MOTT MACDONALD

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

Construction Phase Monthly EM&A
Report No. 90
(For June 2023)

July 2023

This Monthly EM&A Report No. 90 has been reviewed and certified by the Environmental Team Leader (ETL) in accordance with Condition 3.5 of Environmental Permit No. EP-489/2014.

Certified by: 

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

Date 14 July 2023

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By Email

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

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

14 July 2023

Dear Sir,

Contract No. 3102
3RS Independent Environmental Checker Consultancy Services

Submission of Monthly EM&A Report No. 90 (June 2023)

Reference is made to the Environmental Team's submission of the Monthly EM&A Report No. 90 under Condition 3.5 of the Environmental Permit No. EP-489/2014 certified by the ET Leader on 14 July 2023.

We would like to inform you that we have no adverse comment and 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 9141.

Yours faithfully,
AECOM Asia Co. Ltd.

Roy Man
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 90th 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 30 June 2023.

Key Activities in the Reporting Period

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

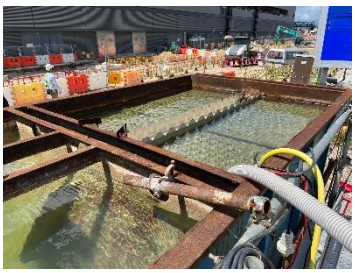
EM&A Activities Conducted in the Reporting Period

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

Monitoring Activities	Number of Sessions
1-hour Total Suspended Particulates (TSP) air quality monitoring	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 the information including ET’s observations, records of Maritime Surveillance System (MSS), and contractors’ site records, it is noted that environmental pollution control and mitigation measures were properly implemented and construction activities of the Project in the reporting period did not introduce adverse impacts to the sensitive receivers.

Snapshots of EM&A Activities in the Reporting Period

		
Checking of Wastewater Treatment Facility by ET	Use of Battery-Powered Crawler Cranes by Contractor	Impact Air Quality Monitoring conducted by ET at Tin Sum Village House

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 dissolved oxygen (DO), 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 were conducted for DO results triggering the relevant Action and Limit Level and the investigation findings revealed that the cases were not related to the Project. To conclude, the construction activities during the reporting period did not introduce adverse impact to all water quality sensitive receivers.

Summary of Upcoming Key Issues

Contract 3206 Main Reclamation Works

- Filling materials delivery.

Airfield Works

Contract 3302 Eastern Vehicular Tunnel Advance Works

- Construction of tunnel structure;
- Pipe and drainage diversion works;
- Utilities and backfilling works; and
- Stockpiling.

Contract 3305 Airfield Ground Lighting System

- Enhanced vehicular warning light hardware installation;
- Power supply system installation;
- Rectification work for airfield ground lighting system; and
- Cable containment installation.

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

- Equipment installation.

Contract 3308 Foreign Object Debris Detection System

- Rectification work for handover sensor system.

Contract 3310 North Runway Modification Works

- Architectural, builder's work and finishing works;

- Seawall construction;
- Construction of stormwater drainage;
- Piling works;
- Aviation fuel pipe works;
- Pipe pile works;
- Construction of box culvert; and
- Land improvement works (Transition layer and backfilling works).

Third Runway Concourse:

Contract 3403 New Integrated Airport Centres Building and Civil Works

- Trench backfilling works; and
- Electrical and mechanical works.

Contract 3404 Integrated Airport Control System

- System maintenance.

Contract 3405 Third Runway Concourse Foundation and Substructure Works

- Structure works;
- Setup of temporary drainage system; and
- Road formation.

Contract 3408 Third Runway Concourse and Apron Works

- Building services and architectural, builder's work and finishing works;
- Erection works for concrete batching plant; and
- Excavation and reinforced concrete works.

Terminal 2 Expansion:

Contract 3508 Terminal 2 Expansion Works

- Bridge demolition;
- Pier and temporary road construction;
- Pump station and electrical station works; and
- Architectural, builder's work and finishing works.

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

Contract 3601 New Automated People Mover System (TRC Line)

- Guide beam installation.

Contract 3602 Existing APM System Modification Works

- Defect rectification work; and
- Concrete plinth construction.

Contract 3603 Baggage Handling System (BHS)

- BHS installation; and
- Steel work installation.

Construction Support (Facilities):

Contract 3721 Construction Support Infrastructure Works

- Provision of backup services.

Airport Support Infrastructure:

Contract 3801 APM and BHS Tunnels on Existing Airport Island

- Backfilling works;
- Rebar fixing and preparation works for underground utility installation; and

- Coring works at bulkhead wall.

Contract 3802 APM and BHS Tunnels and Related Works

- Excavation and lateral supports;
- Box culvert construction;
- Tunnel construction; and
- Electrical and mechanical works.

Contract 3804 East and Landside Fire Stations

- Site setup and formation works;
- Bored pile works;
- Excavation; and
- Interface coring works for completed bored pile.

Contract 3805 New Airport District Police Operational Base

- Bored pile works; and
- Construction of temporary working platform.

Construction Support (Services / Licences):

Contract 3901A Concrete Batching Facility

- Operation of concrete batching plant and material conveyor belt.

Contract 3901B Concrete Batching Facility

- Operation of concrete batching plant and material conveyor belt.

Contract 3908 Quay Management Services

- Provision of services of site management and logistic control of 3RS quays; and
- Provision of flat top barge and vehicle delivery services between the launching point in Hong Kong and 3RS quays.

Contract 3913 Asphalt Batching Plant

- Operation of asphalt batching plant.

Summary Table

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

	Yes	No	Details	Analysis / Recommendation / Remedial Actions
Breach of Limit Level^		√	No breach of Limit Level was recorded.	Nil
Breach of Action Level^		√	No breach of Action Level was recorded.	Nil
Complaint Received	√		A complaint regarding noise nuisance was received on 9 June 2023.	ET requested the relevant contractor to provide information related to the complaint. The bridge demolition works was carried out on 9 June 2023. No observation regarding noise nuisance was recorded during regular site inspections. The relevant contractor was reminded to review and continuously implement their enhanced

	Yes	No	Details	Analysis / Recommendation / Remedial Actions
				noise mitigation measures. Hence, the case was considered closed.
Notification of any summons and status of prosecutions		√	No notification of summons nor 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 3.1[1]. AECOM Asia Company Limited (AECOM) was employed by AAHK as the Independent Environmental Checker (IEC) for the Project.

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

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

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

1.2 Scope of this Report

This is the 90th 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 30 June 2023.

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**.

Table 1.1: Contact Information of Key Personnel

Party	Position	Name	Telephone
Project Manager's Representative (Airport Authority Hong Kong)	Principal Manager, Environmental Compliance, Sustainability	Lawrence Tsui	2183 2734
Environmental Team (ET) (Mott MacDonald Hong Kong Limited)	Environmental Team Leader	Terence Kong	2828 5919
	Deputy Environmental Team Leaders	Heidi Yu	2828 5704
		Ken Wong	2828 5817

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

Party	Position	Name	Telephone
Independent Environmental Checker (IEC) (AECOM Asia Company Limited)	Independent Environmental Checker	Roy Man	3922 9141
	Deputy Independent Environmental Checker	Jackel Law	3922 9376

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 1525

Airfield Works:

Party	Position	Name	Telephone
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 3305 Airfield Ground Lighting System (ADB Safegate Hong Kong Limited)	Project Manager	Allam Al-Turk	2944 9725
	Environmental Officer	Ivan Ting	9222 9490
Contract 3306 Observation Facility Control System Supporting Interim 2RS and 3RS (Chinney Alliance Engineering Limited)	Project Director	Dennis Yam	9551 9920
	Environmental Officer	Richard Liu	9216 8990
Contract 3307 Fire Training Facility (Paul Y. Construction Company Limited)	Project Manager	Ken Tang	9640 5397
	Environmental Officer	Ferddy Leung	5585 6746
Contract 3308 Foreign Object Debris Detection System (DAS Aviation Services Group)	Project Manager	Jeffrey Yau	9873 7422
Contract 3310 North Runway Modification Works (China State Construction Engineering (Hong Kong) Ltd.)	Project Manager	Kingsley Chiang	9424 8437
	Environmental Officer	Federick Wong	9842 2703

Third Runway Concourse:

Party	Position	Name	Telephone
Contract 3402 New Integrated Airport Centres Enabling Works (Wing Hing Construction Co., Ltd.)	Project Manager	Wyman Lau	6112 9753
	Health Safety Environmental Manager	Mike Leung	6625 2550

Party	Position	Name	Telephone
Contract 3403 New Integrated Airport Centres Building and Civil Works (Sun Fook Kong Construction Limited)	Project Manager	Alice Leung	9220 3162
	Environmental Officer	Ray Cheung	9785 1566
Contract 3404 Integrated Airport Control System (Shun Hing Systems Integration Co., Ltd.)	Project Manager	Andy Ng	9102 2739
	Safety Officer	Keith Chau	9620 7515
Contract 3405 Third Runway Concourse Foundation and Substructure Works (China Road and Bridge Corporation – Bachy Soletanche Group Limited – LT Sambo Co., Ltd. Joint Venture)	Project Manager	Francis Choi	9423 3469
	Environmental Officer	Jacky Lai	9028 8975
Contract 3408 Third Runway Concourse and Apron Works (Beijing Urban Construction Group Company Limited and Chevalier (Construction) Company Limited Joint Venture)	Assistant Project Manager	Qian Zhang	5377 7976
	Environmental Officer	Malcolm Leung	7073 7559

Terminal 2 (T2) Expansion:

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

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

Party	Position	Name	Telephone
Contract 3601 New Automated People Mover System (TRC Line) (CRRC Puzhen Bombardier Transportation Systems Limited and CRRC Nanjing Puzhen Co., Ltd. Joint Venture)	Project Manager	Hongdan Wei	158 6180 9450
	Environmental Officer	H Y Yue	9185 8186
Contract 3602 Existing APM System Modification Works (Niigata Transys Co., Ltd.)	Project Manager	Kunihiro Tatecho	9755 0351
	Environmental Officer	Y M Tong	5316 9801
Contract 3603 3RS Baggage Handling System (VISH Consortium)	Project Manager	K C Ho	9272 9626
	Environmental Officer	Richard Ng	9802 9577

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	John Mak	6273 8703
Contract 3728 Minor Site Works (Shun Yuen Construction Company Limited)	Contract Manager	C K Liu	9194 8739
	Environmental Officer	Dan Leung	6856 5899
Contract 3733 Emergency Repair Service (Wing Hing Construction Co., Ltd.)	Project Manager	Michael Kan	9206 0550
	Safety Health Environmental Manager	Mike Leung	6625 2550

Airport Support Infrastructure:

Party	Position	Name	Telephone
Contract 3801 APM and BHS Tunnels on Existing Airport Island (China State Construction Engineering (Hong Kong) Ltd.)	Project Manager	Kingsley Chiang	9424 8437
	Environmental Officer	Eunice Kwok	9243 1331
Contract 3802 APM and BHS Tunnels and Related Works (Gammon Engineering & Construction Company Limited)	Project Director	John Adams	6111 6989
	Environmental Officer	Phoebe Ng	9869 1105
Contract 3804 East and Landside Fire Stations (Beijing Urban Construction Group Company Limited - Beijing Urban Construction International Company Limited - Kin Shing (Leung's) General Contractors Ltd Joint Venture)	Project Manager	Mr. Zhang Xianda	4661 6818
	Environmental Officer	Ms. Kimberly Wong	5542 1669
Contract 3805 New Airport District Police Operational Base (Chinney Construction Co., Ltd.)	Project Manager	Cheuk Wing Wai	9339 8321
	Environmental Officer	Mike Li	6306 8547

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

Party	Position	Name	Telephone
Contract 3901B Concrete Batching Facility (Gammon Construction Limited)	General Manager	Gabriel Chan	2435 3260
	Environmental Officer	Rex Wong	2695 6319
Contract 3908 Quay Management Services (Gitanes – Crown Asia Joint Venture)	Project Manager	Mr. Ian Li	9750 6438
	Environmental Officer	Mr. Tang Kai Fun	9406 3526
Contract 3913 Asphalt Batching Plant (SPR Joint Venture)	Project Manager	Xie Yi Sheng	6580 6005
	Environmental Officer	Kenneth Chan	9300 2182

1.4 Summary of Construction Works

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

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

1.5 Summary of EM&A Programme Requirements

The status for all environmental aspects are presented in **Table 1.2**. The EM&A requirements remained unchanged during the reporting period.

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

Parameters	EM&A Requirements	Status
Air Quality		
Baseline Monitoring	At least 14 consecutive days before commencement of construction work	The baseline air quality monitoring result was 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 was 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 was reported in Baseline Water Quality Monitoring Report and submitted to EPD under EP Condition 3.4.

