	8.2	22.3	22.4	135.9	135.6	9.1	8.7	8.7	9	9	5	821077	805847									
						1.0	0.0	303	29.8	29.8	8.2	8.2	22.4	22.4	135.2	135.6	9.1	8.3	8.7	9	9												
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	6				821077	805847
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-						
					Bottom	4.2	0.1	139	29.4	29.5	8.1	8.1	23.8	23.6	128.3	128.3	8.6	9.1	8.6	8.6	9.1				9.1	9	9		7	821353	806839		
						4.2	0.1	141	29.5	29.5	8.1	8.1	23.5	23.5	128.3	128.3	8.6	9.2	8.6	8.6	9.2				10	10							
IM2	Cloudy	Rough	17:19	7.4	Surface	1.0	0.3	180	29.7	29.7	8.1	8.1	21.2	21.2	134.7	134.6	9.1	4.0	6.5	3.8	5	5	5	821353	806839								
						1.0	0.3	191	29.7	29.7	8.1	8.1	21.2	21.2	134.4	134.6	9.1	3.9	6.5	3.9	5	5											
					Middle	3.7	0.2	140	28.5	28.5	8.1	8.1	25.5	25.5	76.8	76.6	5.2	7.2	5.0	7.2	5	5				7	821353	806839					
						3.7	0.3	146	28.5	28.5	8.1	8.1	25.5	25.5	76.3	76.6	5.1	7.2	5.0	7.2	5	5											
					Bottom	6.4	0.2	136	27.9	27.9	8.0	8.0	27.6	27.7	73.0	73.4	4.9	8.4	5.0	8.4	6	6							8	821353	806839		
						6.4	0.2	141	27.9	27.9	8.0	8.0	27.8	27.7	73.7	73.4	5.0	8.3	5.0	8.3	5	5											
IM3	Cloudy	Rough	17:10	7.6	Surface	1.0	0.2	150	29.7	29.7	8.0	8.0	21.5	21.5	135.7	135.7	9.2	3.8	6.4	3.8	5	5	6	821353	806839								
						1.0	0.2	156	29.7	29.7	8.0	8.0	21.5	21.5	135.6	135.7	9.2	3.8	6.4	3.8	5	5											
					Middle	3.8	0.3	150	28.4	28.4	8.0	8.0	24.9	24.9	75.4	75.5	5.1	6.9	5.0	6.9	6	6				7	821353	806839					
						3.8	0.3	153	28.4	28.4	8.0	8.0	24.9	24.9	75.5	75.5	5.1	6.9	5.0	6.9	6	6											
					Bottom	6.6	0.3	119	28.0	28.0	8.0	8.0	27.4	27.4	73.2	74.4	4.9	8.4	5.0	8.4	7	7							8	821353	806839		
						6.6	0.3	120	28.0	28.0	8.0	8.0	27.4	27.4	75.5	74.4	5.1	8.3	5.0	8.3	6	6											
IM4	Cloudy	Rough	16:59	8.8	Surface	1.0	0.4	192	29.7	29.7	8.1	8.1	21.1	21.1	118.8	118.8	8.0	4.8	7.8	4.8	6	6	5	821353	806839								
						1.0	0.4	193	29.7	29.7	8.1	8.1	21.1	21.1	118.1	118.8	8.0	4.8	7.8	4.8	6	6											
					Middle	4.4	0.3	179	28.0	28.0	8.4	8.4	27.3	27.3	57.7	57.5	3.9	8.1	3.6	8.1	5	5				9	821353	806839					
						4.4	0.3	196	28.0	28.0	8.4	8.4	27.4	27.3	57.2	57.5	3.9	8.3	3.6	8.3	4	4											
					Bottom	7.8	0.3	179	27.4	27.4	8.4	8.4	29.6	29.5	53.2	53.2	3.6	10.2	3.6	10.2	5	5							10	821353	806839		
						7.8	0.3	183	27.4	27.4	8.4	8.4	29.5	29.5	53.2	53.2	3.6	10.7	3.6	10.7	5	5											
IM5	Cloudy	Rough	16:48	8.1	Surface	1.0	0.5	230	29.4	29.4	8.1	8.1	22.2	22.2	121.8	121.7	8.2	3.8	6.8	3.8	4	4	5	821353	806839								
						1.0	0.5	243	29.4	29.4	8.1	8.1	22.2	22.2	121.6	121.7	8.2	3.8	6.8	3.8	4	4											
					Middle	4.1	0.4	195	28.6	28.6	8.1	8.1	24.4	24.3	82.0	81.9	5.6	5.5	6.1	5.5	5	5				6	821353	806839					
						4.1	0.5	209	28.6	28.6	8.1	8.1	24.3	24.3	81.7	81.9	5.5	5.5	6.1	5.5	5	5											
					Bottom	7.1	0.3	178	27.8	27.8	8.4	8.4	28.2	28.2	59.6	60.8	4.0	11.1	4.1	11.2	6	6							11	821353	806839		
						7.1	0.3	178	27.8	27.8	8.4	8.4	28.2	28.2	62.0	60.8	4.2	11.2	4.1	11.2	6	6											
IM6	Cloudy	Rough	16:43	7.3	Surface	1.0	0.3	241	29.8	29.8	8.2	8.2	22.5	22.5	130.2	130.2	8.7	4.3	6.0	4.3	6	6	5	821353	806839								
						1.0	0.3	259	29.8	29.8	8.2	8.2	22.5	22.5	130.1	130.2	8.7	4.3	6.0	4.3	6	6											
					Middle	3.7	0.3	198	29.6	29.6	8.1	8.1	22.8	22.8	103.5	102.9	6.9	6.1	6.0	6.1	5	5				7	821353	806839					
						3.7	0.3	201	29.6	29.6	8.1	8.1	22.8	22.8	102.3	102.9	6.9	6.1	6.0	6.1	5	5											
					Bottom	6.3	0.2	195	28.3	28.5	8.2	8.2	26.5	26.3	94.1	94.1	6.3	7.6	6.3	7.6	4	4							8	821353	806839		
						6.3	0.2	210	28.6	28.5	8.2	8.2	26.2	26.3	94.1	94.1	6.3	7.8	6.3	7.8	5	5											
IM7	Cloudy	Rough	16:37	7.6	Surface	1.0	0.3	229	30.3	30.3	8.2	8.2	21.0	21.0	136.4	136.3	9.1	4.2	6.0	4.2	7	7	6	821353	806839								
						1.0	0.3	247	30.3	30.3	8.2	8.2	21.0	21.0	136.1	136.3	9.1	4.2	6.0	4.2	7	7											
					Middle	3.8	0.1	197	29.2	29.2	8.2	8.2	24.0	24.0	104.9	104.9	7.0	7.8	6.1	7.8	6	6				9	821353	806839					
						3.8	0.1	197	29.2	29.2	8.2	8.2	24.0	24.0	104.8	104.9	7.0	7.7	6.1	7.7	6	6											
					Bottom	6.6	0.2	114	28.7	28.7	8.2	8.2	25.3	25.3	89.7	90.3	6.0	10.1	6.1	10.1	5	5							10	821353	806839		
						6.6	0.2	121	28.7	28.7	8.2	8.2																					

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

Water Quality Monitoring

Water Quality Monitoring Results on 17 July 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	12:04	8.2	Surface	1.0	0.6	37	29.5	29.5	8.1	8.1	20.1	20.1	100.3	100.1	6.9	4.0	3											
						1.0	0.6	38	29.5			20.1		99.9		6.8	4.0	3												
						4.1	0.5	34	29.0	29.0	8.1	8.1	23.2	23.2	90.8	89.9	6.1	5.6	2											
					Middle	4.1	0.6	34	29.0			8.1	8.1	23.2	23.2	88.9		6.0	5.6	3					3					
						7.2	0.3	19	26.6	26.6	8.3	8.3	32.0	32.0	39.4	39.5	2.6	6.2	4											
						7.2	0.3	19	26.6			8.3	8.3	32.0	32.0	39.5		2.7	6.2	3										
C2	Fine	Calm	13:06	12.2	Surface	1.0	0.3	348	29.5	29.5	8.3	8.3	19.8	19.8	105.7	105.5	7.2	3.0	6											
						1.0	0.3	353	29.4			8.3	8.3	19.8		7.2	3.0	5												
						6.1	0.2	17	28.5	28.5	8.2	8.2	23.6	23.7	81.4	81.4	5.5	5.8	4						5					
					Middle	6.1	0.2	19	28.4			8.2	8.2	23.7		81.3		5.6	6.7	4										
						11.2	0.1	335	28.1	28.1	8.2	8.2	28.4	28.4	69.6		4.7	7.1	4											
						11.2	0.1	358	28.1			8.2	8.2	26.4	26.4	70.0	69.8	4.7	7.0	4										
C3	Fine	Calm	11:06	11.8	Surface	1.0	0.5	267	28.6	28.6	8.3	8.3	22.7	22.7	99.8	99.1	6.8	2.8	5											
						1.0	0.5	281	28.5			8.3	8.3	22.7		98.4		6.7	2.8	5										
						5.9	0.5	250	27.7	27.7	8.2	8.2	26.0	26.1	82.7	82.6	5.6	5.4	5											
					Middle	5.9	0.5	260	27.6			8.2	8.2	26.1		82.4		5.6	5.8	5										
						10.8	0.4	267	27.2	27.2	8.2	8.2	29.0	29.0	75.1	75.3	5.1	6.2	5											
						10.8	0.5	293	27.2			8.2	8.2	28.9		75.4		5.1	6.2	4										
IM1	Cloudy	Rough	12:24	5.1	Surface	1.0	0.0	356	29.6	29.6	8.0	8.0	23.0	23.0	110.0	109.8	7.4	8.1	3											
						1.0	0.0	328	29.6			8.0	8.0	23.0		109.6		7.4	8.2	3										
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
					Middle	4.1	0.1	2	28.7	28.7	7.9	7.9	25.7	25.7	82.5	83.0	5.5	7.3	3											
						4.1	0.1	2	28.7			7.9	7.9	25.7		83.5		5.6	7.3	4										
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
IM2	Cloudy	Rough	12:31	7.0	Surface	1.0	0.3	357	29.6	29.6	8.0	8.0	22.0	22.0	116.6	116.4	7.9	3.8	4											
						1.0	0.3	357	29.6			8.0	8.0	22.0		116.2		7.8	3.8	4										
						3.5	0.3	2	28.7	28.6	8.0	8.0	25.1	25.1	84.7	84.7	5.7	8.0	4											
					Middle	3.5	0.3	2	28.6			8.0	8.0	25.2		84.7		5.7	8.0	4										
						6.0	0.2	336	27.7	27.8	8.0	8.0	28.7	28.7	85.7	85.7	5.7	7.9	5											
						6.0	0.2	309	27.8			8.0	8.0	28.7		85.7		5.7	7.9	4										
IM3	Cloudy	Rough	12:38	7.2	Surface	1.0	0.4	343	29.3	29.3	7.9	7.9	23.3	23.3	109.2	109.1	7.4	4.4	6											
						1.0	0.5	356	29.3			7.9	7.9	23.3		108.9		7.3	4.3	5										
						3.6	0.4	344	28.9	28.9	8.1	8.1	24.4	24.4	85.3	84.2	5.8	5.2	5											
					Middle	3.6	0.4	351	28.9			8.1	8.1	24.4		83.0		5.6	5.3	4										
						6.2	0.3	335	28.2	28.2	8.1	8.1	26.7	26.6	68.3	68.3	4.6	7.7	5											
						6.2	0.3	342	28.2			8.1	8.1	26.5		68.2		4.6	7.8	4										
IM4	Cloudy	Rough	12:47	8.8	Surface	1.0	0.7	0	29.2	29.2	8.1	8.1	23.4	23.5	91.5	91.1	8.2	5.9	3											
						1.0	0.7	0	29.2			8.1	8.1	23.5		90.7		6.1	6.0	4										
						4.4	0.7	357	28.5	28.5	8.0	8.0	25.1	25.1	68.1	67.9	4.6	5.6	5											
					Middle	4.4	0.7	328	28.5			8.0	8.0	25.1		67.7		4.6	5.6	4										
						7.8	0.3	348	27.6	27.6	8.4	8.4	28.7	28.7	55.6	55.7	3.7	6.1	4											
						7.8	0.3	320	27.6			8.4	8.4	28.7		55.7		3.7	6.1	5										
IM5	Cloudy	Rough	12:55	7.0	Surface	1.0	1.0	5	29.6	29.6	8.1	8.1	22.5	22.5	125.5	125.4	8.4	3.6	5											
						1.0	1.0	5	29.6			8.1	8.1	22.5		125.2		8.4	3.6	5										
						3.5	0.8	7	28.9	28.9	8.2	8.2	24.7	24.7	63.2	63.2	4.2	5.4	6											
					Middle	3.5	0.9	7	28.9			8.2	8.2	24.7		63.2		4.3	5.4	6										
						6.0	0.5	18	28.0	28.0	7.9	7.9	27.3	27.3	63.4	63.7	4.3	9.4	7											
						6.0	0.6	19	28.0			7.9	7.9	27.3		64.0		4.3	9.3	6										
IM6	Cloudy	Rough	13:05	7.4	Surface	1.0	0.1	278	30.1	30.1	8.0	8.0	20.8	20.8	99.1	99.1	6.7	7.2	6											
						1.0	0.1	283	30.1			8.0	8.0	20.8		99.1		6.7	7.2	6										
						3.7	0.1	22	29.8	29.8	8.0	8.0	21.4	21.4	99.5	99.5	6.7	7.6	7											
					Middle	3.7	0.1	22	29.8			8.0	8.0	21.4		99.5		6.7	7.6	6										
						6.4	0.2	76	28.2	28.2	8.1	8.1	26.1	26.6	97.8	103.4	6.6	8.2	5											
						6.4	0.2	79	28.3			8.1	8.1	27.0		109.0		7.3	8.2	6										
IM7	Cloudy	Rough	13:15	8.0	Surface	1.0	0.2	192	30.2	30.2	8.1	8.1	20.7	20.7	111.0	110.5	7.5	4.0	5											
						1.0	0.2	200	30.2			8.1	8.1	20.7		110.0		7.4	4.1	5										
						4.0	0.2	173	29.4	29.4	8.2	8.2	22.2	22.2	86.2	85.8	5.8	7.0	6											
					Middle	4.0	0.2	183	29.4			8.2	8.2	22.2		85.3		5.8	7.1	6										
						7.0	0.1	71	28.1	27.9	8.4	8.4	25.9	27.0	66.7	68.7	4.5	3.4	7											
						7.0	0.1	77	27.8			8.4	8.4	28.2		70.7		4.7	3.4	6										
IM8	Fine	Calm	12:39	8.0	Surface	1.0	0.1	192	29.6	29.6	8.4	8.4	20.6	20.6	112.1	111.7	7.6	3.5	4											
						1.0	0.1	197	29.5			8.4	8.4	20.7		111.2		7.6	3.6	5										
						4.0	0.1	168	29.1	29.1	8.2	8.2	22.5	22.5	85.5	85.3	5.8	4.5	4											
					Middle	4.0	0.1	175	29.1																					

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 17 July 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	Calm	12:33	7.2	Surface	1.0	0.1	356	29.0	29.0	8.4	8.4	21.1	21.1	103.0	99.3	7.1	7.0	5										
						1.0	0.1	328	28.9	8.4	8.4	21.1	21.1	95.5	6.6	6.6	7.6	5											
					Middle	3.6	0.0	23	28.8	28.8	8.1	8.1	23.7	23.7	75.4	75.4	5.1	8.4	7	8.4	6								
						3.6	0.0	23	28.8	28.8	8.1	8.1	23.7	23.7	75.4	75.4	5.1	8.4	6	8.4	7	8.4	6						
					Bottom	6.2	0.1	100	28.9	29.0	8.1	8.1	23.7	23.6	75.9	76.1	5.1	9.3	8	9.3	8	9.3	5						
						6.2	0.1	107	29.9	29.9	8.4	8.4	23.6	23.6	76.2	76.2	5.1	9.6	7	9.6	7	9.6	5						
IM10	Fine	Calm	12:26	8.2	Surface	1.0	0.2	352	29.5	29.5	8.4	8.4	20.9	20.8	118.2	118.9	8.0	6.4	5										
						1.0	0.2	354	29.4	29.5	8.4	8.4	20.9	20.8	118.2	118.9	8.0	6.4	5										
					Middle	4.1	0.1	304	28.4	28.4	8.1	8.1	25.1	25.1	71.6	71.6	4.8	4.5	5	4.5	5								
						4.1	0.2	305	28.4	28.4	8.1	8.1	25.2	25.1	71.6	71.6	4.8	4.6	5	4.6	5								
					Bottom	7.2	0.1	288	28.4	28.4	8.1	8.1	25.4	25.4	72.1	72.3	4.9	5.3	6	5.3	5								
						7.2	0.1	308	28.4	28.4	8.1	8.1	25.4	25.4	72.4	72.3	4.9	5.3	5	5.3	5								
IM11	Fine	Calm	12:16	7.4	Surface	1.0	0.8	302	29.4	29.4	8.4	8.4	20.8	20.8	121.6	121.3	8.3	7.3	5										
						1.0	0.8	303	29.3	29.4	8.4	8.4	20.8	20.8	120.9	121.3	8.3	3.8	4										
					Middle	3.7	0.6	301	28.8	28.8	8.3	8.3	24.0	24.0	93.6	94.2	6.3	4.9	4	4.9	5								
						3.7	0.7	322	28.8	28.8	8.3	8.3	23.9	24.0	94.7	94.2	6.4	4.7	4	4.7	4								
					Bottom	6.4	0.4	287	27.8	27.8	8.2	8.2	27.0	27.1	80.7	81.1	5.5	6.1	4	6.1	5								
						6.4	0.4	310	27.8	27.8	8.2	8.2	27.1	27.1	81.4	81.1	5.5	6.0	3	6.0	3								
IM12	Fine	Calm	12:10	9.2	Surface	1.0	0.6	280	29.9	29.9	8.4	8.4	20.4	20.4	123.4	123.2	8.4	5											
						1.0	0.6	304	29.9	29.9	8.4	8.4	20.4	20.4	122.9	123.2	8.3	3.1	4										
					Middle	4.6	0.6	281	27.8	27.8	8.2	8.2	25.7	25.7	75.8	75.5	5.1	7.0	6	7.0	5								
						4.6	0.6	289	27.8	27.8	8.2	8.2	25.7	25.7	75.2	75.5	5.1	7.0	6	7.0	5								
					Bottom	8.2	0.3	268	27.6	27.6	8.1	8.1	27.9	27.8	67.6	68.1	4.6	7.8	5	7.8	5								
						8.2	0.3	280	27.6	27.6	8.1	8.1	27.8	27.6	68.5	68.1	4.6	7.7	6	7.7	6								
SR1A	Fine	Calm	11:42	5.0	Surface	1.0	-	-	29.4	29.4	8.3	8.3	21.5	21.6	110.5	110.1	7.5	4.1	5										
						1.0	-	-	29.4	29.4	8.3	8.3	21.6	21.6	109.7	110.1	7.4	4.2	4										
					Middle	2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.5							
						2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
					Bottom	4.0	-	-	29.7	29.8	8.2	8.2	21.9	21.8	97.8	98.5	6.6	4.9	5	4.9	5								
						4.0	-	-	29.8	29.8	8.2	8.2	21.8	21.8	99.1	98.5	6.7	4.7	5	4.7	5								
SR2	Fine	Calm	11:27	4.6	Surface	1.0	0.2	188	29.2	29.2	8.3	8.3	21.1	21.1	115.0	112.8	7.9	5.4	4										
						1.0	0.2	197	29.2	29.2	8.3	8.3	21.0	21.0	110.6	112.8	7.5	5.8	4										
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.1							
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
					Bottom	3.6	0.1	189	29.6	29.7	8.3	8.3	23.5	23.4	96.2	98.7	6.6	6.7	5	6.7	5								
						3.6	0.1	197	29.8	29.7	8.3	8.3	23.3	23.4	99.1	98.7	6.6	6.5	5	6.5	5								
SR3	Fine	Calm	12:46	9.0	Surface	1.0	0.4	330	29.4	29.4	8.4	8.4	21.4	21.5	113.1	112.4	7.7	3.7	4										
						1.0	0.4	356	29.4	29.4	8.4	8.4	21.5	21.5	111.7	112.4	7.6	4.0	4										
					Middle	4.5	0.4	338	29.2	29.2	8.2	8.2	22.1	22.2	92.8	92.8	6.3	4.6	4	4.6	4								
						4.5	0.4	346	29.2	29.2	8.2	8.2	22.2	22.2	92.8	92.8	6.3	4.7	4	4.7	4								
					Bottom	8.0	0.3	327	28.8	28.8	8.2	8.2	23.4	23.4	82.2	82.3	5.6	5.3	4	5.3	4								
						8.0	0.3	341	28.8	28.8	8.2	8.2	23.4	23.4	82.4	82.3	5.6	5.3	4	5.3	4								
SR4A	Cloudy	Moderate	11:40	9.2	Surface	1.0	0.1	244	29.5	29.5	8.0	8.0	22.8	22.8	77.7	77.8	5.2	3.6	6										
						1.0	0.1	256	29.5	29.5	8.0	8.0	22.8	22.8	77.8	77.8	5.2	3.6	5										
					Middle	4.6	0.1	80	29.0	28.9	8.0	8.0	23.9	23.9	78.3	78.3	5.3	7.7	6	7.7	5								
						4.6	0.1	80	28.9	28.9	8.0	8.0	23.9	23.9	78.3	78.3	5.3	7.7	5	7.7	5								
					Bottom	8.2	0.1	78	27.7	27.7	8.4	8.4	28.7	28.7	56.0	56.2	3.8	13.0	6	13.0	5								
						8.2	0.1	81	27.7	27.7	8.4	8.4	28.7	28.7	56.4	56.4	3.8	13.0	5	13.0	5								
SR5A	Cloudy	Moderate	11:23	3.4	Surface	1.0	0.1	269	29.7	29.7	8.1	8.1	22.6	22.6	96.2	96.1	6.5	8.1	10										
						1.0	0.1	274	29.7	29.7	8.1	8.1	22.6	22.6	95.9	96.1	6.4	8.1	10										
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.2							
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
					Bottom	2.4	0.1	290	29.6	29.6	8.1	8.1	22.7	22.7	94.8	94.8	6.4	8.3	9	8.3	9								
						2.4	0.1	318	29.6	29.6	8.1	8.1	22.7	22.7	94.8	94.8	6.4	8.3	10	8.3	10								
SR6A	Cloudy	Moderate	10:53	4.2	Surface	1.0	0.1	285	29.6	29.6	8.1	8.1	22.7	22.7	100.3	100.2	6.7	10.7	6										
						1.0	0.1	286	29.6	29.6	8.1	8.1	22.7	22.7	100.1	100.2	6.7	10.7	5										
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10.8							
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
					Bottom	3.2	0.0	3	29.0	29.1	8.0	8.0	24.8	24.8	81.4	83.6	5.5	10.9	7	10.9	7								
						3.2	0.0	3	29.1	29.1	8.0	8.0	24.7	24.7	85.7	83.6	5.7	10.9	7	10.9	7								
SR7	Fine	Calm	10:32	15.4	Surface	1.0	0.1	262	28.9	28.9	8.3	8.3	22.6	22.6	107.0	106.9	7.3	2.7	5										
						1.0	0.1																						

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

Water Quality Monitoring Results on 22 July 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			Value	DA						
C1	Sunny	Moderate	11:35	7.4	Surface	1.0	0.9	203	27.9	27.9	8.2	8.2	27.5	27.5	71.3	71.3	4.8	4.8	5.5	5.5	5	6	815623	804267								
						1.0	1.0	210	27.9	8.2	8.2	27.5	27.5	71.3	71.3	4.8	4.8	5.5	5.5	4												
						3.7	0.6	205	27.5	8.2	8.2	28.5	28.5	70.6	70.6	4.8	4.8	8.7	8.7	6												
					Middle	3.7	0.7	210	27.5	27.5	8.2	8.2	28.5	28.5	70.6	70.6	4.8	4.8	8.8	8.8	7											
						6.4	0.4	207	27.5	27.5	8.2	8.2	29.2	29.2	71.0	71.0	4.8	4.8	7.5	7.5	7											
						6.4	0.5	213	27.5	27.5	8.2	8.2	29.2	29.2	71.0	71.0	4.8	4.8	7.5	7.5	6											
					C2	Fine	Calm	13:13	12.2	Surface	1.0	0.3	120	28.3	28.2	8.4	8.4	23.2	23.4	80.4	79.7				5.5	5.5	5.4	5.4	6	6	825705	806950
											1.0	0.3	126	28.1	27.7	8.4	8.4	23.7	23.7	79.0	79.0				5.4	5.4	5					
											6.1	0.3	124	27.7	27.7	8.4	8.4	26.2	26.3	76.0	76.1				5.2	5.2	6.5	6.5	6			
Middle	6.1	0.4	128	27.7						27.7	8.4	8.4	26.3	26.3	76.2	76.2	5.2	5.2	6.8	6.8	5											
	11.2	0.3	76	27.7						27.7	8.4	8.4	26.4	26.3	76.7	77.1	5.2	5.2	7.7	7.7	6											
	11.2	0.3	77	27.7						27.7	8.4	8.4	26.3	26.3	77.4	77.4	5.3	5.3	7.8	7.8	5											
C3	Fine	Calm	11:06	11.8	Surface	1.0	0.6	71	27.5	27.5	8.2	8.2	28.6	28.6	69.5	69.5	4.7	4.7	5.8	5.8	6	6	822122	817789								
						1.0	0.6	76	27.5	27.5	8.2	8.2	28.6	28.6	69.4	69.4	4.7	4.7	5.9	5.9	5											
						5.9	0.4	61	27.4	27.4	8.0	8.0	28.7	28.6	70.0	70.2	4.7	4.7	6.7	6.7	5											
					Middle	5.9	0.5	61	27.4	27.4	8.0	8.0	28.6	28.6	70.3	70.2	4.7	4.7	6.5	6.5	5											
						10.8	0.3	14	27.4	27.4	7.7	7.7	28.6	28.6	73.4	73.5	4.9	4.9	7.0	7.0	7											
						10.8	0.3	14	27.5	27.4	7.7	7.7	28.6	28.6	73.6	73.5	5.0	5.0	7.0	7.0	6											
IM1	Sunny	Moderate	11:59	4.4	Surface	1.0	0.1	354	27.5	27.5	8.2	8.2	28.5	28.5	67.8	67.8	4.6	4.6	8.9	8.9	8	7	817970	807145								
						1.0	0.1	326	27.5	27.5	8.2	8.2	28.5	28.5	67.8	67.8	4.6	4.6	8.7	8.7	9											
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-						
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-						
						3.4	0.1	35	27.5	27.5	8.2	8.2	28.8	28.8	67.9	67.9	4.6	4.6	15.8	15.8	6											
						3.4	0.1	35	27.5	27.5	8.2	8.2	28.8	28.8	67.9	67.9	4.6	4.6	15.8	15.8	6											
IM2	Sunny	Moderate	12:07	6.3	Surface	1.0	0.1	79	27.7	27.7	8.2	8.2	27.9	27.9	68.5	68.5	4.6	4.6	9.7	9.7	6	7	818175	806171								
						1.0	0.1	83	27.7	27.7	8.2	8.2	27.9	27.9	68.5	68.5	4.6	4.6	9.7	9.7	5											
						3.2	0.1	33	27.5	27.5	8.2	8.2	28.3	28.3	68.2	68.2	4.6	4.6	11.7	11.7	6											
					Middle	3.2	0.1	35	27.5	27.5	8.2	8.2	28.3	28.3	68.2	68.2	4.6	4.6	11.7	11.7	7											
						5.3	0.2	348	27.5	27.5	8.2	8.2	29.0	29.0	68.3	68.3	4.6	4.6	11.9	11.9	8											
						5.3	0.2	320	27.5	27.5	8.2	8.2	29.0	29.0	68.3	68.3	4.6	4.6	11.9	11.9	7											
IM3	Sunny	Moderate	12:14	6.5	Surface	1.0	0.2	222	27.7	27.7	8.2	8.2	27.7	27.7	70.2	70.3	4.7	4.7	6.2	6.2	6	7	818803	805584								
						1.0	0.2	232	27.7	27.7	8.2	8.2	27.7	27.7	70.3	70.3	4.7	4.7	6.1	6.1	7											
						3.3	0.1	245	27.5	27.5	8.2	8.2	28.0	28.0	67.5	67.5	4.6	4.6	12.4	12.4	6											
					Middle	3.3	0.1	260	27.5	27.5	8.2	8.2	28.0	28.0	67.5	67.5	4.6	4.6	12.4	12.4	7											
						5.5	0.2	249	27.5	27.5	8.2	8.2	28.7	28.7	68.0	68.0	4.6	4.6	12.3	12.3	8											
						5.5	0.2	260	27.5	27.5	8.2	8.2	28.7	28.7	68.0	68.0	4.6	4.6	12.4	12.4	7											
IM4	Sunny	Moderate	12:25	7.9	Surface	1.0	1.2	199	28.1	28.1	8.2	8.2	25.1	25.1	80.3	80.3	5.5	5.5	9.1	9.1	7	5	819748	804606								
						1.0	1.2	208	28.1	28.1	8.2	8.2	25.1	25.1	80.3	80.3	5.5	5.5	9.1	9.1	6											
						4.0	1.1	197	28.0	28.0	8.2	8.2	25.8	25.8	76.8	76.8	5.2	5.2	12.7	12.7	5											
					Middle	4.0	1.1	198	28.0	28.0	8.2	8.2	25.8	25.8	76.8	76.8	5.2	5.2	12.5	12.5	4											
						6.9	0.7	197	27.9	27.9	8.2	8.2	25.9	25.9	76.4	76.5	5.2	5.2	16.5	16.5	4											
						6.9	0.8	214	27.9	27.9	8.2	8.2	25.9	25.9	76.5	76.5	5.2	5.2	16.6	16.6	5											
IM5	Sunny	Moderate	12:39	6.9	Surface	1.0	1.1	222	27.9	27.9	8.2	8.2	25.3	25.3	77.4	77.4	5.3	5.3	8.8	8.8	6	5	820752	804874								
						1.0	1.2	226	27.9	27.9	8.2	8.2	25.3	25.3	77.4	77.4	5.3	5.3	8.9	8.9	6											
						3.5	0.9	220	27.7	27.7	8.2	8.2	26.2	26.2	73.4	73.4	5.0	5.0	13.7	13.7	5											
					Middle	3.5	1.0	230	27.7	27.7	8.2	8.2	26.2	26.2	73.4	73.4	5.0	5.0	13.7	13.7	4											
						5.9	0.7	221	27.7	27.7	8.2	8.2	26.4	26.4	72.7	72.7	4.9	4.9	14.8	14.8	4											
						5.9	0.7	223	27.7	27.7	8.2	8.2	26.4	26.4	72.7	72.7	4.9	4.9	14.9	14.9	5											
IM6	Sunny	Moderate	12:51	6.9	Surface	1.0	1.1	250	27.9	28.0	8.2	8.2	25.0	25.0	82.6	82.6	5.6	5.6	6.1	6.1	6	11	821046	805823								
						1.0	1.2	251	28.0	28.0	8.2	8.2	25.0	25.0	82.6	82.6	5.6	5.6	6.1	6.1	7											
						3.5	1.0	252	27.9	27.9	8.2	8.2	25.3	25.3	80.6	80.6	5.5	5.5	8.3	8.3	7											
					Middle	3.5	1.1	264	27.9	27.9	8.2	8.2	25.3	25.3	80.6	80.6	5.5	5.5	8.3	8.3	16											
						5.9	0.9	252	27.9	27.9	8.2	8.2	25.3	25.3	80.6	80.7	5.5	5.5	12.3	12.3	14											
						5.9	1.0	257	27.9	27.9	8.2	8.2	25.3	25.3	80.7	80.7	5.5	5.5	12.3	12.3	16											
IM7	Sunny	Moderate	13:02	7.5	Surface	1.0	0.9	236	27.9	27.9	8.2	8.2	24.5	24.5	83.5	83.5	5.7	5.7	5.7	5.7	9	7	821334	806831								
						1.0	0.9	253	27.9	27.9	8.2	8.2	24.5	24.5	83.5	83.5	5.7	5.7	5.7	5.7	9											
						3.8	0.9	242	27.8	27.8	8.2	8.2	24.9	24.9	82.0	82.0	5.6	5.6	9.6	9.6	7											
					Middle	3.8	1.0	243	27.8	27.8	8.2	8.2	24.9	24.9	82.0	82.0	5.6	5.6	9.5	9.5	6											
						6.5	0.7	250	27.8	27.8	8.2	8.2	24.9	24.9	82.0	82.0	5.6	5.6	13.0	13.0	6											
						6.5	0.8	258	27.8	27.8	8.2	8.2	24.9	24.9	82.0	82.0	5.6	5.6	13.1	13.1	5											
IM8	Fine	Calm	12:43	8.0	Surface	1.0	0.9	112	28.1	28.1	8.3	8.3	24.9	24.9	82.9	82.9	5.6	5.6	4.7	4.7	7	6	821807	808159								
						1.0	0.9	122	28.1	28.1	8.3	8.3	25.0	25.0	82.8	82.8	5.6	5.6	4.7	4.7	6											
						4.0	0.8	112	28.1	28.1	8.2	8.2	25.4	25.4	82.8	83.0	5.6	5.6	5.7	5.7	6											
					Middle	4.0	0.9	113	28.1	28.1	8.2	8.2	25.4	25.4	83.2	83.2	5.7	5.7	5.6	5.6	5											
						7.0	0.6	100	28.1	28.1	8.1	8.1	25.4	25.3	84.2	84.8	5.7	5.7	6.6	6.6	6											
						7.0	0.7	108	28.1	28.1	8.1	8.1	25.3	25.3	85.4	85.4	5.8	5.8	6.6	6.6	6											

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

**Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring**

Water Quality Monitoring Results on 22 July 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	Calm	12:38	7.2	Surface	1.0	0.4	115	28.1	28.1	8.3	8.3	24.8	24.9	82.8	82.7	5.6	5.6	4.7	4.7	6	6	6	822087	808800								
						1.0	0.4	119	28.1	28.1	8.3	8.3	24.9	24.9	82.6	82.6	5.6	5.6	4.8	4.8	5	5											
						3.6	0.2	87	28.0	27.9	8.2	8.2	25.4	25.4	82.1	82.1	5.6	5.6	5.7	5.7	6	6											
					Middle	3.6	0.2	89	27.9	27.9	8.2	8.2	25.5	25.5	82.0	82.0	5.6	5.6	5.7	5.7	6	6											
						6.2	0.2	99	28.0	28.0	8.0	8.0	25.5	25.5	85.3	85.3	5.8	5.8	5.8	5.8	6	6											
						6.2	0.2	105	28.0	28.0	8.0	8.0	25.5	25.5	85.6	85.6	5.8	5.8	5.7	5.7	6	6											
					Bottom	1.0	0.3	78	27.8	27.8	8.4	8.4	25.7	25.7	79.0	79.0	5.4	5.4	7.7	7.7	6	6											
						1.0	0.3	83	27.8	27.8	8.4	8.4	25.7	25.7	78.8	78.8	5.4	5.4	7.7	7.7	6	6											
						4.1	0.4	84	27.8	27.8	8.3	8.3	26.0	26.0	78.1	78.1	5.3	5.3	8.1	8.1	5	5											
IM10	Fine	Calm	12:31	8.2	Surface	4.1	0.4	85	27.8	27.8	8.3	8.3	26.0	26.0	78.0	78.0	5.3	5.3	8.1	8.1	5	5	5	822371	809817								
						4.1	0.4	85	27.8	27.8	8.3	8.3	26.0	26.0	78.0	78.0	5.3	5.3	8.1	8.1	6	6											
						7.2	0.3	79	27.8	27.8	8.3	8.3	26.0	26.0	78.1	78.1	5.3	5.3	8.3	8.3	4	4											
					Middle	7.2	0.3	84	27.8	27.8	8.3	8.3	26.0	26.0	78.1	78.1	5.3	5.3	8.6	8.6	5	5											
						1.0	0.6	100	28.0	28.0	8.3	8.3	24.7	24.7	78.4	78.3	5.3	5.3	5.7	5.7	6	6											
						1.0	0.7	102	28.0	28.0	8.3	8.3	24.7	24.7	78.1	78.3	5.3	5.3	5.9	5.9	5	5											
					Bottom	3.7	0.6	90	27.9	27.9	8.2	8.2	25.8	25.8	78.0	78.1	5.3	5.3	6.1	6.1	6	6											
						3.7	0.6	94	27.9	27.9	8.2	8.2	25.8	25.8	78.1	78.1	5.3	5.3	6.0	6.0	6	6											
						6.4	0.1	99	27.9	27.9	8.1	8.1	25.9	25.9	81.8	82.0	5.6	5.6	7.6	7.6	6	6											
IM11	Fine	Calm	12:19	7.4	Surface	6.4	0.1	103	27.9	27.9	8.1	8.1	25.9	25.9	82.2	82.0	5.6	5.6	7.5	7.5	6	6	6	822066	811448								
						1.0	0.5	109	28.0	28.0	8.3	8.3	26.1	26.1	76.2	76.1	5.2	5.2	4.1	4.1	5	5											
						1.0	0.5	114	27.9	27.9	8.3	8.3	26.1	26.1	75.9	75.9	5.2	5.2	4.1	4.1	6	6											
					Middle	4.6	0.4	93	27.8	27.8	8.3	8.2	26.5	26.5	75.6	75.8	5.1	5.1	5.9	5.9	6	6											
						4.6	0.5	94	27.8	27.8	8.2	8.2	26.5	26.5	75.9	75.8	5.2	5.2	5.9	5.9	7	7											
						8.2	0.1	155	27.8	27.9	8.1	8.1	26.5	26.5	78.1	78.9	5.3	5.3	6.3	6.3	7	7											
					Bottom	8.2	0.1	167	27.9	27.9	8.0	8.1	26.4	26.5	79.6	78.9	5.4	5.4	6.7	6.7	6	6											
						1.0	-	-	27.9	27.8	8.4	8.4	26.9	27.0	69.6	69.2	4.7	4.7	4.4	4.4	6	6											
						1.0	-	-	27.8	27.8	8.4	8.4	27.1	27.0	68.7	68.7	4.7	4.7	4.5	4.5	6	6											
SR1A	Fine	Calm	11:46	5.0	Surface	2.5	-	-	-	-	-	-	-	-	-	-	-	4.7	-	5.0	-	6	819975	812658									
						2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-								
						4.0	-	-	27.6	27.6	8.4	8.4	27.3	27.3	68.3	68.2	4.6	4.6	5.3	5.3	6				6								
					Middle	4.0	-	-	27.6	27.6	8.4	8.4	27.3	27.3	68.1	68.2	4.6	4.6	5.6	5.6	6				6								
						1.0	0.3	74	27.6	27.6	8.2	8.1	27.2	27.2	87.3	87.3	5.9	5.9	4.2	4.2	6				6								
						1.0	0.4	74	27.6	27.6	8.1	8.1	27.2	27.2	87.3	87.3	5.9	5.9	4.3	4.3	7				7								
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	4.8	-						
						3.6	0.4	61	27.6	27.6	8.0	7.9	27.4	27.4	87.4	87.4	5.9	5.9	5.3	5.3	6				6								
						3.6	0.5	63	27.6	27.6	7.9	7.9	27.4	27.4	87.4	87.4	5.9	5.9	5.3	5.3	6				6								
SR2	Fine	Calm	11:30	4.6	Surface	1.0	0.8	173	27.8	27.8	8.3	8.3	25.7	25.8	77.6	77.2	5.3	5.2	5.2	5.2	7	7	6	821453	814164								
						1.0	0.8	172	27.8	27.8	8.3	8.3	25.8	25.8	76.8	75.7	5.2	5.1	5.1	5.1	6	6											
						4.5	0.8	187	27.6	27.6	8.3	8.3	26.5	26.5	75.7	75.7	5.1	5.1	6.9	6.9	5	5											
					Middle	4.5	0.8	195	27.6	27.6	8.3	8.3	26.5	26.5	75.7	75.7	5.2	5.2	6.8	6.8	6	6											
						8.0	0.4	243	27.7	27.7	8.2	8.2	26.4	26.4	79.0	79.2	5.4	5.4	7.7	7.7	4	4											
						8.0	0.4	245	27.7	27.7	8.2	8.2	26.4	26.4	79.3	79.2	5.4	5.4	7.7	7.7	5	5											
					SR3	Fine	Calm	12:48	9.0	Surface	1.0	0.1	41	27.7	27.7	8.2	8.2	27.8	27.8	68.4	68.4	4.6				4.6	5.6	5.6	5	5	6	822157	807553
											1.0	0.1	43	27.7	27.7	8.2	8.2	27.8	27.8	68.4	68.4	4.6				4.6	5.6	5.6	5	5			
											4.8	0.2	52	27.5	27.5	8.2	8.2	28.2	28.1	65.3	65.3	4.4				4.4	6.5	6.5	5	5			
Middle	4.8	0.2	54	27.5						27.5	8.2	8.2	28.1	28.1	65.3	65.3	4.4	4.4	6.6	6.6	4	4											
	8.6	0.2	56	27.5						27.5	8.2	8.2	28.3	28.3	63.1	63.1	4.3	4.3	9.5	9.5	5	5											
	8.6	0.2	52	27.5						27.5	8.2	8.2	28.3	28.3	63.1	63.1	4.3	4.3	9.5	9.5	4	4											
SR4A	Sunny	Moderate	11:15	9.6						Surface	1.0	0.1	84	27.7	27.7	8.1	8.1	26.5	26.5	65.5	65.5	4.5	4.5	6.1	6.1	6	6	5	817211	807809			
											1.0	0.1	88	27.7	27.7	8.1	8.1	26.5	26.5	65.5	65.5	4.5	4.5	6.1	6.1	5	5						
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-									
						3.5	0.0	119	27.5	27.5	8.1	8.1	26.8	26.8	63.7	63.7	4.3	4.3	9.3	9.3	6	6											
						3.5	0.0	123	27.5	27.5	8.1	8.1	26.8	26.8	63.7	63.7	4.3	4.3	9.3	9.3	5	5											
					SR5A	Sunny	Moderate	10:58	4.5	Surface	1.0	0.1	42	27.3	27.3	8.1	8.1	25.6	25.6	67.5	67.5	4.6	4.6	6.5	6.5	6	6				6	816577	810713
											1.0	0.1	42	27.3	27.3	8.1	8.1	25.6	25.6	67.4	67.5	4.6	4.6	6.4	6.4	7	7						
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
Middle	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-									
	3.8	0.1	238	27.1						27.1	8.0	8.0	27.4	27.4	60.0	60.0	4.1	4.1	16.1	16.1	7	7											
	3.8	0.1	241	27.1						27.1	8.0	8.0	27.4	27.4	60.0	60.0	4.1	4.1	16.1	16.1	6	6											
SR6A	Sunny	Moderate	10:31	4.8						Surface	1.0	0.1	65	27.4	27.3	8.2	8.2	28.1	28.2	74.1	73.7	5.1	5.1	4.0	4.0	5	5	6	817983	814762			
											1.0	0.1	68	27.3	27.3	8.2	8.2	28.2	28.2	73.3	73.3	5.2	5.2	4.1	4.1	6	6						
											7.7	0.3	103	27.2	27.2	8.1	8.1	28.6	28.6	71.9	71.9	5.2	5.2	4.3	4.3	6	6						
					Middle	7.7	0.3	104	27.2	27.2	8.1	8.1	28.6	28.6	71.9	71.9	5.3	5.3	4.2	4.2	5	5											
						14.4	0.2	30	27.1	27.1	7.9	7.9	28.9	28.9	72.6	73.0	4.9	4.9	4.3	4.3	6	6											
						14.4	0.3	30	27.2	27.2	7.9	7.9	28.9	28.9	73.3	73.0	5.0	5.0	4.5	4.5	6	6											
					SR7	Fine	Calm	10:27	15.4	Surface	1.0	-	-	28.4	28.3	8.2	8.1	26.8	26.8	76.8	76.8	5.2	5.2	7.4	7.4	6	6				6	823656	823733
											1.0	-	-	28.1	28.3	8.1	8.1	26.9	26.8	76.8	76.8	5.2	5.2	7.7	7.7	6	6						
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
Middle	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-									
	3.7	-	-	28.1						28.1	7.9	7.9	26.8	26.8	85.7	86.1	5.8	5.8	8.0	8.0	6	6											
	3.7	-	-	28.1						28.1	7.9	7.9	26.8	26.8	85.7	86.5	5.8	5.8	8.0	8.0	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 22 July 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	18:28	6.9	Surface	1.0	0.2	105	28.2	28.3	8.2	8.2	24.8	24.8	82.9	82.9	5.6	5.4	10.8	10.1	8	8	815623	804269				
						1.0	0.2	114	28.3	8.2	8.2	24.8	24.8	82.9	82.9	5.6	5.4	10.8	10.1	6	6							
						3.5	0.2	89	27.9	27.9	8.2	8.2	26.0	26.0	75.6	75.6	5.1	5.1	8.5	8.5	6	6						
					Middle	3.5	0.2	89	27.9	27.9	8.2	8.2	26.0	26.0	75.6	75.6	5.1	5.1	8.5	8.5	6	6			8	8		
						5.9	0.2	26	27.8	27.8	8.2	8.2	27.7	27.7	69.8	69.8	4.7	4.7	11.1	11.2	12	12						
						5.9	0.2	26	27.8	27.8	8.2	8.2	27.7	27.7	69.9	69.9	4.7	4.7	11.2	11.2	12	12						
C2	Fine	Calm	17:22	12.6	Surface	1.0	0.2	75	28.7	28.7	8.0	8.0	23.0	23.0	75.6	75.7	5.2	5.3	6.9	7.5	5	6	825665	806947				
						1.0	0.2	76	28.7	28.7	8.0	8.0	23.1	23.1	75.7	75.7	5.2	5.3	6.9	7.5	6	6						
						6.3	0.3	76	28.7	28.7	7.8	7.8	23.1	23.1	77.2	77.5	5.3	5.3	7.6	7.6	6	6						
					Middle	6.3	0.3	74	28.7	28.7	7.8	7.8	23.1	23.1	77.8	77.5	5.3	5.3	7.8	7.8	6	6						
						11.6	0.1	67	28.7	28.7	7.6	7.6	23.2	23.2	80.3	81.4	5.5	5.6	8.0	8.0	6	6						
						11.6	0.1	66	28.7	28.7	7.5	7.5	23.2	23.2	82.5	82.5	5.6	5.6	8.0	8.0	7	7						
C3	Fine	Calm	19:02	12.2	Surface	1.0	0.2	210	28.0	28.0	8.4	8.4	26.8	26.8	73.0	72.9	4.9	4.9	5.1	6.2	5	4	822131	817787				
						1.0	0.2	236	28.0	28.0	8.4	8.4	26.8	26.8	72.8	72.8	4.9	4.9	5.1	6.2	4	4						
						6.1	0.3	240	27.8	27.8	8.3	8.3	27.0	27.0	71.5	71.4	4.8	4.8	6.2	6.2	4	4						
					Middle	6.1	0.3	222	27.8	27.8	8.3	8.3	27.0	27.0	71.2	71.2	4.8	4.8	6.3	6.3	4	4						
						11.2	0.1	275	27.9	27.9	8.3	8.3	27.0	27.0	73.3	73.3	5.0	5.0	7.2	7.2	3	3						
						11.2	0.1	280	27.9	27.9	8.3	8.3	26.9	26.9	73.2	73.2	4.9	4.9	7.2	7.2	3	3						
IM1	Sunny	Rough	18:06	3.6	Surface	1.0	0.1	191	29.2	29.2	8.1	8.1	26.8	26.8	73.5	73.5	4.9	4.9	4.5	8.6	18	16	817968	807153				
						1.0	0.1	197	29.2	29.2	8.2	8.2	26.8	26.8	73.5	73.5	4.9	4.9	4.5	8.6	18	16						
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	16	16
						2.6	0.1	263	28.0	28.0	8.2	8.2	28.0	28.0	68.8	68.8	4.6	4.6	12.6	12.7	10	10						
						2.6	0.1	274	28.0	28.0	8.2	8.2	28.0	28.0	68.8	68.8	4.6	4.6	12.7	12.7	10	10						
IM2	Sunny	Rough	17:57	6.3	Surface	1.0	0.3	321	28.1	28.1	8.2	8.2	27.1	27.1	70.2	70.3	4.7	4.7	10.9	10.7	14	15	818162	806148				
						1.0	0.3	350	28.1	28.1	8.2	8.2	27.1	27.1	70.3	70.3	4.7	4.7	10.9	10.7	14	15						
						3.2	0.2	319	27.9	27.9	8.2	8.2	27.7	27.7	69.1	69.1	4.7	4.7	9.5	9.5	16	16						
					Middle	3.2	0.2	327	27.9	27.9	8.2	8.2	27.7	27.7	69.1	69.1	4.7	4.7	9.5	9.5	16	16						
						5.3	0.1	282	27.7	27.7	8.2	8.2	28.3	28.3	68.2	68.2	4.6	4.6	11.5	11.6	17	17						
						5.3	0.1	303	27.7	27.7	8.2	8.2	28.3	28.3	68.2	68.2	4.6	4.6	11.6	11.6	16	16						
IM3	Sunny	Rough	17:49	6.5	Surface	1.0	0.3	342	28.2	28.2	8.2	8.2	27.2	27.2	71.1	71.1	4.8	4.8	8.9	11.1	14	15	818796	805574				
						1.0	0.4	315	28.2	28.2	8.2	8.2	27.2	27.2	71.1	71.1	4.8	4.8	8.9	8.9	13	13						
						3.3	0.3	352	28.0	28.0	8.2	8.2	27.5	27.5	69.9	70.0	4.7	4.7	11.5	11.4	15	15						
					Middle	3.3	0.3	324	28.0	28.0	8.2	8.2	27.5	27.5	70.0	70.0	4.7	4.7	11.4	11.4	15	15						
						5.5	0.2	21	27.9	27.9	8.2	8.2	28.0	28.0	69.7	69.7	4.7	4.7	13.0	13.0	15	15						
						5.5	0.2	22	27.9	27.9	8.2	8.2	28.0	28.0	69.6	69.6	4.7	4.7	13.0	13.0	16	16						
IM4	Sunny	Rough	17:40	6.7	Surface	1.0	0.7	193	28.5	28.5	8.1	8.1	23.4	23.4	85.9	85.9	5.9	5.5	5.1	7.5	15	16	819729	804611				
						1.0	0.7	206	28.5	28.5	8.1	8.1	23.4	23.4	85.9	85.9	5.9	5.5	5.1	5.1	17	17						
						3.4	0.5	200	27.9	27.9	8.2	8.2	26.6	26.6	75.2	75.2	5.1	5.1	6.8	6.8	17	17						
					Middle	3.4	0.5	212	27.9	27.9	8.2	8.2	26.6	26.6	75.2	75.2	5.1	5.1	6.9	6.9	15	15						
						5.7	0.2	272	27.7	27.7	8.2	8.2	28.2	28.2	70.5	70.6	4.8	4.8	10.5	10.6	16	16						
						5.7	0.2	288	27.7	27.7	8.2	8.2	28.1	28.1	70.6	70.6	4.8	4.8	10.6	10.6	15	15						
IM5	Sunny	Rough	17:32	6.7	Surface	1.0	0.9	232	28.1	28.1	8.1	8.1	24.2	24.2	90.9	90.9	6.2	5.9	11.7	13.6	17	15	820754	804851				
						1.0	0.9	232	28.1	28.1	8.1	8.1	24.2	24.2	90.9	90.9	6.2	5.9	11.7	11.7	18	18						
						3.4	0.8	229	28.0	28.0	8.1	8.1	24.2	24.2	80.1	80.1	5.5	5.5	13.8	13.7	16	16						
					Middle	3.4	0.8	245	28.0	28.0	8.1	8.1	24.2	24.2	80.1	80.1	5.5	5.5	13.7	13.7	16	16						
						5.7	0.6	230	28.0	28.0	8.1	8.1	24.3	24.3	80.1	80.1	5.5	5.5	15.2	15.2	12	12						
						5.7	0.6	251	28.0	28.0	8.1	8.1	24.3	24.3	80.1	80.1	5.5	5.5	15.2	15.2	11	11						
IM6	Sunny	Rough	17:26	6.1	Surface	1.0	1.1	247	28.2	28.2	8.1	8.1	23.8	23.8	80.5	80.5	5.5	5.5	10.3	11.2	4	10	821083	805817				
						1.0	1.1	265	28.2	28.2	8.1	8.1	23.8	23.8	80.5	80.5	5.5	5.5	10.3	10.3	4	4						
						3.1	1.0	247	28.2	28.2	8.1	8.1	23.8	23.8	80.5	80.5	5.5	5.5	10.0	10.0	12	12						
					Middle	3.1	1.0	255	28.2	28.2	8.1	8.1	23.8	23.8	80.5	80.5	5.5	5.5	10.1	10.1	13	13						
						5.1	0.9	248	28.2	28.2	8.1	8.1	23.9	23.9	80.2	80.2	5.5	5.5	13.2	13.2	13	13						
						5.1	0.9	265	28.2	28.2	8.1	8.1	23.9	23.9	80.2	80.2	5.5	5.5	13.3	13.3	14	14						
IM7	Sunny	Rough	17:20	7.2	Surface	1.0	0.9	246	28.1	28.1	8.1	8.1	23.9	23.9	79.7	79.7	5.5	5.5	7.4	10.4	9	11	821342	806832				
						1.0	1.0	247	28.1	28.1	8.1	8.1	23.9	23.9	79.7	79.7	5.5	5.5	7.4	7.4	10	10						
						3.6	1.0	246	28.1	28.1	8.1	8.1	23.8	23.8	80.0	80.1	5.5	5.5	8.9	8.9	11	11						
					Middle	3.6	1.0	264	28.1	28.1	8.1	8.1	23.8	23.8	80.1	80.1	5.5	5.5	8.9	8.9	9	9						
						6.2	0.8	246	28.1	28.1	8.1	8.1	23.8	23.8	80.4	80.4	5.5	5.5	14.9	14.9	14	14						
						6.2	0.9	264	28.1	28.1	8.1	8.1	23.8	23.8	80.4	80.4	5.5	5.5	14.9	14.9	12	12						
IM8	Fine	Calm	17:41	8.2	Surface	1.0	1.1	355	28.4	28.4	8.2	8.2	23.8	23.9	79.5	79.5	5.4	5.4	7.5	8.3	6	6	821823	808128				
						1.0	1.1	356	28.4	28.4	8.2	8.2	23.9	23.9	79.5	79.5	5.4	5.4	7.5	7.5	6	6						
						4.1	1.0	312	28.4	28.4	8.1	8.1	24.0	24.0	79.7	79.8	5.4	5.4	8.4	8.4	6	6						
					Middle	4.1	1.1	341	28.4	28.4	8.1	8.1	24.0	24.0	79.8	79.8	5.4	5.4	8.4	8.4	5	5						
						7.2	0.5	304	28.4	28.4	8.0	8.0	24.0	24.0	82.3	82.5	5.6	5.6	9.1	9.1	5	5						
						7.2	0.5	306	28.4																			

**Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring**

Water Quality Monitoring Results on 22 July 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	Calm	17:47	7.2	Surface	1.0	1.1	326	28.6	28.6	8.3	8.3	23.5	23.5	77.9	78.0	5.3	5.3	1.8	7	7	822075	808826	
						1.0	1.2	323	28.6	28.6	8.3	8.3	23.5	23.5	78.0	78.0	5.3	5.3	1.7	6				
						3.6	1.0	318	28.4	28.4	8.3	8.3	24.0	24.0	77.3	77.2	5.3	5.3	2.6	6				
					Middle	3.6	1.0	306	28.4	28.4	8.3	8.3	24.1	24.0	77.1	77.2	5.3	5.3	2.6	7				
						6.2	0.3	294	28.4	28.4	8.3	8.3	24.1	24.1	103.2	103.2	7.0	7.0	2.8	7				
						6.2	0.3	289	28.4	28.4	8.3	8.3	24.1	24.1	103.2	103.2	7.0	7.0	2.8	7				
IM10	Fine	Calm	17:52	8.4	Surface	1.0	0.2	297	28.7	28.7	8.2	8.2	21.8	22.0	78.5	78.3	5.4	5.4	5.2	6	5	822372	809817	
						1.0	0.2	288	28.6	28.6	8.2	8.2	22.1	22.1	78.1	78.1	5.4	5.4	5.5	6				
						4.2	0.5	278	28.2	28.2	8.1	8.1	24.4	24.4	77.8	78.1	5.3	5.3	6.0	6				
					Middle	4.2	0.5	294	28.2	28.2	8.1	8.1	24.5	24.4	78.4	78.1	5.3	5.3	6.1	5				
						7.4	0.2	285	28.3	28.3	7.9	7.9	24.5	24.5	83.1	83.4	5.7	5.7	7.6	5				
						7.4	0.2	276	28.3	28.3	7.9	7.9	24.5	24.5	83.7	83.4	5.7	5.7	7.1	4				
IM11	Fine	Calm	18:00	8.0	Surface	1.0	0.9	279	28.9	28.9	8.2	8.2	22.6	22.6	81.0	81.0	5.5	5.5	4.9	5	5	822065	811478	
						1.0	0.9	281	28.9	28.9	8.2	8.2	22.1	22.1	80.9	81.0	5.5	5.5	4.9	4				
						4.0	0.8	269	28.6	28.6	8.1	8.1	22.9	23.0	81.2	81.5	5.5	5.5	5.6	4				
					Middle	4.0	0.9	255	28.4	28.5	8.1	8.1	23.1	23.0	81.7	81.5	5.6	5.6	5.6	5				
						7.0	0.4	249	28.5	28.5	7.9	7.9	24.7	24.6	83.4	84.4	5.6	5.6	6.6	6				
						7.0	0.4	246	28.8	28.7	7.8	7.9	24.5	24.6	85.3	84.4	5.8	5.7	6.5	5				
IM12	Fine	Calm	18:05	9.4	Surface	1.0	0.9	263	28.4	28.4	8.3	8.3	24.4	24.4	79.9	79.9	5.4	5.4	5.3	5	5	821449	812036	
						1.0	1.0	253	28.4	28.4	8.3	8.3	24.4	24.4	79.9	79.9	5.4	5.4	5.4	4				
						4.7	0.5	251	28.3	28.3	8.3	8.3	24.4	24.4	79.5	79.5	5.4	5.4	6.4	6				
					Middle	4.7	0.5	254	28.3	28.3	8.3	8.3	24.4	24.4	79.4	79.5	5.4	5.4	6.3	5				
						8.4	0.3	260	28.2	28.2	8.2	8.2	25.7	25.7	79.5	79.4	5.5	5.4	7.3	5				
						8.4	0.3	244	28.2	28.2	8.2	8.2	25.7	25.7	79.3	79.4	5.3	5.4	7.3	6				
SR1A	Fine	Calm	18:30	4.8	Surface	1.0	-	-	28.7	28.7	8.3	8.3	24.4	24.4	90.6	90.6	6.1	6.1	6.8	5	5	819979	812661	
						1.0	-	-	28.7	28.7	8.3	8.3	24.4	24.4	90.6	90.6	6.1	6.1	6.7	4				
						2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	7.2				
					Middle	2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
						3.8	-	-	28.7	28.7	8.0	8.0	25.6	25.6	90.6	90.6	6.1	6.1	7.7	4				
						3.8	-	-	28.7	28.7	8.0	8.0	25.6	25.6	90.5	90.6	6.1	6.1	7.7	5				
SR2	Fine	Calm	18:42	5.0	Surface	1.0	0.4	338	28.6	28.6	8.4	8.4	24.5	24.5	90.7	90.7	6.1	6.1	6.7	5	5	821446	814165	
						1.0	0.5	359	28.6	28.6	8.4	8.4	24.5	24.5	90.7	90.7	6.1	6.1	6.7	5				
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.9				
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
						4.0	0.2	99	28.8	28.8	8.3	8.3	25.2	25.2	90.5	90.5	6.1	6.1	7.2	4				
						4.0	0.2	105	28.8	28.8	8.3	8.3	25.2	25.2	90.5	90.5	6.1	6.1	7.1	5				
SR3	Fine	Calm	17:37	9.4	Surface	1.0	0.2	116	28.4	28.4	8.1	8.1	23.7	23.7	77.8	77.7	5.3	5.3	5.9	4	4	822134	807560	
						1.0	0.2	125	28.3	28.3	8.1	8.1	23.8	23.8	77.5	77.5	5.3	5.3	5.7	6				
						4.7	0.5	116	28.1	28.1	7.9	7.9	25.1	25.1	78.2	78.6	5.3	5.3	6.5	4				
					Middle	4.7	0.5	121	28.1	28.1	7.9	7.9	25.1	25.1	78.9	78.6	5.4	5.4	6.6	3				
						8.4	0.2	87	28.3	28.3	7.7	7.7	24.8	24.8	83.0	83.3	5.6	5.6	7.9	3				
						8.4	0.3	90	28.3	28.3	7.6	7.7	24.8	24.8	83.5	83.3	5.7	5.7	7.6	4				
SR4A	Sunny	Rough	18:49	8.3	Surface	1.0	0.7	267	28.3	28.3	8.2	8.2	26.1	26.1	73.0	73.0	4.9	4.9	12.4	19	18	817177	807799	
						1.0	0.8	276	28.3	28.3	8.2	8.2	26.1	26.1	73.0	73.0	4.9	4.9	12.3	20				
						4.2	0.8	264	28.3	28.3	8.2	8.2	26.1	26.1	72.2	72.2	4.9	4.9	12.3	21				
					Middle	4.2	0.8	287	28.3	28.3	8.2	8.2	26.1	26.1	72.2	72.2	4.9	4.9	12.3	20				
						7.3	0.4	258	28.3	28.3	8.2	8.2	26.2	26.2	72.8	72.9	4.9	4.9	7.5	13				
						7.3	0.4	267	28.3	28.3	8.2	8.2	26.2	26.2	72.9	72.9	4.9	4.9	7.5	14				
SR5A	Sunny	Moderate	19:09	4.1	Surface	1.0	0.4	293	28.5	28.5	8.2	8.2	26.0	26.0	75.4	75.4	5.1	5.1	11.9	3	13	816591	810686	
						1.0	0.4	320	28.4	28.4	8.2	8.2	26.0	26.0	75.4	75.4	5.1	5.1	11.9	17				
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.7				
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
						3.1	0.4	309	28.4	28.4	8.2	8.2	26.0	26.0	74.8	74.9	5.0	5.0	7.5	16				
						3.1	0.4	328	28.4	28.4	8.2	8.2	26.0	26.0	74.9	74.9	5.0	5.0	7.5	17				
SR6A	Sunny	Moderate	19:40	3.6	Surface	1.0	0.1	294	28.5	28.5	8.2	8.2	25.9	25.9	83.1	83.1	5.6	5.6	6.7	16	17	817945	814756	
						1.0	0.1	306	28.5	28.5	8.2	8.2	26.0	26.0	83.1	83.1	5.6	5.6	7.0	17				
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.6				
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
						2.6	0.1	294	28.2	28.2	8.1	8.1	26.4	26.4	79.2	79.2	5.3	5.3	8.4	16				
						2.6	0.1	307	28.2	28.2	8.1	8.1	26.4	26.4	79.2	79.2	5.3	5.3	8.4	18				
SR7	Fine	Calm	19:24	14.0	Surface	1.0	0.4	237	28.0	28.0	8.4	8.4	26.8	26.8	73.4	73.3	5.0	5.0	5.2	8	9	823647	823761	
						1.0	0.4	249	28.0	28.0	8.4	8.4	26.8	26.8	73.2	73.2	5.1	5.1	5.2	8				
						7.0	0.2	333	27.7	27.6	8.4	8.4	27.2	27.3	71.2	71.3	5.1	5.1	6.3	8				
					Middle	7.0	0.2	334	27.6	27.6	8.4	8.4	27.4	27.3	71.4	71.3	5.1	5.1	6.4	8				
						13.0	0.1	202	27.9	27.9	8.4	8.4	27.2	27.1	74.5	74.6	5.0	5.0	7.3	10				
						13.0	0.1	215	27.9	27.9	8.4	8.4	27.1	27.1	74.7	74.6	5.0	5.0	7.3	9				
SR8	Fine	Calm	18:12	4.4	Surface	1.0	-	-	29.0	29.0	8.1	8.1	24.5	24.5	86.9	87.0	5.8	5.8	6.5	4	5	820382	811611	
						1.0	-	-	29.0	29.0	8.1	8.1	24.5	24.5	87.0	87.0	5.8	5.8	6.4	5				
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.8				
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
						3.4	-	-	29.1	29.1	7.9	7.9	24.5	24.5	90.7	90.9	6.1	6.1	7.2	5				
						3.4	-	-	29.1	29.1	7.9	7.9	24.5	24.5	91.1	90.9	6.1	6.1	7.2	5				

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

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

Water Quality Monitoring

Water Quality Monitoring Results on 24 July 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			Value	DA	
C1	Cloudy	Moderate	12:38	8.4	Surface	1.0	0.0	89	28.4	28.4	8.3	8.3	27.6	27.6	93.8	93.8	6.3	6.1	5.6	9.1	5	4	815634	804231			
						1.0	0.0	89	28.4	8.3	8.3	27.6	27.6	93.7	93.7	6.3	6.1	5.6	9.1	5	4						
						4.2	0.1	155	28.2	28.2	8.3	8.3	29.8	29.8	89.3	89.3	5.9	5.4	8.4	3	4						
						4.2	0.1	155	28.2	28.2	8.3	8.3	29.8	29.8	89.3	89.3	5.9	5.4	8.4	4	4						
						7.4	0.1	196	28.1	28.1	8.3	8.3	30.1	30.1	80.9	81.0	5.4	5.4	12.9	3	4						
						7.4	0.1	209	28.1	28.1	8.3	8.3	30.1	30.1	81.0	81.0	5.4	5.4	12.8	4	4						
C2	Cloudy	Rough	14:08	8.3	Surface	1.0	0.3	173	28.3	28.4	8.0	8.0	22.7	22.7	80.7	80.7	5.5	5.5	3.8	4.3	3	4	825705	806945			
						1.0	0.3	176	28.4	28.4	8.0	8.0	22.7	22.7	80.7	80.7	5.5	5.5	3.8	4	4						
						4.2	0.3	164	28.2	28.2	8.0	8.0	22.9	22.9	78.5	78.5	5.4	5.4	4.4	3	4						
						4.2	0.4	175	28.2	28.2	8.0	8.0	22.9	22.9	78.5	78.5	5.4	5.4	4.4	4	4						
						7.3	0.4	144	28.1	28.1	7.9	7.9	23.0	23.0	75.7	75.6	5.2	5.2	4.6	5	4						
						7.3	0.4	152	28.1	28.1	7.9	7.9	23.0	23.0	75.5	75.6	5.2	5.2	4.6	6	4						
C3	Cloudy	Rough	12:02	12.6	Surface	1.0	0.3	107	27.0	27.0	7.9	7.9	27.4	27.4	63.0	63.0	4.3	4.2	2.9	3.8	4	5	822121	817784			
						1.0	0.3	110	27.0	27.0	7.9	7.9	27.4	27.4	63.0	63.0	4.3	4.2	2.9	5	4						
						6.3	0.2	54	26.8	26.8	7.9	7.9	28.6	28.6	58.4	58.4	4.0	4.0	3.9	5	4						
						6.3	0.2	54	26.8	26.8	7.9	7.9	28.6	28.6	58.4	58.4	4.0	4.0	3.9	6	4						
						11.6	0.3	107	26.7	26.7	7.9	7.9	29.1	29.1	57.9	57.9	3.9	3.9	4.5	6	4						
						11.6	0.3	109	26.7	26.7	7.9	7.9	29.1	29.1	57.9	57.9	3.9	3.9	4.6	6	4						
IM1	Cloudy	Moderate	12:18	5.4	Surface	1.0	0.2	220	28.4	28.4	8.3	8.3	28.1	28.1	79.8	79.8	5.3	5.3	10.7	11.8	4	4	817935	807150			
						1.0	0.2	240	28.4	28.4	8.3	8.3	28.2	28.2	79.8	79.8	5.3	5.3	11.0	5	4						
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			4	4	
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	4	4
						4.4	0.1	139	28.3	28.3	8.3	8.3	29.2	29.2	81.4	81.6	5.4	5.4	12.8	4	4						
						4.4	0.1	139	28.3	28.3	8.3	8.3	29.2	29.2	81.8	81.6	5.4	5.4	12.7	4	4						
IM2	Cloudy	Moderate	12:10	7.6	Surface	1.0	0.1	172	28.4	28.4	8.3	8.3	27.6	27.6	84.5	84.6	5.6	5.5	6.1	10.6	3	3	818153	806170			
						1.0	0.1	185	28.4	28.4	8.3	8.3	27.6	27.6	84.6	84.6	5.6	5.5	6.5	2	4						
						3.8	0.1	84	28.1	28.1	8.3	8.3	29.7	29.7	81.5	81.5	5.4	5.4	9.8	4	4						
						3.8	0.1	85	28.1	28.1	8.3	8.3	29.7	29.7	81.4	81.5	5.4	5.4	10.2	3	4						
						6.6	0.1	100	28.2	28.2	8.3	8.3	29.7	29.7	83.2	83.3	5.5	5.5	15.5	3	4						
						6.6	0.1	104	28.2	28.2	8.3	8.3	29.7	29.7	83.4	83.3	5.5	5.5	15.5	4	4						
IM3	Cloudy	Moderate	12:02	7.8	Surface	1.0	0.2	210	28.3	28.3	8.3	8.3	28.4	28.4	81.6	81.6	5.4	5.4	5.9	9.4	2	3	818763	805592			
						1.0	0.2	216	28.3	28.3	8.3	8.3	28.5	28.4	81.6	81.6	5.4	5.4	5.9	3	3						
						3.9	0.1	103	28.2	28.2	8.3	8.3	29.0	29.0	80.9	80.8	5.4	5.4	8.2	3	4						
						3.9	0.1	112	28.2	28.2	8.3	8.3	29.1	29.1	80.7	80.8	5.4	5.4	8.8	3	4						
						6.8	0.1	95	28.1	28.1	8.3	8.3	29.5	29.5	81.9	82.0	5.4	5.4	13.7	4	4						
						6.8	0.1	98	28.1	28.1	8.3	8.3	29.5	29.5	82.1	82.0	5.4	5.4	13.6	3	4						
IM4	Cloudy	Moderate	11:53	8.0	Surface	1.0	0.3	195	28.3	28.3	8.3	8.3	28.0	28.1	80.4	80.5	5.4	5.4	7.6	11.6	5	5	819740	804587			
						1.0	0.3	212	28.3	28.3	8.3	8.3	28.1	28.1	80.5	80.5	5.4	5.4	8.1	5	4						
						4.0	0.1	125	28.2	28.2	8.3	8.3	29.1	29.1	80.4	80.4	5.3	5.3	12.3	5	4						
						4.0	0.1	132	28.2	28.2	8.3	8.3	29.1	29.1	80.4	80.4	5.3	5.3	12.5	4	4						
						7.0	0.1	123	28.1	28.1	8.3	8.3	29.3	29.3	81.5	81.6	5.4	5.4	14.6	4	4						
						7.0	0.1	129	28.1	28.1	8.3	8.3	29.3	29.3	81.7	81.6	5.4	5.4	14.6	5	4						
IM5	Cloudy	Moderate	11:46	7.9	Surface	1.0	0.4	240	28.4	28.4	8.3	8.3	26.5	26.5	81.6	81.5	5.5	5.4	7.7	11.8	5	5	820743	804850			
						1.0	0.4	252	28.4	28.4	8.3	8.3	26.5	26.5	81.4	81.5	5.5	5.5	8.2	4	4						
						4.0	0.1	232	28.2	28.2	8.3	8.3	28.9	28.9	80.0	80.0	5.3	5.3	12.6	5	4						
						4.0	0.1	242	28.2	28.2	8.3	8.3	28.9	28.9	80.0	80.0	5.3	5.3	13.1	4	4						
						6.9	0.2	160	28.2	28.2	8.3	8.3	29.0	29.0	80.7	80.9	5.4	5.4	14.9	6	4						
						6.9	0.2	167	28.2	28.2	8.3	8.3	29.0	29.0	81.0	80.9	5.4	5.4	14.7	5	4						
IM6	Cloudy	Moderate	11:39	8.0	Surface	1.0	0.3	253	28.4	28.4	8.2	8.2	25.7	25.6	76.2	76.3	5.1	5.2	7.7	9.5	5	6	821061	805847			
						1.0	0.4	258	28.4	28.4	8.2	8.2	25.6	25.6	76.3	76.3	5.2	5.2	7.8	4	6						
						4.0	0.3	244	28.3	28.3	8.3	8.3	28.0	28.0	77.3	77.3	5.2	5.2	8.8	6	6						
						4.0	0.3	255	28.3	28.3	8.3	8.3	28.1	28.0	77.2	77.3	5.2	5.2	9.0	6	6						
						7.0	0.2	224	28.2	28.2	8.3	8.3	28.5	28.5	77.2	77.3	5.1	5.2	12.1	6	6						
						7.0	0.2	225	28.2	28.2	8.3	8.3	28.5	28.5	77.4	77.3	5.2	5.2	11.8	6	6						
IM7	Cloudy	Moderate	11:31	7.6	Surface	1.0	0.2	236	28.4	28.4	8.2	8.2	25.5	25.6	78.9	77.1	5.3	5.2	6.9	8.3	7	6	821359	806853			
						1.0	0.2	240	28.4	28.4	8.2	8.2	25.7	25.6	75.3	77.1	5.1	5.2	7.1	6	6						
						3.8	0.1	221	28.4	28.4	8.3	8.3	27.6	27.6	77.7	77.7	5.2	5.2	8.6	6	4						
						3.8	0.1	230	28.3	28.3	8.3	8.3	27.7	27.7	77.6	77.7	5.2	5.2	8.8	5	4						
						6.6	0.1	112	28.3	28.4	8.3	8.3	27.9	27.9	78.6	78.8	5.2	5.3	9.1	4	4						
						6.6	0.1	113	28.4	28.4	8.3	8.3	27.8	27.9	79.0	78.8	5.3	5.3	9.0	5	4						
IM8	Cloudy	Rough	13:42	8.3	Surface	1.0	0.1	127	28.2	28.2	7.9	7.9	23.2	23.2	74.0	74.0	5.1	5.0	4.0	4.9	6	6	821812	808161			
						1.0	0.1	132	28.2	28.2	7.9	7.9	23.2	23.2	74.0	74.0	5.1	5.0	3.9	6	6						
						4.2	0.2	117	28.0	28.0	7.9	7.9	23.4	23.4	70.3	70.3	4.8	4.8	4.7	7	4						
						4.2	0.2	123	28.0	28.0	7.9	7.9	23.4	23.4	70.3	70.3	4.8	4.8	4.7	6	4						
						7.3	0.2	48	27.8	27.8	7.9	7.9	24.1	24.1	65.9	65.9	4.5	4.5	6.1	6	4						
						7.3	0.2	48	27.8	27.8	7.9	7.9	24.1	24.1	65.8	65.9	4.5	4.5	6.1	5	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