Parameters	EM&A Requirements	Status
General Impact Water Quality Monitoring for reclamation, water jetting and field joint works	Three days per week, at mid-flood and mid-ebb tides.	On-going for reclamation works. General impact water quality monitoring for water jetting works was completed on 23 May 2017.
Initial Intensive Deep Cement Mixing (DCM) Water Quality Monitoring	At least four weeks	The Initial Intensive DCM Monitoring Report was submitted and approved by EPD in accordance with the Detailed Plan on DCM.
Regular DCM Water Quality Monitoring	Three times per week until completion of DCM works.	Due to the completion of all marine-based DCM works within April 2022, regular DCM monitoring was ceased at all monitoring stations starting from 28 April 2022 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 was started from June 2021 and completed in 2022.
Details of the routine H_2S monitoring system for the sewerage system of 3RS	Details to be prepared and submitted to EPD at least one year before commencement of the operation of 3RS	The H_2S monitoring proposal was accepted by EPD in Jun 2023.
Waste Management		
Waste Monitoring	At least weekly	On-going
Land Contamination		
Supplementary Contamination Assessment Plan (CAP)	At least 3 months before commencement of any soil remediation works.	The Supplementary CAP was submitted and approved by EPD under EP Condition 2.20.
Contamination Assessment Report (CAR) for Golf Course	CAR to be submitted for golf course	The CAR for Golf Course was submitted and accepted by EPD.
Contamination Assessment Reports (CAR) for Terminal 2 Emergency Power Supply Systems	CAR to be submitted for Terminal 2 Emergency Power Supply Systems	The CARs for Terminal 2 Emergency Power Supply Systems were submitted and accepted by EPD.
Terrestrial Ecology		
Pre-construction Egretry Survey Plan	Once per month in the breeding season between April and July, prior to the commencement of HDD drilling works.	The Egretry Survey Plan was submitted and approved by EPD under EP Condition 2.14.
Ecological Monitoring	Monthly monitoring during the HDD construction works period from August to March.	The terrestrial ecological monitoring at Sheung Sha Chau was completed in January 2019.
Marine Ecology		
Pre-Construction Phase Coral Dive Survey	Prior to marine construction works	The Coral Translocation Plan was submitted and approved by EPD under EP Condition 2.12.
Coral Translocation	-	The coral translocation was completed.
Post-Translocation Coral Monitoring	As per an enhanced monitoring programme based on the Coral Translocation Plan	The post-translocation monitoring programme according to the Coral Translocation Plan was completed in April 2018.

Parameters	EM&A Requirements	Status
Chinese White Dolphins (CWD)		
Baseline Monitoring	6 months of baseline surveys before the commencement of land formation related construction works. Vessel line transect surveys: Two full surveys per month; Land-based theodolite tracking surveys: Two days per month at the Sha Chau station and two days per month at the Lung Kwu Chau station; and Passive Acoustic Monitoring (PAM): For the whole duration of baseline period.	Baseline CWD results were reported in the CWD Baseline Monitoring Report and submitted to EPD in accordance with EP Condition 3.4.
Impact Monitoring	Vessel line transect surveys: Two full surveys per month; Land-based theodolite tracking surveys: One day per month at the Sha Chau station and one day per month at the Lung Kwu Chau station; and PAM: For the whole duration for land formation related construction works.	On-going
Landscape & Visual		
Landscape & Visual Plan	At least 3 months before the commencement of construction works on the formed land of the Project.	The Landscape & Visual Plan was submitted and approved by EPD under EP Condition 2.18
Baseline Monitoring	One-off survey within the Project site boundary prior to commencement of any construction works	The baseline landscape & visual monitoring result was 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, regular environmental management meetings were conducted during the reporting period, which are summarised as below:

- Sixteen environmental management meetings for EM&A review with works contracts: 7, 8, 15, 20, 21, 28 & 29 June 2023.

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 (mg/m^3)	Limit Level (mg/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)	16 Sep 2022	Appendix D of Monthly EM&A Report No. 83

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 the Monthly EM&A Report No. 77 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 of 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 (mg/m^3)	Action Level (mg/m^3)	Limit Level (mg/m^3)
AR1A	11 - 32	306	500
AR2	8 - 23	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

Notes:
(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)	19 Mar 2023	Appendix D of Monthly EM&A Report No.87
Integrated Sound Level Meter	Rion NL-52 (Serial No. 01287679)	10 Oct 2022	Appendix D of Monthly EM&A Report No. 82
Acoustic Calibrator	Castle GA607 (Serial No. 040162)	19 Mar 2023	Appendix D of Monthly EM&A Report No.87

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 of reporting period is provided in **Appendix B**.

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

Table 3.4: Summary of Construction Noise Monitoring Results

Monitoring Station	Noise Level Range, dB(A) $L_{eq\ (30mins)}$	Limit Level, dB(A) $L_{eq\ (30mins)}$
NM1A[(1)]	56 - 63	75
NM4[(1) (3)]	63 - 66	70[(2)]
NM5[(1) (3)]	61 - 62	75
NM6[(1) (3)]	62 - 68	75

Notes:

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

(2) The limit level will be reduced to 65dB(A) during school examination periods at NM4. School examination took place from 7 to 8 June 2023 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 results.

No complaints were received from any sensitive receiver that triggered the Action Level. All monitoring results were 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 near 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 14 water quality monitoring stations, comprising 6 impact (IM) stations, 5 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		Parameters
		Easting	Northing	
C1	Control Station	804247	815620	General Parameters DO, pH, Temperature, Salinity, Turbidity, SS
C2	Control Station	806945	825682	
C3(2)	Control Station	817803	822109	
IM1(4)	Impact Station	806458	818351	
IM2(4)	Impact Station	806236	819183	
IM7(4)	Impact Station	806835	821349	
IM10(4)	Impact Station	809838	822240	
IM11(4)	Impact Station	810545	821501	
IM12(4)	Impact Station	811519	821162	
SR1A(1)	Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities (HKBCF) Seawater Intake for cooling	812660	819977	General Parameters DO, pH, Temperature, Salinity, Turbidity, SS
SR2	Planned marine park / hard corals at The Brothers / Tai Mo To	814166	821463	General Parameters DO, pH, Temperature, Salinity, Turbidity, SS
SR3	Sha Chau and Lung Kwu Chau Marine Park / fishing and spawning grounds in North Lantau	807571	822147	General Parameters DO, pH, Temperature, Salinity, Turbidity, SS
SR4A	Sha Lo Wan	807810	817189	
SR8(3)	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) The monitoring location for SR8 is subject to further changes due to silt curtain arrangements and the progressive relocation of this seawater intake.
(4) With the seawall completion and removal of enhanced open sea silt curtains, these monitoring stations were relocated back to their original locations. For IM2, there was minor adjustment of the monitoring location.

4.1 Action and Limit Levels

In accordance with the Manual, baseline water quality levels at the 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)					
General Water Quality Monitoring	DO in mg/l (Surface, Middle & Bottom)	Surface and Middle 4.5mg/l		Surface and Middle 4.1mg/l	
		Bottom 3.4mg/l		Bottom 2.7mg/l	
	Suspended Solids (SS) in mg/l	23	or 120% of upstream control station at the same tide of the same day, whichever is higher	37	or 130% of upstream control station at the same tide of the same day, whichever is higher
	Turbidity in NTU	22.6		36.1	
Action and Limit Levels SR1A					
SS (mg/l))		33		42	
Action and Limit Levels SR8					
SS (mg/l)		52		60	

Notes:

(1) For DO measurement, non-compliance occurs when monitoring result is lower than the limits.

(2) For parameters other than DO, non-compliance of water quality results when monitoring results is higher than the limits.

(3) Depth-averaged results are used unless specified otherwise.

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

Control Station	Impact Stations
Flood Tide	
C1	IM1, IM2, IM7, SR3
SR2(1)	IM7, IM10, IM11, IM12, SR1A, SR3, SR4A, SR8
Ebb Tide	
C1	SR4A
C2	IM1, IM2, IM7, IM10, IM11, IM12, SR1A, SR2, SR3, SR8

Note:

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

4.2 Monitoring Equipment

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

Table 4.4: Water Quality Monitoring Equipment

Equipment	Brand and Model	Last Calibration Date	Calibration Certificate Provided in
Multifunctional Meter (measurement of DO, pH, temperature, salinity and turbidity)	YSI ProDSS (Serial No. 15M100005)	17 Mar 2023	Appendix D of Monthly EM&A Report No. 87
	YSI ProDSS (Serial No. 21G105356)	17 Mar 2023	Appendix D of Monthly EM&A Report No. 87
	YSI ProDSS (Serial No. 16H104233)	2 Jun 2023	**Appendix D**
	YSI ProDSS (Serial No. 21K101468)	2 Jun 2023	**Appendix D**

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

Table 4.5: Other Monitoring Equipment

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

4.3 Monitoring Methodology

4.3.1 Measuring Procedure

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

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

4.3.2 Maintenance and Calibration

Calibration of In-situ Instruments

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

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

Calibration certificates of the monitoring equipment used in the reporting period are listed in **Table 4.4**.

4.3.3 Laboratory Measurement / Analysis

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

Table 4.6: Laboratory Measurement/ Analysis of SS

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

4.4 Summary of Monitoring Results

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

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

For DO, some of the testing results triggered the corresponding Action and/or Limit Levels, and investigations were conducted accordingly.

Table 4.7: Summary of DO (Bottom) Compliance Status (Mid-Ebb Tide) to **Table 4.8** present the summary of the DO compliance status at IM and SR stations during mid-ebb and mid-flood tides for the reporting period.

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

	IM1	IM2	IM7	IM10	IM11	IM12	SR2	SR3	SR4A
01-06-23									
03-06-23									
06-06-23									
08-06-23									
10-06-23									
13-06-23									
15-06-23									
17-06-23									
20-06-23									
22-06-23									
24-06-23									
27-06-23									
29-06-23	D	D							D
No. of result triggering Action or Limit Level	1	1	0	0	0	0	0	0	1

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

	IM1	IM2	IM7	IM10	IM11	IM12	SR3	SR4A
01-06-23								
03-06-23								
06-06-23								
08-06-23								
10-06-23								
13-06-23								
15-06-23								
17-06-23								
20-06-23								
22-06-23								
24-06-23								
27-06-23								
29-06-23							D	
No. of result triggering Action or Limit Level	1	1	0	0	0	0	1	1

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
D	Monitoring result triggered the Limit Level at monitoring station located downstream of the Project based on dominant tidal flow
	Upstream station with respect to the Project during the respective tide based on dominant tidal flow

Monitoring results triggered the corresponding Action and/or Limit Levels on one monitoring day. Some cases occurred at monitoring stations upstream of the Project during flood tide and were unlikely affected by the Project.

In accordance with Event and Action Plan stipulated in the Manual, EPD was informed when the corresponding Limit Level was triggered, while IEC and Contractors were informed when the corresponding Action and/or Limit Levels were triggered. Repeat in-situ measurements were conducted on 30 June 2023 according to the requirements as stipulated in the Manual.

Investigation focusing on the cases which occurred at monitoring stations located downstream of the Project was carried out. Details of the Project's marine construction activities and site observations of the concerned monitoring days were collected. Findings were summarised in **Table 4.9**.

Table 4.9: Summary of Findings from Investigation of DO 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
29/06/2023	Seawall construction	At least 1 km	Implemented	No	No	No

The investigation confirmed that seawall construction works were conducted with proper implementation of mitigation measures during the concerned monitoring day. The cases triggering the respective Action and Limit Levels at bottom level on 29 June 2023, are discussed in the following paragraphs.

For the DO results recorded at the bottom water depth during mid-ebb tide (please refer to **Table 4.7**), the DO results at the downstream stations triggered Action Level. For IM1, IM2 and SR4A, it is noted that these stations are located in the western side of the Project, which have had similar previous records of widespread low DO during wet season.

For the DO results recorded at the bottom water depth during mid-flood tide (please refer to **Table 4.8**), the DO results at the upstream stations at IM1 triggered Limit Level, and at IM2 and SR4A triggered Action Level, which might possibly suggest the presence of external factors affecting the DO concentration. For downstream station SR3, the DO result triggering the Action Level, it is noted that SR3 was the only downstream station triggering Action Level in mid-flood tide, with no proximate stations (i.e. IM7 and IM10) triggering Action Level, and the seawall construction works were undertaken more than 1 km away from the monitoring station, implying the case might be due to presence of external factors out of the project area.

No silt plume, construction vessel, spillage incident or specific observation at outfalls were observed in the vicinity when monitoring was undertaken at the monitoring stations. Therefore, the cases were considered unlikely due to the Project.

4.5 Conclusion

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

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

5 Waste Management

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

5.1 Action and Limit Levels

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

Table 5.1: Action and Limit Levels for Construction Waste

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

5.2 Waste Management Status

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

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

Based on updated contractors' information, construction waste generated in the reporting period is summarised in **Table 5.2**. The ET and IEC have carried out site audits regularly and reviewed the trip ticket system. Dedicated areas for sorting of materials are established on site. Recyclable materials such as steel bar, metal strip, aluminium, paper and plastic are sorted on-site and transported off-site for recycling during this reporting period.

Table 5.2: Construction Waste Statistics

	C&D Material Stockpiled for Reuse or Recycle[1] (m3)	C&D Material Reused in the Project (m3)	C&D Material Reused in other Projects (m3)	C&D Material Transferred to Public Fill (m3)	Chemical Waste (kg)	Chemical Waste (l)	General Refuse (tonne)
June 2023[2]	45	8,839	4,462	4,750	0	0	3,216

Notes:

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

(2) 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.

5.3 Marine Sediment Management

Marine sediment is managed according to the EIA Report, Updated EM&A Manual, Waste Management Plan and the proposal of Further Development on Treatment Level / Details and the Reuse Mode for Marine Sediment (hereinafter referred to as “Further Development Proposal”) 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 and Further Development Proposal.