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Water Quality Monitoring

Water Quality Monitoring Results on 24 July 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	Rough	13:36	8.1	Surface	1.0	0.2	118	28.4	28.4	7.9	7.9	22.3	22.3	78.0	77.9	5.4	5.0	2.8	4.7	5	6	822092	808833
						1.0	0.2	127	28.4	7.9	7.9	22.3	22.3	77.8	77.9	5.3	5.0	2.8	4.7	4				
						4.1	0.3	77	27.8	7.9	7.9	24.1	24.1	66.2	66.2	4.5	4.6	5.2	6.1	6				
					4.1	0.3	78	27.8	7.9	7.9	24.1	24.1	66.2	66.2	4.6	4.6	5.2	6.1	6					
					7.1	0.3	78	27.7	8.0	8.0	25.7	25.7	67.8	67.8	4.6	4.6	6.2	6.1	6					
					7.1	0.3	80	27.7	8.0	8.0	25.7	25.7	67.8	67.8	4.6	4.6	6.2	6.1	6					
IM10	Cloudy	Rough	13:28	7.9	Surface	1.0	0.5	96	28.2	28.2	7.9	7.9	22.6	22.6	75.2	75.2	5.2	5.0	3.5	6.1	5	5	822369	809801
						1.0	0.6	98	28.2	7.9	7.9	22.6	22.6	75.1	75.2	5.2	5.0	3.5	6.1	6				
						4.0	0.5	95	27.9	7.9	7.9	23.9	23.9	68.7	68.7	4.7	4.7	6.7	4.4	4				
					4.0	0.5	99	27.9	7.9	7.9	23.9	23.9	68.7	68.7	4.7	4.7	6.7	4.4	4					
					6.9	0.4	109	27.7	8.0	8.0	25.7	25.7	67.5	67.5	4.6	4.6	8.1	4.4	2					
					6.9	0.4	114	27.7	8.0	8.0	25.7	25.7	67.5	67.5	4.6	4.6	8.1	4.4	4					
IM11	Cloudy	Moderate	13:16	8.7	Surface	1.0	0.7	113	27.9	28.0	7.9	7.9	23.7	23.6	68.4	68.4	4.7	4.7	5.2	5.0	5	5	822047	811436
						1.0	0.7	120	28.0	7.9	7.9	23.6	23.6	68.4	68.4	4.7	4.7	5.3	6					
						4.4	0.6	119	27.7	7.9	7.9	24.1	24.1	68.5	68.5	4.7	4.7	4.7	4					
					4.4	0.6	122	27.7	7.9	7.9	24.1	24.1	68.4	68.5	4.7	4.7	4.6	5						
					7.7	0.4	117	27.4	7.9	7.9	25.0	25.0	63.7	63.7	4.4	4.4	5.0	4						
					7.7	0.4	127	27.4	7.9	7.9	25.1	25.0	63.7	63.7	4.4	4.4	5.0	4						
IM12	Cloudy	Moderate	13:10	9.5	Surface	1.0	0.6	112	27.6	27.6	7.9	7.9	24.7	24.7	68.0	68.0	4.7	4.6	3.8	5.0	4	4	821442	812041
						1.0	0.7	120	27.6	7.9	7.9	24.7	24.7	68.0	68.0	4.7	4.6	3.8	4					
						4.8	0.4	106	27.5	7.9	7.9	24.9	24.8	65.3	65.3	4.5	4.5	4.6	5					
					4.8	0.4	110	27.5	7.9	7.9	24.8	24.8	65.3	65.3	4.5	4.5	4.5	4						
					8.5	0.2	108	27.3	7.9	7.9	25.6	25.6	61.3	61.3	4.2	4.2	6.7	4						
					8.5	0.2	116	27.3	7.9	7.9	25.6	25.6	61.3	61.3	4.2	4.2	6.6	5						
SR1A	Cloudy	Moderate	12:39	5.3	Surface	1.0	-	-	28.2	28.2	7.8	7.8	22.9	22.9	69.1	69.1	4.8	4.8	2.6	4.6	4	4	819975	812662
						1.0	-	-	28.2	28.2	7.8	7.8	22.9	22.9	69.1	69.1	4.8	4.8	2.6	3				
						2.7	-	-	-	-	-	-	-	-	-	-	-	-	-	4				
					2.7	-	-	-	-	-	-	-	-	-	-	-	-	-	4					
					4.3	-	-	27.1	27.1	7.9	7.9	26.2	26.2	57.1	57.2	3.9	3.9	6.6	4					
					4.3	-	-	27.1	27.1	7.9	7.9	26.2	26.2	57.2	57.2	3.9	3.9	6.6	5					
SR2	Cloudy	Rough	12:25	5.2	Surface	1.0	0.8	111	27.8	27.8	7.9	7.9	23.4	23.4	70.5	70.5	4.9	4.9	3.6	3.8	7	6	821464	814156
						1.0	0.8	121	27.8	7.9	7.9	23.5	23.5	70.5	70.5	4.9	4.9	3.6	6					
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	3				
					-	-	-	-	-	-	-	-	-	-	-	-	-	-	3					
					4.2	0.5	125	27.5	7.9	7.9	24.8	24.8	65.6	65.6	4.5	4.5	4.0	5						
					4.2	0.5	132	27.5	7.9	7.9	24.8	24.8	65.6	65.6	4.5	4.5	4.0	4						
SR3	Cloudy	Rough	13:48	8.5	Surface	1.0	0.2	170	28.1	28.1	7.9	7.9	23.3	23.3	73.9	73.9	5.1	4.8	4.5	7.8	5	5	822134	807583
						1.0	0.2	182	28.1	7.9	7.9	23.3	23.3	73.9	73.9	5.1	4.8	4.5	4					
						4.3	0.0	179	27.6	7.9	7.9	24.8	24.8	63.9	63.9	4.4	4.4	8.4	5					
					4.3	0.0	190	27.6	7.9	7.9	24.8	24.8	63.9	63.9	4.4	4.4	8.5	6						
					7.5	0.1	66	27.6	7.9	7.9	25.0	25.0	64.4	64.4	4.4	4.4	10.5	6						
					7.5	0.1	70	27.6	7.9	7.9	25.0	25.0	64.4	64.4	4.4	4.4	10.5	6						
SR4A	Cloudy	Moderate	13:03	8.8	Surface	1.0	0.4	74	28.5	28.4	8.3	8.3	28.7	28.7	82.1	81.9	5.4	5.3	7.9	10.5	3	5	817190	807804
						1.0	0.4	78	28.3	8.3	8.3	28.8	28.8	81.6	81.9	5.4	5.3	8.8	4					
						4.4	0.4	72	28.2	8.3	8.3	29.1	29.1	76.4	76.4	5.1	5.1	11.2	5					
					4.4	0.4	76	28.2	8.3	8.3	29.1	29.1	76.3	76.4	5.1	5.1	11.5	5						
					7.8	0.4	64	28.3	8.3	8.3	29.1	29.1	76.2	76.3	5.1	5.1	11.7	6						
					7.8	0.4	65	28.3	8.3	8.3	29.1	29.1	76.3	76.3	5.1	5.1	11.6	6						
SR5A	Cloudy	Moderate	13:21	4.0	Surface	1.0	0.2	345	29.4	29.4	8.2	8.2	25.3	25.4	85.9	85.8	5.7	5.7	7.5	10.8	3	4	816579	810675
						1.0	0.2	352	29.3	8.2	8.2	25.5	25.5	85.7	85.7	5.7	5.7	7.7	4					
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	4				
					-	-	-	-	-	-	-	-	-	-	-	-	-	-	4					
					3.0	0.2	9	28.7	8.2	8.2	26.7	26.6	75.7	75.8	5.1	5.1	13.7	4						
					3.0	0.2	9	28.7	8.2	8.2	26.6	26.6	75.9	75.9	5.1	5.1	14.2	4						
SR6A	Cloudy	Moderate	13:55	4.5	Surface	1.0	0.1	110	28.5	28.5	8.2	8.2	24.9	25.0	77.0	76.9	5.2	5.2	7.9	10.9	3	4	817966	814758
						1.0	0.1	118	28.5	8.2	8.2	25.1	25.0	76.8	76.8	5.2	5.2	8.3	4					
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	4				
					-	-	-	-	-	-	-	-	-	-	-	-	-	-	4					
					3.5	0.0	134	28.1	8.1	8.1	26.2	26.1	67.1	67.5	4.5	4.6	13.9	4						
					3.5	0.0	137	28.1	8.1	8.1	26.1	26.1	67.8	67.8	4.6	4.6	13.6	4						
SR7	Cloudy	Moderate	11:32	16.8	Surface	1.0	0.5	63	26.8	26.8	7.9	7.9	28.0	28.0	83.7	83.7	5.8	5.6	3.4	3.9	5	5	823620	823720
						1.0	0.5	67	26.8	7.9	7.9	28.0	28.0	83.6	83.6	5.8	5.6	3.4	4					
						8.4	0.6	96	26.8	7.9	7.9	28.6	28.6	78.2	78.3	5.4	5.4	3.4	4					
					8.4	0.7	103	26.8	7.9	7.9	28.6	28.6	78.3	78.3	5.4	5.4	3.4	5						
					15.8	0.4	100	26.8	7.9	7.9	28.9	28.9	76.0	76.0	5.2	5.2	5.0	5						
					15.8	0.4	106	26.8	7.9	7.9	28.9	28.9	76.0	76.0	5.2	5.2	5.1	6						
SR8	Cloudy	Moderate	13:02	5.8	Surface	1.0	-	-	27.4	27.4	7.9	7.9	25.1	25.1	73.6	73.7	5.0	5.0	5.9	6.7	2	3	820394	811600
						1.0	-	-	27.4	27.4	7.9	7.9	25.1	25.1	73.8	73.7	5.0	5.0	5.9	3				
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	3				
					-	-	-	-	-	-	-	-	-	-	-	-	-	-	3					
					4.8	-	-	27.3	27.3	7.9	7.9	25.4	25.3	60.5	60.5	4.2	4.2	7.6	3					
					4.8	-	-	27.3	27.3	7.9	7.9	25.3	25.3	60.5	60.5	4.2	4.2	7.5	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 24 July 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	20:02	8.7	Surface	1.0	0.6	21	28.2	28.2	8.3	8.3	29.7	29.7	86.4	86.4	5.7	5.8	3	3	815640	804263								
						1.0	0.6	22	28.2	8.3	8.3	29.8	29.8	5.7	6.0	2														
						4.4	0.5	26	28.0	8.3	8.3	30.8	30.8	5.4	9.3	3														
					Middle	4.4	0.6	26	28.0	8.3	8.3	30.8	30.8	5.4	9.6	2														
						7.7	0.4	25	28.0	8.3	8.3	30.8	30.8	5.4	11.7	4														
						7.7	0.4	23	28.0	8.3	8.3	30.8	30.8	5.4	12.0	4														
					C2	Fine	Rough	18:54	8.1	Surface	1.0	0.3	41	28.1	28.1	7.9	7.9	23.1	23.1				75.3	75.3	5.2	4.7	2	3	825689	806930
											1.0	0.3	42	28.1	7.9	7.9	23.1	23.1	5.2				4.8	2						
											4.1	0.4	63	27.9	7.9	7.9	23.8	23.8	4.9				6.4	2						
Middle	4.1	0.4	58	27.9						7.9	7.9	23.6	23.6	4.9	6.5	3														
	7.1	0.4	47	27.8						7.9	7.9	24.2	24.2	4.7	7.6	4														
	7.1	0.4	46	27.8						7.9	7.9	24.2	24.2	4.7	7.6	3														
C3	Fine	Rough	20:41	9.2						Surface	1.0	0.3	224	27.8	27.9	8.0	8.0	25.3	25.3	70.6	70.6	4.8	4.8	3	3	822129	817788			
											1.0	0.3	224	27.8	8.0	8.0	25.3	25.3	4.8	7.3	3									
											4.6	0.6	259	27.7	8.0	8.0	25.5	25.5	4.7	7.2	2									
					Middle	4.6	0.6	270	27.7	8.0	8.0	25.5	25.5	4.7	7.1	3														
						8.2	0.1	253	27.7	8.0	8.0	25.6	25.6	4.7	7.3	3														
						8.2	0.1	257	27.7	8.0	8.0	25.6	25.6	4.7	7.2	4														
					IM1	Cloudy	Moderate	20:25	5.6	Surface	1.0	0.1	197	28.4	28.4	8.3	8.3	27.8	27.8	79.9	79.0	5.3	5.4	5				7	817955	807116
											1.0	0.1	213	28.4	8.3	8.3	28.0	28.0	5.3	5.6	6									
											-	-	-	-	-	-	-	-	-	-	-									
Middle	-	-	-	-						-	-	-	-	-	-	-														
	4.6	0.1	159	28.4						8.3	8.3	28.5	28.4	5.3	10.2	8														
	4.6	0.1	171	28.5						8.3	8.3	28.4	28.4	5.3	10.2	8														
IM2	Cloudy	Moderate	20:35	7.8						Surface	1.0	0.2	63	28.4	28.4	8.3	8.3	27.8	27.8	82.6	82.7	5.5	5.3	4	5	818139	806171			
											1.0	0.2	68	28.4	8.3	8.3	27.9	27.9	5.5	5.2	4									
											3.9	0.3	36	28.2	8.3	8.3	28.8	28.8	5.5	4.8	6									
					Middle	3.9	0.3	37	28.2	8.3	8.3	28.9	28.9	5.5	4.8	5														
						6.8	0.2	38	28.1	8.3	8.3	29.6	29.6	5.3	7.1	6														
						6.8	0.2	39	28.1	8.3	8.3	29.6	29.6	5.3	7.3	5														
					IM3	Cloudy	Moderate	20:42	7.6	Surface	1.0	0.3	42	28.4	28.4	8.3	8.3	27.0	27.0	83.8	83.8	5.6	5.0	6				6	818801	805576
											1.0	0.3	43	28.4	8.3	8.3	27.0	27.0	5.6	5.0	7									
											3.8	0.3	50	28.2	8.3	8.3	29.2	29.2	5.5	6.4	6									
Middle	3.8	0.3	57	28.2						8.3	8.3	29.2	29.2	5.5	6.6	5														
	6.6	0.2	35	28.2						8.3	8.3	29.7	29.7	5.6	7.5	5														
	6.6	0.3	36	28.2						8.3	8.3	29.7	29.7	5.6	7.5	5														
IM4	Cloudy	Moderate	20:52	8.2						Surface	1.0	0.6	19	28.5	28.5	8.3	8.3	26.0	26.0	79.4	79.5	5.3	6.2	9	7	819704	804607			
											1.0	0.6	21	28.4	8.3	8.3	26.0	26.0	5.4	6.5	8									
											4.1	0.5	17	28.1	8.3	8.3	29.6	29.6	5.3	9.4	6									
					Middle	4.1	0.5	18	28.1	8.3	8.3	29.6	29.6	5.3	9.3	7														
						7.2	0.3	16	28.1	8.3	8.3	29.7	29.7	5.3	8.9	5														
						7.2	0.3	17	28.1	8.3	8.3	29.7	29.7	5.3	8.9	6														
					IM5	Cloudy	Moderate	21:01	8.0	Surface	1.0	0.5	29	28.4	28.4	8.3	8.3	25.0	25.1	81.3	81.2	5.5	5.5	6				6	820720	804877
											1.0	0.5	27	28.4	8.3	8.3	25.2	25.2	5.5	5.6	7									
											4.0	0.4	25	28.2	8.3	8.3	28.8	28.8	5.3	8.7	7									
Middle	4.0	0.4	28	28.2						8.3	8.3	28.8	28.8	5.2	9.0	6														
	7.0	0.3	28	28.2						8.3	8.3	29.2	29.2	5.1	10.6	5														
	7.0	0.4	29	28.2						8.3	8.3	29.2	29.2	5.2	10.5	5														
IM6	Cloudy	Moderate	21:10	7.8						Surface	1.0	0.4	24	28.5	28.5	8.2	8.2	26.3	26.3	79.4	79.3	5.3	6.8	7	7	821051	805828			
											1.0	0.4	25	28.5	8.2	8.2	26.3	26.3	5.3	6.9	8									
											3.9	0.3	22	28.2	8.3	8.3	28.5	28.5	5.2	8.5	7									
					Middle	3.9	0.3	23	28.2	8.3	8.3	28.5	28.5	5.2	8.6	6														
						6.8	0.2	20	28.2	8.3	8.3	28.5	28.4	5.3	8.8	6														
						6.8	0.2	22	28.2	8.3	8.3	28.4	28.4	5.3	8.8	6														
					IM7	Cloudy	Moderate	21:19	7.9	Surface	1.0	0.2	23	28.5	28.5	8.2	8.2	25.4	25.4	76.5	76.6	5.2	7.3	6				6	821351	806853
											1.0	0.2	25	28.5	8.2	8.2	25.4	25.4	5.2	7.4	6									
											4.0	0.2	18	28.4	8.3	8.3	27.3	27.3	5.2	8.6	6									
Middle	4.0	0.2	19	28.4						8.3	8.3	27.4	27.4	5.2	8.7	6														
	6.9	0.1	12	28.3						8.3	8.3	27.8	27.8	5.3	15.7	6														
	6.9	0.1	13	28.3						8.3	8.3	27.8	27.8	5.3	15.1	6														
IM8	Fine	Rough	19:15	7.7						Surface	1.0	0.2	353	28.3	28.3	8.0	8.0	23.4	23.4	78.4	78.4	5.4	4.9	3	4	821818	808153			
											1.0	0.2	357	28.3	8.0	8.0	23.4	23.4	5.4	4.9	4									
											3.9	0.1	356	28.2	8.0	8.0	23.6	23.6	5.3	5.2	4									
					Middle	3.9	0.1	344	28.3	8.0	8.0	23.5	23.5	5.3	5.2	4														
						6.7	0.0	352	27.9	7.9	7.9	24.4	24.4	4.8	6.7	4														
						6.7	0.0	341	27.9	7.9	7.9	24.5	24.5	4.8	6.7	6														

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

Water Quality Monitoring Results on 24 July 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	Rough	19:20	7.2	Surface	1.0	0.3	343	28.8	28.8	8.0	8.0	23.3	23.3	83.7	83.7	5.7	5.3	3.9	4	5	822112	808834								
						1.0	0.4	345	28.8	8.0	8.0	23.3	23.3	83.6	83.6	5.7	5.3	4.0	4												
						3.6	0.3	298	28.0	8.0	8.0	24.9	24.9	70.7	70.9	4.8	4.5	9.1	6												
					Middle	3.6	0.3	302	28.0	28.0	8.0	8.0	24.9	24.9	71.0	70.9	4.8	4.5	9.1	6											
						6.2	0.3	311	27.7	27.7	8.0	8.0	25.6	25.6	66.5	66.6	4.5	4.5	12.0	6											
						6.2	0.3	309	27.7	27.7	8.0	8.0	25.6	25.6	66.6	66.6	4.5	4.5	12.0	5											
					IM10	Fine	Rough	19:27	6.9	Surface	1.0	0.7	313	28.4	28.4	8.0	8.0	24.6	24.6	80.1				80.1	5.4	5.2	5.0	5	5	822390	809801
											1.0	0.7	307	28.4	28.4	8.0	8.0	24.6	24.6	80.0				80.0	5.4	5.2	5.1	5			
											3.5	0.6	297	27.9	27.9	8.0	8.0	25.3	25.3	72.2				72.2	4.9	4.9	8.4	4			
Middle	3.5	0.6	283	27.9						27.9	8.0	8.0	25.3	25.3	72.2	72.2	4.9	4.9	8.5	5											
	5.9	0.4	295	27.7						27.7	8.0	8.0	25.7	25.7	69.4	69.5	4.7	4.7	9.8	5											
	5.9	0.5	296	27.7						27.7	8.0	8.0	25.7	25.7	69.5	69.5	4.7	4.7	9.9	4											
IM11	Fine	Rough	19:35	6.7						Surface	1.0	0.7	303	28.1	28.1	7.9	7.9	23.9	23.9	75.0	75.0	5.1	5.1	4.2	5	5	822042	811449			
											1.0	0.7	304	28.1	28.1	7.9	7.9	23.9	23.9	74.9	74.9	5.1	5.1	4.2	4						
											3.4	0.4	313	28.0	28.0	8.0	8.0	24.1	24.1	74.3	74.3	5.1	5.1	5.0	5						
					Middle	3.4	0.4	308	28.0	28.0	8.0	8.0	24.1	24.1	74.3	74.3	5.1	5.1	4.9	5											
						5.7	0.1	298	27.8	27.8	8.0	8.0	24.6	24.6	73.2	73.2	5.0	5.0	8.4	4											
						5.7	0.1	285	27.8	27.8	8.0	8.0	24.6	24.6	73.2	73.2	5.0	5.0	8.4	5											
					IM12	Fine	Rough	19:41	7.1	Surface	1.0	0.4	281	27.9	27.9	7.9	7.9	24.4	24.4	71.5	71.5	4.9	4.8	11.5	4				5	821470	812037
											1.0	0.5	284	27.9	27.9	7.9	7.9	24.4	24.4	71.4	71.4	4.9	4.8	11.5	5						
											3.6	0.3	295	27.7	27.7	7.9	7.9	24.8	24.8	68.3	68.3	4.7	4.7	7.3	6						
Middle	3.6	0.3	299	27.7						27.7	7.9	7.9	24.8	24.8	68.3	68.3	4.7	4.7	7.4	5											
	6.1	0.2	283	27.7						27.7	7.9	7.9	25.0	25.0	66.6	66.6	4.6	4.6	8.0	5											
	6.1	0.2	276	27.7						27.7	7.9	7.9	25.0	25.0	66.6	66.6	4.6	4.6	8.0	6											
SR1A	Fine	Moderate	20:08	3.9						Surface	1.0	-	-	28.2	28.2	7.9	7.9	24.0	24.0	71.1	71.1	4.9	4.9	6.6	4	5	819974	812661			
											1.0	-	-	28.2	28.2	7.9	7.9	24.0	24.0	71.0	71.0	4.9	4.9	6.7	4						
											2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	7.4						
					Middle	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-									
						2.9	-	-	27.8	27.8	7.9	7.9	24.8	24.8	65.9	66.0	4.5	4.5	8.1	6											
						2.9	-	-	27.8	27.8	7.9	7.9	24.8	24.8	66.1	66.1	4.5	4.5	8.1	5											
					SR2	Fine	Moderate	20:21	4.0	Surface	1.0	0.3	222	27.9	27.9	7.9	7.9	24.6	24.6	71.7	71.8	4.9	4.9	6.9	5				4	821455	814152
											1.0	0.4	226	27.9	27.9	7.9	7.9	24.6	24.6	71.8	71.8	4.9	4.9	6.9	4						
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
Middle	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-									
	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-									
	3.0	0.2	233	27.6						27.6	7.9	7.9	25.2	25.2	66.7	66.7	4.6	4.6	7.9	3											
Bottom	3.0	0.2	245	27.6						27.6	7.9	7.9	25.2	25.2	66.6	66.6	4.6	4.6	8.0	4											
	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-									
	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-	-									
SR3	Fine	Rough	19:10	7.9	Surface	1.0	0.1	174	28.8	28.8	8.0	8.0	22.9	22.9	82.1	82.1	5.6	5.2	3.4	4	5	822166	807588								
						1.0	0.2	182	28.8	28.8	8.0	8.0	22.9	22.9	82.0	82.0	5.6	5.2	3.4	5											
						4.0	0.1	48	27.8	27.9	8.0	8.0	25.0	24.9	69.6	69.6	4.8	4.8	7.6	4											
					Middle	4.0	0.1	48	27.9	27.9	8.0	8.0	24.9	24.9	69.6	69.6	4.8	4.8	7.6	5											
						6.9	0.2	43	27.5	27.5	7.9	7.9	25.4	25.4	63.6	63.7	4.4	4.4	9.5	4											
						6.9	0.2	43	27.5	27.5	7.9	7.9	25.4	25.4	63.7	63.7	4.4	4.4	9.5	5											
					SR4A	Cloudy	Moderate	19:39	8.8	Surface	1.0	0.0	359	28.3	28.3	8.3	8.3	28.0	28.0	77.0				77.0	5.1	5.1	8.3	6	5	817176	807790
											1.0	0.0	330	28.3	28.3	8.3	8.3	28.0	28.0	77.0				77.0	5.1	5.1	8.3	6			
											4.4	-	219	28.3	28.3	8.3	8.3	28.2	28.2	77.1				77.1	5.1	5.1	11.5	5			
Middle	4.4	-	226	28.3						28.3	8.3	8.3	28.2	28.2	77.1	77.1	5.1	5.1	11.5	5											
	7.8	0.0	67	28.3						28.3	8.3	8.3	28.3	28.3	78.0	78.1	5.2	5.2	13.7	5											
	7.8	0.0	72	28.3						28.3	8.3	8.3	28.3	28.3	78.1	78.1	5.2	5.2	13.7	4											
SR5A	Cloudy	Moderate	19:21	4.5						Surface	1.0	0.1	298	28.9	28.9	8.2	8.2	24.9	25.0	75.0	75.0	5.0	5.0	8.0	6	6	816616	810714			
											1.0	0.1	324	28.9	28.9	8.2	8.2	25.0	25.0	74.9	74.9	5.0	5.0	8.1	6						
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-									
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-									
						3.5	0.0	286	28.8	28.8	8.2	8.2	25.9	25.9	75.3	75.5	5.0	5.1	13.4	5											
					Bottom	3.5	0.0	309	28.8	28.8	8.2	8.2	25.9	25.9	75.6	75.6	5.0	5.1	13.5	6											
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-									
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-									
SR6A	Cloudy	Moderate	18:52	4.5	Surface	1.0	0.0	295	28.4	28.4	8.1	8.1	23.8	23.9	78.8	78.8	5.4	5.4	6.1	8	8	817964	814760								
						1.0	0.0	306	28.4	28.4	8.1	8.1	23.9	23.9	78.8	78.8	5.4	5.4	6.5	9											
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-							
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-						
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-						
						3.5	0.0	247	28.2	28.2	8.1	8.1	25.0	25.0	74.3	74.4	5.0	5.1	8.7	8											
					Bottom	3.5	0.0	261	28.2	28.2	8.1	8.1	25.0	25.0	74.5	74.5	5.0	5.1	8.8	7											
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-						
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-						
SR7	Fine	Rough	21:03	14.9	Surface	1.0	0.1	240	28.1	28.1	8.0	8.0	24.5	24.5	80.2	80.2	5.3	5.0	3.3	4	5	823650	823719								
						1.0	0.1	224	28.1	28.1	8.0	8.0	24.5	24.5	80.1	80.1	5.3	5.0	3.3	3											
						7.5	0.1	271	27.9	27.9	8.0	8.0	24.9	24.8	77.8	77.8	4.6	4.6	4.5	4											
					Middle	7.5	0.1	289	27.9	27.9	8.0	8.0	24.8	24.8	77.8	77.8	4.6	4.6	4.5	4											
						13.9	0.1	228	27.7	27.7	8.0	8.0	25.2	25.3	73.3	73.3	4.3	4.3	5.0	6											
						13.9	0.1	223	27.7	27.7	8.0	8.0	25.3	25.3	73.2	73.2	4.4	4.4	5.0	6											
					SR8	Fine	Moderate	19:48	4.1	Surface	1.0	-	-	29.4	29.4	7.9	7.9	23.9	23.9	79.5				79.5	5.3	5.3	6.6				

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

Water Quality Monitoring

Water Quality Monitoring Results on **27 July 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	14:52	8.2	Surface	1.0	0.6	222	30.1	30.1	8.3	8.3	25.5	25.6	111.7	111.8	7.3	7.6	5.0	7.4	8	8	815606	804269
						1.0	0.6	235	30.1	8.3	8.3	25.6	25.7	111.9	112.0	7.5	7.6	5.0	7.4	7	8			
						4.1	0.5	196	29.2	8.4	8.4	28.6	28.7	119.6	119.4	7.8	7.6	5.8	7.4	9	8			
					4.1	0.5	198	29.1	8.3	8.3	28.8	28.7	119.1	119.1	7.7	7.6	5.7	7.4	8	8				
					7.2	0.4	204	28.7	8.3	8.3	30.2	30.2	88.2	88.6	5.8	5.8	11.8	11.8	9	9				
					7.2	0.4	218	28.7	8.3	8.3	30.2	30.2	88.9	88.9	5.8	5.8	11.4	11.4	8	8				
C2	Misty	Calm	13:39	12.6	Surface	1.0	0.5	173	28.9	28.9	7.9	7.9	23.6	23.7	79.2	78.7	5.4	5.0	5.6	6.5	5	7	825692	806923
						1.0	0.6	185	28.8	7.9	7.9	23.7	23.7	78.2	78.2	5.3	5.0	5.6	6.5	6	7			
						6.3	0.5	165	28.5	7.9	7.9	24.8	24.8	69.8	69.8	4.7	4.7	6.2	6.5	7	7			
					6.3	0.6	174	28.5	7.9	7.9	24.8	24.8	69.7	69.7	4.7	4.7	6.2	6.5	7	7				
					11.6	0.4	148	28.7	7.9	7.9	24.2	24.1	70.3	70.5	4.8	4.8	7.8	6.5	9	9				
					11.6	0.4	159	28.8	7.9	7.9	24.0	24.0	70.6	70.5	4.8	4.8	7.7	6.5	8	9				
C3	Misty	Calm	15:51	12.2	Surface	1.0	0.5	102	28.9	28.9	8.0	8.0	25.3	25.3	79.8	79.8	5.3	5.3	4.4	5.3	10	11	822105	817808
						1.0	0.6	102	28.9	8.0	8.0	25.3	25.4	79.8	79.9	5.3	5.3	4.4	5.3	9	11			
						6.1	0.4	93	28.9	8.0	8.0	25.4	25.4	79.8	79.9	5.3	5.3	11	11					
					6.1	0.4	95	28.9	8.0	8.0	25.4	25.4	79.9	79.9	5.4	5.3	12	11						
					11.2	0.3	76	28.9	7.9	7.9	25.3	25.3	80.8	80.8	5.4	5.4	6.3	5.3	11	11				
					11.2	0.3	79	28.9	7.9	7.9	25.3	25.3	80.8	80.8	5.4	5.4	6.4	5.3	12	11				
IM1	Sunny	Moderate	14:31	5.2	Surface	1.0	0.1	240	30.0	30.1	8.2	8.2	25.6	25.5	94.2	94.5	6.2	6.2	7.4	10.0	8	7	817951	807118
						1.0	0.1	256	30.1	8.2	8.2	25.5	25.5	94.8	94.8	6.2	6.2	7.5	10.0	9	7			
						-	-	-	-	-	-	-	-	-	-	-	-	-	10.0	-	-			
					4.2	0.1	147	29.1	8.3	8.3	28.0	28.0	86.9	87.0	5.7	5.7	12.7	6	5					
					4.2	0.1	150	29.1	8.3	8.3	28.0	28.0	87.0	87.0	5.7	5.7	12.6	6	5					
					-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	-				
IM2	Sunny	Moderate	14:23	7.2	Surface	1.0	0.2	188	29.9	29.6	8.3	8.3	26.1	26.7	98.0	96.4	6.4	6.3	6.3	9.2	6	7	818146	806180
						1.0	0.2	206	29.3	29.6	8.3	8.3	27.2	27.2	94.7	94.5	6.2	6.3	6.3	9.2	7	7		
						3.6	0.4	150	29.0	29.0	8.3	8.3	28.9	28.9	94.5	94.5	6.2	6.2	9.1	6	7			
					3.6	0.4	162	29.0	29.0	8.3	8.3	29.0	28.9	94.5	94.5	6.2	6.2	9.6	6	7				
					6.2	0.2	139	28.9	28.9	8.3	8.3	29.2	29.2	87.3	87.4	5.7	5.7	11.8	9	9				
					6.2	0.2	148	28.9	28.9	8.3	8.3	29.2	29.2	87.4	87.4	5.7	5.7	11.8	9	8				
IM3	Sunny	Moderate	14:15	7.6	Surface	1.0	0.2	157	30.1	30.0	8.3	8.3	25.7	25.8	111.6	111.6	7.3	6.9	5.6	7.7	8	7	818764	805597
						1.0	0.2	166	29.9	30.0	8.3	8.3	26.0	26.0	111.5	111.5	7.3	6.9	5.9	7.7	8	7		
						3.8	0.3	135	29.1	29.1	8.3	8.3	28.5	28.5	99.5	99.5	6.5	6.5	6.3	7.7	8	7		
					3.8	0.3	148	29.1	29.1	8.3	8.3	28.5	28.5	99.4	99.4	6.5	6.5	6.4	7.7	8	7			
					6.6	0.3	127	28.8	28.8	8.3	8.3	29.5	29.5	85.5	86.3	5.6	5.7	11.1	6	6				
					6.6	0.3	129	28.8	28.8	8.3	8.3	29.5	29.5	87.0	86.3	5.7	5.7	11.3	6	7				
IM4	Sunny	Moderate	14:06	9.0	Surface	1.0	0.5	186	29.3	29.3	8.2	8.2	27.4	27.4	85.5	85.6	5.6	5.7	6.8	10.0	8	9	819713	804630
						1.0	0.5	186	29.3	29.3	8.2	8.2	27.4	27.4	85.7	85.6	5.6	5.7	6.9	10.0	8	9		
						4.5	0.4	162	28.8	28.8	8.3	8.3	29.4	29.4	86.3	86.4	5.7	5.7	9.4	10.0	9	9		
					4.5	0.5	165	28.8	28.8	8.3	8.3	29.4	29.4	86.4	86.4	5.7	5.7	9.8	10.0	10	9			
					8.0	0.3	143	28.8	28.8	8.2	8.2	29.7	29.7	81.6	81.7	5.4	5.4	13.5	9	9				
					8.0	0.3	151	28.8	28.8	8.2	8.2	29.7	29.7	81.7	81.7	5.4	5.4	13.5	9	10				
IM5	Sunny	Moderate	13:59	8.2	Surface	1.0	0.6	229	29.7	29.7	8.2	8.2	25.8	25.8	92.2	92.3	6.1	6.0	7.6	10.8	7	8	820754	804873
						1.0	0.6	247	29.7	29.7	8.2	8.2	25.8	25.8	92.3	92.3	6.1	6.0	7.5	10.8	6	8		
						4.1	0.5	197	29.2	29.2	8.3	8.3	27.9	28.0	89.4	89.4	5.9	5.9	9.4	10.8	9	8		
					4.1	0.5	214	29.1	29.2	8.3	8.3	28.0	28.0	89.4	89.4	5.9	5.9	10.0	10.8	8	8			
					7.2	0.4	177	29.0	29.1	8.3	8.3	29.0	29.0	85.0	85.0	5.6	5.6	15.1	9	9				
					7.2	0.4	188	29.1	29.1	8.3	8.3	28.9	29.0	85.0	85.0	5.6	5.6	15.5	9	9				
IM6	Sunny	Moderate	13:51	8.1	Surface	1.0	0.3	237	29.7	29.7	8.2	8.2	25.6	25.6	92.6	92.7	6.1	6.0	7.4	10.1	8	8	821077	805841
						1.0	0.4	245	29.7	29.7	8.2	8.2	25.6	25.6	92.7	92.7	6.1	6.0	7.3	10.1	8	8		
						4.1	0.2	219	29.3	29.3	8.2	8.2	27.4	27.4	89.3	89.4	5.9	5.9	9.8	10.1	7	8		
					4.1	0.2	225	29.3	29.3	8.2	8.2	27.3	27.4	89.4	89.4	5.9	5.9	9.6	10.1	8	8			
					7.1	0.3	149	29.1	29.2	8.3	8.3	28.1	28.1	86.4	86.6	5.7	5.7	13.2	7	7				
					7.1	0.3	149	29.2	29.2	8.3	8.3	28.1	28.1	86.7	86.6	5.7	5.7	13.0	7	7				
IM7	Sunny	Moderate	13:39	8.0	Surface	1.0	0.2	250	29.9	29.9	8.2	8.2	24.4	24.4	93.3	93.3	6.2	6.2	4.2	9.0	8	8	821354	806823
						1.0	0.2	252	29.9	29.9	8.2	8.2	24.4	24.4	93.3	93.3	6.2	6.2	4.2	9.0	8	8		
						4.0	0.1	241	29.7	29.7	8.2	8.2	25.5	25.5	92.7	92.8	6.1	6.1	7.9	9.0	8	8		
					4.0	0.1	255	29.7	29.7	8.2	8.2	25.5	25.5	92.8	92.8	6.1	6.1	7.9	9.0	8	8			
					7.0	0.2	127	29.6	29.6	8.2	8.2	26.6	26.6	86.2	86.4	5.7	5.7	14.9	7	7				
					7.0	0.2	128	29.6	29.6	8.2	8.2	26.6	26.6	86.5	86.4	5.7	5.7	14.9	7	6				
IM8	Misty	Calm	13:59	8.2	Surface	1.0	0.1	73	29.1	29.1	7.9	7.9	23.8	23.9	80.3	80.3	5.4	5.5	5.7	6.6	10	9	821844	808129
						1.0	0.1	78	29.1	29.1	7.9	7.9	23.9	23.9	80.2	80.3	5.4	5.5	5.7	6.6	9	9		
						4.1	0.2	93	29.1	29.1	7.9	7.9	24.1	24.1	83.7	83.6	5.6	5.6	6.4	6.6	9	9		
					4.1	0.2	96	29.1	29.1	7.9	7.9	24.1	24.1	83.4	83.4	5.6	5.6	6.3	6.6	8	9			
					7.2	0.2	78	29.1	29.1	7.9	7.9	23.9	23.8	82.2	82.0	5.5	5.5	7.8	6.6	8	8			
					7.2	0.2	82	29.1	29.1	7.9	7.9	23.8	23.8	81.7	82.0	5.5	5.5	7.8	6.6	9	8			