Backfilling works for treated marine sediment were conducted during the reporting period. The details of the marine sediment sampling, treatment and backfilling can be referred to Annual EM&A Report No.6.

6 Chinese White Dolphin Monitoring

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

The small vessel line-transect survey should be conducted at a frequency of two full surveys per month, while land-based theodolite tracking survey should be conducted at a frequency of one day per month per station at Sha Chau (SC) and Lung Kwu Chau (LKC) during the construction phase as stipulated in the Manual.

6.1 Action and Limit Levels

The Action and Limit Levels for CWD monitoring were formulated by the action response approach using the running quarterly dolphin encounter rates STG and ANI derived from the baseline monitoring data, as presented in the CWD Baseline Monitoring Report. The derived values of Action and Limit Levels for CWD monitoring were summarised in **Table 6.1**.

Table 6.1: Derived Values of Action and Limit Levels for Chinese White Dolphin Monitoring

	NEL, NWL, AW, WL and SWL as a Whole
Action Level[3]	Running quarterly[1] STG < 1.86 & ANI < 9.35
Limit Level[3]	Two consecutive running quarterly[2] (3-month) STG < 1.86 & ANI < 9.35

Notes: (referring to the baseline monitoring report)

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

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

(3) Action Level and/or Limit Level will be triggered if both STG and ANI fall below the criteria.

6.2 CWD Monitoring Transects and Stations

6.2.1 Small Vessel Line-transect Survey

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

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

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

Waypoint	Easting	Northing	Waypoint	Easting	Northing
		NEL			
1S	813525	820900	6N	818568	824433
1N	813525	824657	7S	819532	821420
2S	814556	818449	7N	819532	824209
2N	814559	824768	8S	820451	822125
3S	815542	818807	8N	820451	823671
3N	815542	824882	9S	821504	822371
4S	816506	819480	9N	821504	823761
4N	816506	824859	10S	822513	823268
5S	817537	820220	10N	822513	824321
5N	817537	824613	11S	823477	823402
6S	818568	820735	11N	823477	824613
		NWL			
1S	804671	814577	5S	808504	821735
1N	804671	831404	5N	808504	828602
2Sb	805475	815457	6S	809490	822075
2Nb	805476	818571	6N	809490	825352
2Sa	805476	820770	7S	810499	822323
2Na	805476	830562	7N	810499	824613
3S	806464	821033	8S	811508	821839
3N	806464	829598	8N	811508	824254
4S	807518	821395	9S	812516	821356
4N	807518	829230	9N	812516	824254
		AW			
1W	804733	818205	2W	805045	816912
1E	806708	818017	2E	805960	816633
		WL			
1W	800600	805450	7W	800400	811450
1E	801760	805450	7E	802400	811450
2W	800300	806450	8W	800800	812450
2E	801750	806450	8E	802900	812450
3W	799600	807450	9W	801500	813550
3E	801500	807450	9E	803120	813550
4W	799400	808450	10W	801880	814500
4E	801430	808450	10E	803700	814500
5W	799500	809450	11W	802860	815500
5E	801300	809450	12S/11E	803750	815500
6W	799800	810450	12N	803750	818500
6E	801400	810450			
		SWL			
1S	802494	803961	6S	807467	801137
1N	802494	806174	6N	807467	808458
2S	803489	803280	7S	808553	800329
2N	803489	806720	7N	808553	807377
3S	804484	802509	8S	809547	800338
3N	804484	807048	8N	809547	807396
4S	805478	802105	9S	810542	800423
4N	805478	807556	9N	810542	807462
5S	806473	801250	10S	811446	801335
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 1, 2, 5, 8, 9, 13, 14, and 20 June 2023 covering all transects in NEL, NWL, AW, WL and SWL survey areas for twice.

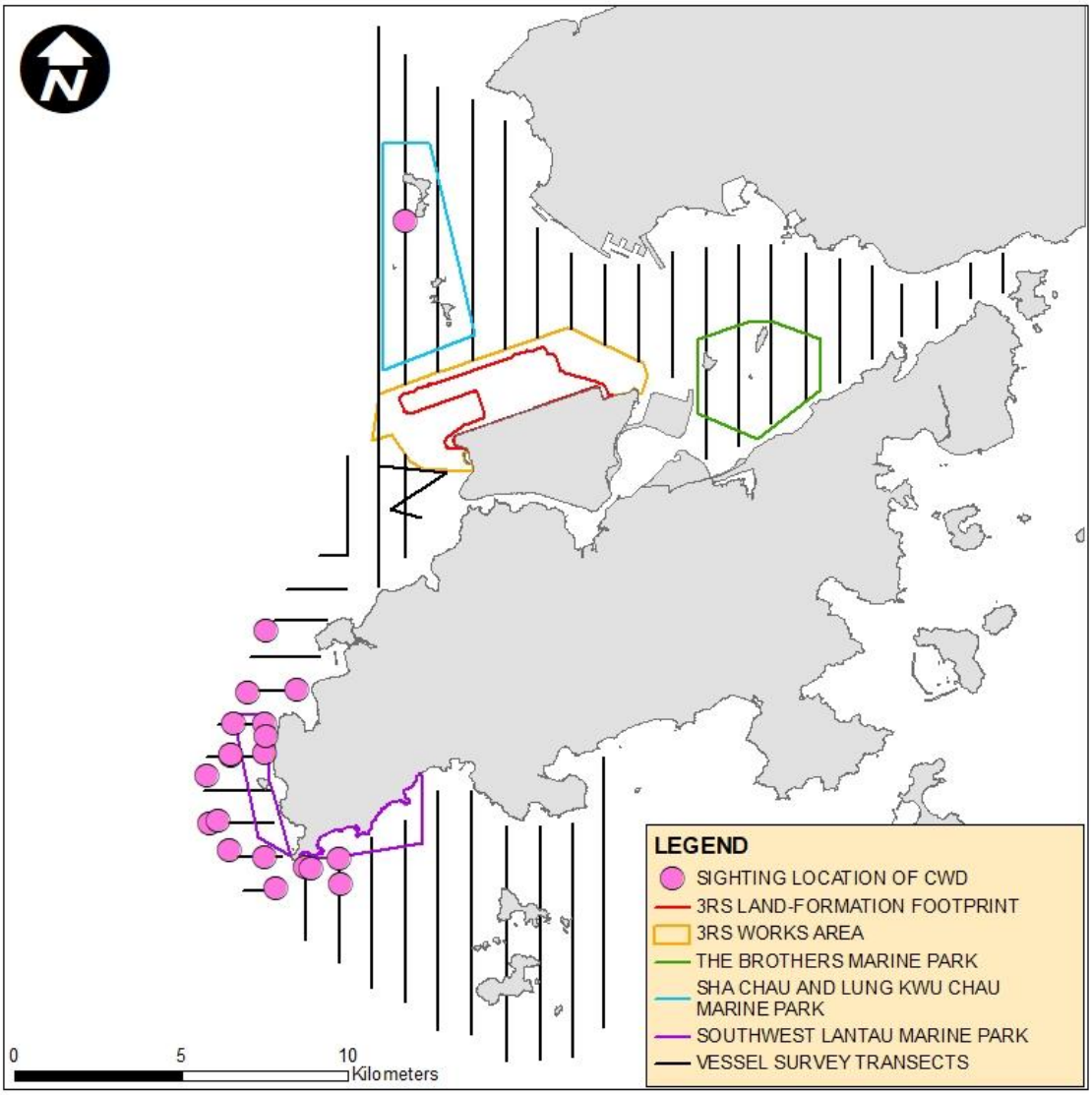
A total of around 444.46 km of survey effort was collected from these surveys and around 430.05 km of these survey effort was being conducted under favourable weather condition (i.e. Beaufort Sea State 3 or below with favourable visibility). Details of the survey effort are given in **Appendix C**.

Sighting Distribution

In the current reporting period, 20 sightings with 59 dolphins were sighted. Amongst these sightings, 19 sightings with 57 dolphins were on-effort records under favourable weather condition (i.e. Beaufort Sea State 3 or below with favourable visibility). Details of dolphin sightings are presented in **Appendix C**.

Distribution of all CWD sightings recorded in the current reporting period is illustrated in **Figure 6.3**. In WL, CWD sightings were scattered at the waters between Tai O and Fan Lau. In SWL, four CWD sightings were recorded at the waters near Fan Lau Tung Wan. In NWL, there were one sighting recorded near the southern tip of Lung Kwu Chau. There was no CWD sighting recorded in NEL survey areas during the reporting period.

Figure 6.3: Sightings Distribution of Chinese White Dolphins



Remarks: (1) Please note that there are 20 pink circles on the map indicating the sighting locations of CWDs. Some of them were very close to each other and therefore may appear overlapped on this distribution map. (2) Marine park excludes land area and the landward boundary generally follows the high water mark along the coastline.

Encounter Rate

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

Encounter Rate by Number of Dolphin Sightings (STG)

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

Encounter Rate by Number of Dolphins (ANI)

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

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

In this reporting period, a total of around 430.05 km of survey effort was conducted under Beaufort Sea State 3 or below with favourable visibility, whilst a total number of 19 on-effort sightings with 57 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 April to June 2023), a total of around 1289.93 km of survey effort was conducted under Beaufort Sea State 3 or below with favourable visibility, whilst a total number of 40 on-effort sightings and a total number of 144 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 reporting period and during the running quarter are presented in **Table 6.4** below and compared with the Action Level. Both the running quarterly encounter rate STG and ANI remain above the Action Level, and the Action Level is not triggered.

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

	Encounter Rate (STG)	Encounter Rate (ANI)
June 2023	4.42	13.25
Running Quarter from April to June 2023[(1)]	3.10	11.16
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, 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 the current reporting period, 20 groups of 59 dolphins in total were sighted, and the average group size of CWDs was 2.95 dolphins per group. The majority of the CWD sightings was having medium group size (i.e. 3-9 dolphins). There was no CWD sighting with large group size (i.e. 10 or more dolphins) recorded in the current reporting period.

Activities and Association with Fishing Boats

There were five CWD sightings recorded engaging in foraging activities in the current reporting period in NWL, WL and SWL survey areas. Amongst these five sightings, two were observed in association with operating purse seiners in WL.

Mother-calf Pair

In this reporting period, there were five sightings with the presences of mother-and-unspotted juvenile pair and these sightings were all recorded in WL.

6.4.2 Photo Identification

In the current reporting period, a total number of 28 different CWD individuals were identified for totally 32 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
NLMM001	09-Jun-23	2	WL
NLMM013	13-Jun-23	1	NWL
NLMM020	09-Jun-23	5	WL
NLMM040	02-Jun-23	3	WL
NLMM063	02-Jun-23	8	WL
SLMM003	01-Jun-23	2	SWL
SLMM007	02-Jun-23	8	WL
SLMM010	01-Jun-23	2	SWL
	09-Jun-23	5	WL
SLMM029	09-Jun-23	3	WL
SLMM037	02-Jun-23	9	WL
SLMM052	02-Jun-23	3	WL
		5	WL
SLMM070	09-Jun-23	5	WL
SLMM073	02-Jun-23	8	WL
WLMM007	01-Jun-23	2	SWL
WLMM030	02-Jun-23	8	WL
WLMM043	02-Jun-23	8	WL
WLMM062	02-Jun-23	1	WL
WLMM071	02-Jun-23	6	WL
	09-Jun-23	1	WL
WLMM077	02-Jun-23	3	WL
WLMM079	02-Jun-23	3	WL
		5	WL
WLMM086	02-Jun-23	1	WL
WLMM103	02-Jun-23	5	WL
WLMM114	09-Jun-23	5	WL
WLMM118	09-Jun-23	5	WL
WLMM147	02-Jun-23	5	WL
WLMM159	09-Jun-23	5	WL
WLMM168	09-Jun-23	1	WL
WLMM188	02-Jun-23	3	WL

6.4.3 Land-based Theodolite Tracking Survey

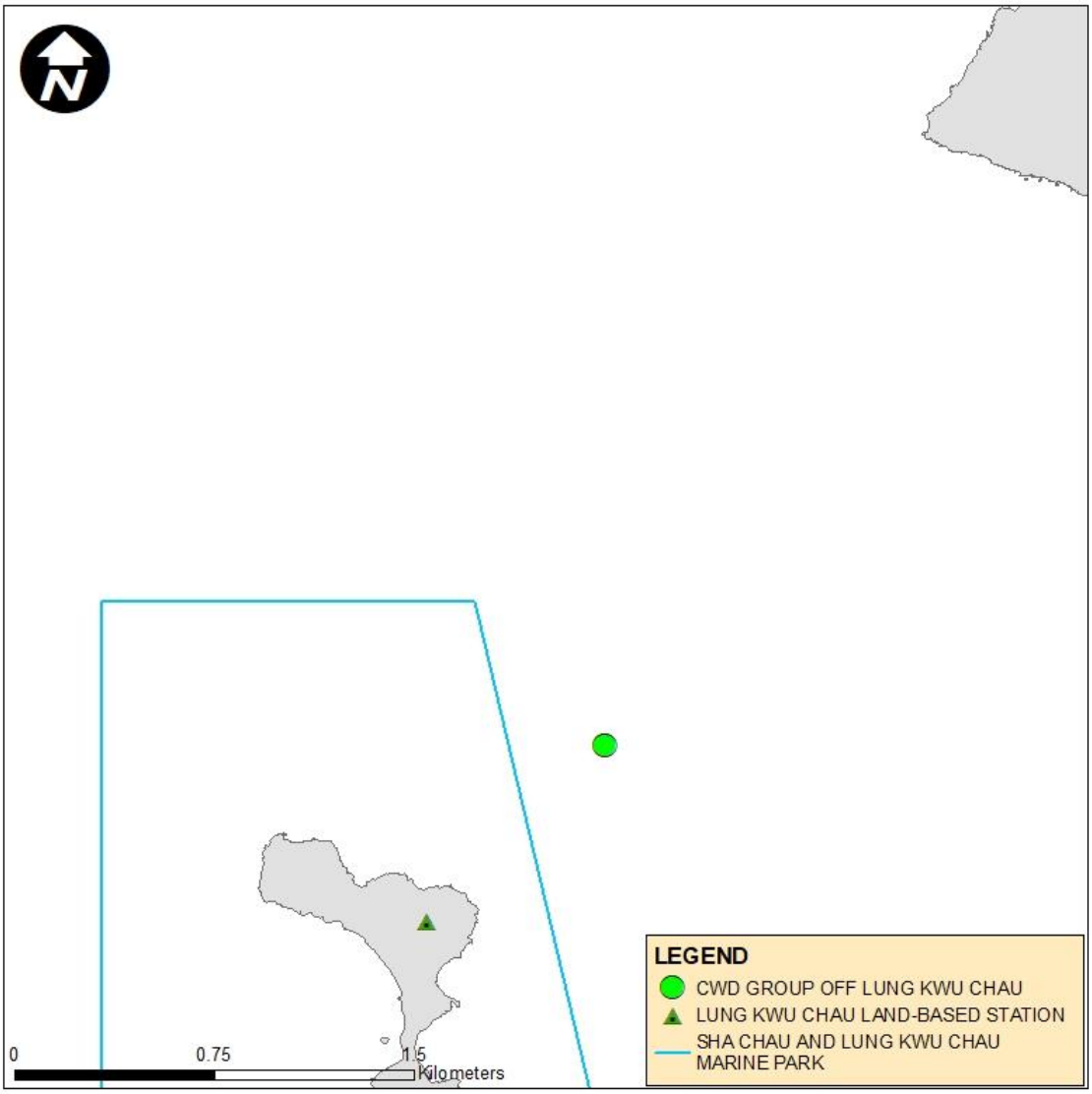
Survey Effort

Land-based theodolite tracking surveys were conducted at LKC on 19 June 2023 and at SC on 26 June 2023, with a total of two days of land-based theodolite tracking survey effort accomplished in this reporting period. One group of CWD were tracked off LKC Station while no CWD were tracked off SC 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**. The first sighting locations of CWD groups tracked at LKC station during land-based theodolite tracking survey in June 2023 were depicted in **Figure 6.4**

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

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

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



6.5 Progress Update on Passive Acoustic Monitoring

Underwater acoustic monitoring using Passive Acoustic Monitoring (PAM) should be undertaken during land formation related construction works. 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 6.4**). The F-POD was last retrieved on 23 May 2023 and the next retrieval and re-deployment is scheduled in early August.

Acoustic data would be reviewed to give an indication of CWD 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, one dolphin observation station and teams of at least two dolphin observers were deployed by the contractor for continuous monitoring of the DEZ for seawall construction works in accordance with the DEZ Plan. Trainings for the proposed dolphin observers on the implementation of DEZ monitoring were provided by the ET, with a cumulative total of 705 individuals being trained and the training records kept by the ET. From the contractors' records, no dolphin or other marine mammals were observed within or around the silt curtain during 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. 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 to audit the implementation of proper environmental pollution control and mitigation measures for the Project were conducted by ET and IEC on a weekly and bi-weekly basis, respectively. The weekly site inspection schedule of the construction works is provided in **Appendix B**. Besides, ad-hoc site inspections were also conducted by ET and IEC if environmental problems were identified, or subsequent to receipt of an environmental complaint, or as part of the investigation work. These site inspections provided a direct means to reinforce the specified environmental protection requirements and pollution control measures in construction sites.

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

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

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

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

7.2 Landscape and Visual Mitigation Measures

Implementation of applicable landscape and visual mitigation measures (reference to the environmental protection measures CM1 – CM10 and OM7 in **Appendix A**) was monitored in accordance with the Manual. All measures undertaken by both the contractor and the landscape contractor during the construction phase and first year of the operation phase shall be audited by a landscape architect, as a member of the ET, on a regular basis to ensure compliance with the intended aims of the measures. Site inspections shall be undertaken at least once every two months during the operation phase.

The implementation status of the environmental protection measures is summarized below in **Table 7.1**. Examples of landscape and visual mitigation measures are shown in **Table 7.2**. The monitoring programme for detailed design, construction, establishment works and long term management (10 years) stages is presented in **Table 7.3**. Event and Action Plan for Landscape and Visual impacts is stated in **Table 7.4**.

Table 7.1: Landscape and Visual – Construction Phase Audit Summary

Landscape and Visual Mitigation Measures during Construction	Implementation Status	Relevant Contract(s) in the Reporting Period
CM1- The construction area and contractor's temporary works areas shall be minimised to avoid impacts on adjacent landscape.	The implementation of mitigation measures was checked by ET during weekly site inspection and reported by the Contractors during the monthly Environmental Management Meetings. Implementation of the measures CM5, CM6 and CM7 by Contractors was observed.	All works contracts
CM2 – Reduction of construction period to practical minimum		
CM3 – Phasing of the construction stage to reduce visual impacts during the construction phase.		
CM4 – Construction traffic (land and sea) including construction plants, construction vessels and barges shall be kept to a practical minimum.		
CM5 – Erection of decorative mesh screens or construction hoardings around works areas in visually unobtrusive colours.		
CM6 – Avoidance of excessive height and bulk of site buildings and structures		
CM7 – Control of night-time lighting by hooding all lights and through minimisation of night working periods		
CM8 – All existing trees shall be carefully protected during construction. Detailed Tree Protection Specification shall be provided in the Contract Specification. Under this specification, the Contractor shall be required to submit, for approval, a detailed working method statement for the protection of trees prior to undertaking any works adjacent to all retained trees, including trees in contractor's works areas	Tree Protection Specifications were provided in the relevant Contract Specifications respectively for implementation by the Contractors under the Project. The Contractors' performance on the implementation of the tree maintenance and protection measures were observed and checked by the ET weekly during construction period.	3302, 3508, 3801

Landscape and Visual Mitigation Measures during Construction	Implementation Status	Relevant Contract(s) in the Reporting Period
CM9 – Trees unavoidably affected by the works shall be transplanted where practical. A detailed Tree Transplanting Specification shall be provided in the Contract Specification, if applicable. Sufficient time for necessary tree root and crown preparation periods shall be allowed in the project programme	Tree Transplanting Specifications were provided in the relevant Contract Specifications respectively for implementation by the Contractors under the Project where trees would unavoidably be affected by the construction works. The Contractors were required to submit Method Statements for tree transplanting prior to the transplanting works. Tree inspections were conducted by ET to check the tree transplanting works implemented by the Contractors on site. The Contractors' performance on the implementation of trees maintenance and protection measures on transplanted trees were observed and checked by the ET bi-monthly during the 12-month establishment period after the completion of each batch of transplanting works. Long term management of the transplanted trees was currently monitored by ET annually.	3508, 3801
SCM10 – Land formation works shall be followed with advanced hydroseeding around taxiways and runways as soon as practical	The advanced hydroseeding works around taxiways and runways were partially completed at this stage and would resume in next phase.	To be implemented
OM7- Compensatory tree planting for all felled trees shall be provided to the satisfaction of relevant Government departments. Required numbers and locations of compensatory trees shall be determined and agreed separately with Government during the Tree Felling Application process under the relevant technical circulars.(1)	The first batch of compensatory trees was planted and the bi-monthly site inspection during the 12-month establishment period commenced.	3RS Project contracts

Note:
(1) AAHK is the management and maintenance agency of the compensatory trees. Tree Felling Application is not required for 3RS project.

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

		
Erection of site hoardings around works area in unobtrusive colours (CM5)	Avoidance of excessive height and bulk of site buildings (CM6)	Control of night-time lighting using light hooding and minimisation of night working period (CM7)

		
General view of tree protection zone for retained tree (CM8)	General view of transplanted trees (CM9)	General view of compensatory tree planting (OM7)

In accordance with the Updated EM&A Manual, all existing trees shall be protected carefully during construction. Trees unavoidably affected by the works shall be transplanted where practical. In this reporting period, the cumulative total number of transplanted trees under the Project remained unchanged (i.e. 26) comparing to the previous reporting period. The cumulative total number of retained trees was reduced from 47 to 46 as one tree was found fallen.

Details of the retained trees, transplanted trees and to-be-transplanted trees under the Project are summarized in **Table 7.5**. Details of the retained trees are to be discussed in the Quarterly EM&A reports.

The first batch of compensatory trees was planted and the bi-monthly site inspection during the 12-month establishment period commenced in June 2023.

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.	Notify Contractor. Ensure remedial measures are properly implemented.	Amend working methods to prevent recurrence of non-conformity. Rectify damage and undertake additional action necessary.

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

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

Existing				
Contract	Retain (nos.)	Transplanted (nos.)		To-be-transplanted (nos.)
		Establishment Period	Maintenance Period	
3302	9	0	0	0
3503	0	0	9	0
3508	34	0	12	0
3602	0	0	0	0
3801	3	0	5	0
Grand Total	**46**	**0**	**26**	**0**

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

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	Long Term Management period Jun 2019 – May 2028	Southern Landside Petrol Filling Station	Establishment Period was completed. Next inspection will be conducted in February 2024. Photos of the last inspection in February 2023 can be referred to Table 7.7 of the Construction Phase Monthly EM&A Report No. 86.
CT1253	4 May 2018	Long Term Management period Jun 2019 – May 2028	Southern Landside Petrol Filling Station	
T835	22 Jan 2020	Long Term Management period Feb 2021 – Jan 2030	AAHK	Establishment Period was completed. Next inspection will be conducted in February 2024. Photos of the last inspection in February 2023 can be referred
T836	13 Dec 2019	Long Term Management period Feb 2021 – Jan 2030	AAHK	

Tree ID	Transplant Date	Management Stage	Management Agency	Remarks
T838	22 Jan 2020	Long Term Management period Feb 2021 – Jan 2030	AAHK	to Table 7.7 of the Construction Phase Monthly EM&A Report No. 86.
T812	21 Dec 2020	Long Term Management period Jan 2022 – Dec 2031	AAHK	Establishment Period was completed. Next inspection will be conducted in December 2023. Photos of the last inspection in December 2022 can be referred to Table 7.7 of the Construction Phase Monthly EM&A Report No.84.
T814	20 Dec 2020	Long Term Management period Jan 2022 – Dec 2031	AAHK	
T815	15 Dec 2020	Long Term Management period Jan 2022 – Dec 2031	AAHK	
T829	18 Dec 2020	Long Term Management period Jan 2022 – Dec 2031	AAHK	
T830	14 Dec 2020	Long Term Management period Jan 2022 – Dec 2031	AAHK	
T831	19 Dec 2020	Long Term Management period Jan 2022 – Dec 2031	AAHK	
T1493	6 Jul 2021	Long Term Management period Aug 2022 – Jul 2031	Contract 3508	Establishment Period was completed. Next inspection will be conducted in July 2023. Photos of the last inspection in July 2022 can be referred to Table 7.7 of the Construction Phase Monthly EM&A Report No.79.
T1494	6 Jul 2021	Long Term Management period Aug 2022 – Jul 2031	Contract 3508	
T1495	10 Jul 2021	Long Term Management period Aug 2022 – Jul 2031	Contract 3508	
T1496	5 Jul 2021	Long Term Management period Aug 2022 – Jul 2031	Contract 3508	
T1497	5 Jul 2021	Long Term Management period Aug 2022 – Jul 2031	Contract 3508	
T1498	29 Jun 2021	Long Term Management period Aug 2022 – Jul 2031	Contract 3508	
T1499	29 Jun 2021	Long Term Management period Aug 2022 – Jul 2031	Contract 3508	
T1500	30 Jun 2021	Long Term Management period Aug 2022 – Jul 2031	Contract 3508	
T1501	30 Jun 2021	Long Term Management period Aug 2022 – Jul 2031	Contract 3508	
T1502	5 Jul 2021	Long Term Management period Aug 2022 – Jul 2031	Contract 3508	
T1503	6 Jul 2021	Long Term Management period Aug 2022 – Jul 2031	Contract 3508	
T1504	24 Jun 2021	Long Term Management period Aug 2022 – Jul 2031	Contract 3508	
CT1194	4 May 2018	Long Term Management period Jun 2019 – May 2028	Southern Landside Petrol Filling Station	Establishment Period was completed. 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.

Tree ID	Transplant Date	Management Stage	Management Agency	Remarks
CT1794	3 May 2018	Long Term Management period Jun 2019 – May 2028	AsiaWorld-Expo	Establishment Period was completed. 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	Long Term Management period Jun 2019 – May 2028	AsiaWorld-Expo	Establishment Period was completed. 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.