DA: Depth-Averaged

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

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

**Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring**

Water Quality Monitoring Results on 27 July 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	Calm	14:04	7.2	Surface	1.0	0.2	106	28.9	28.9	7.9	7.9	23.9	23.9	78.2	78.0	5.3	5.2	6.1	7.2	8	9	822080	808802
						1.0	0.2	112	28.9	7.9	7.9	23.9	23.9	77.8	74.0	5.3	5.0	6.1	8					
						3.6	0.2	104	28.8	7.9	7.9	24.1	24.1	73.9	74.0	5.0	5.0	7.6	8					
					Middle	3.6	0.2	113	28.8	7.9	7.9	24.1	24.1	74.0	74.4	5.0	5.0	7.6	9					
						6.2	0.2	109	28.9	7.9	7.9	24.1	24.1	74.3	74.4	5.0	5.0	8.0	9					
						6.2	0.2	111	28.9	7.9	7.9	24.1	24.1	74.4	74.4	5.0	5.0	8.0	8					
					Bottom	6.2	0.2	109	28.9	7.9	7.9	24.1	24.1	74.3	74.4	5.0	5.0	8.0	9					
						6.2	0.2	111	28.9	7.9	7.9	24.1	24.1	74.4	74.4	5.0	5.0	8.0	8					
						6.2	0.2	111	28.9	7.9	7.9	24.1	24.1	74.4	74.4	5.0	5.0	8.0	8					
IM10	Misty	Calm	14:10	8.0	Surface	1.0	0.6	88	29.0	29.0	8.0	8.0	24.3	24.4	88.9	88.8	6.0	5.7	4.7	5.4	6	6	822373	809800
						1.0	0.6	89	29.0	8.0	8.0	24.5	24.4	88.6	78.6	6.0	5.3	4.6	6					
						4.0	0.7	101	28.8	8.0	8.0	24.8	24.8	78.8	78.6	5.3	5.3	5.4	5					
					Middle	4.0	0.7	102	28.8	8.0	8.0	24.8	24.8	78.4	78.6	5.3	5.3	5.4	6					
						7.0	0.5	104	28.8	8.0	8.0	24.8	24.8	79.1	79.4	5.3	5.4	6.3	6					
						7.0	0.5	106	28.8	8.0	8.0	24.7	24.8	79.6	79.4	5.4	5.4	6.2	5					
					Bottom	7.0	0.5	104	28.8	8.0	8.0	24.8	24.8	79.1	79.4	5.3	5.4	6.3	6					
						7.0	0.5	106	28.8	8.0	8.0	24.7	24.8	79.6	79.4	5.4	5.4	6.2	5					
						7.0	0.5	106	28.8	8.0	8.0	24.7	24.8	79.6	79.4	5.4	5.4	6.2	5					
IM11	Misty	Calm	14:18	8.8	Surface	1.0	0.8	110	29.5	29.5	8.0	8.0	23.5	23.6	97.8	97.5	6.6	6.1	5.3	6.3	6	6	822075	811480
						1.0	0.9	113	29.4	8.0	8.0	23.7	23.6	97.1	85.2	6.5	5.7	5.3	6					
						4.4	0.8	115	29.1	8.0	8.0	24.0	24.0	85.1	85.2	5.7	5.7	6.6	4					
					Middle	4.4	0.8	118	29.2	8.0	8.0	23.9	24.0	85.2	85.2	5.7	5.7	6.5	6					
						7.8	0.7	109	29.4	8.0	8.0	23.6	23.6	85.9	86.1	5.8	5.8	7.3	7					
						7.8	0.7	115	29.5	8.0	8.0	23.6	23.6	86.2	86.1	5.8	5.8	7.2	6					
					Bottom	7.8	0.7	109	29.4	8.0	8.0	23.6	23.6	85.9	86.1	5.8	5.8	7.3	7					
						7.8	0.7	115	29.5	8.0	8.0	23.6	23.6	86.2	86.1	5.8	5.8	7.2	6					
						7.8	0.7	115	29.5	8.0	8.0	23.6	23.6	86.2	86.1	5.8	5.8	7.2	6					
IM12	Misty	Calm	14:23	8.8	Surface	1.0	0.8	119	29.2	29.2	7.9	7.9	23.5	23.6	89.0	88.0	6.0	5.7	4.4	5.4	5	6	821435	812048
						1.0	0.8	123	29.2	7.9	7.9	23.6	23.6	87.0	80.2	5.9	5.4	4.4	6					
						4.4	0.6	109	29.1	7.9	7.9	23.7	23.7	80.2	80.2	5.4	5.4	5.1	6					
					Middle	4.4	0.6	110	29.1	7.9	7.9	23.7	23.7	80.1	80.2	5.4	5.4	5.1	6					
						7.8	0.5	98	29.2	7.9	7.9	23.7	23.7	80.9	81.2	5.5	5.5	6.7	8					
						7.8	0.5	104	29.2	7.9	7.9	23.7	23.7	81.4	81.2	5.5	5.5	6.7	7					
					Bottom	7.8	0.5	98	29.2	7.9	7.9	23.7	23.7	80.9	81.2	5.5	5.5	6.7	8					
						7.8	0.5	104	29.2	7.9	7.9	23.7	23.7	81.4	81.2	5.5	5.5	6.7	7					
						7.8	0.5	104	29.2	7.9	7.9	23.7	23.7	81.4	81.2	5.5	5.5	6.7	7					
SR1A	Misty	Calm	15:14	4.8	Surface	1.0	-	-	29.5	29.5	8.0	8.0	23.1	23.1	89.7	89.6	6.0	6.0	5.9	6.0	6	8	819971	812660
						1.0	-	-	29.5	8.0	8.0	23.1	23.1	89.5	89.6	6.0	6.0	5.9	6					
						2.4	-	-	-	-	-	-	-	-	-	-	-	-	6					
					Middle	2.4	-	-	-	-	-	-	-	-	-	-	-	-	6					
						3.8	-	-	29.5	29.5	8.0	8.0	23.2	23.2	85.4	87.2	5.7	5.7	6.5	9				
						3.8	-	-	29.5	29.5	8.0	8.0	23.2	23.2	88.9	87.2	6.0	6.0	6.5	11				
					Bottom	3.8	-	-	29.5	29.5	8.0	8.0	23.2	23.2	85.4	87.2	5.7	5.7	6.5	9				
						3.8	-	-	29.5	29.5	8.0	8.0	23.2	23.2	88.9	87.2	6.0	6.0	6.5	11				
						3.8	-	-	29.5	29.5	8.0	8.0	23.2	23.2	88.9	87.2	6.0	6.0	6.5	11				
SR2	Misty	Calm	15:33	4.0	Surface	1.0	0.6	67	29.4	29.4	8.0	8.0	23.4	23.4	87.5	87.4	5.9	5.9	8.1	8.7	9	8	821461	814170
						1.0	0.7	71	29.4	8.0	8.0	23.4	23.4	87.3	87.4	5.9	5.9	8.2	9					
						-	-	-	-	-	-	-	-	-	-	-	-	-	8					
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	8					
						-	-	-	-	-	-	-	-	-	-	-	-	-	8					
						-	-	-	-	-	-	-	-	-	-	-	-	-	8					
					Bottom	3.0	0.3	67	29.5	29.5	8.0	8.0	23.2	23.2	85.1	85.6	5.7	5.8	9.3	8				
						3.0	0.4	71	29.5	29.5	8.0	8.0	23.2	23.2	86.1	85.6	5.8	5.8	9.3	7				
						3.0	0.4	71	29.5	29.5	8.0	8.0	23.2	23.2	86.1	85.6	5.8	5.8	9.3	7				
SR3	Misty	Calm	13:52	9.4	Surface	1.0	0.1	154	29.8	29.9	7.9	7.9	22.1	22.0	85.2	85.2	5.7	5.3	4.4	5.2	6	8	822155	807587
						1.0	0.1	168	30.0	7.9	7.9	21.9	21.9	85.2	85.2	5.7	5.3	4.4	7					
						4.7	0.2	145	28.6	7.9	7.9	24.4	24.4	71.2	71.1	4.8	4.8	5.1	8					
					Middle	4.7	0.2	147	28.6	7.9	7.9	24.4	24.4	71.0	71.1	4.8	4.8	5.1	9					
						8.4	0.1	151	28.8	7.9	7.9	23.9	23.8	72.0	72.3	4.9	4.9	6.0	9					
						8.4	0.1	158	28.9	7.9	7.9	23.7	23.8	72.5	72.3	4.9	4.9	6.1	8					
					Bottom	8.4	0.1	151	28.8	7.9	7.9	23.9	23.8	72.0	72.3	4.9	4.9	6.0	9					
						8.4	0.1	158	28.9	7.9	7.9	23.7	23.8	72.5	72.3	4.9	4.9	6.1	8					
						8.4	0.1	158	28.9	7.9	7.9	23.7	23.8	72.5	72.3	4.9	4.9	6.1	8					
SR4A	Sunny	Moderate	15:17	9.8	Surface	1.0	0.2	248	30.5	30.4	8.3	8.3	25.5	25.5	107.2	107.5	7.0	6.3	6.5	9.3	10	9	817199	807816
						1.0	0.2	271	30.3	8.3	8.3	25.5	25.5	107.7	107.5	7.0	6.3	6.3	11					
						4.9	0.1	268	29.3	8.2	8.2	27.4	27.4	84.3	84.4	5.6	5.6	8.2	8					
					Middle	4.9	0.1	281	29.3	8.2	8.2	27.4	27.4	84.4	84.4	5.6	5.6	8.2	9					
						8.8	0.1	66	29.1	8.3	8.3	28.3	28.2	85.6	85.7	5.6	5.6	13.4	9					
						8.8	0.1	69	29.1	8.3	8.3	28.2	28.2	85.8	85.7	5.6	5.6	13.3	8					
					Bottom	8.8	0.1	66	29.1	8.3	8.3	28.3	28.2	85.6	85.7	5.6	5.6	13.4	9					
						8.8	0.1	69	29.1	8.3	8.3	28.2	28.2	85.8	85.7	5.6	5.6	13.3	8					
						8.8	0.1	69	29.1	8.3	8.3	28.2	28.2	85.8	85.7	5.6	5.6	13.3	8					
SR5A	Sunny	Moderate	15:36	3.6	Surface	1.0	0.1	312	30.0	30.0	8.2	8.2	25.4	25.4	92.1	92.2	6.1	6.1	7.5	9.3	6	8	816591	810696
						1.0	0.1	317	30.0	8.2	8.2	25.4	25.4	92.2	92.2	6.1	6.1	7.3	7					
						-	-	-	-	-	-	-	-	-	-	-	-	-	6					
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	6					
						-	-	-	-	-	-	-	-	-	-	-	-	-	6					
						-	-	-	-	-	-	-	-	-	-	-	-	-	6					
					Bottom	2.6	0.1	306	30.1	30.2	8.2	8.2	25.4	25.4	94.3	94.3	6.2	6.2	11.2	9				
						2.6	0.1	318	30.2	30.2	8.2	8.2	25.4	25.4	94.2									

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

Water Quality Monitoring Results on **27 July 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	09:01	8.4	Surface	1.0	0.5	33	29.4	29.5	8.3	8.3	25.5	25.4	94.0	94.1	6.2	6.0	5	5	6	815606	804231								
						1.0	0.6	35	29.5	8.3	8.3	25.4	25.4	94.2	6.3	5.9	4														
						4.2	0.6	30	29.0	29.0	8.3	8.3	28.4	28.4	88.3	5.8	6.9	7													
					Middle	4.2	0.6	32	29.0	29.0	8.3	8.3	28.4	28.4	88.2	5.8	6.9	6													
						7.4	0.6	36	28.9	29.0	8.3	8.3	29.3	29.3	87.9	5.8	11.3	7													
						7.4	0.6	37	29.0	29.0	8.3	8.3	29.3	29.3	88.1	5.8	11.0	7													
					C2	Misty	Calm	09:28	12.2	Surface	1.0	0.5	339	29.0	29.0	7.9	7.9	22.0	22.0	80.4				80.3	5.5	3.3	5	5	5	825694	806954
											1.0	0.6	312	29.0	29.0	7.9	7.9	22.1	22.1	80.1				5.5	3.3	5					
											6.1	0.6	337	29.0	29.0	7.9	7.9	22.2	22.1	80.8				5.5	4.2	5					
Middle	6.1	0.6	356	29.0						29.0	7.9	7.9	22.1	22.1	80.9	5.5	4.2	5													
	11.2	0.5	338	29.1						29.1	7.9	7.9	21.8	21.8	81.3	5.5	5.4	5													
	11.2	0.6	346	29.1						29.1	7.9	7.9	21.8	21.8	81.6	5.6	5.1	5													
C3	Misty	Calm	07:39	11.8						Surface	1.0	0.5	283	29.0	29.0	7.9	7.9	23.3	23.3	78.4	78.2	5.3	3.9	5	5	5	822097	817783			
											1.0	0.5	306	28.9	29.0	7.9	7.9	23.2	23.2	78.0	5.0	3.9	4								
											5.9	0.5	281	28.5	28.5	7.9	7.9	23.2	23.2	73.8	5.0	4.2	5								
					Middle	5.9	0.5	297	28.5	28.5	7.9	7.9	25.4	25.3	73.0	4.9	4.2	5													
						10.8	0.5	289	28.7	28.7	7.9	7.9	25.9	25.8	72.4	4.9	5.1	5													
						10.8	0.5	293	28.7	28.7	7.9	7.9	26.8	26.8	76.2	5.1	4.9	5													
					IM1	Sunny	Moderate	09:21	5.7	Surface	1.0	0.1	342	29.6	29.6	8.2	8.2	25.2	25.2	92.3	92.4	6.1	7.8	6	6				6	817926	807121
											1.0	0.1	349	29.6	29.6	8.2	8.2	25.2	25.2	92.4	6.1	7.7	6								
											-	-	-	-	-	-	-	-	-	-	-	-	-								
Middle	4.7	0.1	1	29.5						29.5	8.1	8.1	26.0	26.0	88.4	5.8	14.7	6													
	4.7	0.1	1	29.5						29.5	8.1	8.1	25.9	26.0	88.5	5.9	14.4	6													
	-	-	-	-						-	-	-	-	-	-	-	-	-													
IM2	Sunny	Moderate	09:30	7.4						Surface	1.0	0.4	344	29.6	29.6	8.2	8.2	25.1	25.2	96.8	96.7	6.4	5.9	7	7	6	818185	806148			
											1.0	0.4	355	29.6	29.6	8.2	8.2	25.2	25.2	96.6	6.4	5.8	6								
											3.7	0.4	356	29.6	29.6	8.2	8.2	25.4	25.4	90.4	6.0	5.7	7								
					Middle	3.7	0.4	328	29.6	29.6	8.2	8.2	25.4	25.4	90.6	6.0	5.8	6													
						6.4	0.2	354	29.4	29.4	8.2	8.2	26.4	26.4	84.7	5.6	12.9	6													
						6.4	0.3	326	29.4	29.4	8.2	8.2	26.4	26.4	84.8	5.6	12.9	5													
					IM3	Sunny	Moderate	09:37	7.8	Surface	1.0	0.5	336	29.6	29.6	8.2	8.2	25.1	25.1	92.5	92.5	6.1	5.5	5	5				5	818780	805604
											1.0	0.5	309	29.6	29.6	8.2	8.2	25.1	25.1	92.5	6.1	5.5	4								
											3.9	0.4	330	29.5	29.5	8.2	8.2	25.8	25.8	86.6	5.8	6.4	6								
Middle	3.9	0.5	304	29.4						29.4	8.2	8.2	25.9	25.9	86.7	5.7	6.4	5													
	6.8	0.3	316	29.3						29.3	8.2	8.2	26.7	26.7	85.1	5.6	11.3	5													
	6.8	0.3	332	29.3						29.3	8.2	8.2	26.7	26.7	85.0	5.6	11.1	6													
IM4	Sunny	Moderate	09:47	9.2						Surface	1.0	0.9	355	29.5	29.5	8.2	8.2	25.3	25.4	90.6	90.6	6.0	5.5	5	5	4	819714	804599			
											1.0	0.9	327	29.5	29.5	8.2	8.2	25.4	25.4	90.6	6.0	5.5	4								
											4.6	0.8	349	29.3	29.3	8.2	8.2	26.6	26.6	86.2	5.7	8.4	5								
					Middle	4.6	0.8	321	29.3	29.3	8.2	8.2	26.6	26.6	86.2	5.7	8.2	4													
						8.2	0.5	349	29.3	29.3	8.2	8.2	26.8	26.8	85.1	5.6	13.6	4													
						8.2	0.6	321	29.3	29.3	8.2	8.2	26.8	26.8	85.2	5.6	13.4	3													
					IM5	Sunny	Moderate	09:54	7.6	Surface	1.0	1.0	10	29.5	29.5	8.2	8.2	25.5	25.5	90.7	90.7	6.0	4.4	4	4				5	820746	804879
											1.0	1.1	10	29.5	29.5	8.2	8.2	25.5	25.5	90.6	6.0	4.4	4								
											3.8	0.9	14	29.5	29.5	8.2	8.2	25.7	25.7	87.4	5.8	9.7	4								
Middle	3.8	1.0	15	29.5						29.5	8.2	8.2	25.8	25.7	87.4	5.8	9.2	5													
	6.6	0.7	18	29.5						29.5	8.2	8.2	25.8	25.8	87.2	5.8	12.3	6													
	6.6	0.8	18	29.5						29.5	8.2	8.2	25.8	25.8	87.3	5.8	12.5	6													
IM6	Sunny	Moderate	10:01	8.0						Surface	1.0	0.0	27	29.7	29.7	8.2	8.2	23.7	23.8	91.4	91.4	6.1	6.2	8	7	7	821039	805814			
											1.0	0.0	29	29.7	29.7	8.2	8.2	23.8	23.8	91.3	6.1	6.3	7								
											4.0	0.2	49	29.6	29.6	8.2	8.2	24.4	24.4	89.8	6.0	7.2	6								
					Middle	4.0	0.2	52	29.6	29.6	8.2	8.2	24.4	24.4	89.9	6.0	7.4	7													
						7.0	0.2	34	29.3	29.3	8.2	8.2	26.3	26.3	82.4	5.2	10.5	5													
						7.0	0.2	34	29.3	29.3	8.2	8.2	26.3	26.3	82.1	5.4	10.4	6													
					IM7	Sunny	Moderate	10:10	9.4	Surface	1.0	0.1	180	29.7	29.7	8.2	8.2	23.3	23.2	90.1	90.1	6.0	5.4	3	4				4	821344	806824
											1.0	0.1	186	29.7	29.7	8.2	8.2	23.2	23.2	90.1	6.0	5.4	4								
											4.7	0.2	128	29.5	29.5	8.2	8.2	24.4	24.4	87.7	5.9	7.0	4								
Middle	4.7	0.2	129	29.5						29.5	8.2	8.2	24.4	24.4	87.7	5.8	7.0	4													
	8.4	0.2	89	29.3						29.3	8.2	8.2	26.8	26.7	81.1	5.3	14.3	5													
	8.4	0.2	92	29.3						29.3	8.2	8.2	26.7	26.7	81.0	5.4	14.7	4													
IM8	Misty	Calm	09:02	9.0						Surface	1.0	0.0	152	29.1	29.1	7.9	7.9	22.0	22.0	79.9	79.9	5.4	6.2	2	2	4	821850	808147			
											1.0	0.0	154	29.1	29.1	7.9	7.9	22.0	22.0	79.8	5.4	6.1	2								
											4.5	0.0	172	29.1	29.1	7.9	7.9	22.1	22.1	78.9	5.4	7.1	3								
					Middle	4.5	0.0	186	29.0	29.0	7.9	7.9	22.2	22.1	78.7	5.4	7.1	5													
						8.0	0.1	139	29.0	29.0	7.9	7.9	22.2	22.2	78.4	5.3	8.7	4													
						8.0	0.1	140	29.0	29.0	7.9	7.9	22.2	22.2	78.4	5.3	8.6	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 29 July 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	DA	Value	DA	Value	DA				
C1	Cloudy	Moderate	15:53	8.8	Surface	1.0	0.4	241	29.8	29.8	8.2	8.2	22.9	22.9	124.5	124.2	8.3	6.6	3.1	7.6	4	5	815638	804242
						1.0	0.4	261	29.8	8.3	8.0	22.9	29.2	123.8	73.2	8.3	4.9	3.2	3					
						4.4	0.2	220	27.9	8.0	8.0	29.2	29.2	73.2	73.2	4.9	6.6	8.2	5					
					Middle	4.4	0.2	234	27.9	8.0	8.0	29.2	27.9	73.1	73.1	4.9	6.6	9.1	6					
						7.8	0.3	226	27.7	8.0	8.0	29.7	29.7	73.6	73.8	4.9	4.9	11.4	6					
						7.8	0.3	235	27.7	8.0	8.0	29.7	27.7	74.0	73.8	4.9	4.9	10.7	6					
					Bottom	1.0	0.4	156	30.1	30.1	8.2	8.2	23.4	23.4	104.0	104.0	6.9	6.4	4.8	6				
						1.0	0.5	171	30.1	30.1	8.2	8.2	23.4	23.4	104.0	104.0	6.9	6.4	4.8	6				
						5.7	0.3	147	29.7	29.7	8.2	8.2	24.7	24.7	88.8	88.9	5.9	5.9	8.1	6				
Middle	5.7	0.3	152	29.7	29.7	8.2	8.2	24.7	24.7	88.9	88.9	5.9	5.9	8.1	6									
	10.3	0.2	142	29.6	29.6	8.2	8.2	25.0	25.0	88.1	88.2	5.8	5.9	9.0	6									
	10.3	0.2	152	29.6	29.6	8.2	8.2	25.0	25.0	88.2	88.2	5.9	5.9	9.0	6									
Bottom	1.0	0.2	126	29.3	29.3	8.2	8.2	26.8	26.8	89.7	89.6	5.9	5.7	5.8	5									
	1.0	0.2	135	29.3	29.3	8.2	8.2	26.8	26.8	89.5	89.6	5.9	5.7	5.9	5									
	5.8	0.2	98	29.2	29.2	8.2	8.2	27.3	27.3	83.3	83.3	5.5	5.7	7.3	7									
Middle	5.8	0.2	105	29.2	29.2	8.2	8.2	27.3	27.3	83.3	83.3	5.5	5.7	7.2	7									
	10.6	0.3	60	28.6	28.6	8.2	8.2	29.3	29.3	71.1	71.1	4.7	4.7	7.7	9									
	10.6	0.4	65	28.6	28.6	8.2	8.2	29.3	29.3	71.1	71.1	4.7	4.7	7.7	9									
Bottom	1.0	0.1	177	28.9	28.9	8.0	8.0	24.7	24.6	88.1	89.4	5.9	6.0	5.1	8									
	1.0	0.2	187	28.9	28.9	8.1	8.0	24.5	24.6	90.7	89.4	6.1	6.0	4.9	8									
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.0									
Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	817969	807130		
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
	4.2	0.1	167	28.6	28.7	8.0	8.0	26.3	26.2	77.9	78.1	5.2	5.2	13.6	6									
Bottom	4.2	0.1	182	28.7	28.7	8.0	8.0	26.2	26.2	78.2	78.1	5.2	5.2	12.6	5									
	1.0	0.2	184	28.9	28.9	8.1	8.1	24.8	24.7	93.8	94.0	6.3	5.6	6										
	1.0	0.2	185	28.8	28.9	8.1	8.1	24.7	24.7	94.1	94.0	6.3	5.8	6										
Middle	3.6	0.2	176	28.2	28.2	8.0	8.0	28.1	28.1	72.9	72.9	4.9	5.6	12.8	5									
	3.6	0.2	193	28.2	28.2	8.0	8.0	28.1	28.1	72.9	72.9	4.9	5.6	12.8	6									
	6.1	0.2	122	28.1	28.1	8.0	8.0	28.4	28.4	74.0	74.1	4.9	4.9	13.5	5									
Bottom	6.1	0.2	122	28.1	28.1	8.0	8.0	28.4	28.4	74.1	74.1	4.9	4.9	13.6	5									
	1.0	0.2	207	28.9	28.9	8.1	8.1	24.3	24.3	93.5	93.5	6.3	5.8	4.3	5									
	1.0	0.2	223	28.8	28.8	8.1	8.1	24.3	24.3	93.5	93.5	6.3	5.8	4.4	4									
Middle	3.8	0.3	143	28.2	28.2	8.0	8.0	27.9	27.9	78.4	78.4	5.2	5.8	5.3	8.0									
	3.8	0.3	154	28.2	28.2	8.0	8.0	28.0	27.9	78.3	78.4	5.2	5.8	5.3	5									
	6.5	0.3	128	28.1	28.1	8.0	8.0	28.5	28.5	74.5	74.8	5.0	5.0	14.7	7									
Bottom	6.5	0.3	134	28.1	28.1	8.0	8.0	28.5	28.5	75.0	74.8	5.0	5.0	14.2	7									
	1.0	0.4	193	28.5	28.5	8.0	8.0	26.0	26.0	76.4	76.4	5.1	4.9	7.6	6									
	1.0	0.4	211	28.5	28.5	8.0	8.0	26.0	26.0	76.4	76.4	5.1	4.9	8.2	5									
Middle	4.2	0.3	166	28.1	28.1	8.0	8.0	28.3	28.3	70.5	70.5	4.7	4.7	14.2	6									
	4.2	0.3	181	28.1	28.1	8.0	8.0	28.3	28.3	70.4	70.5	4.7	4.7	14.6	6									
	7.3	0.2	156	28.0	28.0	8.0	8.0	28.6	28.6	70.9	71.0	4.7	4.7	16.7	7									
Bottom	7.3	0.2	157	28.0	28.0	8.0	8.0	28.6	28.6	71.1	71.0	4.7	4.7	16.4	6									
	1.0	0.3	241	28.9	28.9	8.0	8.0	24.4	24.4	84.2	84.1	5.7	5.2	5.0	6									
	1.0	0.3	259	28.9	28.9	8.0	8.0	24.4	24.4	83.9	84.1	5.7	5.2	5.1	7									
Middle	4.0	0.2	217	28.3	28.3	8.0	8.0	27.5	27.5	71.0	70.9	4.7	5.2	10.9	6									
	4.0	0.2	230	28.3	28.3	8.0	8.0	27.5	27.5	70.7	70.9	4.7	5.2	11.6	5									
	7.0	0.2	217	28.2	28.2	8.0	8.0	28.1	28.1	69.7	69.8	4.7	4.7	17.3	6									
Bottom	7.0	0.2	238	28.2	28.2	8.0	8.0	28.1	28.1	69.9	69.8	4.7	4.7	16.5	6									
	1.0	0.5	274	28.5	28.5	8.0	8.0	25.1	25.1	80.5	80.3	5.4	5.1	7.9	6									
	1.0	0.5	284	28.5	28.5	8.0	8.0	25.0	25.1	80.1	80.3	5.4	5.1	8.2	6									
Middle	3.9	0.2	235	28.2	28.2	8.0	8.0	27.8	27.8	69.8	69.7	4.7	5.1	12.4	6									
	3.9	0.2	235	28.2	28.2	8.0	8.0	27.9	27.8	69.6	69.7	4.7	5.1	13.4	6									
	6.8	0.1	188	28.2	28.2	8.0	8.0	28.1	28.1	70.2	70.3	4.7	4.7	15.7	6									
Bottom	6.8	0.1	190	28.2	28.2	8.0	8.0	28.1	28.1	70.3	70.3	4.7	4.7	15.1	7									
	1.0	0.3	240	28.7	28.7	8.0	8.0	25.6	25.7	81.4	81.4	5.5	5.3	7.5	5									
	1.0	0.3	242	28.6	28.7	8.0	8.0	25.6	25.7	81.3	81.4	5.5	5.3	7.7	6									
Middle	4.4	0.1	265	28.3	28.3	8.0	8.0	27.4	27.4	74.1	74.2	5.0	5.3	12.4	5									
	4.4	0.1	266	28.3	28.3	8.0	8.0	27.4	27.4	74.3	74.2	5.0	5.3	12.7	6									
	7.8	0.1	100	28.3	28.3	8.0	8.0	27.7	27.6	70.4	70.5	4.7	4.7	13.0	5									
Bottom	7.8	0.1	105	28.3	28.3	8.0	8.0	27.5	27.6	70.6	70.5	4.7	4.7	12.3	6									
	1.0	0.0	290	29.8	29.8	8.2	8.2	23.9	23.9	100.7	100.7	6.7	6.4	5.1	9									
	1.0	0.0	310	29.8	29.8	8.2	8.2	23.9	23.9	100.7	100.7	6.7	6.4	5.1	10									
Middle	4.0	0.2	175	29.6	29.6	8.2	8.2	25.6	25.6	90.1	90.1	6.0	6.4	9.9	7									
	4.0	0.2	191	29.6	29.6	8.2	8.2	25.6	25.6	90.1	90.1	6.0	6.4	9.9	7									
	6.9	0.1	71	29.3	29.3	8.2	8.2	27.2	27.2	85.9	85.9	5.7	5.7	10.1	8									
Bottom	6.9	0.1	76	29.3	29.3	8.2	8.2	27.2	27.2	85.9	85.9	5.7	5.7	10.1	7									