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

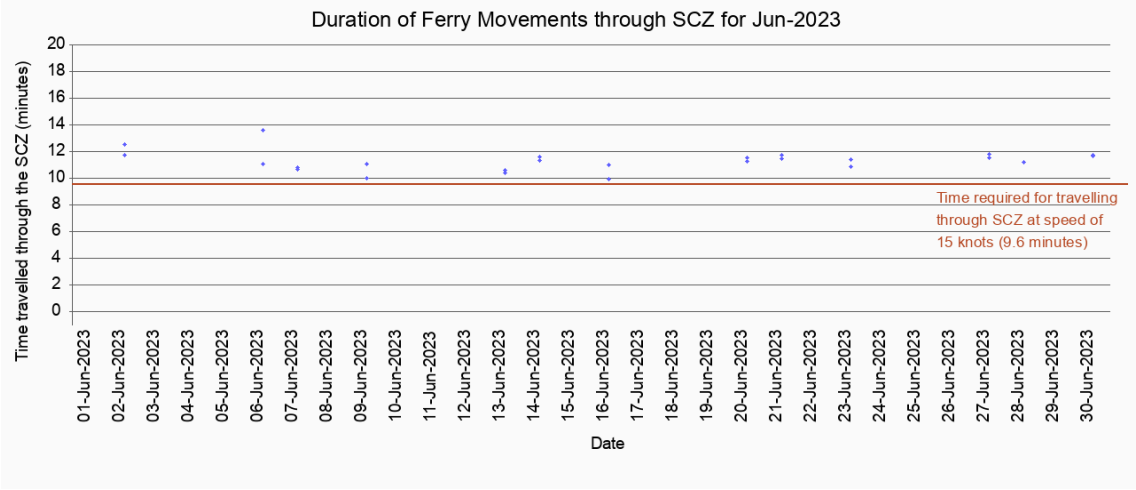
The Marine Travel Routes and Management Plan for High Speed Ferries of SkyPier (the SkyPier Plan) was submitted to the Advisory Council on the Environment for comment and subsequently submitted to and approved by EPD in November 2015 under EP Condition 2.10. The approved SkyPier Plan is available on 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 operational needs, the SkyPier HSF services to/from Zhuhai has been suspended until further notice. Key audit findings for the SkyPier HSF travelling to/from Macau against the requirements of the SkyPier Plan during the reporting period are summarised in **Table 7.7**. The daily movement of all SkyPier HSFs, including those not using the diverted route, in this reporting period (i.e., 37 to 40 daily movements) were within the maximum daily cap of 125 daily movements. Status of compliance with the annual daily average of 99 movements will be further reviewed in the Annual EM&A Report.

In total, 26 ferry movements between HKIA SkyPier and Macau were recorded in June 2023 and the data are presented in **Appendix G**. The time spent by the SkyPier HSF travelling through the SCZ in June 2023 was presented in **Figure 7.1.** It will take 9.6 minutes to travel through the SCZ

when the SkyPier HSFs adopt the maximum allowable speed of 15 knots within the SCZ. **Figure 7.1** shows that all the SkyPier HSF spent more than 9.6 minutes to travel through the SCZ.

Figure 7.1: Duration of the SkyPier HSFs travelling through the SCZ for June 2023



Note: Data above the red line indicated that the time spent by the SkyPier HSFs travelling through the SCZ is more than 9.6 minutes, which is in compliance with the SkyPier Plan.

Table 7.7: Summary of Key Audit Findings against the SkyPier Plan

Requirements in the SkyPier Plan	1 to 30 June 2023
Total number of ferry movements recorded and audited for HSF to/from Macau	26
Use diverted route and enter / leave SCZ through Gate Access Points	0 deviation
Speed control in speed control zone	The average speed of all HSFs travelling through the SCZ ranged from 10.9 to 13.7 knots. All HSFs had travelled through the SCZ with average speed under 15 knots in compliance with the SkyPier Plan. The time used by HSFs to travel through SCZ is presented in **Figure 7.1**.
A maximum daily cap of 125 movements for all SkyPier HSFs including those not using diverted route	37 to 40 daily movements

7.5 Audit of Construction and Associated Vessels

The updated MTRMP-CAV was approved by EPD on 31 May 2022 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:

- 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 within the works area, entering from non-designated gates and entering no entry zone 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 ET checked the contractors' dolphin sighting record and relevant records to audit the implementation of DEZ and there was no finding.

During the reporting period, there was no dolphin sighting within the 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 7.8**.

Table 7.8: Status of Submissions under Environmental Permit

EP Condition	Submission	Status
2.1	Complaint Management Plan	Accepted / approved by EPD
2.4	Management Organizations	
2.5	Construction Works Schedule and Location Plans	
2.7	Marine Park Proposal	
2.8	Marine Ecology Conservation Plan	
2.9	Marine Travel Routes and Management Plan for Construction and Associated Vessels	
2.10	Marine Travel Routes and Management Plan for High Speed Ferries of SkyPier	
2.11	Marine Mammal Watching Plan	
2.12	Coral Translocation Plan	
2.13	Fisheries Management Plan	
2.14	Egretry Survey Plan	
2.15	Silt Curtain Deployment Plan	
2.16	Spill Response Plan	
2.17	Detailed Plan on Deep Cement Mixing	
2.18	Landscape & Visual Plan	
2.19	Waste Management Plan	
2.20	Supplementary Contamination Assessment Plan	
3.1	Updated EM&A Manual	
3.4	Baseline Monitoring Reports	

7.8 Compliance with Other Statutory Environmental Requirements

During the reporting period, environmental related licenses and permits required for the construction activities were checked. No non-compliance with environmental statutory requirements was recorded. The latest statuses of the environmental licenses and permits 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

A complaint regarding noise nuisance from demolition works at Terminal 2 area next to the taxi station was received on 9 June 2023. The case was investigated by ET in accordance with the Manual and the Complaint Management Plan of the Project. The ET requested the relevant contractor to provide information regarding the complaint. According to the information received, bridge demolition works were scheduled on weekdays, i.e. Monday to Saturday from 08:00 to 18:00 hours and were not conducted during restricted hours. The relevant contractor reviewed their noise control measures and provided noise mitigation measures. Nevertheless, the relevant contractor was reminded to keep on review and continuously implement their enhanced noise mitigation measures. Hence, the case was considered closed.

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:

Contract 3206 Main Reclamation Works

- Filling materials delivery.

Airfield Works

Contract 3302 Eastern Vehicular Tunnel Advance Works

- Construction of tunnel structure;
- Pipe and drainage diversion works;
- Utilities and backfilling works; and
- Stockpiling.

Contract 3305 Airfield Ground Lighting System

- Enhanced vehicular warning light hardware installation;
- Power supply system installation;
- Rectification work for airfield ground lighting system; and
- Cable containment installation.

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

- Equipment installation.

Contract 3308 Foreign Object Debris Detection System

- Rectification work for handover sensor system.

Contract 3310 North Runway Modification Works

- Architectural, builder's work and finishing works;
- Seawall construction;
- Construction of stormwater drainage;
- Piling works;
- Aviation fuel pipe works;
- Pipe pile works;
- Construction of box culvert; and
- Land improvement works (Transition layer and backfilling works).

Third Runway Concourse:

Contract 3403 New Integrated Airport Centres Building and Civil Works

- Trench backfilling works; and
- Electrical and mechanical works.

Contract 3404 Integrated Airport Control System

- System maintenance.

Contract 3405 Third Runway Concourse Foundation and Substructure Works

- Structure works;
- Setup of temporary drainage system; and

- Road formation.

Contract 3408 Third Runway Concourse and Apron Works

- Building services and architectural, builder's work and finishing works;
- Foundation works for concrete batching plant; and
- Excavation and reinforced concrete works.

Terminal 2 Expansion:

Contract 3508 Terminal 2 Expansion Works

- Bridge demolition;
- Pier and temporary road construction;
- Pump station and electrical station works; and
- Architectural, builder's work and finishing works.

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

Contract 3601 New Automated People Mover System (TRC Line)

- Guide beam installation.

Contract 3602 Existing APM System Modification Works

- Defect rectification work; and
- Concrete plinth construction.

Contract 3603 Baggage Handling System (BHS)

- BHS installation; and
- Steel work installation.

Construction Support (Facilities):

Contract 3721 Construction Support Infrastructure Works

- Provision of backup services.

Airport Support Infrastructure:

Contract 3801 APM and BHS Tunnels on Existing Airport Island

- Backfilling works;
- Rebar fixing and preparation works for underground utility installation; and
- Coring works at bulkhead wall.

Contract 3802 APM and BHS Tunnels and Related Works

- Excavation and lateral supports;
- Box culvert construction;
- Tunnel construction; and
- Electrical and mechanical works.

Contract 3804 East and Landside Fire Stations

- Site setup and formation works;
- Bored pile works;
- Excavation; and
- Interface coring works for completed bored pile.

Contract 3805 New Airport District Police Operational Base

- Bored pile works; and
- Construction of temporary working platform.

Construction Support (Services / Licences):

Contract 3901A Concrete Batching Facility

- Operation of concrete batching plant and material conveyor belt.

Contract 3901B Concrete Batching Facility

- Operation of concrete batching plant and material conveyor belt.

Contract 3908 Quay Management Services

- Provision of services of site management and logistic control of 3RS quays; and
- Provision of flat top barge and vehicle delivery services between the launching point in Hong Kong and 3RS quays.

Contract 3913 Asphalt Batching Plant

- Operation of asphalt batching plant.

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;
- DEZ monitoring for seawall construction;
- Implementation of MMWP for silt curtain deployment;
- Sorting, recycling, storage and disposal of general refuse and construction waste;
- Reuse of treated marine sediments from piling and excavation works; and
- Management of chemicals and avoidance of oil spillage on-site.

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

8.3 Monitoring Schedule for the Coming Reporting Period

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

8.4 Review of the Key Assumptions Adopted in the EIA Report

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

9 Conclusion and Recommendation

The key activities of the Project carried out in the reporting period are located in reclamation areas and existing airport island respectively. Works in the reclamation areas included seawall construction, land improvement works and filling together with taxiways, concourse and associated works. Land-based works on existing airport island involved mainly airfield works, Terminal 2 expansion works, modification and tunnel work for Automated People Mover (APM) and Baggage Handling System (BHS), and preparation work for utilities, with activities include road and drainage works, cable ducting, demolition, piling, and excavation works. All the monitoring works for construction dust, construction noise, water quality, construction waste, landscape & visual, and CWD were conducted during the reporting period in accordance with the Manual.

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 DO, 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 were conducted for the DO results triggering the relevant Action and Limit Levels and the investigation findings concluded that the cases were not related to the Project. To conclude, the construction activities during 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, the daily movements of all SkyPier HSFs in the reporting period, including those not using the diverted route, were in the range of 37 to 40 daily movements, which are within the maximum daily cap of 125 daily movements. A total of 26 HSFs movements under the SkyPier Plan were recorded in the reporting period. The average speed of all HSFs travelling through the SCZ ranged from 10.9 to 13.7 knots. All HSFs travelled through the SCZ with average speed under 15 knots in compliance with the SkyPier Plan. In summary, the ET and IEC audited the HSF movements against the SkyPier Plan and conducted follow up investigations or actions accordingly.

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. Deviations including speeding within the works area, entering from non-designated gates and entering no entry zone were reviewed by ET. All the concerned captains were reminded by the contractor's CTCC representative to comply with the requirements of the MTRMP-CAV. The ET reminded contractors that all vessels shall avoid entering the no-entry zone, in particular the Brothers Marine Park and the Sha Chau & Lung Kwu Chau Marine Park. Three-month rolling programmes for construction vessel activities, which ensures the proposed vessels are necessary and minimal through good planning, were also received from contractors.