DA: Depth-Averaged

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

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

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

Water Quality Monitoring Results on 29 July 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	Rough	15:31	7.5	Surface	1.0	0.1	101	30.0	30.0	8.3	8.3	23.6	23.6	103.8	103.8	6.9	6.4	4.8	7	6	822101	808787								
						1.0	0.1	107	30.0	8.3	8.3	23.6	23.6	103.8	103.8	6.9	6.4	4.8	7												
						3.8	0.2	118	29.6	8.2	8.2	25.2	25.2	88.6	88.6	5.9	6.2	8.1	7												
					Middle	3.8	0.3	119	29.6	8.2	8.2	25.2	25.2	88.6	88.6	5.9	6.2	8.1	7												
						6.5	0.2	104	29.6	8.3	8.3	25.6	25.5	93.6	93.6	6.2	6.2	9.5	6												
						6.5	0.2	108	29.6	8.3	8.3	25.5	25.5	93.5	93.5	6.2	6.2	9.5	5												
					IM10	Cloudy	Rough	15:37	7.7	Surface	1.0	0.7	122	30.0	30.0	8.3	8.3	23.8	23.8	106.8				106.8	7.1	6.6	4.8	7	6	822363	809806
											1.0	0.8	133	30.0	8.3	8.3	23.8	23.8	106.7	106.7				7.1	6.6	4.9	6				
											3.9	0.5	109	29.6	8.2	8.2	25.4	25.4	91.2	91.2				6.0	6.1	7.9	6				
Middle	3.9	0.6	109	29.6						8.2	8.2	25.4	25.4	91.2	91.2	6.0	6.1	7.9	5												
	6.7	0.4	102	29.6						8.3	8.3	25.6	25.6	92.4	92.4	6.1	6.1	9.1	6												
	6.7	0.5	102	29.6						8.3	8.3	25.6	25.6	92.4	92.4	6.1	6.1	9.1	4												
IM11	Cloudy	Rough	15:53	8.5						Surface	1.0	0.8	109	30.4	30.4	8.4	8.4	22.7	22.7	136.5	136.6	9.1	8.2	3.4	8	7	822051	811475			
											1.0	0.8	112	30.4	8.4	8.4	22.7	22.7	136.6	136.6	9.1	8.2	3.5	7							
											4.3	0.8	105	30.1	8.3	8.3	24.2	24.1	110.0	110.0	7.3	7.3	4.3	8							
					Middle	4.3	0.8	110	30.1	8.3	8.3	24.1	24.1	110.0	110.0	7.3	7.3	4.2	8												
						7.5	0.6	84	29.8	8.2	8.2	25.0	25.0	95.3	95.3	6.3	6.3	7.2	6												
						7.5	0.6	87	29.8	8.2	8.2	25.0	25.0	95.2	95.2	6.3	6.3	7.1	7												
					IM12	Cloudy	Rough	15:58	9.5	Surface	1.0	0.5	102	30.5	30.5	8.3	8.3	22.8	22.8	133.0	133.0	8.8	7.2	3.6	8				9	821443	812064
											1.0	0.5	107	30.5	8.3	8.3	22.8	22.8	132.9	132.9	8.8	7.2	3.6	8							
											4.8	0.4	87	29.4	8.2	8.2	26.2	26.2	84.8	84.8	5.6	5.6	10.5	9							
Middle	4.8	0.4	92	29.4						8.2	8.2	26.2	26.2	84.8	84.8	5.6	5.6	10.6	10												
	8.5	0.2	61	29.3						8.2	8.2	26.7	26.7	76.7	76.7	5.1	5.1	9.8	11												
	8.5	0.2	61	29.3						8.2	8.2	26.7	26.7	76.7	76.7	5.1	5.1	9.8	10												
SR1A	Cloudy	Rough	16:30	5.3						Surface	1.0	-	-	29.9	29.9	8.3	8.3	24.1	24.1	106.9	106.9	7.1	7.1	4.8	8	9	819972	812656			
											1.0	-	-	29.9	29.9	8.3	8.3	24.1	24.1	106.9	106.9	7.1	7.1	4.8	8						
											2.7	-	-	-	-	-	-	-	-	-	-	-	-	-	6.4						
					Middle	2.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-										
						4.3	-	-	29.6	29.6	8.2	8.2	26.1	26.1	79.0	79.2	5.2	5.2	7.9	10											
						4.3	-	-	29.6	29.6	8.2	8.2	26.1	26.1	79.4	79.4	5.2	5.2	7.9	9											
					SR2	Cloudy	Rough	16:46	3.6	Surface	1.0	0.5	80	30.1	30.1	8.3	8.3	24.2	24.2	114.8	114.6	7.6	7.6	4.1	7				7	821483	814179
											1.0	0.5	80	30.1	8.3	8.3	24.3	24.2	114.3	114.3	7.6	7.6	4.1	6							
											-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.5						
Middle	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-										
	2.6	0.3	68	29.7						8.2	8.2	25.6	25.6	90.4	90.4	6.0	6.0	6.9	6												
	2.6	0.3	70	29.7						8.2	8.2	25.6	25.6	90.4	90.4	6.0	6.0	6.9	7												
SR3	Rainy	Rough	15:14	8.1						Surface	1.0	0.1	284	30.0	30.0	8.2	8.2	23.6	23.6	100.5	100.5	6.7	6.3	5.5	5	6	822137	807550			
											1.0	0.1	312	30.0	8.2	8.2	23.6	23.6	100.4	100.4	6.7	6.3	5.5	6							
											4.1	0.2	227	29.7	8.2	8.2	24.7	24.7	88.5	88.5	5.9	5.9	7.7	5							
					Middle	4.1	0.2	231	29.7	8.2	8.2	24.8	24.7	88.5	88.5	5.9	5.9	7.8	6												
						7.1	0.1	93	29.7	8.2	8.2	24.8	24.8	88.3	88.3	5.9	5.9	8.1	6												
						7.1	0.1	101	29.7	8.2	8.2	24.8	24.8	88.3	88.3	5.9	5.9	8.1	6												
					SR4A	Cloudy	Moderate	16:17	8.3	Surface	1.0	0.1	77	28.7	28.7	8.1	8.1	24.1	24.2	95.6	92.6	6.5	5.7	8.8	4				6	817167	807798
											1.0	0.1	82	28.6	8.1	8.1	24.3	24.2	89.6	89.6	6.1	6.1	9.6	5							
											4.2	0.1	85	28.4	8.0	8.0	27.3	27.3	75.4	75.4	5.0	5.0	13.1	6							
Middle	4.2	0.1	86	28.4						8.0	8.0	27.3	27.3	75.4	75.4	5.0	5.0	13.4	6												
	7.3	0.3	226	28.4						8.0	8.0	27.3	27.3	75.8	75.9	5.1	5.1	13.1	7												
	7.3	0.3	246	28.4						8.0	8.0	27.3	27.3	75.9	75.9	5.1	5.1	12.8	6												
SR5A	Cloudy	Moderate	16:33	3.6						Surface	1.0	0.1	4	29.3	29.3	8.0	8.0	23.4	23.4	83.2	83.2	5.6	5.6	8.6	4	5	816571	810709			
											1.0	0.1	4	29.3	8.0	8.0	23.5	23.4	83.2	83.2	5.6	5.6	8.8	4							
											-	-	-	-	-	-	-	-	-	-	-	-	-	-							
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-										
						2.6	0.1	338	29.3	8.0	8.0	23.6	23.6	82.8	82.9	5.6	5.6	14.4	5												
						2.6	0.1	345	29.3	8.0	8.0	23.6	23.6	83.0	82.9	5.6	5.6	13.7	6												
					SR6A	Cloudy	Moderate	17:03	4.3	Surface	1.0	0.1	10	29.6	29.6	7.9	7.9	23.1	23.0	81.9	81.9	5.5	5.5	8.6	7				8	817948	814736
											1.0	0.1	10	29.6	7.9	7.9	23.0	23.0	81.9	81.9	5.5	5.5	8.6	8							
											-	-	-	-	-	-	-	-	-	-	-	-	-	-							
Middle	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-										
	3.3	0.0	242	29.3						7.9	7.9	23.9	23.8	73.9	74.7	5.0	5.1	12.0	9												
	3.3	0.0	255	29.4						7.9	7.9	23.7	23.7	75.5	75.5	5.1	5.1	11.3	9												
SR7	Cloudy	Rough	17:28	19.6						Surface	1.0	1.1	79	29.5	29.5	8.3	8.3	25.9	25.9	99.4	99.4	6.6	5.9	4.2	4	4	823655	823763			
											1.0	1.2	81	29.5	8.3	8.3	25.9	25.9	99.4	99.4	6.6	5.9	4.2	5							
											9.8	0.6	76	28.7	8.2	8.2	29.0	29.0	77.4	77.4	5.1	5.1	5.6	4							
					Middle	9.8	0.6	81	28.8	8.2	8.2	29.0	29.0	77.3	77.3	5.1	5.1	5.6	4												
						18.6	0.0	7	28.4	8.2	8.2	30.0	30.0	73.0	73.0	4.8	4.8	6.0	2												
						18.6	0.0	7	28.4	8.2	8.2	30.0	30.0	73.0	73.0	4.8	4.8	6.1	4												
					SR8	Cloudy	Rough	16:06	4.1	Surface	1.0	-	-	30.3	30.3	8.3	8.3	24.1	24.1	108.5	108.5	7.2	7.2	7.3	8				8	820370	811613
											1.0	-	-	30.3	8.3	8.3	24.1	24.1	108.4	108.4	7.2	7.2	7.4	8							
											-	-	-	-	-	-	-	-	-	-	-	-	-	-							
Middle	-	-	-	-						-	-	-	-	-	-	-	-	-	-	-	-										
	3.1	-	-	30.2						30.2	8.2	8.2	25.0	25.0	100.8	100.8	6.6	6.6	5.3	9											
	3.1	-	-	30.2						30.2	8.2	8.2	25.0	25.0	100.8	100.8	6.6	6.6	5.3	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 29 July 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	DA	Value	DA	Value	DA				
C1	Cloudy	Moderate	10:34	8.7	Surface	1.0	0.6	44	28.6	28.6	8.1	8.1	25.6	25.6	85.7	85.7	5.8	5.8	4.2	3	3	815596	804253	
						1.0	0.6	47	28.6	8.1	8.1	25.6	25.6	85.6	85.6	5.8	5.8	4.2	4					
						4.4	0.7	41	28.0	8.0	8.0	28.8	28.9	71.7	71.7	4.8	4.8	13.5	3					
					Middle	4.4	0.8	42	27.9	8.0	8.0	28.9	28.9	71.6	71.6	4.8	4.8	12.6	3					
						7.7	0.5	36	27.9	8.0	8.0	29.1	29.1	72.4	72.4	4.8	4.8	12.6	2					
						7.7	0.5	36	27.9	8.0	8.0	29.1	29.1	72.4	72.4	4.8	4.8	12.1	3					
					Bottom	1.0	0.4	337	30.3	8.2	8.2	23.3	23.3	98.3	98.3	6.5	6.5	4.1	4					
						1.0	0.5	337	30.3	8.2	8.2	23.3	23.3	98.3	98.3	6.5	6.5	4.1	3					
						6.6	0.5	334	29.8	8.2	8.2	24.3	24.3	91.6	91.6	6.1	6.1	5.2	3					
C2	Sunny	Moderate	11:03	13.1	Surface	1.0	0.4	357	30.3	30.3	8.2	8.2	23.3	23.3	98.3	98.3	6.5	6.5	4.1	3	3	825698	806956	
						1.0	0.5	334	29.8	8.2	8.2	24.3	24.3	91.6	91.6	6.1	6.1	5.2	3					
						6.6	0.5	338	29.8	8.2	8.2	24.7	24.7	88.5	88.5	5.9	5.9	9.0	3					
					Middle	6.6	0.5	334	29.8	8.2	8.2	24.3	24.3	91.6	91.6	6.1	6.1	5.2	3					
						6.6	0.5	338	29.8	8.2	8.2	24.7	24.7	88.6	88.6	5.9	5.9	9.0	3					
						12.1	0.4	328	29.7	8.2	8.2	25.0	25.0	95.2	95.2	6.3	6.3	4.0	3					
					Bottom	12.1	0.4	328	29.7	8.2	8.2	25.0	25.0	95.2	95.2	6.3	6.3	4.0	3					
						12.1	0.4	278	29.7	8.2	8.2	25.5	25.5	87.5	87.5	5.8	5.8	4.6	4					
						6.2	0.4	287	29.6	8.2	8.2	25.5	25.5	87.4	87.4	5.8	5.8	4.7	2					
C3	Sunny	Moderate	09:05	12.4	Surface	1.0	0.4	283	29.7	29.7	8.2	8.2	25.0	25.0	95.2	95.2	6.3	6.3	4.0	3	3	822126	817807	
						6.2	0.4	287	29.6	8.2	8.2	25.5	25.5	87.5	87.5	5.8	5.8	4.6	4					
						6.2	0.5	277	29.5	8.2	8.2	29.6	29.6	74.6	74.6	4.9	4.9	7.0	2					
					Middle	6.2	0.5	277	29.5	8.2	8.2	29.6	29.6	74.6	74.6	4.9	4.9	7.0	2					
						11.4	0.4	282	28.6	8.2	8.2	29.6	29.6	74.6	74.6	4.9	4.9	7.0	2					
						11.4	0.4	306	28.6	8.2	8.2	29.6	29.6	74.6	74.6	4.9	4.9	7.0	2					
					Bottom	1.0	0.1	97	29.2	29.2	8.1	8.1	22.8	22.8	101.8	101.8	6.9	6.9	4.6	6				
						1.0	0.1	104	29.1	29.1	8.1	8.1	22.8	22.8	101.2	101.2	6.9	6.9	5.0	6				
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Bottom	4.5	0.1	162	28.9	28.9	8.0	8.0	25.2	25.2	83.9	84.1	5.6	5.7	6.7	5									
	4.5	0.1	168	28.9	28.9	8.1	8.0	25.2	25.2	84.2	84.1	5.7	5.7	6.4	5									
	1.0	0.3	357	29.5	29.5	8.2	8.2	22.6	22.6	118.4	118.4	8.0	6.7	3.3	5									
Middle	1.0	0.3	328	29.5	29.5	8.2	8.2	22.6	22.6	118.4	118.4	8.0	6.7	3.3	5									
	3.8	0.3	0	28.8	28.8	8.0	8.0	25.1	25.1	80.2	80.2	5.4	6.8	6.4	4									
	3.8	0.3	0	28.8	28.8	8.0	8.0	25.1	25.1	80.1	80.1	5.4	6.8	6.4	5									
Bottom	6.6	0.2	347	28.5	28.5	8.0	8.0	26.5	26.5	78.7	79.0	5.3	5.3	10.6	7									
	6.6	0.2	319	28.5	28.5	8.0	8.0	26.5	26.5	79.2	79.0	5.3	5.3	10.8	7									
	1.0	0.3	332	29.5	29.5	8.2	8.2	22.4	22.4	135.1	135.3	9.1	7.2	2.8	5									
Middle	1.0	0.3	353	29.5	29.5	8.2	8.2	22.4	22.4	135.5	135.3	9.1	7.2	2.8	4									
	3.8	0.3	340	28.8	28.8	8.0	8.0	25.3	25.3	78.3	78.4	5.3	6.7	7.1	7									
	3.8	0.4	313	28.8	28.8	8.0	8.0	25.2	25.2	78.5	78.4	5.3	6.7	6.8	7									
Bottom	6.6	0.2	340	28.4	28.4	8.0	8.0	27.0	27.0	76.2	76.3	5.1	5.1	10.4	8									
	6.6	0.2	351	28.4	28.4	8.0	8.0	27.0	27.0	76.4	76.3	5.1	5.1	10.4	7									
	1.0	0.6	337	29.1	29.1	8.0	8.0	23.7	23.7	87.6	87.6	5.9	5.4	4.2	2									
Middle	1.0	0.6	347	29.1	29.1	8.0	8.0	23.7	23.7	87.6	87.6	5.9	5.4	4.2	3									
	4.1	0.6	347	28.4	28.4	8.0	8.0	27.2	27.2	73.7	73.7	4.9	5.9	5.8	3									
	4.1	0.6	319	28.4	28.4	8.0	8.0	27.2	27.2	73.7	73.7	4.9	5.9	5.1	2									
Bottom	7.2	0.4	352	28.3	28.3	8.0	8.0	27.4	27.4	75.8	76.0	5.1	5.1	8.0	4									
	7.2	0.4	324	28.3	28.3	8.0	8.0	27.4	27.4	76.1	76.0	5.1	5.1	8.0	4									
	1.0	0.9	2	29.1	29.1	8.1	8.1	23.0	23.1	100.9	100.8	6.8	5.9	3.8	4									
Middle	1.0	0.9	2	29.1	29.1	8.1	8.1	23.1	23.1	100.6	100.8	6.8	5.9	3.8	3									
	3.8	0.8	10	28.5	28.5	8.0	8.0	26.6	26.7	72.4	72.4	4.9	8.2	9.9	4									
	3.8	0.8	10	28.5	28.5	8.0	8.0	26.7	26.7	72.4	72.4	4.9	8.2	10.6	3									
Bottom	6.6	0.5	28	28.5	28.5	8.0	8.0	26.9	26.9	72.9	73.0	4.9	4.9	10.8	3									
	6.6	0.6	29	28.5	28.5	8.0	8.0	26.9	26.9	73.0	73.0	4.9	4.9	10.5	3									
	1.0	0.1	273	29.3	29.3	8.1	8.1	22.5	22.5	102.2	102.1	6.9	6.3	3.7	5									
Middle	1.0	0.1	279	29.3	29.3	8.1	8.1	22.5	22.5	102.0	102.1	6.9	6.3	3.7	4									
	4.1	0.1	36	28.9	28.9	8.0	8.0	24.8	24.8	83.4	83.3	5.6	7.8	4	4									
	4.1	0.1	36	28.9	28.9	8.0	8.0	24.9	24.9	83.1	83.3	5.6	7.8	4	4									
Bottom	7.2	0.2	60	28.8	28.8	8.0	8.0	25.3	25.3	83.3	83.4	5.6	5.6	12.1	4									
	7.2	0.2	65	28.8	28.8	8.0	8.0	25.3	25.3	83.5	83.4	5.6	5.6	12.0	4									
	1.0	0.1	194	29.6	29.6	8.0	8.0	21.6	21.7	98.1	98.0	6.6	6.3	3.6	5									
Middle	1.0	0.1	200	29.5	29.5	8.0	8.0	21.7	21.7	97.9	98.0	6.6	6.3	3.8	6									
	4.2	0.2	156	29.0	29.0	8.0	8.0	23.0	23.0	88.7	88.7	6.0	8.7	6.6	5									
	4.2	0.2	163	29.0	29.0	8.0	8.0	23.0	23.0	88.6	88.7	6.0	8.7	6.7	4									
Bottom	7.4	0.1	89	28.7	28.7	8.0	8.0	25.6	25.6	79.4	79.4	5.3	5.3	14.9	4									
	7.4	0.1	89	28.7	28.7	8.0	8.0	25.6	25.6	79.3	79.4	5.3	5.3	16.9	4									
	1.0	0.0	35	30.2	30.2	8.3	8.3	21.9	21.9	107.0	107.0	7.2	6.7	3.9	9									
Middle	1.0	0.0	38	30.2	30.2	8.3	8.3	21.9	21.9	106.9	107.0	7.1	6.7	3.9	8									
	4.3	0.0	230	29.9	29.9	8.2	8.2	23.6	23.7	93.6	93.6	6.2	5.1	4.7	8									
	4.3	0.0	245	29.9	29.9	8.2	8.2	23.7	23.7	93.5	93.6	6.2	5.1	4.7	7									
Bottom	7.5	0.1	211	29.8	29.8	8.2	8.2	24.1	24.1	87.8	87.8	5.8	5.8	6.7	6									
	7.5	0.1	211	29.8	29.8	8.2	8.2	24.1	24.1	87.8	87.8	5.8	5.8	6.7	5									

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

**Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring**

Water Quality Monitoring Results on 29 July 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					
																							Value			Average	Value
IM9	Sunny	Moderate	10:32	8.4	Surface	1.0	0.3	283	30.0	30.0	8.2	8.2	24.0	24.0	91.5	91.5	6.1	5.9	7.6	9.9	7	8	822108	808799			
						1.0	0.3	293	30.0	8.2	8.2	24.0	24.0	91.5	91.5	6.1	5.9	7.6	9.9	7	8						
						4.2	0.2	254	29.8	8.2	8.2	24.4	24.4	86.1	86.1	5.7	5.9	10.3	9.9	8	8						
					Middle	4.2	0.2	270	29.8	8.2	8.2	24.4	24.4	86.0	86.0	5.7	5.9	10.4	9.9	9	8						
						7.4	0.2	258	29.8	8.2	8.2	24.6	24.6	84.5	84.5	5.6	5.6	11.6	9.9	10	8						
						7.4	0.2	261	29.8	8.2	8.2	24.6	24.6	84.5	84.5	5.6	5.6	11.7	9.9	10	8						
					Bottom	1.0	0.8	305	29.9	29.9	8.2	8.2	23.7	23.7	98.0	98.0	6.5	6.2	4.0	6.2	7	6					
						1.0	0.8	326	29.9	29.9	8.2	8.2	23.7	23.7	98.0	98.0	6.5	6.2	4.0	6.2	8	6					
						4.2	0.7	300	29.7	29.7	8.2	8.2	24.6	24.6	87.5	87.5	5.8	5.4	5.8	6.2	6	6					
IM10	Sunny	Moderate	10:26	8.3	Surface	1.0	0.8	305	29.9	29.9	8.2	8.2	23.7	23.7	98.0	98.0	6.5	6.2	4.0	6.2	7	6	822378	809798			
						1.0	0.8	326	29.9	29.9	8.2	8.2	23.7	23.7	98.0	98.0	6.5	6.2	4.0	6.2	8	6					
						4.2	0.7	300	29.7	29.7	8.2	8.2	24.6	24.6	87.5	87.5	5.8	5.4	5.8	6.2	6	6					
					Middle	4.2	0.7	313	29.7	29.7	8.2	8.2	24.6	24.6	87.5	87.5	5.8	5.4	5.8	6.2	6	6					
						7.3	0.5	292	29.6	29.6	8.2	8.2	25.6	25.6	80.8	80.9	5.3	5.4	8.9	6.2	4	6					
						7.3	0.5	312	29.6	29.6	8.2	8.2	25.6	25.6	80.9	80.9	5.4	5.4	8.9	6.2	4	6					
					Bottom	1.0	0.6	304	29.9	29.9	8.3	8.3	23.9	23.9	104.2	104.2	6.9	6.4	4.4	7.3	5	6					
						1.0	0.6	310	29.9	29.9	8.3	8.3	23.9	23.9	104.1	104.1	6.9	6.4	4.4	7.3	5	6					
						4.1	0.6	301	29.8	29.8	8.2	8.2	24.8	24.8	87.2	87.1	5.8	5.0	4.8	7.3	5	6					
IM11	Sunny	Moderate	10:17	8.1	Surface	1.0	0.6	304	29.9	29.9	8.3	8.3	23.9	23.9	104.2	104.2	6.9	6.4	4.4	7.3	5	6	822050	811474			
						1.0	0.6	310	29.9	29.9	8.3	8.3	23.9	23.9	104.1	104.1	6.9	6.4	4.4	7.3	5	6					
						4.1	0.6	301	29.8	29.8	8.2	8.2	24.8	24.8	87.2	87.1	5.8	5.0	4.8	7.3	5	6					
					Middle	4.1	0.6	317	29.8	29.8	8.2	8.2	24.8	24.8	87.0	87.0	5.8	5.0	4.8	7.3	5	6					
						7.1	0.3	295	29.2	29.2	8.2	8.2	27.2	27.2	75.5	75.6	5.0	5.0	12.8	7.3	7	6					
						7.1	0.4	316	29.2	29.2	8.2	8.2	27.2	27.2	75.6	75.6	5.0	5.0	12.7	7.3	7	6					
					Bottom	1.0	0.6	301	29.8	29.8	8.2	8.2	24.2	24.2	97.9	98.0	6.5	6.1	4.0	5.7	10	8					
						1.0	0.7	330	29.8	29.8	8.2	8.2	24.2	24.2	98.0	98.0	6.5	6.1	4.0	5.7	9	8					
						4.0	0.6	299	29.6	29.6	8.2	8.2	25.6	25.6	85.2	85.2	5.6	5.4	7.0	5.7	9	8					
IM12	Sunny	Moderate	10:10	7.9	Surface	1.0	0.6	301	29.8	29.8	8.2	8.2	24.2	24.2	97.9	98.0	6.5	6.1	4.0	5.7	10	8	821440	812056			
						1.0	0.7	330	29.8	29.8	8.2	8.2	24.2	24.2	98.0	98.0	6.5	6.1	4.0	5.7	9	8					
						4.0	0.6	299	29.6	29.6	8.2	8.2	25.6	25.6	85.2	85.2	5.6	5.4	7.0	5.7	9	8					
					Middle	4.0	0.7	320	29.6	29.6	8.2	8.2	25.6	25.6	85.2	85.2	5.6	5.4	7.0	5.7	9	8					
						6.9	0.5	308	29.5	29.5	8.2	8.2	26.1	26.1	82.3	82.3	5.4	5.4	6.2	5.7	7	8					
						6.9	0.5	322	29.5	29.5	8.2	8.2	26.1	26.1	82.3	82.3	5.4	5.4	6.2	5.7	6	8					
					Bottom	1.0	-	-	29.9	29.9	8.2	8.2	24.2	24.2	93.6	93.6	6.2	6.2	4.2	7	6						
						1.0	-	-	29.9	29.9	8.2	8.2	24.2	24.2	93.6	93.6	6.2	6.2	4.1	7	6						
						2.3	-	-	-	-	-	-	-	-	-	-	-	-	-	4.9	8						
SR1A	Sunny	Moderate	09:38	4.5	Surface	1.0	-	-	29.9	29.9	8.2	8.2	24.2	24.2	93.6	93.6	6.2	6.2	4.2	7	6	819974	812656				
						1.0	-	-	29.9	29.9	8.2	8.2	24.2	24.2	93.6	93.6	6.2	6.2	4.1	7	6						
						2.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.9			8			
					Middle	2.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			4.9	8		
						3.5	-	-	29.8	29.8	8.2	8.2	24.4	24.4	88.6	88.6	5.9	5.9	5.5	9	8						
						3.5	-	-	29.8	29.8	8.2	8.2	24.4	24.4	88.6	88.6	5.9	5.9	5.5	9	8						
					Bottom	1.0	0.0	191	29.8	29.8	8.2	8.2	24.4	24.4	95.9	95.9	6.4	6.4	4.7	6.3	3			5			
						1.0	0.0	206	29.8	29.8	8.2	8.2	24.4	24.4	95.9	95.9	6.4	6.4	4.7	6.3	4			5			
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			5	5		
SR2	Sunny	Moderate	09:23	4.6	Surface	1.0	0.0	191	29.8	29.8	8.2	8.2	24.4	24.4	95.9	95.9	6.4	6.4	4.7	6.3	3	5	821459	814168			
						1.0	0.0	206	29.8	29.8	8.2	8.2	24.4	24.4	95.9	95.9	6.4	6.4	4.7	6.3	4	5					
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			5	5	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	6.3	5
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	6.3	5
						3.6	0.0	35	29.5	29.5	8.2	8.2	26.2	26.2	82.7	82.7	5.5	5.5	7.9	6	8						
					Bottom	3.6	0.0	37	29.5	29.5	8.2	8.2	26.2	26.2	82.7	82.7	5.5	5.5	7.9	6	8						
						1.0	0.1	325	29.9	29.9	8.2	8.2	23.6	23.6	97.0	97.0	6.5	6.4	5.7	7.3	3	4					
						1.0	0.1	349	29.9	29.9	8.2	8.2	23.6	23.6	97.0	97.0	6.5	6.4	5.7	7.3	3	4					
Middle	4.6	0.1	349	29.8	29.8	8.2	8.2	24.0	24.0	94.1	94.1	6.3	6.1	6.8	7.3	4	4										
	4.6	0.1	321	29.8	29.8	8.2	8.2	24.0	24.0	94.1	94.1	6.3	6.1	6.9	7.3	3	4										
	8.1	0.1	66	29.7	29.7	8.2	8.2	24.3	24.3	91.8	91.9	6.1	6.1	9.4	7.3	5	4										
Bottom	8.1	0.1	66	29.7	29.7	8.2	8.2	24.3	24.3	91.9	91.9	6.1	6.1	9.3	7.3	6	4										
	1.0	0.0	43	29.2	29.2	8.0	8.0	22.8	22.8	86.8	86.8	5.9	5.6	5.3	8.8	7	8										
	1.0	0.0	44	29.2	29.2	8.0	8.0	22.8	22.8	86.7	86.7	5.9	5.6	5.3	8.8	7	8										
Middle	4.6	0.1	90	28.8	28.8	8.0	8.0	24.5	24.5	78.9	78.9	5.3	4.9	6.6	8.8	9	8										
	4.6	0.1	93	28.8	28.8	8.0	8.0	24.5	24.5	78.8	78.8	5.3	4.9	6.6	8.8	9	8										
	8.1	0.3	72	28.5	28.5	8.0	8.0	26.5	26.5	73.7	73.8	4.9	4.9	14.3	8.8	9	8										
Bottom	8.1	0.3	72	28.5	28.5	8.0	8.0	26.5	26.5	73.8	73.8	4.9	4.9	14.5	8.8	9	8										
	1.0	0.1	284	29.4	29.4	8.0	8.0	23.6	23.6	81.5	81.6	5.5	5.5	6.3	7.2	9	10										
	1.0	0.2	301	29.4	29.4	8.0	8.0	23.6	23.6	81.6	81.6	5.5	5.5	6.3	7.2	10	10										
Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.2	10								
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	10							
	2.7	0.1	300	29.3	29.4	8.0	8.0	23.6	23.6	82.5	82.7	5.5	5.6	8.1	7.2	11	10										
Bottom	2.7	0.1	310	29.4	29.4	8.0	8.0	23.6	23.6	82.8	82.8	5.5	5.6	8.0	7.2	10	10										
	1.0	0.1	189	29.4	29.4	8.0	8.0	23.4	23.4	84.6	84.6	5.															

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

Water Quality Monitoring

Water Quality Monitoring Results on 31 July 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	Rainy	Rough	17:19	8.6	Surface	1.0	0.2	257	29.5	29.5	8.1	8.1	19.5	19.5	152.2	151.7	10.4	10.4	3.2	8	11	815629	804245	
						1.0	0.2	282	29.5	8.1	8.1	19.5	19.5	151.2	151.7	10.4	10.4	3.4	9					
						4.3	0.1	200	27.2	8.1	8.0	23.7	23.8	53.1	53.1	3.6	7.0	7.6	11					
					Middle	4.3	0.1	218	27.1	27.2	7.9	8.0	24.0	23.8	53.0	53.1	3.6	7.0	8.2	11				
						7.6	0.1	167	27.1	27.1	7.9	7.9	30.1	30.1	58.0	61.3	3.9	4.1	9.9	13				
						7.6	0.1	175	27.1	27.1	7.9	7.9	30.1	30.1	64.6	61.3	4.3	4.1	9.7	12				
					Bottom	1.0	0.3	58	30.2	30.2	8.1	8.1	20.6	20.6	135.7	135.7	9.1	9.1	4.3	4				
						1.0	0.3	60	30.2	30.2	8.1	8.1	20.6	20.6	135.7	135.7	9.1	9.1	4.2	5				
						4.6	0.0	309	29.7	29.7	8.2	8.2	23.4	23.4	99.3	99.4	6.6	7.9	3.7	5				
Middle	4.6	0.0	320	29.7	29.7	8.2	8.2	23.4	23.4	99.4	99.4	6.6	7.9	3.7	4									
	8.1	0.3	111	29.7	29.7	8.2	8.2	23.8	23.8	95.9	95.8	6.4	6.4	3.9	6									
	8.1	0.3	118	29.7	29.7	8.2	8.2	23.8	23.8	95.7	95.8	6.4	6.4	4.0	6									
C2	Cloudy	Rough	16:07	9.1	Surface	1.0	0.3	58	30.2	30.2	8.1	8.1	20.6	20.6	135.7	135.7	9.1	9.1	4.3	4	5	825695	806960	
						1.0	0.3	60	30.2	30.2	8.1	8.1	20.6	20.6	135.7	135.7	9.1	9.1	4.2	5				
						4.6	0.0	309	29.7	29.7	8.2	8.2	23.4	23.4	99.3	99.4	6.6	7.9	3.7	5				
					Middle	4.6	0.0	320	29.7	29.7	8.2	8.2	23.4	23.4	99.4	99.4	6.6	7.9	3.7	4				
						8.1	0.3	111	29.7	29.7	8.2	8.2	23.8	23.8	95.9	95.8	6.4	6.4	3.9	6				
						8.1	0.3	118	29.7	29.7	8.2	8.2	23.8	23.8	95.7	95.8	6.4	6.4	4.0	6				
					Bottom	1.0	0.5	55	29.7	29.7	8.4	8.4	24.2	24.2	130.1	130.1	8.7	8.5	3.6	7				
						1.0	0.5	56	29.7	29.7	8.4	8.4	24.2	24.2	130.0	130.0	8.7	8.5	3.5	6				
						4.9	0.2	80	29.7	29.7	8.4	8.4	24.4	24.4	124.5	124.5	8.3	8.5	3.7	6				
Middle	4.9	0.2	86	29.7	29.7	8.4	8.4	24.4	24.4	124.4	124.5	8.3	8.5	3.7	5									
	8.8	0.2	34	29.2	29.2	8.3	8.3	26.1	26.1	99.4	99.4	6.6	6.6	4.3	5									
	8.8	0.2	35	29.2	29.2	8.3	8.3	26.1	26.1	99.4	99.4	6.6	6.6	4.3	4									
C3	Cloudy	Rough	18:05	9.8	Surface	1.0	0.1	210	30.0	30.0	8.1	8.1	18.3	18.3	184.7	184.2	12.6	12.6	9.2	6	5	822129	817791	
						1.0	0.1	229	30.0	30.0	8.1	8.1	18.4	18.3	183.7	184.2	12.6	12.6	10.1	4				
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-
					Middle	3.9	0.2	209	29.9	29.9	8.1	8.1	18.6	18.6	164.9	164.7	11.3	11.3	14.1	5				
						3.9	0.2	219	29.9	29.9	8.1	8.1	18.6	18.6	164.4	164.7	11.2	11.3	13.9	5				
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-
					Bottom	1.0	0.1	126	29.4	29.4	8.4	8.4	19.3	19.4	154.6	153.7	10.6	10.2	3.5	7				
						1.0	0.1	127	29.4	29.4	8.4	8.4	19.4	19.4	152.7	153.7	10.5	10.2	3.4	8				
						3.5	0.1	134	29.4	29.4	8.4	8.4	19.9	19.9	142.7	142.8	9.8	10.2	6.7	6				
Middle	3.5	0.1	145	29.4	29.4	8.4	8.4	19.9	19.9	142.8	142.8	9.8	10.2	6.7	6									
	6.0	0.2	167	29.5	29.5	8.4	8.4	20.3	20.4	146.3	144.5	10.0	9.9	11.8	5									
	6.0	0.2	177	29.4	29.4	8.4	8.4	20.5	20.4	142.6	144.5	9.7	9.9	12.4	6									
Bottom	1.0	0.1	99	29.4	29.4	8.4	8.4	19.7	19.7	148.3	147.9	10.2	9.5	4.1	7									
	1.0	0.1	105	29.4	29.4	8.4	8.4	19.7	19.7	147.5	147.9	10.1	9.5	4.0	8									
	3.5	0.1	136	29.1	29.1	8.3	8.3	19.9	19.9	128.9	128.7	8.9	9.5	2.5	7									
Middle	3.5	0.1	136	29.1	29.1	8.3	8.3	19.9	19.9	128.4	128.7	8.8	9.5	2.5	6									
	5.9	0.1	126	29.1	29.1	8.3	8.2	20.3	21.4	117.5	116.8	8.1	8.0	11.9	4									
	5.9	0.1	129	29.0	29.1	8.2	8.2	22.6	21.4	116.0	116.8	7.9	8.0	11.1	3									
Bottom	1.0	0.1	40	29.2	29.2	8.4	8.4	19.0	19.0	145.2	143.1	10.0	8.5	3.2	6									
	1.0	0.1	40	29.2	29.2	8.4	8.4	19.1	19.0	141.0	143.1	9.7	8.5	3.3	7									
	4.3	0.1	177	28.8	28.8	8.1	8.1	21.8	21.8	104.1	103.7	7.1	9.9	5.6	6									
Middle	4.3	0.1	187	28.8	28.8	8.1	8.1	21.9	21.8	103.3	103.7	7.1	9.9	5.8	5									
	7.6	0.1	123	28.7	28.7	8.1	8.1	23.6	23.6	88.4	88.4	6.0	6.0	7.7	4									
	7.6	0.1	131	28.7	28.7	8.1	8.1	23.7	23.6	88.4	88.4	6.0	6.0	7.7	4									
Bottom	1.0	0.1	349	29.6	29.6	8.4	8.4	18.8	18.8	145.6	145.4	10.0	9.3	2.5	6									
	1.0	0.1	359	29.6	29.6	8.4	8.4	18.8	18.8	145.1	145.4	10.0	9.3	2.5	5									
	3.8	0.1	244	29.1	29.1	8.3	8.3	20.4	20.4	125.7	124.5	8.6	9.3	5.3	4									
Middle	3.8	0.1	259	29.0	29.1	8.3	8.3	20.4	20.4	123.3	124.5	8.5	9.3	5.7	6									
	6.6	0.1	212	28.6	28.6	8.0	8.0	24.5	24.6	83.6	84.6	5.7	5.8	12.3	4									
	6.6	0.1	223	28.6	28.6	8.0	8.0	24.7	24.6	85.6	84.6	5.8	5.8	12.7	5									
Bottom	1.0	0.3	312	29.5	29.5	8.3	8.3	20.5	20.5	135.9	135.8	9.3	7.8	4.0	6									
	1.0	0.3	323	29.5	29.5	8.3	8.3	20.5	20.5	135.7	135.8	9.3	7.8	4.0	7									
	3.8	0.3	308	28.7	28.7	8.1	8.1	23.3	23.3	91.4	91.4	6.2	9.9	10.9	5									
Middle	3.8	0.3	319	28.7	28.7	8.1	8.1	23.3	23.3	91.4	91.4	6.2	9.9	10.9	5									
	6.5	0.2	341	28.5	28.5	8.0	8.0	25.0	25.0	71.7	72.2	4.8	4.9	11.8	4									
	6.5	0.2	314	28.5	28.5	8.0	8.0	24.9	25.0	72.6	72.2	4.9	4.9	11.7	4									
Bottom	1.0	0.1	231	29.8	29.8	8.4	8.4	19.8	19.8	160.1	160.0	10.9	9.4	4.2	6									
	1.0	0.1	239	29.8	29.8	8.4	8.4	19.9	19.8	159.9	160.0	10.9	9.4	4.2	7									
	3.8	0.2	154	29.2	29.2	8.3	8.3	21.4	21.4	117.0	116.4	8.0	9.9	9.9	6									
Middle	3.8	0.2	164	29.1	29.2	8.3	8.3	21.4	21.4	115.8	116.4	7.9	9.9	10.6	7									
	6.6	0.1	130	28.8	28.8	8.0	8.0	24.3	24.3	75.7	75.8	5.1	5.1	15.2	6									
	6.6	0.1	139	28.7	28.8	8.0	8.0	24.4	24.3	75.8	75.8	5.1	5.1	15.2	6									
Bottom	1.0	0.5	68	30.5	30.5	8.1	8.1	19.7	19.7	165.3	165.3	11.1	9.5	4.5	5									
	1.0	0.5	69	30.5	30.5	8.1	8.1	19.7	19.7	165.3	165.3	11.1	9.5	4.5	5									
	3.8	0.5	62	29.8	29.8	8.4	8.4	22.5	22.5	116.1	116.1	7.8	6.2	5.4	5									
Middle	3.8	0.5	66	29.8	29.8	8.4	8.4	22.5	22.5	116.1	116.1	7.8	6.2	5.5	4									
	6.6	0.4	56	29.6	29.6	8.2	8.2	24.4	24.4	90.0	89.9	6.0	6.0	8.6	3									
	6.6	0.5	57	29.6	29.6	8.2	8.2	24.4	24.4	89.8	89.9	6.0	6.0	8.6	4									
Bottom	1.0	0.5	68	30.5	30.5	8.1	8.1	19.7	19.7	165.3	165.3	11.1	9.5	4.5	5									
	1.0	0.5	69	30.5	30.5	8.1	8.1	19.7	19.7	165.3	165.3	11.1	9.5	4.5	5									
	3.8	0.5	62	29.8	29.8	8.4	8.4	22.5	22.5	116.1	116.1	7.8	6.2	5.4	5									
Middle	3.8	0.5	66	29.8	29.8	8.4	8.4	22.5	22.5	116.1	116.1	7.8	6.2	5.5	4									
	6.6	0.4	56	29.6	29.6	8.2	8.2	24.4	24															