Figures

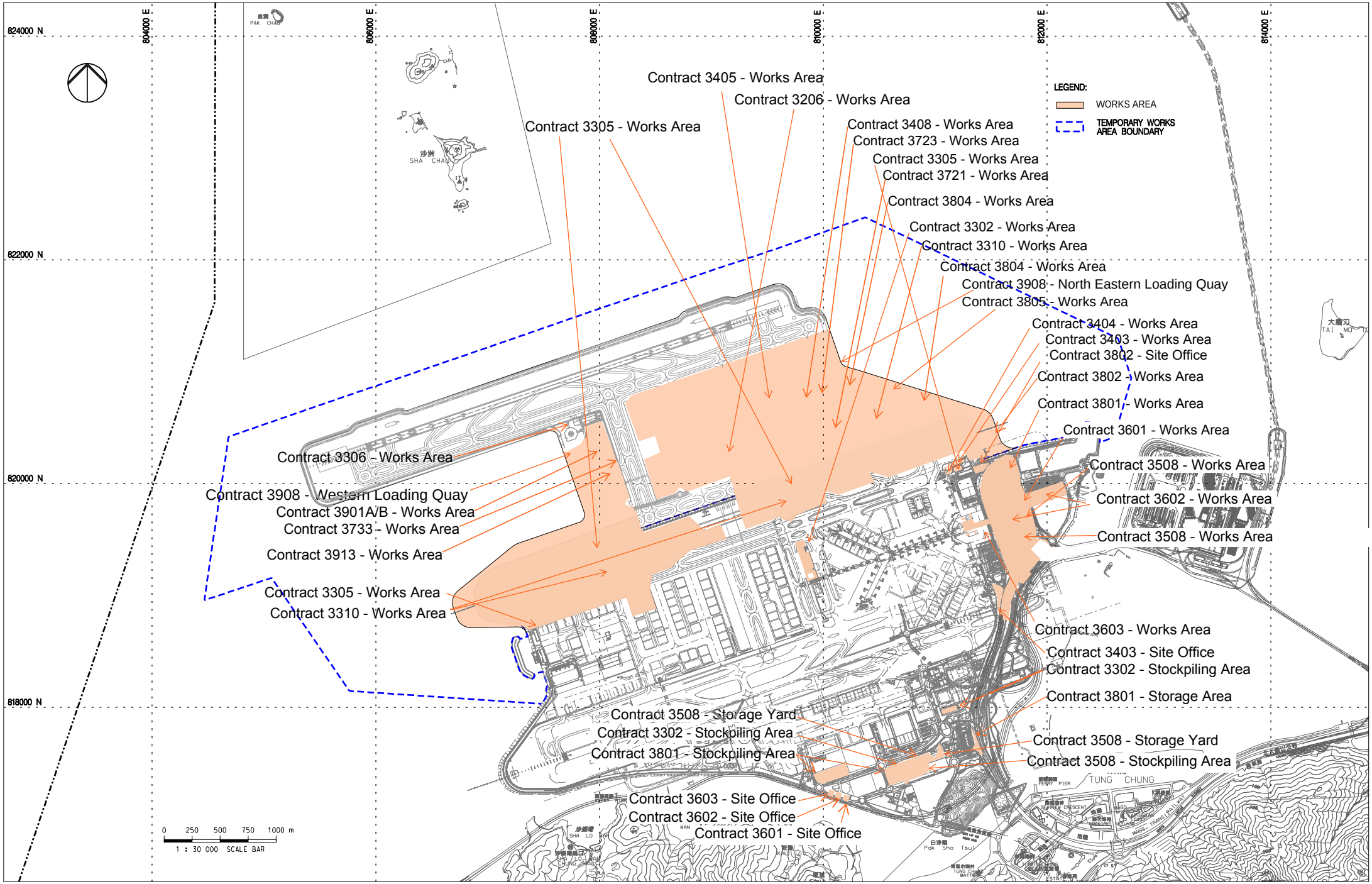
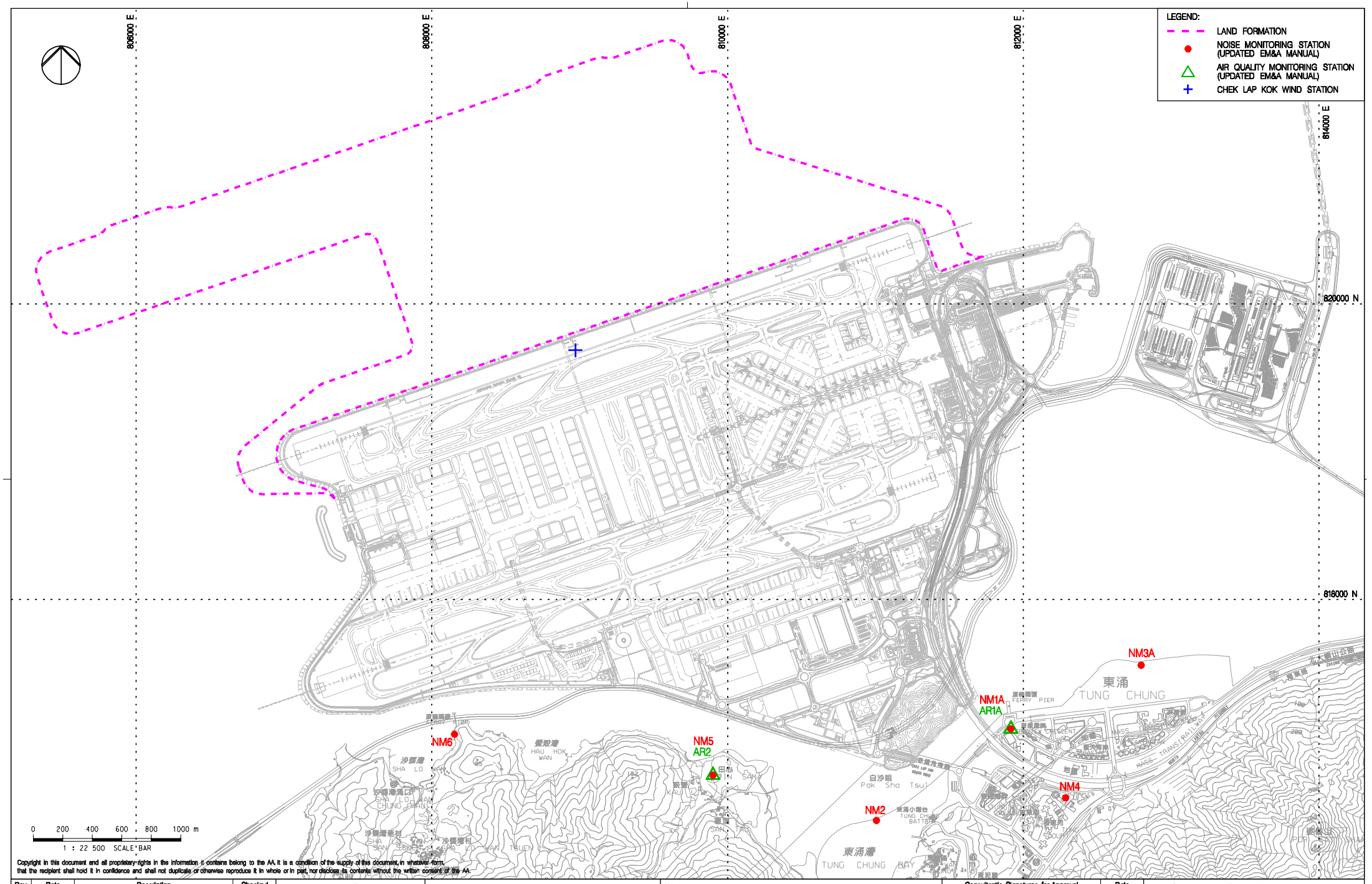


FIGURE 1.1 LOCATIONS OF KEY CONSTRUCTION ACTIVITIES

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



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

香港國際機場 HONG KONG INTERNATIONAL AIRPORT

MOTT MACDONALD

Title

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

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

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

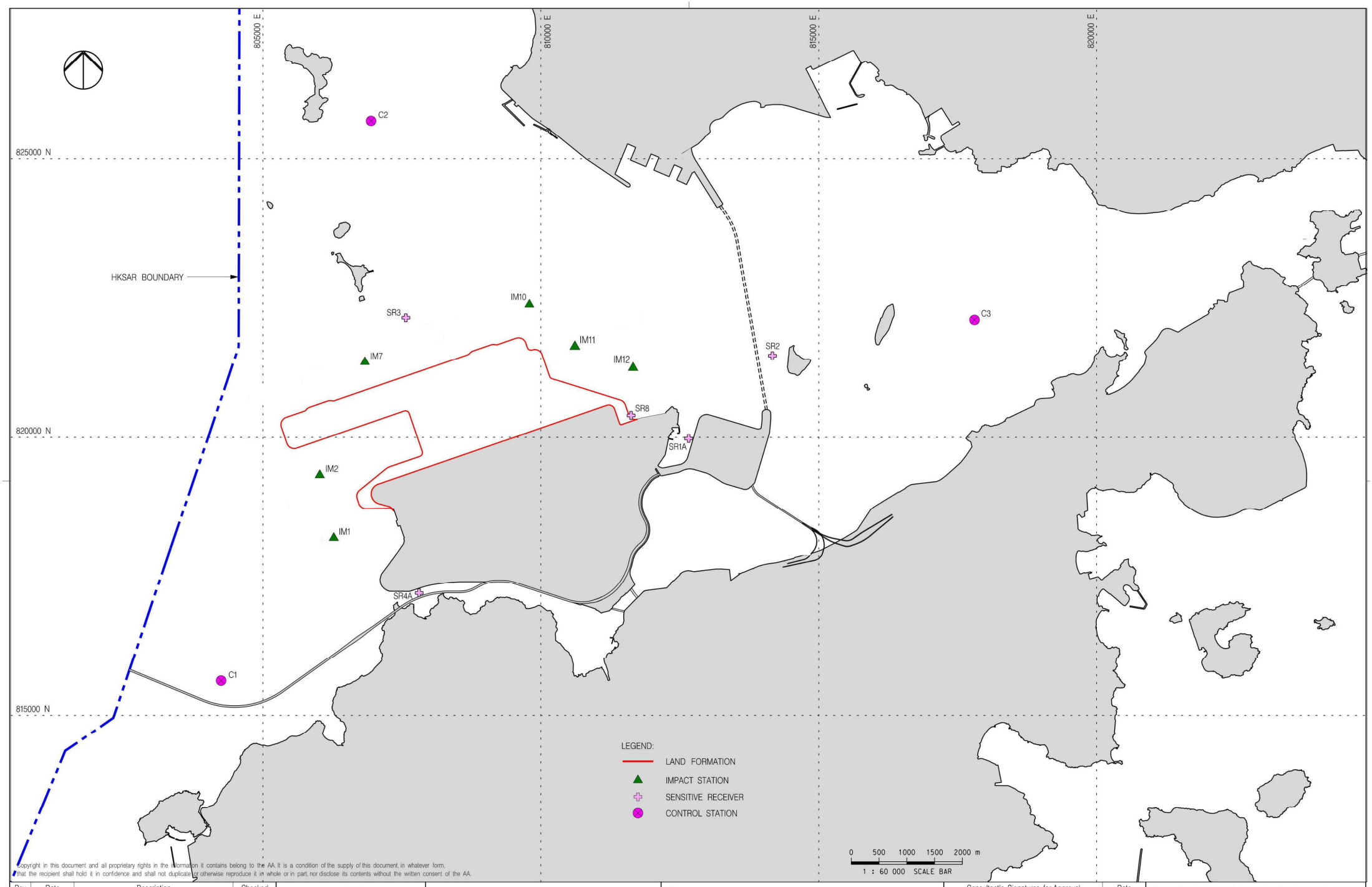
Drawing No.

FIGURE 2.1

Scale at A3 1 : 22500

Rev. D

Filename: J:\355482\REPORT\ENV\EMA\181029\FIG 2.1.dgn



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A	21AUG19	FIRST ISSUE	VL

香港國際機場 HONG KONG INTERNATIONAL AIRPORT

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Title

WATER QUALITY MONITORING STATIONS

Consultant's Signatures for Approval		Date
Design	DC	21AUG19
Checkers	DC / TK	21AUG19
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EXPANSION OF HONG KONG INTERNATIONAL AIRPORT INTO A THREE-RUNWAY SYSTEM

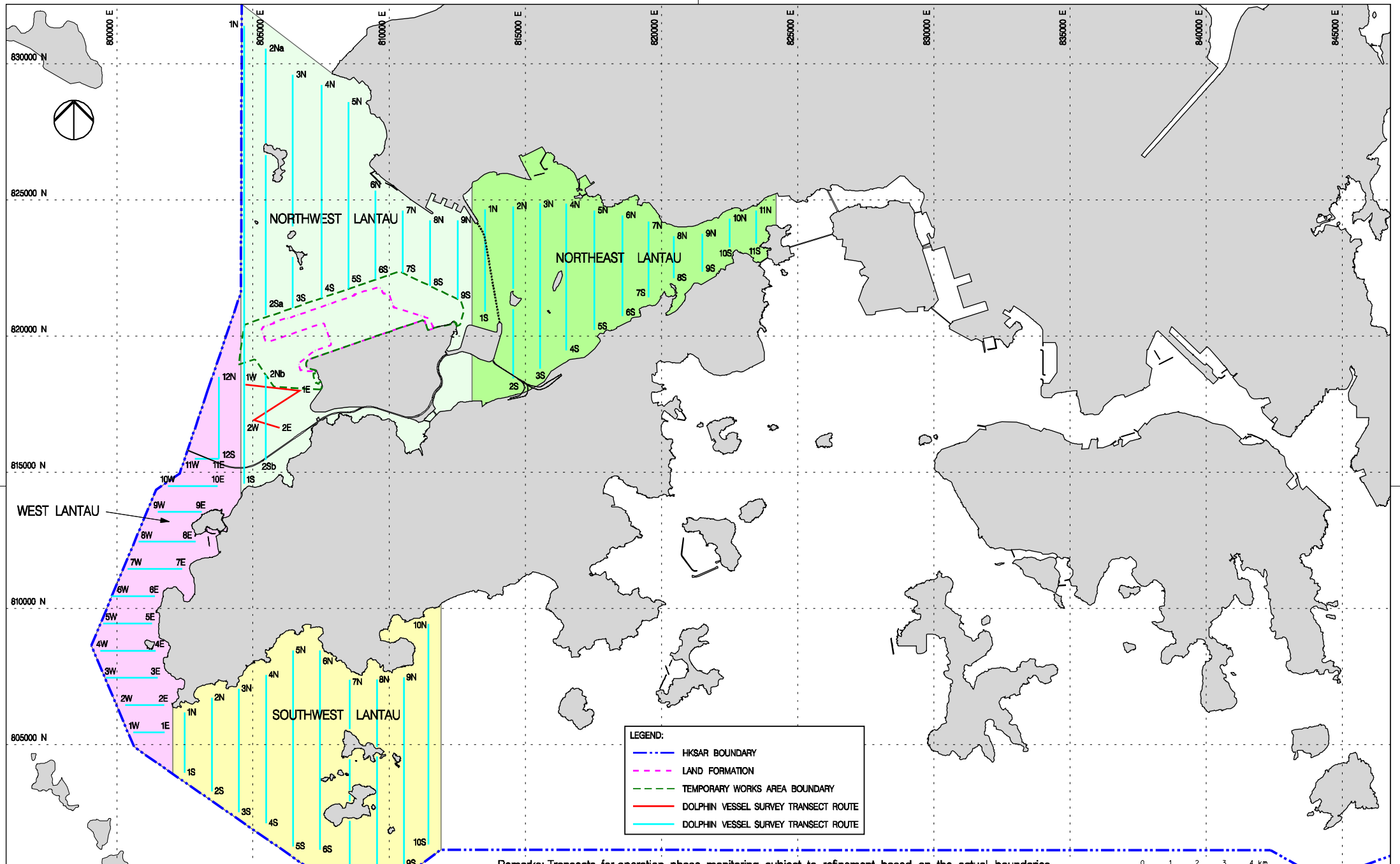
Drawing No.

FIGURE 4.1

Scale at A3 1 : 60000

Rev. A

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



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

Rev.	Date	Description	Checked
B	27JUL16	GENERAL REVISION	JT
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E	29OCT18	GENERAL REVISION	SH
F	04APR19	GENERAL REVISION	SH

香港國際機場 HONG KONG INTERNATIONAL AIRPORT

MOTT MACDONALD

Title

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

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

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

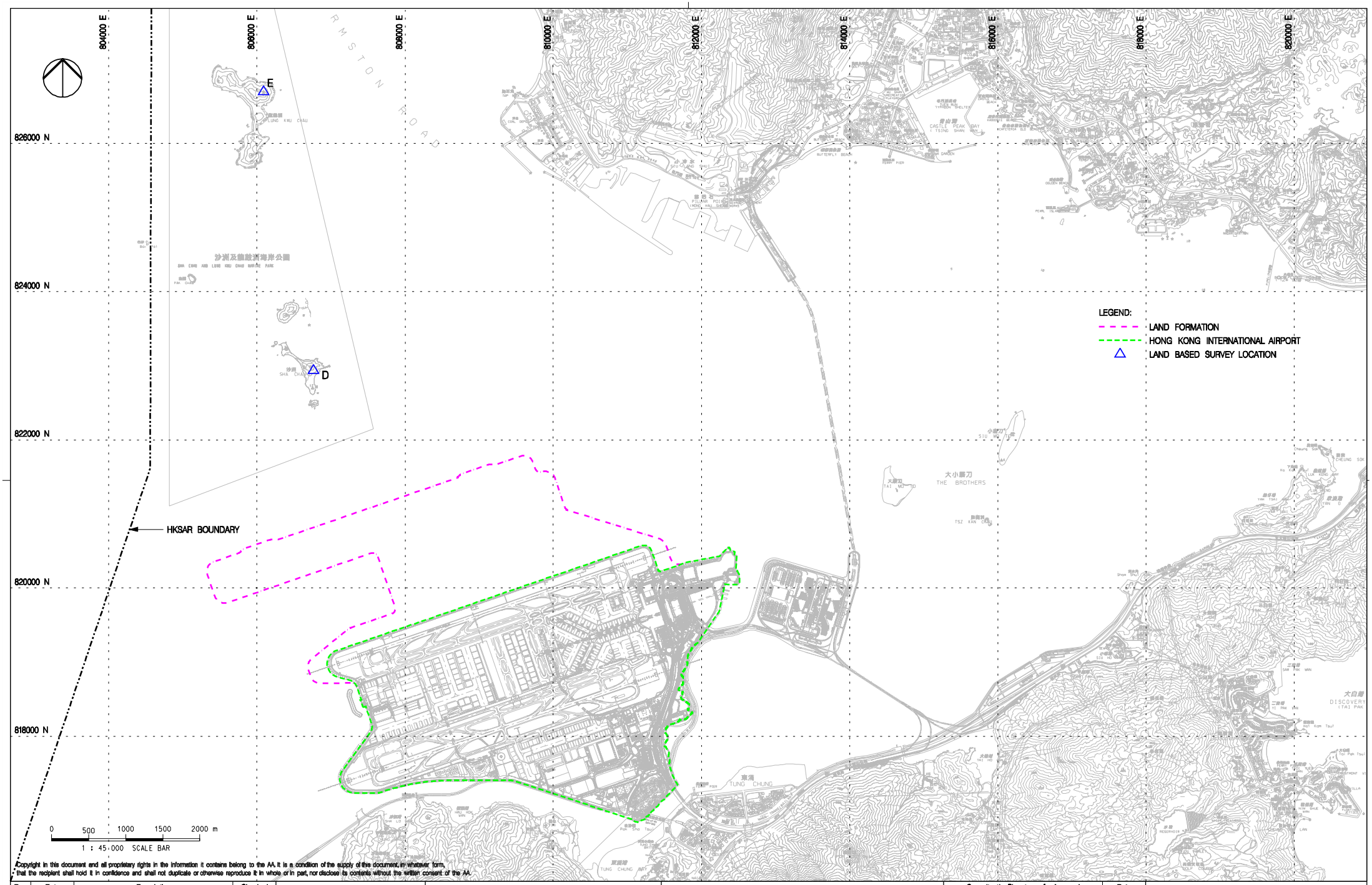
Drawing No.

FIGURE 6.1

Scale at A3 1 : 125000

Rev. F

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



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A	02DEC15	FIRST ISSUE	JC
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C	29OCT18	GENERAL REVISION	SH

香港國際機場 HONG KONG INTERNATIONAL AIRPORT

MOTT MACDONALD

Title

LAND BASED DOLPHIN MONITORING IN BASELINE AND CONSTRUCTION PHASES

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

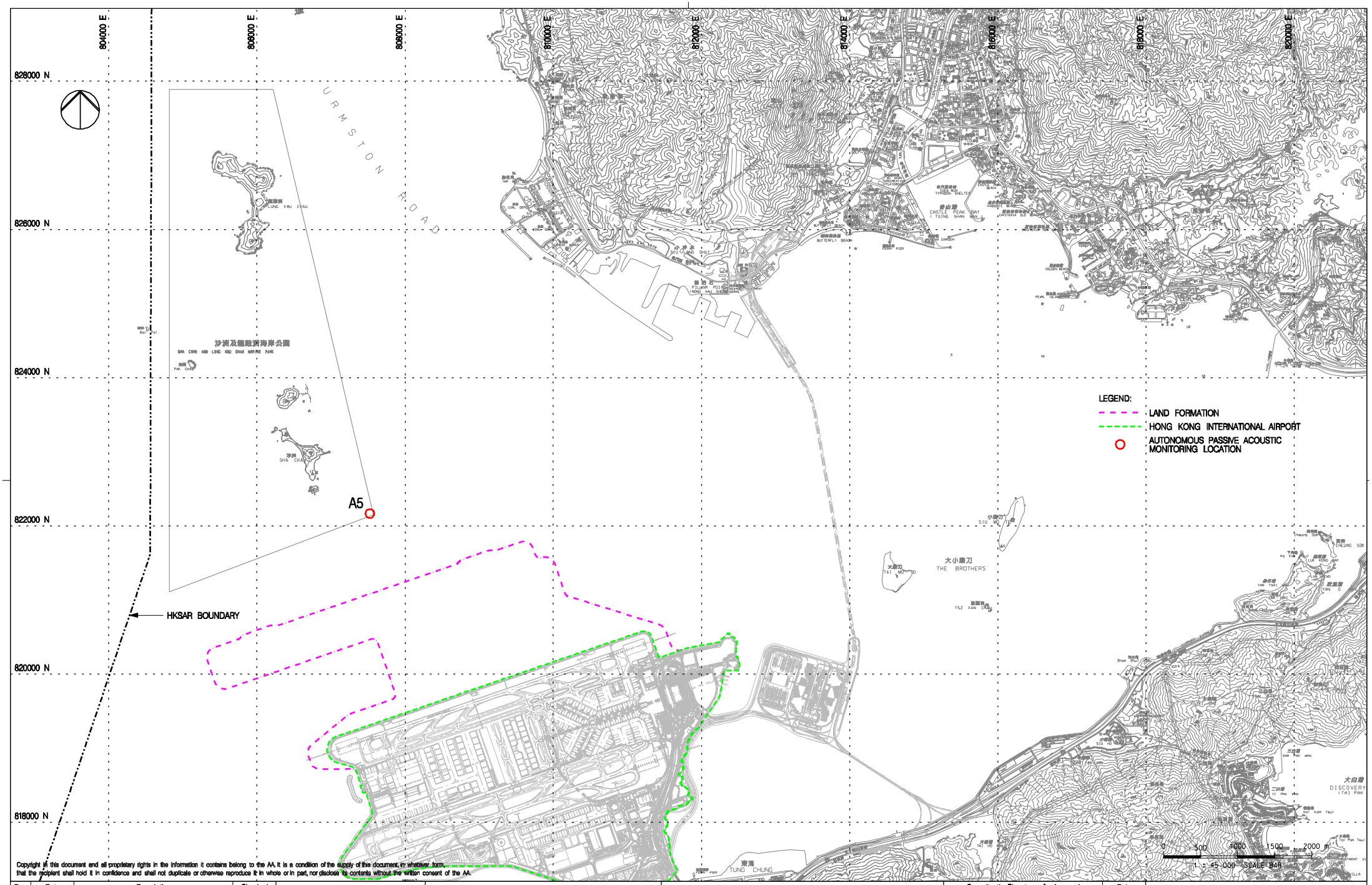
EXPANSION OF HONG KONG INTERNATIONAL AIRPORT INTO A THREE-RUNWAY SYSTEM

Drawing No. FIGURE 6.2

Scale at A3 1 : 45000

Rev. C

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



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A	29AUG17	FIRST ISSUE	JT
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C	29OCT18	GENERAL REVISION	SH

香港國際機場 HONG KONG INTERNATIONAL AIRPORT

MOTT MACDONALD

Title

LOCATION FOR AUTONOMOUS PASSIVE ACOUSTIC MONITORING

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

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

Drawing No.

FIGURE 6.4

Scale at A3: 1 : 45000

Rev. C

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

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

Environmental Mitigation Implementation Schedule (EMIS) for Construction Phase

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

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

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

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

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

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			▪ Appropriate control measures shall be adopted in order to meet the required bitumen emission limit as well as the ambient odour level (2 odour units).		
			Material transportation ▪ The loading, unloading, handling, transfer or storage of other raw materials which may generate airborne dust emissions such as crushed rocks, sands, stone aggregates, reject fines, shall be carried out in such a manner as to minimize dust emissions; ▪ Roadways from the entrance of the plant to the product loading points and/or any other working areas where there are regular movements of vehicles shall be paved or hard surfaced; and ▪ Haul roads inside the Works shall be adequately wetted with water and/or chemical suppressants by water trucks or water sprayers.	Within Concrete Batching Plant / Duration of the construction phase	I
			Control of emissions from bitumen decanting ▪ The heating temperature of the particular bitumen type and grade shall not exceed the corresponding temperature limit of the same type listed in Appendix 1 of the Guidance Note; ▪ Tamper-free high temperature cut-off device shall be provided to shut off the fuel supply or electricity in case the upper limit for bitumen temperature is reached; ▪ Proper chimney for the discharge of bitumen fumes shall be provided at high level; ▪ The emission of bitumen fumes shall not exceed the required emission limit; and ▪ The air-to-fuel ratio shall be properly controlled to allow complete combustion of the fuel. The fuel burners, if any, shall be maintained properly and free from carbon deposits in the burner nozzles.	Within Concrete Batching Plant / Duration of the construction phase	I
			Liquid fuel ▪ The receipt, handling and storage of liquid fuel shall be carried out so as to prevent the release of emissions of organic vapours and/or other noxious and offensive emissions to the air.	Within Concrete Batching Plant / Duration of the construction phase	I
			Housekeeping ▪ A high standard of housekeeping shall be maintained. Waste material, spillage and scattered piles gathered beneath belt conveyors, inside and around enclosures shall be cleared frequently. The minimum clearing frequency is on a weekly basis.	Within Concrete Batching Plant / Duration of the construction phase	I
5.2.6.7	2.1	-	**Best Practices for Rock Crushing Plants** The relevant best practices for dust control as stipulated in the Guidance Note on the Best Practicable Means for Mineral Works (Stone Crushing Plant) BPM 11/1 (95) as well as in the future Specified Process licence should be adopted. These include: Crushers	Within Concrete Batching Plant / Duration of the construction phase	N/A as there was no rock crushing plant at this stage