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

Water Quality Monitoring

Water Quality Monitoring Results on 31 July 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	Rough	16:40	7.5	Surface	1.0	0.4	61	30.3	30.3	8.1	8.1	20.3	20.3	153.5	153.6	10.3	9.7	3.6	3.7	4	4	822073	808828								
						1.0	0.5	61	30.3	8.1	8.1	20.3	20.3	153.6	10.3	3.6	3.7	4														
						3.8	0.4	77	30.0	8.1	8.1	21.3	21.3	134.1	9.0	3.5	3.7	4														
					Middle	3.8	0.4	81	30.0	8.1	8.1	21.3	21.3	134.1	9.0	3.5	3.7	3														
						6.5	0.3	53	29.7	8.3	8.3	23.0	23.0	102.6	6.9	4.1	4.1	4														
						6.5	0.3	58	29.7	8.3	8.3	23.0	23.0	102.4	6.9	4.1	4.1	3														
					Bottom	1.0	0.6	60	30.3	30.3	8.1	8.1	20.1	20.1	157.9	157.9	10.6	10.2	3.6	4.3	5				4	822393	809793					
						1.0	0.6	64	30.3	30.2	8.1	8.1	20.5	20.5	145.7	145.7	9.8	10.2	3.6	4.3	4											
						4.0	0.5	75	30.2	8.1	8.1	20.4	20.4	145.7	9.8	3.5	4.3	4														
Middle	4.0	0.5	82	30.2	30.2	8.1	8.1	23.0	23.0	108.6	108.6	7.3	7.3	5.9	7.3	3																
	6.9	0.5	69	29.7	29.7	8.4	8.4	23.1	23.1	108.6	7.3	5.9	7.3	3																		
	6.9	0.5	71	29.7	29.7	8.4	8.4	23.1	23.1	108.6	7.3	5.9	7.3	4																		
IM11	Cloudy	Rough	16:58	8.1	Surface	1.0	0.7	89	30.2	30.2	8.1	8.1	20.6	20.6	166.5	166.5	11.2	9.5	3.7	3.8	4	4	822039	811470								
						1.0	0.8	89	30.2	8.1	8.1	20.6	20.6	166.4	11.2	3.7	3.8	4														
						4.1	0.5	91	29.6	8.4	8.4	23.6	23.6	116.5	7.8	3.5	4.1	4														
					Middle	4.1	0.5	94	29.6	29.6	8.4	8.4	23.6	23.6	116.4	7.8	3.5	4.1	3													
						7.1	0.3	72	29.3	29.3	8.3	8.3	25.4	25.4	100.0	6.7	4.2	4.1	3													
						7.1	0.3	73	29.3	29.3	8.3	8.3	25.5	25.4	95.2	6.3	4.3	4.1	3													
					IM12	Cloudy	Rough	17:04	7.7	Surface	1.0	0.6	109	30.2	30.2	8.1	8.1	20.8	20.8	169.3	169.3				11.4	10.7	4.0	4.1	6	5	821481	812029
											1.0	0.6	111	30.2	30.1	8.1	8.1	20.8	20.8	169.3	11.4				4.0	4.1	5					
											3.9	0.4	99	30.1	30.1	8.1	8.1	21.8	21.8	147.2	9.9				3.9	4.1	5					
Middle	3.9	0.4	101	30.1						30.1	8.1	8.1	21.8	21.8	147.3	9.9	3.9	4.1	6													
	6.7	0.3	72	29.4						29.4	8.4	8.3	25.0	25.1	111.7	7.4	4.3	4.1	6													
	6.7	0.3	78	29.4						29.4	8.3	8.3	25.1	25.1	111.7	7.4	4.3	4.1	4													
SR1A	Cloudy	Rough	17:33	4.2						Surface	1.0	-	-	30.3	30.3	8.1	8.1	22.4	22.4	169.4	169.4	11.3	11.3	4.2	4.8	6	6	819975	812653			
											1.0	-	-	30.3	30.3	8.1	8.1	22.4	22.4	169.4	11.3	4.2	4.8	5								
											2.1	-	-	-	-	-	-	-	-	-	-	-	-	-								
					Middle	2.1	-	-	-	-	-	-	-	-	-	-	-	-	-													
						3.2	-	-	29.4	29.4	8.3	8.3	25.2	25.2	93.6	6.2	5.5	6.2	6													
						3.2	-	-	29.4	29.4	8.3	8.3	25.2	25.2	93.6	6.2	5.5	6.2	6													
					SR2	Cloudy	Rough	17:46	3.8	Surface	1.0	0.2	77	30.1	30.1	8.1	8.1	21.1	21.0	161.4	161.4	10.8	10.9	3.7	3.7	3				4	821482	814152
											1.0	0.2	78	30.1	30.1	8.1	8.1	21.0	21.0	161.4	10.9	3.7	3.7	4								
											-	-	-	-	-	-	-	-	-	-	-	-	-	-								
Middle	-	-	-	-						-	-	-	-	-	-	-	-	-	-													
	2.8	0.3	65	30.1						30.1	8.1	8.1	21.3	21.4	157.9	10.6	3.7	3.7	5													
	2.8	0.3	68	30.1						30.1	8.1	8.1	21.4	21.4	157.9	10.6	3.7	3.7	4													
SR3	Cloudy	Rough	16:27	8.9						Surface	1.0	0.2	73	30.2	30.2	8.1	8.1	20.6	20.6	134.2	134.0	9.0	7.8	4.1	4.2	4	5	822132	807584			
											1.0	0.2	75	30.2	30.2	8.1	8.1	20.6	20.6	133.8	9.0	4.1	4.2	5								
											4.5	0.2	139	29.7	29.7	8.3	8.3	23.5	23.5	98.8	6.6	3.8	3.7	4								
					Middle	4.5	0.2	147	29.7	29.7	8.3	8.3	23.4	23.5	98.9	6.6	3.7	3.7	4													
						7.9	0.2	100	29.6	29.6	8.2	8.2	24.2	24.2	94.3	6.3	4.8	6.3	6													
						7.9	0.2	101	29.6	29.6	8.2	8.2	24.2	24.2	94.1	6.3	5.0	6.3	5													
					SR4A	Rainy	Moderate	17:41	8.9	Surface	1.0	0.2	61	29.9	29.9	8.1	8.1	18.0	18.0	175.4	174.6	12.1	10.2	4.8	7.3	9				10	817170	807807
											1.0	0.2	65	29.8	29.8	8.1	8.1	18.0	18.0	173.8	12.0	5.2	7.3	9								
											4.5	0.1	55	28.9	28.9	8.3	8.3	20.8	20.8	122.0	8.4	7.7	7.3	10								
Middle	4.5	0.1	60	28.8						28.9	8.3	8.3	20.8	20.8	119.8	8.3	7.8	7.3	10													
	7.9	0.2	59	28.6						28.7	7.9	7.9	25.7	25.7	66.9	4.5	8.7	4.5	10													
	7.9	0.2	62	28.7						28.7	7.9	7.9	25.7	25.7	66.7	4.5	9.4	4.5	10													
SR5A	Rainy	Moderate	17:58	3.8						Surface	1.0	0.1	67	29.7	29.7	8.2	8.2	21.3	21.3	124.0	123.8	8.4	8.4	6.1	6.1	3	4	816587	810680			
											1.0	0.1	67	29.7	29.7	8.2	8.2	21.4	21.3	123.5	8.3	6.1	6.1	4								
											-	-	-	-	-	-	-	-	-	-	-	-	-	-								
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-													
						2.8	0.2	55	29.7	29.7	8.2	8.2	21.5	21.5	112.6	7.6	6.1	7.6	5													
						2.8	0.2	56	29.7	29.7	8.2	8.2	21.5	21.5	112.7	7.6	6.0	7.6	4													
					SR6A	Rainy	Moderate	18:24	3.7	Surface	1.0	0.0	50	29.4	29.4	8.0	8.0	22.8	22.8	84.9	84.9	5.7	5.7	8.6	9.1	4				6	817943	814744
											1.0	0.0	52	29.4	29.4	8.0	8.0	22.8	22.8	84.9	5.7	8.7	9.1	5								
											-	-	-	-	-	-	-	-	-	-	-	-	-	-								
Middle	-	-	-	-						-	-	-	-	-	-	-	-	-	-													
	2.7	0.0	174	29.2						29.2	8.0	8.0	23.2	23.2	80.3	5.4	9.6	5.4	7													
	2.7	0.0	187	29.1						29.1	8.0	8.0	23.2	23.2	80.0	5.4	9.5	5.4	8													
SR7	Cloudy	Rough	18:30	17.2						Surface	1.0	0.6	73	30.1	30.1	8.1	8.1	23.4	23.4	168.6	168.6	11.2	10.4	2.9	3.6	3	4	823652	823759			
											1.0	0.6	79	30.1	30.1	8.1	8.1	23.4	23.4	168.6	11.2	2.9	3.6	4								
											8.6	0.1	94	29.8	29.8	8.1	8.1	24.9	24.9	143.2	9.5	3.8	3.6	5								
					Middle	8.6	0.1	94	29.8	29.8	8.1	8.1	24.9	24.9	143.0	9.5	3.8	3.6	4													
						16.2	0.1	77	29.6	29.6	8.4	8.4	25.3	25.3	135.9	9.0	4.1	9.0	4													
						16.2	0.1	80	29.6	29.6	8.4	8.4	25.3	25.3	135.8	9.0	4.1	9.0	5													
					SR8	Cloudy	Rough	17:12	5.1	Surface	1.0	-	-	30.1	30.1	8.3	8.3	22.9	22.9	139.7	139.7	9.3	9.3	4.9	5.1	4				4	820388	811639
											1.0	-	-	30.1	30.1	8.3	8.3	22.9	22.9	139.6	9.3	4.9	5.1	3								
											-	-	-	-	-	-	-	-	-	-	-	-	-	-								
Middle	-	-	-	-						-	-	-	-	-	-	-	-	-	-													
	4.1	-	-	30.1						30.1	8.4	8.4	23.3	23.3	125.4	8.3	5.4	8.3	4													
	4.1	-	-	30.1						30.1	8.4	8.4	23.3	23.3	125.5	8.3	5.4	8.3	4													

DA: Depth-Averaged

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

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

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

Water Quality Monitoring

Water Quality Monitoring Results on 31 July 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 Value	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									
																								Value	Average	Value	Average	Value	Average	Value
C1	Cloudy	Moderate	11:31	8.5	Surface	1.0	0.4	59	29.7	29.7	8.1	8.1	17.8	17.9	189.2	189.4	13.0	10.4	7.2	7.5	5	4	4	815624	804255					
						1.0	0.4	59	29.7	29.7	8.1	8.1	17.9	17.9	189.6	189.6	13.1	10.4	7.5	7.5	4	4								
						4.3	0.3	40	29.0	29.0	8.2	8.2	20.1	20.1	111.7	111.7	7.7	7.7	2.3	2.4	4	4								
					4.3	0.3	41	29.0	29.0	8.2	8.2	20.1	20.1	111.7	111.7	7.7	7.7	2.4	2.4	5	5									
					7.5	0.3	12	28.5	28.5	8.0	8.0	24.9	24.9	77.0	77.0	5.2	5.2	12.7	12.7	3	3									
					7.5	0.3	12	28.5	28.5	8.0	8.0	24.9	24.9	77.3	77.3	5.2	5.2	12.7	12.7	4	4									
C2	Cloudy	Rough	13:02	9.9	Surface	1.0	0.3	348	30.2	30.2	8.1	8.1	19.4	19.4	164.0	163.9	11.1	8.3	3.7	3.8	4	3	5	825692	806966					
						1.0	0.3	320	30.2	30.2	8.1	8.1	19.4	19.4	163.8	163.8	11.1	8.3	3.8	3.9	3	4								
						5.0	0.3	351	29.6	29.6	8.2	8.2	25.4	25.4	83.1	83.1	5.5	5.5	3.9	3.9	6	6								
					5.0	0.3	356	29.6	29.6	8.2	8.2	25.4	25.4	83.1	83.1	5.5	5.5	3.9	3.9	5	5									
					8.9	0.4	340	29.0	29.0	8.2	8.2	27.6	27.6	67.7	67.7	4.5	4.5	8.1	8.1	5	5									
					8.9	0.4	342	29.0	29.0	8.2	8.2	27.6	27.6	67.7	67.7	4.5	4.5	8.2	8.2	6	6									
C3	Cloudy	Rough	10:50	10.8	Surface	1.0	0.3	305	29.7	29.7	8.4	8.4	23.3	23.3	118.4	118.4	7.9	7.1	3.6	3.7	2	2	2	822111	817825					
						1.0	0.4	305	29.7	29.7	8.4	8.4	23.3	23.3	118.4	118.4	7.9	7.1	3.7	3.7	2	2								
						5.4	0.3	283	29.3	29.3	8.3	8.3	24.8	24.8	94.6	94.6	6.3	6.3	3.6	3.5	2	2								
					5.4	0.3	289	29.3	29.3	8.3	8.3	24.8	24.8	94.6	94.6	6.3	6.3	3.5	3.5	2	2									
					9.8	0.2	250	28.8	28.8	8.2	8.2	27.7	27.7	77.8	77.8	5.2	5.2	3.8	3.8	2	2									
					9.8	0.2	274	28.8	28.8	8.2	8.2	27.7	27.7	77.8	77.8	5.2	5.2	3.8	3.8	3	3									
IM1	Cloudy	Moderate	11:52	4.9	Surface	1.0	0.2	304	29.6	29.6	8.1	8.1	19.5	19.5	186.3	186.3	12.8	12.8	4.7	4.8	3	4	4	817967	807151					
						1.0	0.2	323	29.6	29.6	8.1	8.1	19.5	19.5	186.2	186.2	12.7	12.8	4.7	4.8	4	4								
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	-	-
					3.9	0.2	316	28.9	28.9	8.1	8.1	22.1	22.0	96.3	96.6	6.6	6.6	12.4	12.4	4	4									
					3.9	0.2	320	28.9	28.9	8.2	8.2	21.9	22.0	96.8	96.6	6.6	6.6	11.2	11.2	4	4									
					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	-	-
IM2	Cloudy	Moderate	12:01	6.9	Surface	1.0	0.4	5	29.1	29.1	8.3	8.3	20.0	20.0	126.8	126.8	8.7	8.7	2.5	2.5	39	41	44	818156	806186					
						1.0	0.4	5	29.1	29.1	8.3	8.3	20.0	20.0	126.8	126.8	8.7	8.7	2.5	2.5	41	41								
						3.5	0.4	352	29.1	29.1	8.3	8.3	20.6	20.6	126.2	126.0	8.7	8.7	2.4	2.4	46	44								
					3.5	0.5	357	29.1	29.1	8.3	8.3	20.6	20.6	125.8	125.8	8.6	8.6	2.4	2.4	44	44									
					5.9	0.4	346	28.4	28.4	8.0	8.0	25.5	25.5	70.8	71.0	4.8	4.8	7.2	7.2	48	48									
					5.9	0.4	354	28.4	28.4	8.0	8.0	25.4	25.5	71.1	71.0	4.8	4.8	7.1	7.1	46	46									
IM3	Cloudy	Moderate	12:09	7.2	Surface	1.0	0.6	327	29.6	29.6	8.4	8.4	21.1	21.1	138.1	137.4	9.4	7.5	2.8	3.1	7	8	9	818799	805610					
						1.0	0.6	343	29.5	29.5	8.4	8.4	21.2	21.1	136.6	136.6	9.3	7.5	3.1	3.1	8	8								
						3.6	0.5	321	28.7	28.7	8.1	8.1	23.7	23.8	83.0	82.8	5.6	5.6	5.5	5.8	10	9								
					3.6	0.6	331	28.7	28.7	8.1	8.1	23.8	23.8	82.6	82.6	5.6	5.6	5.8	5.8	9	9									
					6.2	0.3	312	28.1	28.1	7.9	7.9	27.1	27.1	61.2	61.4	4.1	4.1	7.5	7.5	10	10									
					6.2	0.4	334	28.1	28.1	7.9	7.9	27.1	27.1	61.6	61.4	4.1	4.1	7.0	7.0	9	9									
IM4	Cloudy	Moderate	12:17	8.6	Surface	1.0	0.4	341	29.4	29.4	8.4	8.4	19.3	19.3	141.1	140.6	9.7	8.0	3.0	3.2	4	4	4	819748	804593					
						1.0	0.4	356	29.4	29.4	8.4	8.4	19.3	19.3	140.1	140.6	9.6	8.0	3.2	3.2	4	4								
						4.3	0.6	326	29.1	29.1	8.0	8.0	23.5	23.4	92.4	93.7	6.2	6.2	3.9	3.8	4	3								
					4.3	0.6	358	29.1	29.1	8.0	8.0	23.3	23.4	95.0	95.0	6.4	6.4	3.8	3.8	3	3									
					7.6	0.3	342	28.2	28.2	7.9	7.9	26.8	26.8	69.7	71.9	4.7	4.7	7.2	7.2	3	3									
					7.6	0.3	315	28.2	28.2	7.9	7.9	26.8	26.8	74.1	74.1	5.0	5.0	7.8	7.8	4	4									
IM5	Cloudy	Moderate	12:24	6.8	Surface	1.0	0.6	11	29.5	29.5	8.4	8.4	19.5	19.5	150.0	149.9	10.3	8.3	2.4	2.4	5	6	4	820714	804858					
						1.0	0.7	11	29.5	29.5	8.4	8.4	19.5	19.5	149.7	149.9	10.3	8.3	2.4	2.4	6	6								
						3.4	0.6	9	28.8	28.8	8.1	8.1	23.3	23.3	91.6	91.7	6.2	6.2	8.7	8.8	5	4								
					3.4	0.7	9	28.8	28.8	8.1	8.1	23.3	23.3	91.7	91.7	6.2	6.2	8.8	8.8	4	4									
					5.8	0.3	48	28.3	28.3	8.0	8.0	26.1	26.1	64.6	64.6	4.4	4.4	10.7	10.7	2	2									
					5.8	0.3	52	28.3	28.3	8.0	8.0	26.1	26.1	64.6	64.6	4.4	4.4	10.4	10.4	4	4									
IM6	Cloudy	Moderate	12:31	7.2	Surface	1.0	0.4	54	29.9	29.9	8.4	8.4	18.4	18.4	162.1	162.0	11.1	9.1	3.5	3.6	4	5	6	821072	805824					
						1.0	0.4	56	29.9	29.9	8.4	8.4	18.4	18.4	161.8	162.0	11.1	9.1	3.6	3.6	5	5								
						3.6	0.4	53	29.1	29.1	8.1	8.1	21.6	21.6	103.7	103.9	7.1	7.1	3.9	3.9	7	6								
					3.6	0.5	53	29.1	29.1	8.2	8.1	21.6	21.6	104.0	103.9	7.1	7.1	3.9	3.9	6	6									
					6.2	0.4	54	28.4	28.4	7.9	7.9	26.2	26.2	61.4	61.9	4.1	4.2	12.6	12.6	8	8									
					6.2	0.4	55	28.3	28.3	7.9	7.9	26.2	26.2	62.3	62.3	4.2	4.2	12.1	12.1	7	7									
IM7	Cloudy	Moderate	12:38	8.7	Surface	1.0	0.1	83	29.7	29.7	8.3	8.3	18.5	18.5	142.9	142.8	9.8	9.5	2.6	2.6	5	4	4	821337	806843					
						1.0	0.1	87	29.7	29.7	8.3	8.3	18.5	18.5	142.7	142.8	9.8	9.5	2.6	2.6	4	4								
						4.4	0.1	292	29.5	29.5	8.3	8.3	19.1	19.1	132.9	132.6	9.1	9.1	2.7	2.7	4	4								
					4.4	0.1	310	29.4	29.4	8.3	8.3	19.1	19.1	132.2	132.6	9.1	9.1	2.7	2.7	5	5									
					7.7	0.3	69	29.1	29.1	8.0	8.0	22.8	22.7	91.9	91.7	6.2	6.2	5.2	5.2	4	4									
					7.7	0.3	74	29.1	29.1	8.0	8.0	22.7	22.7	91.5	91.7	6.2	6.2	5.2	5.2	4	4									
IM8	Cloudy	Rough	12:36	8.2	Surface	1.0	0.1	339	30.0	30.0	8.1	8.1	19.8	19.8	154.8	154.9	10.5	9.8	4.2	4.2	4	5	4	821833	808150					
						1.0	0.1	312	30.0	30.0	8.1	8.1	19.8	19.8	154.9	154.9	10.5	9.8	4.2	4.2	5	5								
						4.1	0.0	265	29.9	29.9	8.1	8.1	20.4	20.4	134.0	134.0	9.1	9.1	3.8	3.8	4	4								
					4.1	0.0	288	29.9	29.9	8.1	8.1	20.4	20.4	134.0	134.0	9.1	9.1	3.8	3.8	4	4									
					7.2	0.1	222	29.5	29.5	8.2	8.2	25.0	25.0	85.5	85.6	5.7	5.7	11.7	11.7	4	4									
					7.2	0.1	237	29.5	29.5	8.2	8.2	25.0	25.0	85.7	85.6	5.7	5.7	11.7	11.7	3	3									

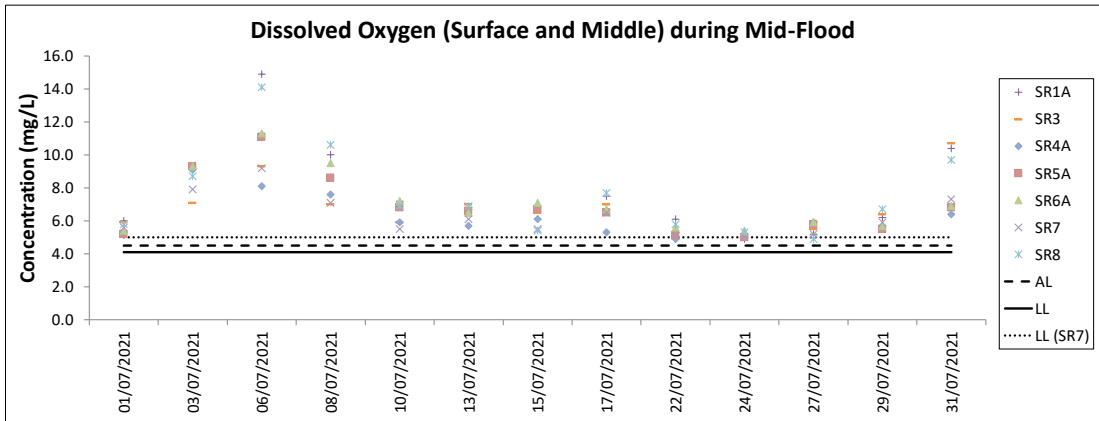
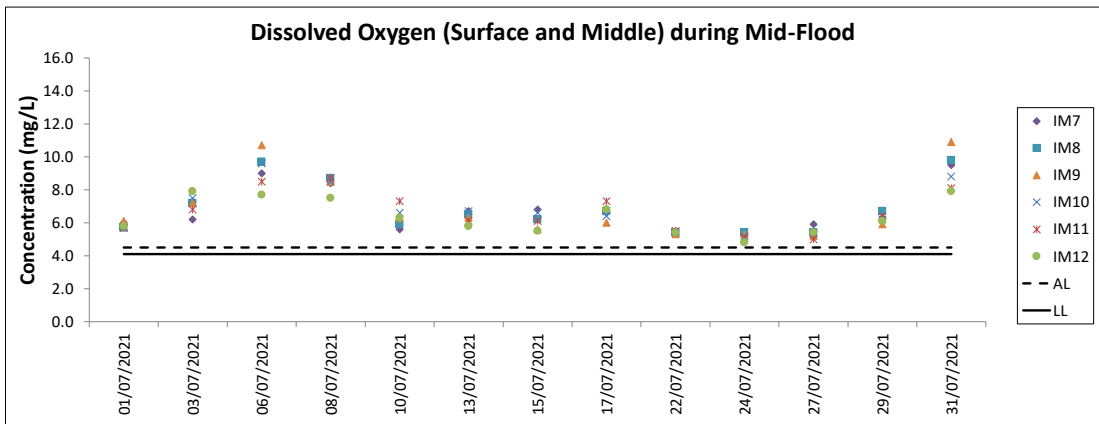
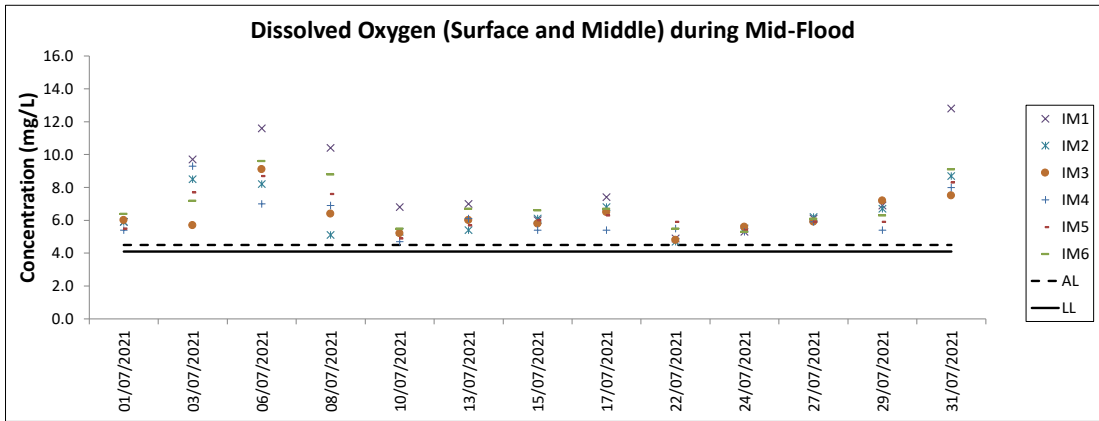
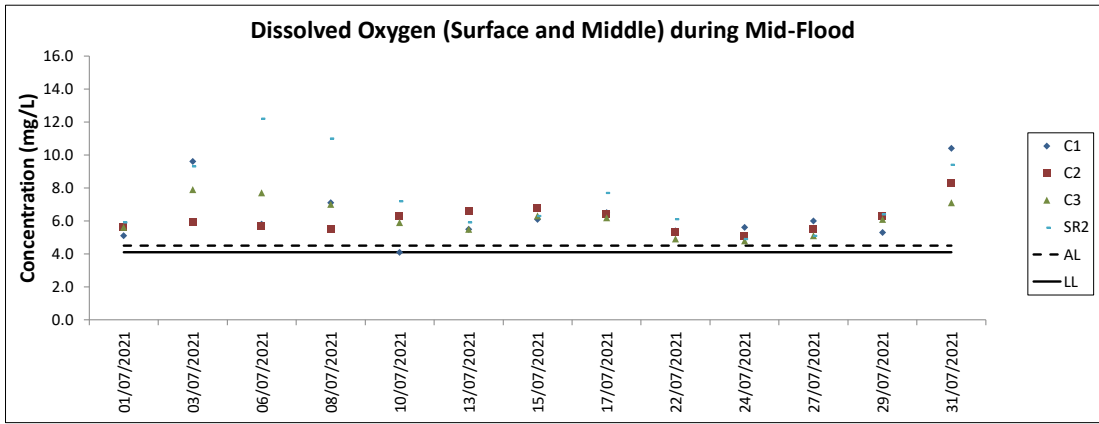
DA: Depth-Averaged
 Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher
 Value exceeding Action Level is underlined; **Value exceeding Limit Level is bolded and underlined**

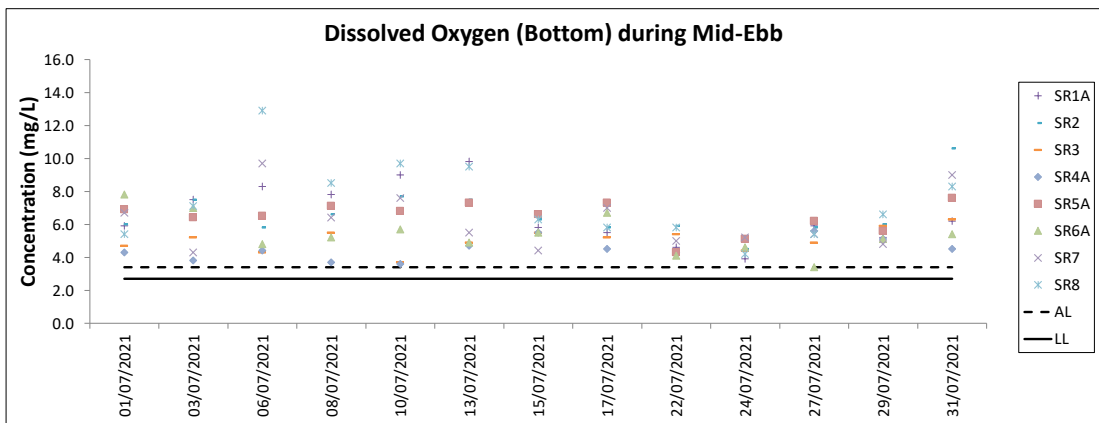
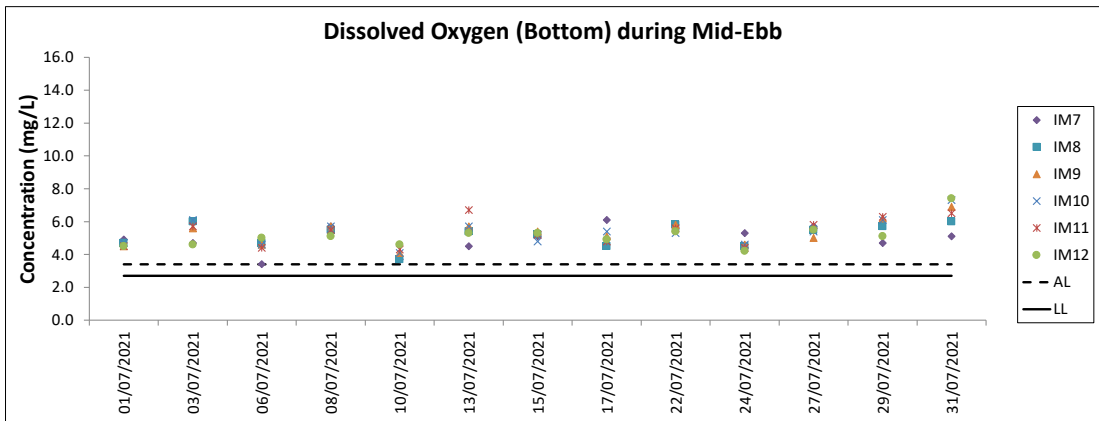
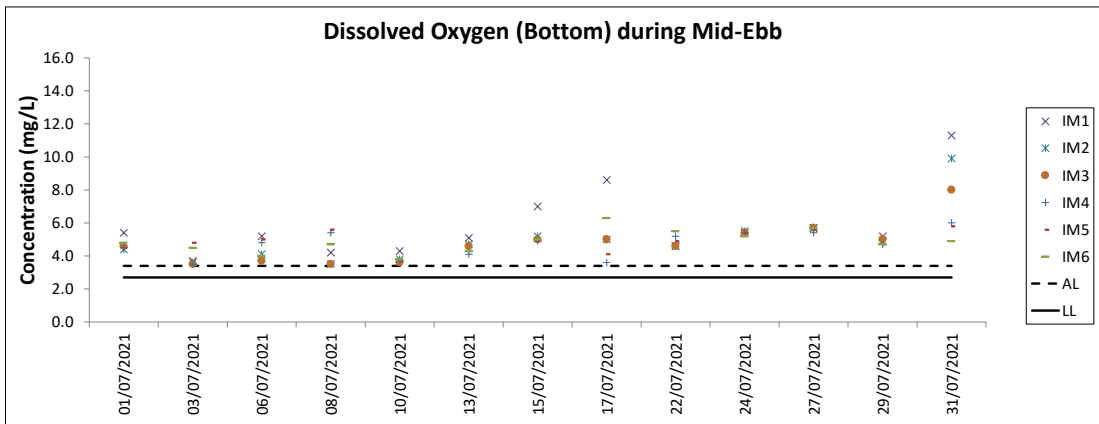
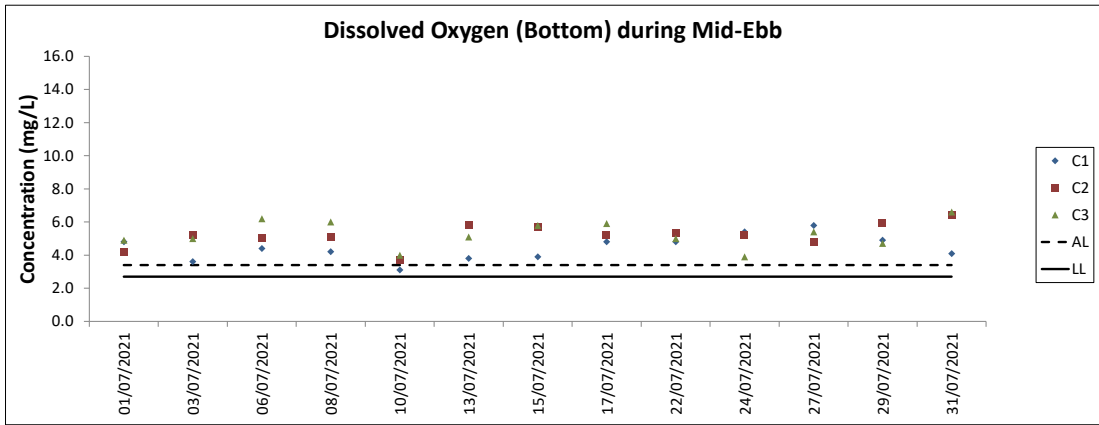
Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring

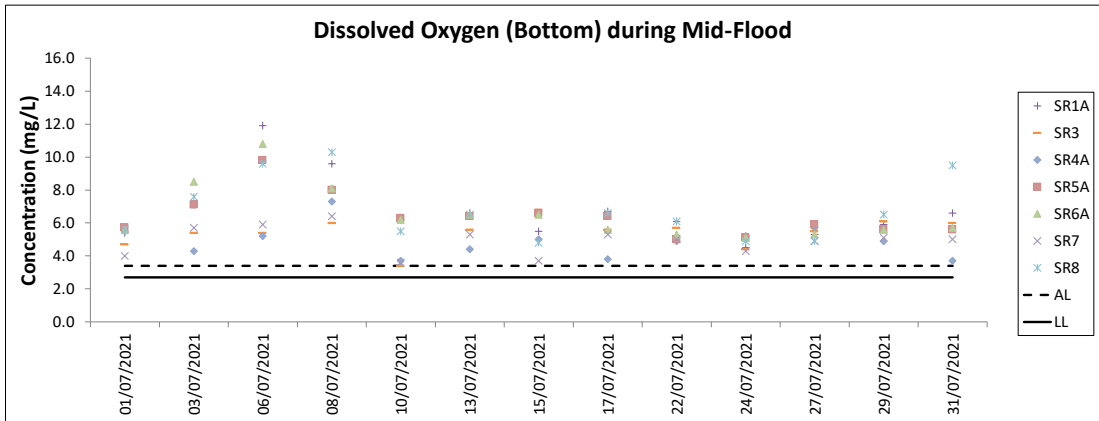
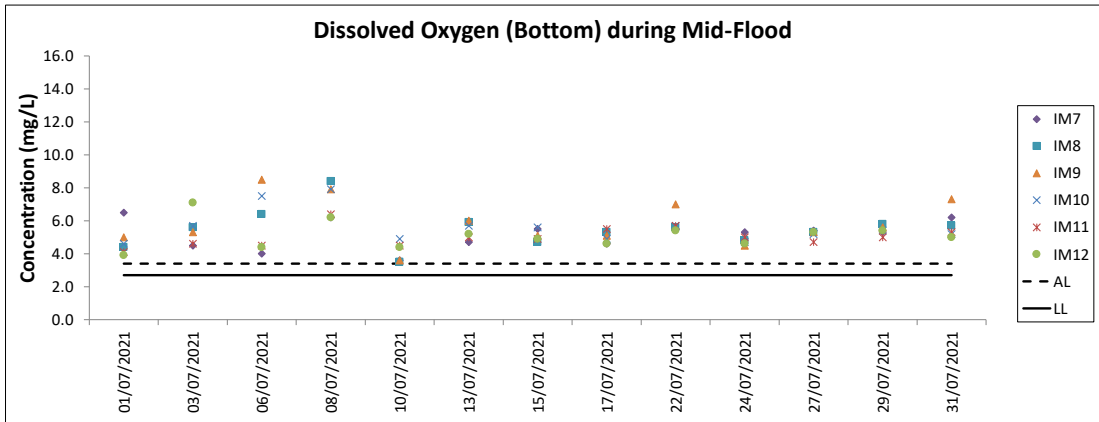
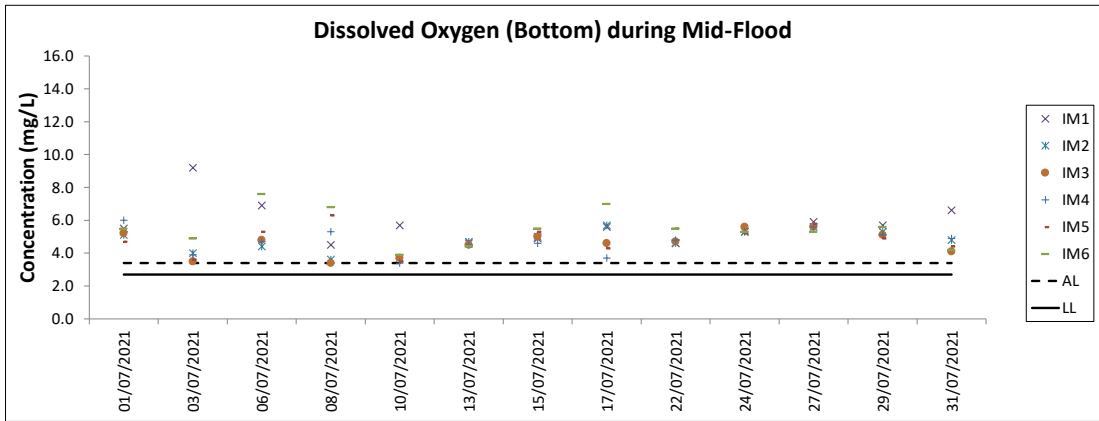
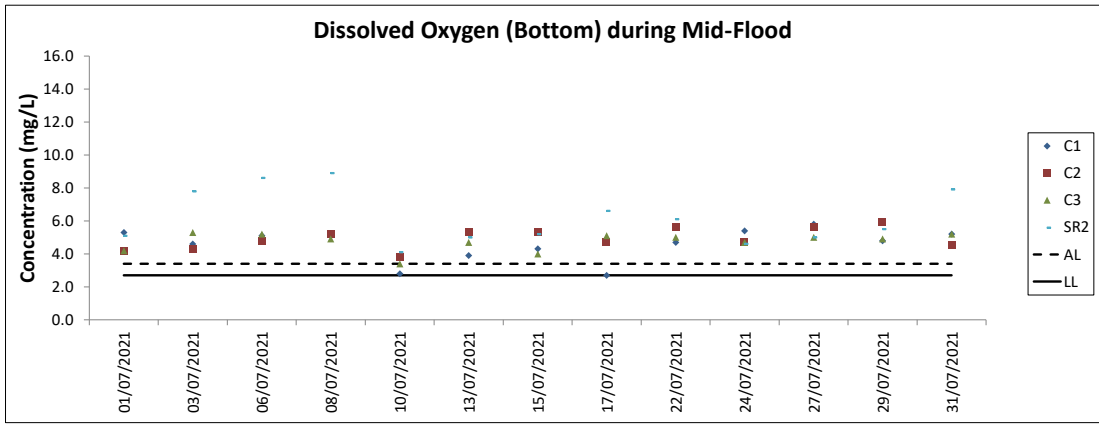
Water Quality Monitoring Results on 31 July 21 during Mid-Flood Tide

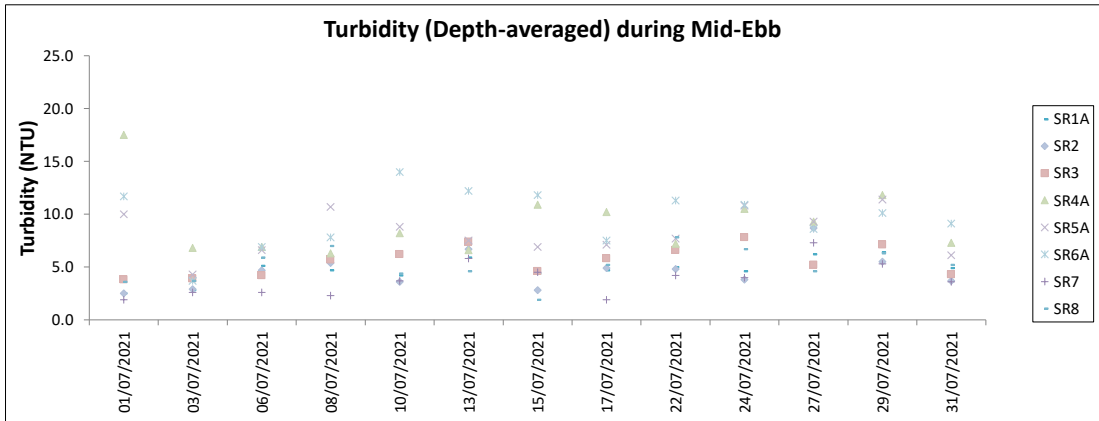
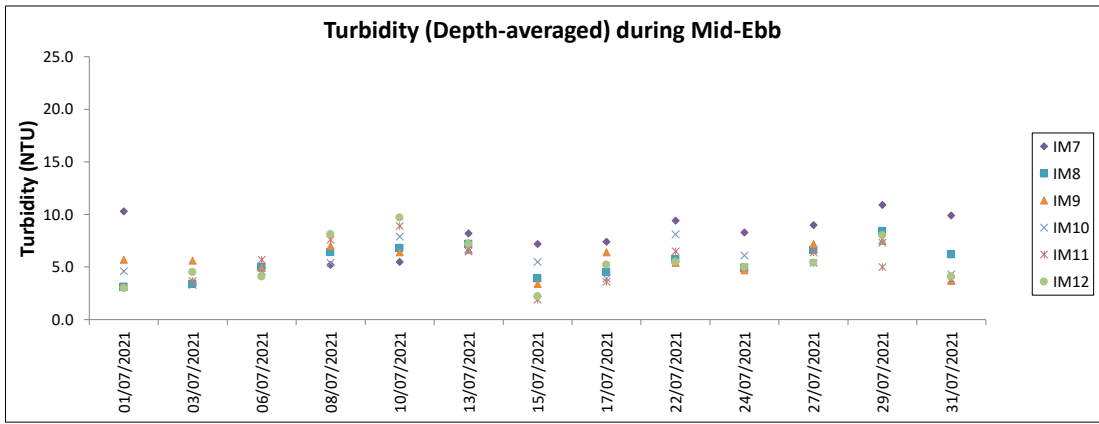
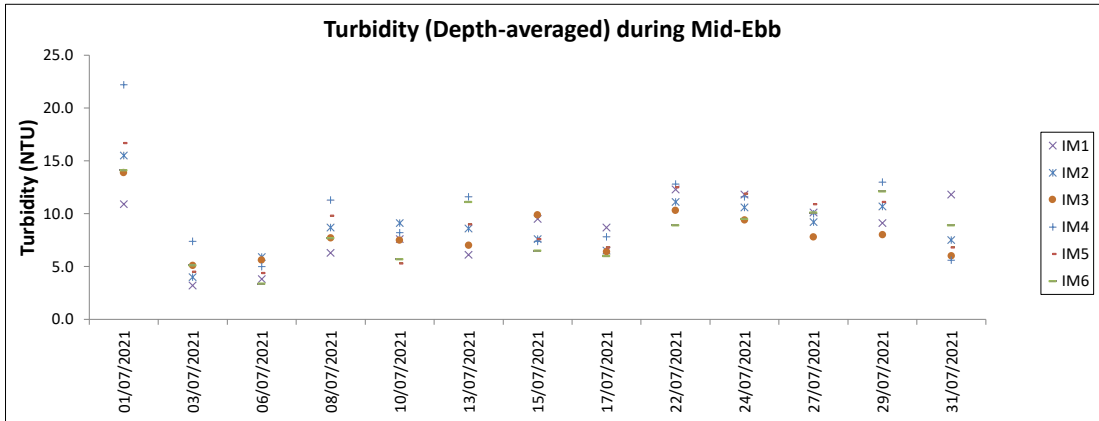
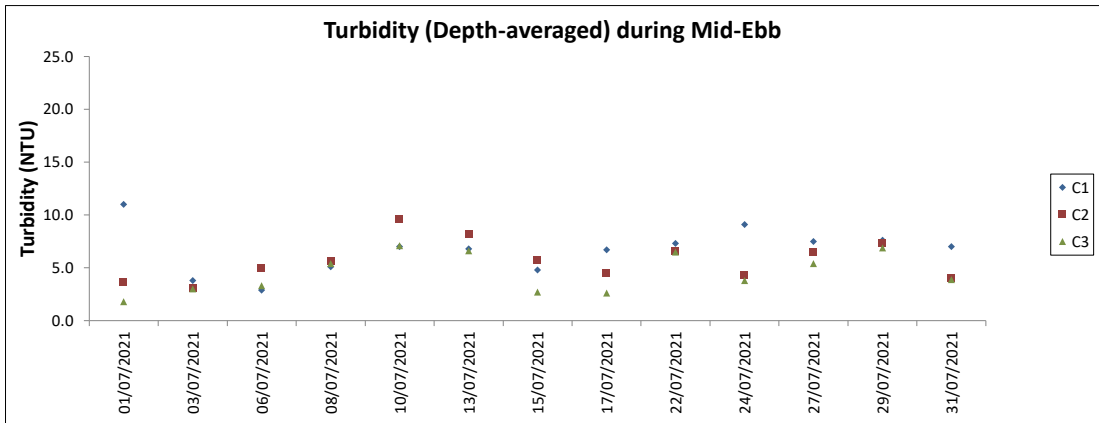
Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)						
					Value	Average			Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA										
																					Value	DA			Value	DA				
IM9	Cloudy	Rough	12:27	7.7	Surface	1.0	0.1	28	30.7	30.7	8.1	8.1	18.7	18.7	177.7	177.8	12.0	3.7	5	4	822075	808822								
						1.0	0.1	30	30.7	8.1	8.1	18.7	18.7	177.8	12.0	3.7	5													
						3.9	0.1	330	30.0	8.1	8.1	20.7	20.7	144.0	9.7	3.7	5													
					Middle	3.9	0.1	332	30.0	8.1	8.1	20.8	20.7	143.9	9.7	3.7	4													
						6.7	0.2	270	29.8	8.3	8.3	23.1	23.1	108.5	7.3	8.7	4													
						6.7	0.2	291	29.8	8.3	8.3	23.1	23.1	108.4	7.2	8.8	3													
					IM10	Cloudy	Rough	12:18	7.9	Surface	1.0	0.2	321	30.3	30.3	8.1	8.1	19.5	19.5				141.1	141.2	9.5	3.6	3	4	822364	809793
											1.0	0.2	346	30.3	8.1	8.1	19.6	19.5	141.2				9.5	3.6	4					
											4.0	0.3	311	29.8	8.4	8.4	22.4	22.4	119.4				8.0	3.5	4					
Middle	4.0	0.3	328	29.8						8.4	8.4	22.4	22.4	119.5	8.0	3.5	3													
	6.9	0.2	301	29.5						8.2	8.2	25.2	25.2	78.7	5.2	8.2	4													
	6.9	0.2	310	29.5						8.2	8.2	25.2	25.2	78.5	5.2	8.1	5													
IM11	Cloudy	Rough	12:08	9.1						Surface	1.0	0.2	292	30.3	30.3	8.1	8.1	20.4	20.4	139.7	139.7	9.4	3.5	4	4	822044	811459			
											1.0	0.2	295	30.3	8.1	8.1	20.4	20.4	139.7	9.4	3.5	4								
											4.6	0.3	291	29.7	8.3	8.3	23.1	23.1	102.3	6.9	3.5	4								
					Middle	4.6	0.4	319	29.7	8.3	8.3	23.1	23.1	102.2	6.8	3.4	4													
						8.1	0.5	286	29.4	8.2	8.2	25.7	25.7	79.8	5.3	6.3	4													
						8.1	0.5	299	29.4	8.2	8.2	25.7	25.7	79.7	5.3	6.3	4													
					IM12	Cloudy	Rough	12:00	8.5	Surface	1.0	0.2	315	30.2	30.2	8.1	8.1	20.9	20.9	135.1	135.2	9.1	3.3	3				5	821471	812037
											1.0	0.2	341	30.2	8.1	8.1	20.9	20.9	135.3	9.1	3.3	4								
											4.3	0.3	303	29.7	8.3	8.3	23.2	23.2	100.7	6.7	3.5	5								
Middle	4.3	0.3	308	29.7						8.3	8.3	23.2	23.2	100.6	6.7	3.5	5													
	7.5	0.3	289	29.1						8.2	8.2	26.7	26.7	75.7	5.0	6.9	6													
	7.5	0.3	296	29.1						8.2	8.2	26.7	26.7	75.5	5.0	6.9	5													
SR1A	Cloudy	Rough	11:27	4.2						Surface	1.0	-	-	30.0	30.0	8.1	8.1	21.5	21.5	154.5	154.4	10.4	4.1	5	5	819980	812660			
											1.0	-	-	30.0	8.1	8.1	21.5	21.5	154.3	10.4	4.1	6								
											2.1	-	-	-	-	-	-	-	-	-	-	-								
					Middle	2.1	-	-	-	-	-	-	-	-	-	-	-													
						3.2	-	-	29.6	29.6	8.3	8.3	23.7	23.7	99.2	6.6	6.1	4												
						3.2	-	-	29.6	29.6	8.3	8.3	23.7	23.7	99.3	6.6	6.1	4												
					SR2	Cloudy	Rough	11:11	3.7	Surface	1.0	0.0	227	30.2	30.2	8.1	8.1	20.4	20.4	139.9	139.9	9.4	3.4	4				3	821448	814180
											1.0	0.0	247	30.2	8.1	8.1	20.4	20.4	139.8	9.4	3.4	3								
											-	-	-	-	-	-	-	-	-	-	-	-								
Middle	-	-	-	-						-	-	-	-	-	-	-	-													
	2.7	0.2	283	29.7						8.4	8.4	22.5	22.5	115.3	7.7	4.0	3													
	2.7	0.2	310	29.7						8.4	8.4	22.4	22.5	120.9	8.1	3.9	2													
SR3	Cloudy	Rough	12:42	8.3						Surface	1.0	0.2	9	30.6	30.6	8.1	8.1	18.6	18.6	191.1	191.1	12.9	5.6	3	4	822161	807581			
											1.0	0.2	9	30.6	8.1	8.1	18.6	18.6	191.0	12.9	5.6	4								
											4.2	0.2	9	29.8	8.4	8.4	21.2	21.2	125.4	8.5	4.0	4								
					Middle	4.2	0.2	9	29.8	8.4	8.4	21.2	21.2	125.4	8.5	4.0	3													
						7.3	0.2	41	29.6	8.2	8.2	24.6	24.7	89.8	6.0	5.2	5													
						7.3	0.2	43	29.6	8.2	8.2	24.7	24.7	89.8	6.0	5.1	4													
					SR4A	Cloudy	Moderate	11:06	8.9	Surface	1.0	0.2	248	29.3	29.3	8.2	8.2	20.6	20.6	109.3	109.0	7.5	3.6	3				4	817207	807815
											1.0	0.2	264	29.2	8.2	8.2	20.6	20.6	108.7	7.4	3.8	4								
											4.5	0.3	253	28.9	8.0	8.0	23.4	23.4	78.2	5.3	5.4	3								
Middle	4.5	0.3	271	28.9						8.0	8.0	23.5	23.4	78.1	5.3	5.5	4													
	7.9	0.1	235	28.2						7.9	7.9	26.9	26.9	54.9	3.7	8.8	5													
	7.9	0.2	235	28.2						7.9	7.9	26.9	26.9	55.2	3.7	8.9	4													
SR5A	Cloudy	Moderate	10:48	3.5						Surface	1.0	0.1	284	29.1	29.1	8.1	8.1	21.3	21.3	99.3	99.2	6.8	5.5	6	5	816606	810685			
											1.0	0.1	290	29.1	8.1	8.1	21.3	21.3	99.1	6.8	6.2	5								
											-	-	-	-	-	-	-	-	-	-	-	-								
					Middle	-	-	-	-	-	-	-	-	-	-	-	-													
						2.5	0.1	277	29.1	8.0	8.0	22.9	22.9	82.7	5.6	10.4	3													
						2.5	0.1	294	29.1	8.0	8.0	22.9	22.9	83.0	5.6	10.7	4													
					SR6A	Cloudy	Moderate	10:14	4.1	Surface	1.0	0.1	299	29.3	29.3	8.1	8.1	22.2	22.2	101.3	101.1	6.9	7.8	5				4	817979	814721
											1.0	0.1	326	29.2	8.1	8.1	22.3	22.2	100.9	6.8	8.3	4								
											-	-	-	-	-	-	-	-	-	-	-	-								
Middle	-	-	-	-						-	-	-	-	-	-	-	-													
	3.1	0.1	352	29.1						8.0	8.0	23.4	23.4	84.7	5.7	8.4	3													
	3.1	0.1	324	29.1						8.0	8.0	23.4	23.4	85.0	5.7	8.3	2													
SR7	Cloudy	Rough	10:17	18.5						Surface	1.0	0.1	91	29.7	29.7	8.4	8.4	24.3	24.3	113.4	113.4	7.5	3.1	2	3	823641	823722			
											1.0	0.1	97	29.7	8.4	8.4	24.3	24.3	113.4	7.5	3.1	2								
											9.3	0.0	164	29.5	8.3	8.3	24.8	24.8	106.9	7.1	3.4	2								
					Middle	9.3	0.0	173	29.5	8.3	8.3	24.8	24.8	106.9	7.1	3.4	3													
						17.5	0.1	274	28.3	8.2	8.2	29.2	29.2	75.4	5.0	3.1	3													
						17.5	0.1	282	28.3	8.2	8.2	29.2	29.2	75.4	5.0	3.2	3													
					SR8	Cloudy	Rough	11:51	4.2	Surface	1.0	-	-	30.1	30.1	8.1	8.1	21.6	21.6	143.7	143.8	9.6	8.8	4				5	820394	811623
											1.0	-	-	30.1	8.1	8.1	21.6	21.6	143.8	9.7	8.8	5								
											-	-	-	-	-	-	-	-	-	-	-	-								
Middle	-	-	-	-						-	-	-	-	-	-	-	-													
	3.2	-	-	30.5						30.5	8.1	8.1	22.1	22.1	143.6	9.5	5.9	5												
	3.2	-	-	30.5						30.5	8.1	8.1	22.1	22.1	143.6	9.5	6.0	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

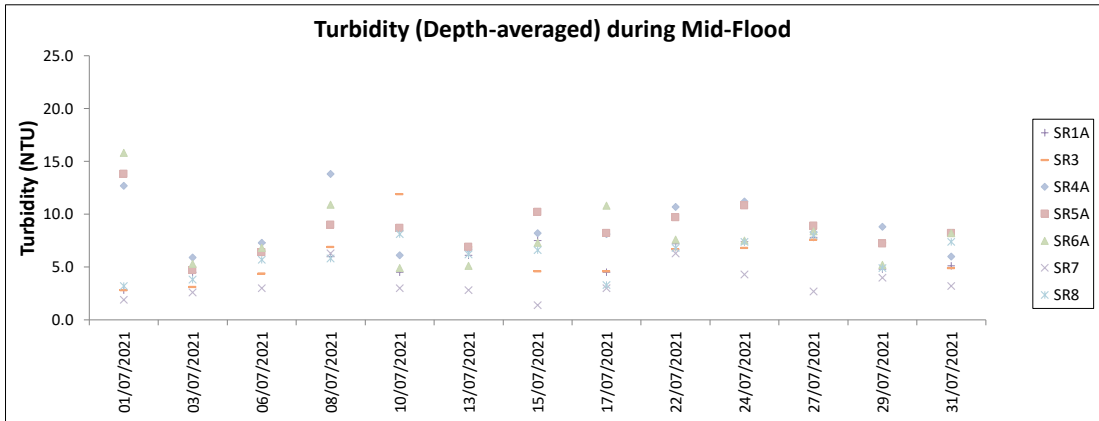
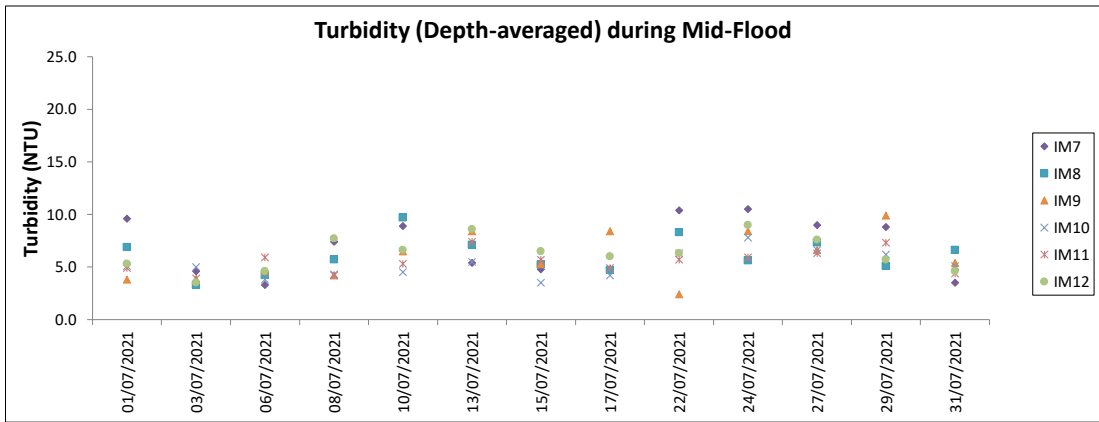
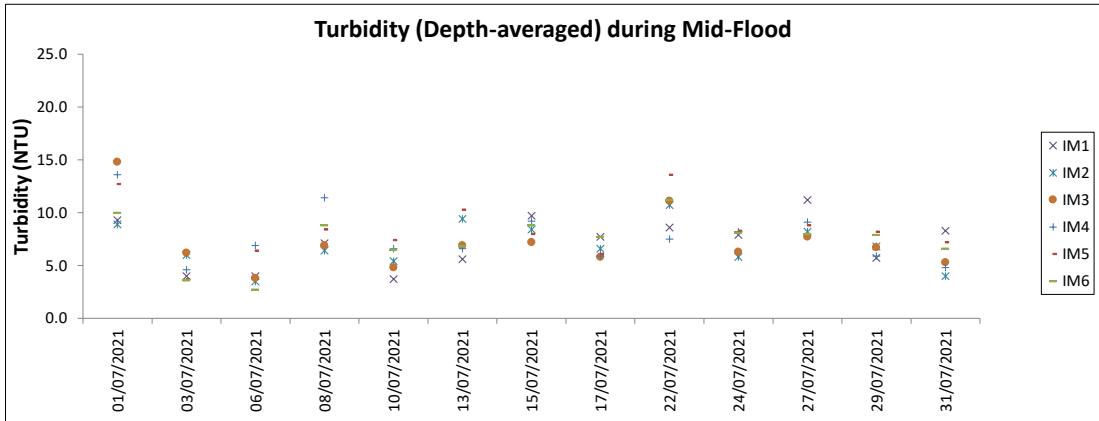
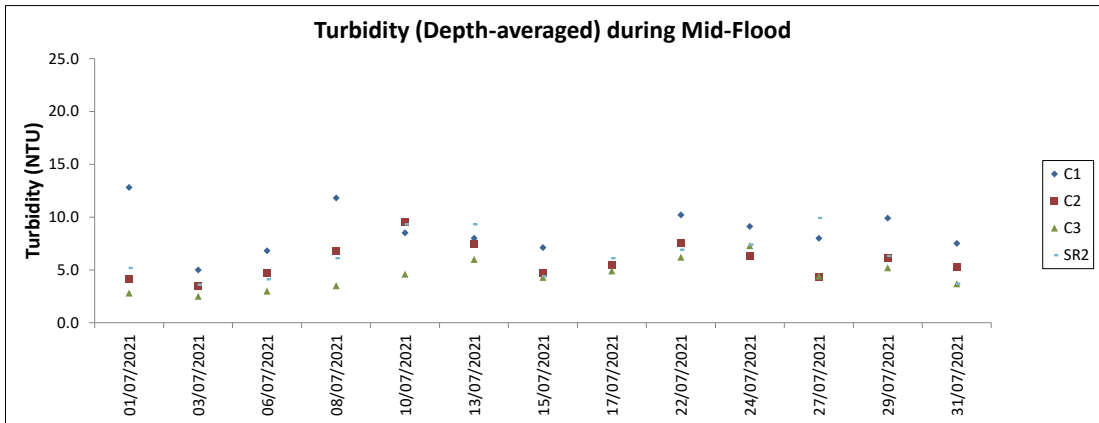




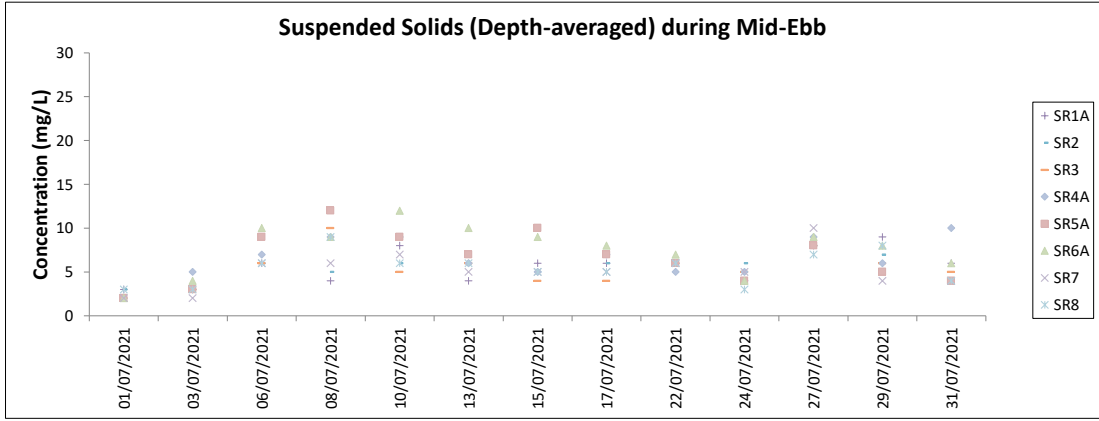
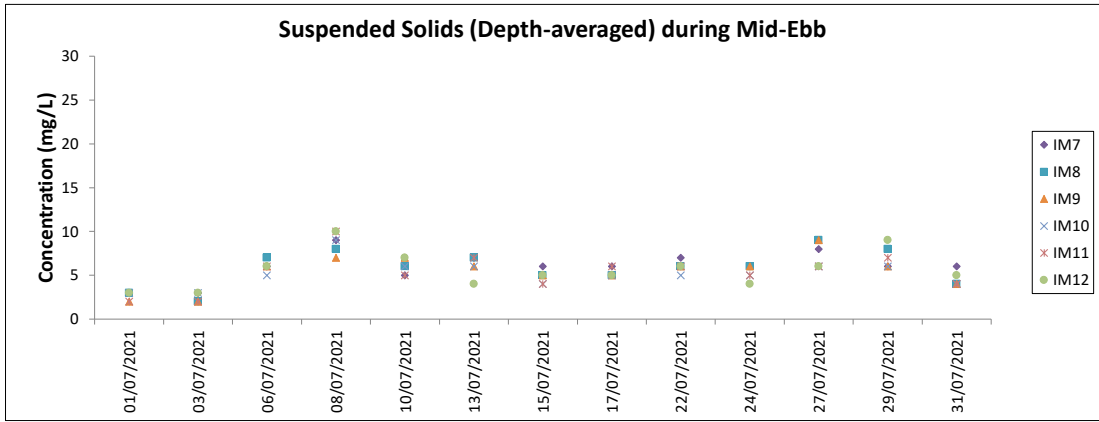
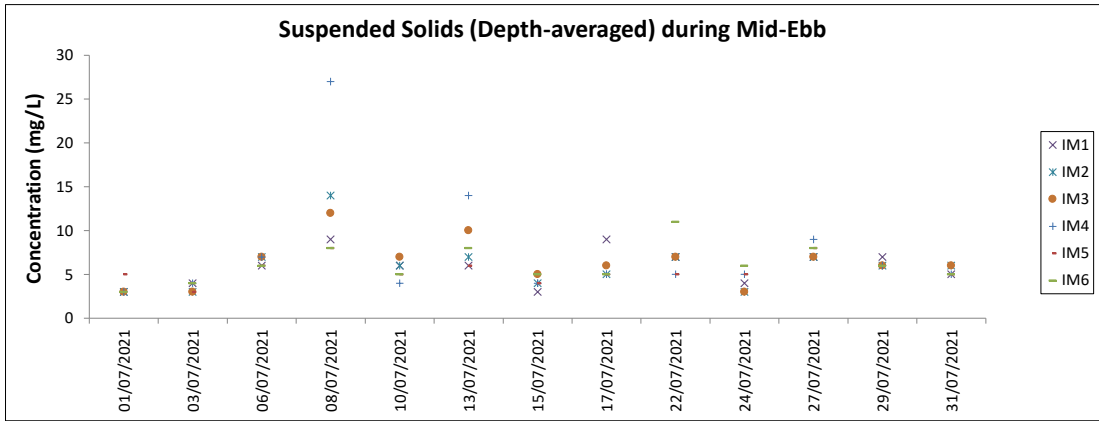
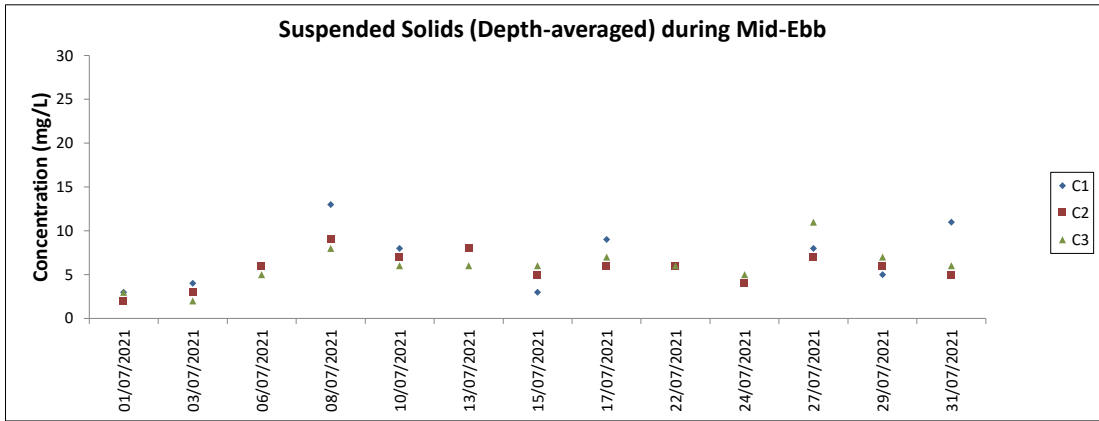




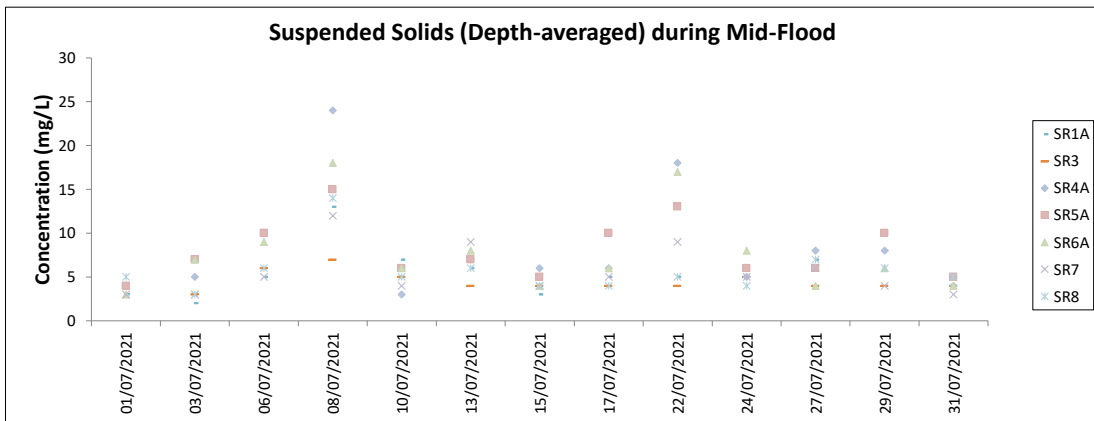
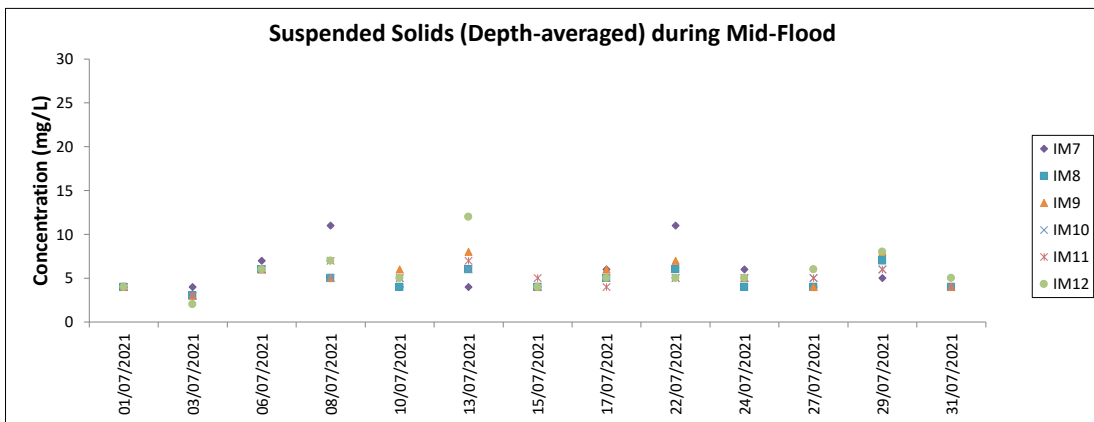
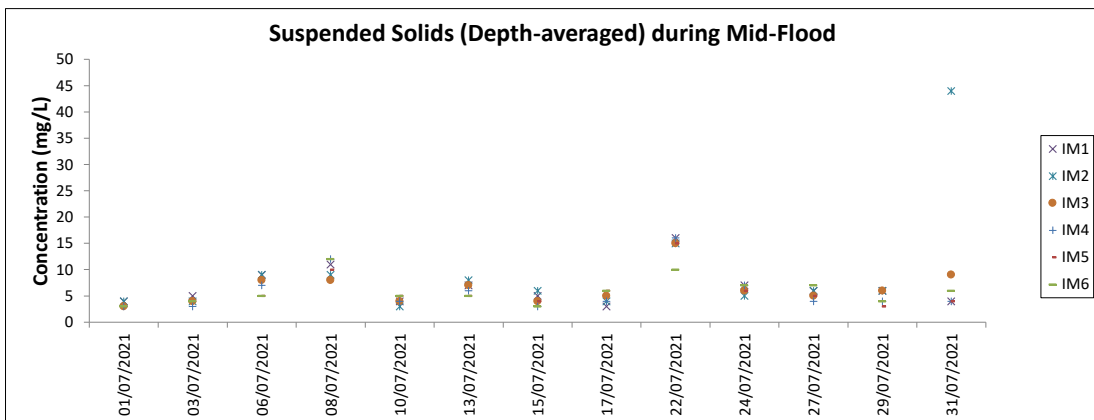
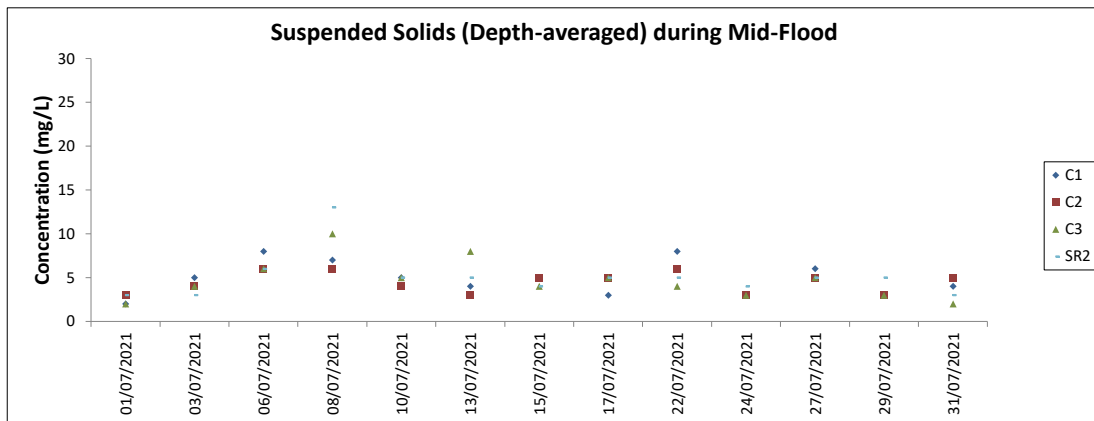
Note: The Action and Limit Level of turbidity can be referred to Table 4.2 of the monthly EM&A report.



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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.
 Weather conditions during monitoring are presented in the data tables above.
 QA/QC requirements as stipulated in the EM&A Manual were carried out during measurement.

Chinese White Dolphin Monitoring Results

CWD Small Vessel Line-transect Survey

Survey Effort Data

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE	P/S
06/05/2021	NEL	3	30.130	SPRING	32166	3RS ET	P
06/05/2021	NEL	4	7.170	SPRING	32166	3RS ET	P
06/05/2021	NEL	3	10.100	SPRING	32166	3RS ET	S
11/05/2021	AW	3	4.870	SPRING	32166	3RS ET	P
11/05/2021	WL	3	17.180	SPRING	32166	3RS ET	P
11/05/2021	WL	4	3.240	SPRING	32166	3RS ET	P
11/05/2021	WL	3	7.890	SPRING	32166	3RS ET	S
11/05/2021	WL	4	1.970	SPRING	32166	3RS ET	S
20/05/2021	NWL	3	41.600	SPRING	32166	3RS ET	P
20/05/2021	NWL	4	22.100	SPRING	32166	3RS ET	P
20/05/2021	NWL	3	6.000	SPRING	32166	3RS ET	S
20/05/2021	NWL	4	5.400	SPRING	32166	3RS ET	S
21/05/2021	NEL	2	0.669	SPRING	32166	3RS ET	P
21/05/2021	NEL	3	36.410	SPRING	32166	3RS ET	P
21/05/2021	NEL	2	0.941	SPRING	32166	3RS ET	S
21/05/2021	NEL	3	8.580	SPRING	32166	3RS ET	S
25/05/2021	SWL	1	4.200	SPRING	32166	3RS ET	P
25/05/2021	SWL	2	26.979	SPRING	32166	3RS ET	P
25/05/2021	SWL	3	20.210	SPRING	32166	3RS ET	P
25/05/2021	SWL	4	1.310	SPRING	32166	3RS ET	P
25/05/2021	SWL	1	3.900	SPRING	32166	3RS ET	S
25/05/2021	SWL	2	5.088	SPRING	32166	3RS ET	S
25/05/2021	SWL	3	6.580	SPRING	32166	3RS ET	S
26/05/2021	SWL	1	1.240	SPRING	32166	3RS ET	P
26/05/2021	SWL	2	18.494	SPRING	32166	3RS ET	P
26/05/2021	SWL	3	27.800	SPRING	32166	3RS ET	P
26/05/2021	SWL	4	6.000	SPRING	32166	3RS ET	P
26/05/2021	SWL	2	3.830	SPRING	32166	3RS ET	S
26/05/2021	SWL	3	9.860	SPRING	32166	3RS ET	S
26/05/2021	SWL	4	1.330	SPRING	32166	3RS ET	S
27/05/2021	NWL	2	8.010	SPRING	32166	3RS ET	P
27/05/2021	NWL	3	37.990	SPRING	32166	3RS ET	P
27/05/2021	NWL	4	18.800	SPRING	32166	3RS ET	P
27/05/2021	NWL	3	8.600	SPRING	32166	3RS ET	S
27/05/2021	NWL	4	2.300	SPRING	32166	3RS ET	S
28/05/2021	AW	2	4.730	SPRING	32166	3RS ET	P
28/05/2021	WL	2	2.400	SPRING	32166	3RS ET	P
28/05/2021	WL	3	14.857	SPRING	32166	3RS ET	P
28/05/2021	WL	4	2.016	SPRING	32166	3RS ET	P
28/05/2021	WL	3	8.377	SPRING	32166	3RS ET	S
28/05/2021	WL	4	1.220	SPRING	32166	3RS ET	S
04/06/2021	NEL	2	15.070	SUMMER	32166	3RS ET	P
04/06/2021	NEL	3	17.100	SUMMER	32166	3RS ET	P
04/06/2021	NEL	4	5.200	SUMMER	32166	3RS ET	P
04/06/2021	NEL	2	4.230	SUMMER	32166	3RS ET	S
04/06/2021	NEL	3	5.800	SUMMER	32166	3RS ET	S
07/06/2021	SWL	3	15.180	SUMMER	32166	3RS ET	P

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE	P/S
07/06/2021	SWL	4	32.070	SUMMER	32166	3RS ET	P
07/06/2021	SWL	5	6.500	SUMMER	32166	3RS ET	P
07/06/2021	SWL	2	0.800	SUMMER	32166	3RS ET	S
07/06/2021	SWL	3	0.600	SUMMER	32166	3RS ET	S
07/06/2021	SWL	4	6.250	SUMMER	32166	3RS ET	S
07/06/2021	SWL	5	2.800	SUMMER	32166	3RS ET	S
08/06/2021	AW	2	4.950	SUMMER	32166	3RS ET	P
08/06/2021	WL	2	8.959	SUMMER	32166	3RS ET	P
08/06/2021	WL	3	8.488	SUMMER	32166	3RS ET	P
08/06/2021	WL	2	4.800	SUMMER	32166	3RS ET	S
08/06/2021	WL	3	4.462	SUMMER	32166	3RS ET	S
17/06/2021	NWL	3	47.300	SUMMER	32166	3RS ET	P
17/06/2021	NWL	4	17.300	SUMMER	32166	3RS ET	P
17/06/2021	NWL	3	8.900	SUMMER	32166	3RS ET	S
17/06/2021	NWL	4	2.300	SUMMER	32166	3RS ET	S
15/06/2021	WL	2	0.910	SUMMER	32166	3RS ET	P
15/06/2021	WL	3	15.750	SUMMER	32166	3RS ET	P
15/06/2021	WL	4	3.148	SUMMER	32166	3RS ET	P
15/06/2021	WL	2	1.320	SUMMER	32166	3RS ET	S
15/06/2021	WL	3	7.130	SUMMER	32166	3RS ET	S
15/06/2021	WL	4	2.542	SUMMER	32166	3RS ET	S
15/06/2021	AW	3	4.200	SUMMER	32166	3RS ET	P
21/06/2021	NWL	3	19.300	SUMMER	32166	3RS ET	P
21/06/2021	NWL	4	42.410	SUMMER	32166	3RS ET	P
21/06/2021	NWL	3	9.200	SUMMER	32166	3RS ET	S
21/06/2021	NWL	4	5.400	SUMMER	32166	3RS ET	S
22/06/2021	NEL	2	22.400	SUMMER	32166	3RS ET	P
22/06/2021	NEL	3	14.510	SUMMER	32166	3RS ET	P
22/06/2021	NEL	2	4.100	SUMMER	32166	3RS ET	S
22/06/2021	NEL	3	6.390	SUMMER	32166	3RS ET	S
25/06/2021	SWL	2	22.860	SUMMER	32166	3RS ET	P
25/06/2021	SWL	3	24.890	SUMMER	32166	3RS ET	P
25/06/2021	SWL	2	11.130	SUMMER	32166	3RS ET	S
25/06/2021	SWL	3	4.460	SUMMER	32166	3RS ET	S
12/07/2021	SWL	2	25.750	SUMMER	32166	3RS ET	P
12/07/2021	SWL	3	25.520	SUMMER	32166	3RS ET	P
12/07/2021	SWL	2	8.900	SUMMER	32166	3RS ET	S
12/07/2021	SWL	3	6.610	SUMMER	32166	3RS ET	S
13/07/2021	SWL	1	1.050	SUMMER	32166	3RS ET	P
13/07/2021	SWL	2	35.764	SUMMER	32166	3RS ET	P
13/07/2021	SWL	3	14.402	SUMMER	32166	3RS ET	P
13/07/2021	SWL	1	1.160	SUMMER	32166	3RS ET	S
13/07/2021	SWL	2	9.900	SUMMER	32166	3RS ET	S
13/07/2021	SWL	3	4.150	SUMMER	32166	3RS ET	S
14/07/2021	AW	2	4.740	SUMMER	32166	3RS ET	P
14/07/2021	WL	1	0.970	SUMMER	32166	3RS ET	P
14/07/2021	WL	2	6.905	SUMMER	32166	3RS ET	P
14/07/2021	WL	3	8.190	SUMMER	32166	3RS ET	P
14/07/2021	WL	2	4.141	SUMMER	32166	3RS ET	S

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE	P/S
14/07/2021	WL	3	5.059	SUMMER	32166	3RS ET	S
19/07/2021	NEL	3	31.750	SUMMER	32166	3RS ET	P
19/07/2021	NEL	4	5.200	SUMMER	32166	3RS ET	P
19/07/2021	NEL	3	8.950	SUMMER	32166	3RS ET	S
19/07/2021	NEL	4	1.300	SUMMER	32166	3RS ET	S
21/07/2021	NEL	2	5.200	SUMMER	32166	3RS ET	P
21/07/2021	NEL	3	31.980	SUMMER	32166	3RS ET	P
21/07/2021	NEL	2	4.000	SUMMER	32166	3RS ET	S
21/07/2021	NEL	3	6.120	SUMMER	32166	3RS ET	S
22/07/2021	AW	2	2.010	SUMMER	32166	3RS ET	P
22/07/2021	AW	3	2.980	SUMMER	32166	3RS ET	P
22/07/2021	WL	2	9.208	SUMMER	32166	3RS ET	P
22/07/2021	WL	3	5.108	SUMMER	32166	3RS ET	P
22/07/2021	WL	4	0.310	SUMMER	32166	3RS ET	P
22/07/2021	WL	2	2.660	SUMMER	32166	3RS ET	S
22/07/2021	WL	3	4.919	SUMMER	32166	3RS ET	S
22/07/2021	WL	4	0.660	SUMMER	32166	3RS ET	S
26/07/2021	NWL	2	62.210	SUMMER	32166	3RS ET	P
26/07/2021	NWL	2	10.690	SUMMER	32166	3RS ET	S
28/07/2021	NWL	2	34.380	SUMMER	32166	3RS ET	P
28/07/2021	NWL	3	28.060	SUMMER	32166	3RS ET	P
28/07/2021	NWL	4	0.600	SUMMER	32166	3RS ET	P
28/07/2021	NWL	2	3.370	SUMMER	32166	3RS ET	S
28/07/2021	NWL	3	7.420	SUMMER	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-May-21	1	1043	CWD	2	WL	3	74	ON	3RS ET	22.2643	113.8571	SPRING	NONE	S
25-May-21	1	1105	FP	2	SWL	2	16	ON	3RS ET	22.1593	113.9280	SPRING	NONE	P
25-May-21	2	1109	FP	2	SWL	2	17	ON	3RS ET	22.1634	113.9279	SPRING	NONE	P
25-May-21	3	1252	CWD	1	SWL	2	256	ON	3RS ET	22.2042	113.8973	SPRING	NONE	P
25-May-21	4	1438	CWD	6	SWL	3	1	ON	3RS ET	22.1713	113.8681	SPRING	NONE	P
25-May-21	5	1521	CWD	1	SWL	2	129	ON	3RS ET	22.2000	113.8684	SPRING	NONE	P
25-May-21	6	1540	CWD	3	SWL	2	71	ON	3RS ET	22.1914	113.8587	SPRING	NONE	P
25-May-21	7	1610	CWD	3	SWL	2	1	ON	3RS ET	22.1813	113.8594	SPRING	NONE	P
25-May-21	8	1634	CWD	1	SWL	3	461	ON	3RS ET	22.1832	113.8495	SPRING	NONE	P
26-May-21	1	1357	CWD	2	SWL	3	199	ON	3RS ET	22.1911	113.8790	SPRING	NONE	P
26-May-21	2	1437	CWD	3	SWL	3	137	ON	3RS ET	22.1684	113.8685	SPRING	NONE	P
26-May-21	3	1504	CWD	6	SWL	2	631	ON	3RS ET	22.1958	113.8699	SPRING	NONE	P
28-May-21	1	1030	CWD	1	WL	3	651	ON	3RS ET	22.2693	113.8574	SPRING	NONE	P
28-May-21	2	1144	CWD	2	WL	4	240	ON	3RS ET	22.2142	113.8292	SPRING	NONE	P
8-Jun-21	1	1046	CWD	5	WL	2	216	ON	3RS ET	22.2501	113.8418	SUMMER	NONE	P
8-Jun-21	2	1109	CWD	4	WL	2	770	ON	3RS ET	22.2412	113.8427	SUMMER	NONE	P
8-Jun-21	3	1151	CWD	3	WL	3	38	ON	3RS ET	22.2242	113.8198	SUMMER	NONE	S
8-Jun-21	4	1246	CWD	1	WL	3	23	ON	3RS ET	22.1955	113.8333	SUMMER	NONE	P
15-Jun-21	1	1044	CWD	4	WL	3	198	ON	3RS ET	22.2611	113.8514	SUMMER	NONE	P
25-Jun-21	1	1119	CWD	1	SWL	2	45	ON	3RS ET	22.1829	113.9277	SUMMER	NONE	P
25-Jun-21	2	1413	CWD	1	SWL	2	1006	ON	3RS ET	22.1976	113.8787	SUMMER	NONE	P
25-Jun-21	3	1429	CWD	5	SWL	3	202	ON	3RS ET	22.1832	113.8785	SUMMER	NONE	P
25-Jun-21	4	1523	CWD	2	SWL	3	816	ON	3RS ET	22.1938	113.8591	SUMMER	NONE	P
12-Jul-21	1	1225	CWD	1	SWL	3	70	ON	3RS ET	22.1605	113.8981	SUMMER	NONE	S
12-Jul-21	2	1314	CWD	1	SWL	3	1	ON	3RS ET	22.1962	113.8975	SUMMER	NONE	P
12-Jul-21	3	1426	CWD	2	SWL	2	531	ON	3RS ET	22.1933	113.8785	SUMMER	NONE	P
12-Jul-21	4	1507	CWD	5	SWL	3	41	ON	3RS ET	22.1860	113.8690	SUMMER	NONE	P
12-Jul-21	5	1540	CWD	3	SWL	2	63	ON	3RS ET	22.1944	113.8590	SUMMER	NONE	P
12-Jul-21	6	1610	CWD	4	SWL	3	573	ON	3RS ET	22.1894	113.8497	SUMMER	NONE	P
13-Jul-21	1	1357	CWD	3	SWL	2	379	ON	3RS ET	22.2073	113.8789	SUMMER	PURSE SEINER	S
13-Jul-21	2	1413	CWD	2	SWL	2	15	ON	3RS ET	22.2061	113.8780	SUMMER	NONE	P
13-Jul-21	3	1538	CWD	7	SWL	3	14	ON	3RS ET	22.1906	113.8495	SUMMER	PURSE SEINER	P

DATE	STG #	TIME	CWD/FP	GP SZ	AREA	BEAU	PSD	EFFORT	TYPE	DEC LAT	DEC LON	SEASON	BOAT ASSOC.	P/S
14-Jul-21	1	1036	CWD	1	WL	2	127	ON	3RS ET	22.2621	113.8558	SUMMER	NONE	S
14-Jul-21	2	1044	CWD	2	WL	1	343	ON	3RS ET	22.2616	113.8506	SUMMER	NONE	P
14-Jul-21	3	1055	CWD	5	WL	2	44	ON	3RS ET	22.2608	113.8475	SUMMER	NONE	P
14-Jul-21	4	1109	CWD	3	WL	2	779	ON	3RS ET	22.2546	113.8355	SUMMER	NONE	S
14-Jul-21	5	1147	CWD	4	WL	3	325	ON	3RS ET	22.2399	113.8277	SUMMER	NONE	S
14-Jul-21	6	1214	CWD	2	WL	3	17	ON	3RS ET	22.2300	113.8381	SUMMER	NONE	S
14-Jul-21	7	1240	CWD	3	WL	3	466	ON	3RS ET	22.2143	113.8223	SUMMER	NONE	P
22-Jul-21	1	1037	CWD	8	WL	2	453	ON	3RS ET	22.2644	113.8574	SUMMER	PURSE SEINER	S
22-Jul-21	2	1117	CWD	7	WL	3	411	ON	3RS ET	22.2499	113.8377	SUMMER	NONE	P
22-Jul-21	3	1147	CWD	2	WL	2	358	ON	3RS ET	22.2419	113.8391	SUMMER	NONE	P
22-Jul-21	4	1202	CWD	3	WL	3	32	ON	3RS ET	22.2326	113.8240	SUMMER	NONE	S
22-Jul-21	5	1211	CWD	2	WL	3	221	ON	3RS ET	22.2316	113.8299	SUMMER	NONE	P
22-Jul-21	6	1234	CWD	6	WL	3	22	ON	3RS ET	22.2141	113.8254	SUMMER	NONE	P
22-Jul-21	7	1314	CWD	3	WL	4	20	ON	3RS ET	22.2010	113.8252	SUMMER	NONE	S
22-Jul-21	8	1323	CWD	1	WL	3	170	ON	3RS ET	22.1963	113.8363	SUMMER	NONE	P
22-Jul-21	9	1336	CWD	4	WL	2	115	ON	3RS ET	22.1930	113.8426	SUMMER	PURSE SEINER	S
26-Jul-21	1	1204	CWD	1	NWL	2	567	ON	3RS ET	22.3826	113.8878	SUMMER	NONE	P
26-Jul-21	2	1309	CWD	4	NWL	2	490	ON	3RS ET	22.3885	113.8978	SUMMER	NONE	P
28-Jul-21	1	1035	CWD	1	NWL	2	32	ON	3RS ET	22.2820	113.8694	SUMMER	NONE	P
28-Jul-21	2	1105	CWD	2	NWL	2	302	ON	3RS ET	22.2920	113.8774	SUMMER	NONE	P
28-Jul-21	3	1305	CWD	1	NWL	2	63	ON	3RS ET	22.3522	113.8980	SUMMER	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 424.226 km of survey effort was collected under Beaufort Sea State 3 or below with favourable visibility; total no. of 29 on-effort sightings and total number of 90 dolphins from on-effort sightings were collected under such condition. Calculation of the encounter rates in July 2021 are shown as below:

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

$$STG = \frac{29}{424.226} \times 100 = 6.84$$

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

$$ANI = \frac{90}{424.226} \times 100 = 21.22$$

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

A total of 1116.930 km of survey effort was collected under Beaufort Sea State 3 or below with favourable visibility; total no. of 49 on-effort sightings and total number of 145 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)









$$STG = \frac{49}{1116.930} \times 100 = 4.39$$









Running Quarterly Encounter Rate by Number of Dolphins (ANI)

$$ANI = \frac{145}{1116.930} \times 100 = 12.98$$

CWD Small Vessel Line-transect Survey

Photo Identification

	
SLMM014_20210712_2_2	SLMM037_20210712_3_1
	
WLMM001_20210712_4_3	WLMM114_20210712_4_5
	
WLMM073_20210712_5_3	WLMM009_20210712_6_2
	
SLMM060_20210713_1_5	SLMM037_20210713_2_2

	
SLMM012_20210713_3_1	SLMM023_20210713_3_4
	
SLMM027_20210713_3_1	SLMM034_20210713_3_2
	
SLMM049_20210713_3_4	WLMM114_20210713_3_1
	
WLMM043_20210714_1_1	SLMM003_20210714_2_3



SLMM010_20210714_2_1



WLMM030_20210714_3_3



WLMM091_20210714_3_5



WLMM092_20210714_3_5



WLMM043_20210714_4_1











SLMM014_20210714_5_2



WLMM076_20210714_6_7



WLMM131_20210714_6_7

	
SLMM003_20210714_7_3	SLMM037_20210714_7_3
	
NLMM078_20210722_1_21	SLMM010_20210722_1_3
	
WLMM043_20210722_1_6	WLMM067_20210722_1_4
	
WLMM076_20210722_1_3	WLMM122_20210722_1_3



SLMM010_20210722_2_2



SLMM045_20210722_2_3



WLMM166_20210722_2_1



SLMM064_20210722_3_3



WLMM001_20210722_3_8



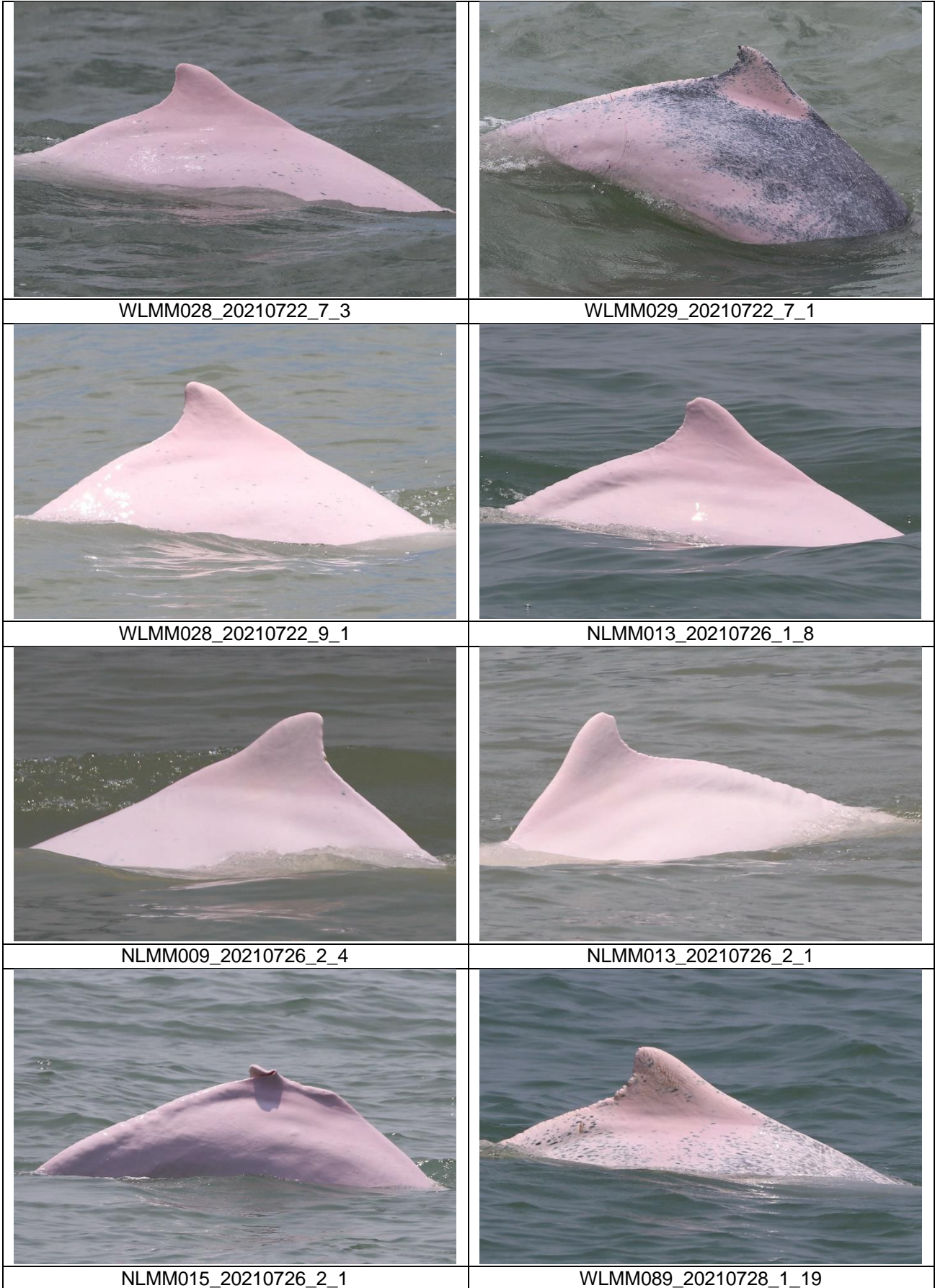
NLMM001_20210722_4_4



WLMM063_20210722_5_2



WLMM092_20210722_6_2





WLMM089_20210728_2_2



NLMM023_20210728_3_4

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
12/Jul/21	Lung Kwu Chau	8:51	14:51	6:00	2	1	1	2
27/Jul/21	Sha Chau	10:47	16:47	6:00	2	2-3	0	0

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

Appendix D. Calibration Certificates



專業化驗有限公司

QUALITY PRO TEST-CONSULT LIMITED

Unit 10, 14/F, Wah Wai Centre, 38-40 Au Pui Wan St., Fotan, Hong Kong

Email: info@qualityprotest.com; Website: www.qualityprotest.com

Tel: (852) 3956 8717; Fax: (852) 3956 3928

REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No. : BA070115
Date of Issue : 26 July 2021
Page No. : 1 of 2

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 : Jul 26, 2021
Date of Calibration : Jul 26, 2021
Date of Next Calibration^(a) : Oct 25, 2021

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	4.02	0.02	Satisfactory
7.42	7.40	-0.02	Satisfactory
10.01	10.02	0.01	Satisfactory

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

(2) Temperature

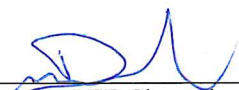
Reading of Ref. thermometer (°C)	Displayed Reading (°C)	Tolerance (°C)	Results
10	10.0	0.0	Satisfactory
25	25.1	0.1	Satisfactory
46	46.1	0.1	Satisfactory

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 from 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 from relevant international standards..


LEE Chun-ning
Senior Chemist



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

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PART D – CALIBRATION RESULTS (Cont'd)

(3) Dissolved Oxygen

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)	Results
0.65	0.55	-0.10	Satisfactory
3.69	4.01	0.32	Satisfactory
5.42	5.68	0.26	Satisfactory
7.47	7.71	0.24	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 ($\mu\text{S/cm}$)	Displayed Reading ($\mu\text{S/cm}$)	Tolerance (%)	Results
0.001	146.9	148.1	0.82	Satisfactory
0.01	1412	1428	1.13	Satisfactory
0.1	12890	12841	-0.38	Satisfactory
0.5	58670	58206	-0.79	Satisfactory
1.0	111900	112406	0.45	Satisfactory

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

(5) Salinity

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)	Results
10	9.88	-1.20	Satisfactory
20	20.24	1.20	Satisfactory
30	30.51	1.70	Satisfactory

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

(6) Turbidity

Expected Reading (NTU)	Displayed Reading ^(f) (NTU)	Tolerance ^(g) (%)	Results
0	0.17	--	Satisfactory
10	9.94	-0.6	Satisfactory
20	19.68	-1.6	Satisfactory
100	103.22	3.2	Satisfactory
800	795.17	-0.6	Satisfactory

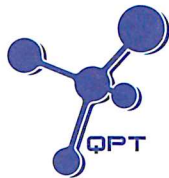
Tolerance limit of turbidity should be less than ± 10.0 (%)

~ 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 from relevant international standards.



專業化驗有限公司

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Email: info@qualityprotest.com; Website: www.qualityprotest.com

Tel: (852) 3956 8717; Fax: (852) 3956 3928

REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No. : BA070116
Date of Issue : 26 July 2021
Page No. : 1 of 2

PART A – CUSTOMER INFORMATION

Enovative Environmental Service Ltd.
Flat 2207, Yu Fun House,
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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 : 17H105557
Date of Received : Jul 26, 2021
Date of Calibration : Jul 26, 2021
Date of Next Calibration^(a) : Oct 25, 2021

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	4.05	0.05	Satisfactory
7.42	7.44	0.02	Satisfactory
10.01	10.03	0.02	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
25	25.1	0.1	Satisfactory
46	46.1	0.1	Satisfactory

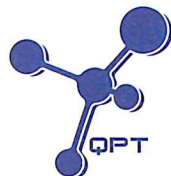
Tolerance limit of temperature should be less than ± 2.0 (°C)

~ 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 from 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 from relevant international standards.

LEE Chun-ning
Senior Chemist



REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

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PART D – CALIBRATION RESULTS (Cont'd)

(3) Dissolved Oxygen

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)	Results
0.65	0.49	-0.16	Satisfactory
3.69	3.91	0.22	Satisfactory
5.42	5.66	0.24	Satisfactory
7.47	7.45	-0.02	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 ($\mu\text{S/cm}$)	Displayed Reading ($\mu\text{S/cm}$)	Tolerance (%)	Results
0.001	146.9	147.6	0.48	Satisfactory
0.01	1412	1431	1.35	Satisfactory
0.1	12890	12793	-0.75	Satisfactory
0.5	58670	58344	-0.56	Satisfactory
1.0	111900	112308	0.36	Satisfactory

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

(5) Salinity

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)	Results
10	10.08	0.80	Satisfactory
20	20.21	1.05	Satisfactory
30	30.55	1.83	Satisfactory

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

(6) Turbidity

Expected Reading (NTU)	Displayed Reading ^(f) (NTU)	Tolerance ^(g) (%)	Results
0	0.18	--	Satisfactory
10	10.13	1.3	Satisfactory
20	19.72	-1.4	Satisfactory
100	104.84	4.8	Satisfactory
800	793.10	-0.9	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 from relevant international standards.

Appendix E. Status of Environmental Permits and Licences

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

Contract No.	Description	Location	Permit/ Reference No.	Status
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-RS0187-21	Superseded by GW-RS0505-21
GW-RS0505-21			Valid from 7 Jul 2021 to 5 Jan 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-RS0118-21	Valid from 24 Feb 2021 to 21 Aug 2021
Works area of 3301 (Cable ducting works) (Special Case)		GW-RS0188-21	Valid from 29 Mar 2021 to 28 Sep 2021	
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
	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

Contract No.	Description	Location	Permit/ Reference No.	Status
	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
	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-RS0447-21	Valid from 18 Jun 2021 to 17 Dec 2021	
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
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
	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-RS0033-21	Valid from 7 Feb 2021 to 6 Aug 2021
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
	Construction Noise Permit (General Works)	Works area of 3402	GW-RS0129-21	Valid from 20 Mar 2021 to 9 Sep 2021
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

Contract No.	Description	Location	Permit/ Reference No.	Status
	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-RS0329-21	Valid from 29 May 2021 to 28 Nov 2021
	Construction Noise Permit (Special Case)	Works area of 3403	GW-RS0338-21	Valid from 1 June 2021 to 30 Nov 2021
3405	Notification of Construction Work under APCO	Works area of 3405	453447	Receipt acknowledged by EPD on 18 Feb 2020
	Registration as Chemical Waste Producer	Works area of 3405	WPN 5218-951-C4431-01	Completion of Registration on 12 Mar 2020
	Discharge License under WPCO	Works area of 3405	WT00037084-2020	Valid from 17 Mar 2021 to 31 Mar 2026
	Bill Account for disposal	Works area of 3405	A/C 7036796	Approval granted from EPD on 20 Mar 2020
	Construction Noise Permit (General Works)	Works area of 3405	GW-RS0339-21	Valid from 15 May 2021 to 12 Nov 2021
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
	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-RS0224-21	Valid from 11 Apr 2021 to 30 Sep 2021
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
		Works area of 3503	GW-RS0463-21	Valid from 20 Jun 2021 to 15 Dec 2021

Contract No.	Description	Location	Permit/ Reference No.	Status
	Construction Noise Permit (General Works)	Stockpiling area of 3503	GW-RS0215-21	Valid from 19 Apr 2021 to 18 Oct 2021
		Works area of 3503 (Special Case)	GW-RS0450-21	Valid from 18 Jun 2021 to 31 Jul 2021
3508	Notification of Construction Work under APCO	Works area of 3508	459469	Receipt acknowledged by EPD on 4 Sep 2020
	Registration as Chemical Waste Producer	Works area of 3508	WPN-5218-951-G2898-01	Completion of Registration on 28 Sep 2020
	Discharge License under WPCO	Works area of 3508	WT00037209-2020	Valid from 11 Mar 2021 to 31 Mar 2026
			WT00037523-2021	Valid from 1 Apr 2021 to 30 Apr 2026
			WT00037225-2020	Valid from 1 Apr 2021 to 30 Apr 2026
			WT00037549-2021	Valid from 1 Apr 2021 to 30 Apr 2026
	Bill Account for disposal	Works area of 3508	7038224	Approval granted from EPD on 8 Sep 2020
	Construction Noise Permit (General Works)	Works area of 3508	GW-RS0457-21	Valid from 17 Jun 2021 to 14 Dec 2021
			GW-RS0534-21	Valid from 16 Jul 2021 to 14 Jan 2022
		Works area of 3508 (Area 3, Area C, Area J, Area K)	GW-RS0493-21	Valid from 27 Jun 2021 to 24 Dec 2021
Works area of 3508 (Area 10)		GW-RS0414-21	Valid from 30 May 2021 to 25 Nov 2021	
Works area of 3508 (Special Case)		GW-RS0434-21	Valid from 13 Jun 2021 to 31 Aug 2021	
Works area of 3508 (Special Case)		GW-RS0315-21	Valid from 12 May 2021 to 9 Nov 2021	
Works area of 3508 (Area 10)		GW-RS0566-21	Valid from 19 Jul 2021 to 19 Sep 2021	
3601	Notification of Construction Work under APCO	Works area of 3601	451762	Receipt acknowledged by EPD on 10 Dec 2019 May
	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
		Works area of 3602	WPN 5296-951-N2673-01	Completion of Registration on 9 Oct 2017

Contract No.	Description	Location	Permit/ Reference No.	Status
	Registration as Chemical Waste Producer	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-RS0186-21	Valid from 31 Mar 2021 to 30 Sep 2021
3603	Registration as Chemical Waste Producer	Site office of 3603	5296-951-S4069-01	Completion of Registration on 22 Jan 2018
		Test Loop Site of 3603	8334-512-S4273-01	Completion of Registration on 17 Sep 2020
	Bill Account for disposal	Works area of 3603	A/C 7030002	Approval granted from EPD on 1 Feb 2018
	Construction Noise Permit (General Works)	Works area of 3603	GW-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	Valid from 15 May 2021 to 12 Nov 2021
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
	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
	Construction Noise Permit (General Works)	Works area of 3722A, 3722B, 3722C and	GW-RS0153-21	Valid from 15 Mar 2021 to 14 Sep 2021

Contract No.	Description	Location	Permit/ Reference No.	Status
		3722D		
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	/	Application submitted on 15 March 2021
	Bill Account for disposal	Works area of 3723A	A/C 7039755	Approval granted from EPD on 24 Feb 2021
		Works area of 3723B	A/C 7039754	Approval granted from EPD on 24 Feb 2021
Construction Noise Permit (General Works)	Works area of 3723A & 3723B	GW-RS0320-21	Valid from 13 May 2021 to 11 Nov 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-RS0245-21	Valid from 28 Apr 2021 to 27 Oct 2021
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
	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	Valid from 31 May 2021 to 30 Nov 2021
3901A	Notification of Construction Work under APCO	Works area of 3901A	466883	Receipt acknowledged by EPD on 26 Apr 2021

Contract No.	Description	Location	Permit/ Reference No.	Status
	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
	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-RS0095-21 GW-RS0456-21	Superseded by GW-RS0456-21 Valid from 18 Jul 2021 to 17 Jan 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-RS0146-21	Valid from 14 Mar 2021 to 10 Sep 2021

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

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

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

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

Statistics for Complaints, Notifications of Summons and Prosecutions

Reporting Period	Cumulative Statistics		
	Complaints	Notifications of Summons	Prosecutions
This reporting period	1	0	0
From 28 December 2015 to end of the reporting period	40	1	1