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			▪ The outlet of all primary crushers, and both inlet and outlet of all secondary and tertiary crushers, if not installed inside a reasonably dust tight housing, shall be enclosed and ducted to a dust extraction and collection system such as a fabric filter; ▪ The inlet hopper of the primary crushers shall be enclosed on top and 3 sides to contain the emissions during dumping of rocks from trucks. The rock while still on the trucks shall be wetted before dumping; ▪ Water sprayers shall be installed and operated in strategic locations at the feeding inlet of crushers; and ▪ Crusher enclosures shall be rigid and be fitted with self-closing doors and close-fitting entrances and exits. Where conveyors pass through the crusher enclosures, flexible covers shall be installed at entries and exits of the conveyors to the enclosure.		
			Vibratory screens and grizzlies ▪ All vibratory screens shall be totally enclosed in a housing. Screenhouses shall be rigid and reasonably dust tight with self-closing doors or close-fitted entrances and exits for access. Where conveyors pass through the screenhouse, flexible covers shall be installed at entries and exits of the conveyors to the housing. Where containment of dust within the screenhouse structure is not successful then a dust extraction and collection system shall be provided; and ▪ All grizzlies shall be enclosed on top and 3 sides and sufficient water sprayers shall be installed at their feeding and outlet areas.	Within Concrete Batching Plant / Duration of the construction phase	N/A as there was no rock crushing plant at this stage
			Belt conveyors ▪ Except for those conveyors which are placed within a totally enclosed structure such as a screenhouse or those erected at the ground level, all conveyors shall be totally enclosed with windshield on top and 2 sides; ▪ Effective belt scraper such as the pre-cleaner blades made by hard wearing materials and provided with pneumatic tensioner, or equivalent device, shall be installed at the head pulley of designated conveyor as required to dislodge fine dust particles that may adhere to the belt surface and to reduce carry-back of fine materials on the return belt. Bottom plates shall also be provided for the conveyor unless it has been demonstrated that the corresponding belt scraper is effective and well maintained to prevent falling material from the return belt; and Except for those transfer points which are placed within a totally enclosed structure such as a screenhouse, all transfer points to and from conveyors shall be enclosed. Where containment of dust within the enclosure is not successful, then water sprayers shall be provided. Openings for any enclosed structure for the passage of conveyors shall be fitted with flexible seals.	Within Concrete Batching Plant / Duration of the construction phase	N/A as there was no rock crushing plant at this stage
			Storage piles and bins ▪ Where practicable, free falling transfer points from conveyors to stockpiles shall be fitted with flexible curtains or be enclosed with chutes designed to minimize the drop height. Water sprays shall also be used where required.	Within Concrete Batching Plant / Duration of the construction phase	N/A as there was no rock crushing plant at this stage

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

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
7.5.6	4.3	-	**Adoption of QPME** ▪ QPME should be adopted as far as applicable.	Within the Project site / During construction phase / Prior to commencement of operation	I
7.5.6	4.3	-	**Use of Movable Noise Barriers** ▪ Movable noise barriers should be placed along the active works area and mobile plants to block the direct line of sight between PME and the NSRs.	Within the Project site / During construction phase / Prior to commencement of operation	I
7.5.6	4.3	-	**Use of Noise Enclosure/ Acoustic Shed** ▪ Noise enclosure or acoustic shed should be used to cover stationary PME such as air compressor and generator.	Within the Project site / During construction phase / Prior to commencement of operation	I
			Water Quality Impact – Construction Phase		
8.8.1.2 and 8.8.1.3	5.1	2.26	**Marine Construction Activities** <u>General Measures to be Applied to All Works Areas</u> ▪ Barges or hoppers shall not be filled to a level which will cause overflow of materials or pollution of water during loading or transportation; ▪ Use of Lean Material Overboard (LMOB) systems shall be prohibited; ▪ Excess materials shall be cleaned from the decks and exposed fittings of barges and hopper dredgers before the vessels are moved; ▪ Plants should not be operated with leaking pipes and any pipe leakages shall be repaired quickly; ▪ Adequate freeboard shall be maintained on barges to reduce the likelihood of decks being washed by wave action; ▪ All vessels shall be sized such that adequate clearance is maintained between vessels and the seabed at all states of the tide to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash; ▪ The works shall not cause foam, oil, grease, litter or other objectionable matter to be present in the water within and adjacent to the works site; and ▪ For ground improvement activities including DCM, the wash water from cleaning of the drilling shaft should be appropriately treated before discharge. The Contractor should ensure the wastewater meets the WPCO/TM requirements before discharge. No direct discharge of contaminated water is permitted.	Within construction site / Duration of the construction phase	I

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			Specific Measures to be Applied to All Works Areas ▪ The daily maximum production rates shall not exceed those assumed in the water quality assessment in the EIA report; ▪ A maximum of 10 % fines content to be adopted for sand blanket and 20 % fines content for marine filling below +2.5 mPD prior to substantial completion of seawall (until end of Year 2017) shall be specified in the works contract document;	Within construction site / Duration of the construction phase	C – Marine filling works completed in March 2023
			▪ An advance seawall of at least 200m to be constructed (comprising either rows of contiguous permanent steel cells completed above high tide mark or partially completed seawalls with rock core to high tide mark and filter layer on the inner side) prior to commencement of marine filling activities;		C – Completed in May 2018
			▪ Closed grab dredger shall be used to excavate marine sediment; ▪ Silt curtains surrounding the closed grab dredger shall be deployed in accordance with the Silt Curtain Deployment Plan; and		C – Marine filling works completed in March 2023 (The arrangement of silt curtain has been modified. The details can be referred to Silt Curtain Deployment Plan)
			▪ The Silt Curtain Deployment Plan shall be implemented.		I – For C7a and localised silt curtains (All enhanced silt curtain removed since March 2023)
			Specific Measures to be Applied to Land Formation Activities prior to Commencement of Marine Filling Works ▪ Double layer 'Type III' silt curtains to be applied around the active eastern works areas prior to commencement of sand blanket laying activities. The silt curtains shall be configured to minimise SS release during ebb tides. A silt curtain efficiency test shall be conducted to validate the performance of the silt curtains;	Within construction site / Duration of the construction phase	C – Marine filling works completed in March 2023 (The arrangement of silt curtain has been modified. The details can be referred to Silt Curtain Deployment Plan)
			▪ Double layer silt curtains to enclose WSRs C7a and silt screens installed at the intake points for both WSR C7a and C8 prior to commencement of construction; and		I – For C7a C – Completed in Dec 2021 for C8

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
					*(The requirement of silt curtain / screen has been modified. The details can be referred to Silt Curtain Deployment Plan)
			▪ The silt curtains and silt screens should be regularly checked and maintained.		I – For C7a and localised silt curtains (All enhanced silt curtain removed since March 2023)
			<u>Specific Measures to be Applied to Land Formation Activities during Marine Filling Works</u> ▪ Double layer 'Type II' or 'Type III' silt curtains to be applied around the eastern openings between partially completed seawalls prior to commencement of marine filling activities. The silt curtains shall be configured to minimise SS release during ebb tides;	Within construction site / Duration of the construction phase	C – Marine filling works completed in March 2023 (The arrangement of silt curtain has been modified. The details can be referred to Silt Curtain Deployment Plan)
			▪ Double layer silt curtains to be applied at the south-western opening prior to commencement of marine filling activities;		C – Marine filling works completed in March 2023 (The arrangement of silt curtain has been modified. The details can be referred to Silt Curtain Deployment Plan)
			▪ Double layer silt curtain to enclose WSR C7a and silt screens installed at the intake points for both WSR C7a and C8 prior to commencement of marine filling activities; and		I – For C7a C – Completed in Dec 2021 for C8 (The requirement of silt curtain / screen has been modified. The details can be referred to Silt Curtain Deployment Plan)

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			▪ The silt curtains and silt screens should be regularly checked and maintained.		I – For C7a and localised silt curtains (All enhanced silt curtain removed since March 2023)
			<u>Specific Measures to be Applied to the Field Joint Excavation Works for the Submarine Cable Diversion</u> ▪ Only closed grabs designed and maintained to avoid spillage shall be used and should seal tightly when operated. Excavated materials shall be disposed at designated marine disposal area in accordance with the Dumping at Sea Ordinance (DASO) permit conditions; and ▪ Silt curtains surrounding the closed grab dredger to be deployed as a precautionary measure.	Within construction site / Duration of the construction phase	N/A – the field joint excavation works for the submarine cable diversion will no longer be conducted anymore
8.8.1.4	5.1	-	**Modification of the Existing Seawall** ▪ Silt curtains shall be deployed around the seawall modification activities to completely enclose the active works areas, and care should be taken to avoid splashing of rockfill / rock armour into the surrounding marine environment. For the connecting sections with the existing outfalls, works for these connection areas should be undertaken during the dry season in order that individual drainage culvert cells may be isolated for interconnection works.	At the existing northern seawall / Duration of the construction phase	N/A – the seawall modification works undertaken after land formation.
8.8.1.5	5.1	-	**Construction of New Stormwater Outfalls and Modifications to Existing Outfalls** ▪ During operation of the temporary drainage channel, runoff control measures such as bunding or silt fence shall be provided on both sides of the channel to prevent accumulation and release of SS via the temporary channel. Measures should also be taken to minimise the ingress of site drainage into the culvert excavations.	Within construction site / Duration of the construction phase	I
8.8.1.6 8.8.1.7	5.1	2.27	**Piling Activities for Construction of New Runway Approach Lights and HKIAAA Marker Beacons** Silt curtains shall be deployed around the piling activities to completely enclose the piling works and care should be taken to avoid spillage of excavated materials into the surrounding marine environment.	Within construction site / Duration of the construction phase	C – For approach lights N/A for marker beacons as HKIAAA Marker Beacons would be replaced by buoys

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			For construction of the eastern approach lights at the CMPs ▪ Ground improvement via DCM using a close-spaced layout shall be completed prior to commencement of piling works; ▪ Steel casings shall be installed to enclose the excavation area prior to commencement of excavation; ▪ The excavated materials shall be removed using a closed grab within the steel casings; ▪ No discharge of the cement mixed materials into the marine environment will be allowed; and ▪ Excavated materials shall be treated and reused on-site.		C – Completed in Oct 2021
8.8.1.8	5.1	-	**Construction of Site Runoff and Drainage** The site practices outlined in ProPECC Note PN 1/94 should be followed as far as practicable in order to minimise surface runoff and the chance of erosion. The following measures are recommended:	Within construction site / Duration of the construction phase	
			▪ Install perimeter cut-off drains to direct off-site water around the site and implement internal drainage, erosion and sedimentation control facilities. Channels, earth bunds or sandbag barriers should be provided on site to direct storm water to silt removal facilities. The design of the temporary on-site drainage system should be undertaken by the Contractors prior to the commencement of construction (for works areas located on the existing Airport island) or as soon as the new land is completed (for works areas located on the new landform);		I
			▪ Sand/silt removal facilities such as sand/silt traps and sediment basins should be provided to remove sand/silt particles from runoff to meet the requirements of the TM-DSS standards under the WPCO. The design of efficient silt removal facilities should make reference to the guidelines in Appendix A1 of ProPECC Note PN 1/94. Sizes may vary depending upon the flow rate. The detailed design of the sand/silt traps should be undertaken by the Contractors prior to the commencement of construction;		I
			▪ All drainage facilities and erosion and sediment control structures should be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly during rainstorms. Deposited silt and grit should be regularly removed, at the onset of and after each rainstorm to ensure that these facilities are functioning properly;		I
			▪ Measures should be taken to minimize the ingress of site drainage into excavations. If excavation of trenches in wet periods is necessary, they should be dug and backfilled in short sections wherever practicable. Water pumped out from foundation excavations should be discharged into storm drains via silt removal facilities;		I
			▪ In the event that contaminated groundwater is identified at excavation areas, this should be treated on-site using a suitable wastewater treatment process. The effluent should be treated according to the requirements of the TM-DSS standards under the WPCO prior to discharge to foul sewers or collected for proper disposal off-site. No direct discharge of contaminated groundwater is permitted; and		I

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			▪ All vehicles and plant should be cleaned before leaving a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. An adequately designed and sited wheel washing facility should be provided at construction site exits. Wash-water should have sand and silt settled out and removed regularly to ensure the continued efficiency of the process. The section of access road leading to, and exiting from, the wheel-wash bay to the public road should be paved with sufficient backfall toward the wheel-wash bay to prevent vehicle tracking of soil and silty water to public roads and drains. All washwater should be treated according to the requirements of the TM-DSS standards under the WPCO prior to discharge.		I
			▪ Open stockpiles of construction materials or construction wastes on-site should be covered with tarpaulin or similar fabric during rainstorms. Measures should be taken to prevent the construction materials, soil, silt or debris from washing away into the drainage system;		I
			▪ Manholes (including newly constructed ones) should be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system and to prevent stormwater runoff being directed into foul sewers; and		I
			▪ Precautionary measures should be taken at any time of the year when rainstorms are likely. Actions to be taken when a rainstorm is imminent or forecasted are summarized in Appendix A2 of ProPECC Note PN 1/94. This includes actions to be taken during and/or after rainstorms. Particular attention should be paid to the control of silty surface runoff during storm events.		I
8.8.1.9	5.1	-	**Sewage Effluent from Construction Workforce** ▪ Temporary sanitary facilities, such as portable chemical toilets, should be employed on-site where necessary to handle sewage from the workforce. A licensed contractor should be employed to provide appropriate and adequate portable toilets and be responsible for appropriate disposal and maintenance.	Within construction site / During construction phase	I
8.8.1.10 8.8.1.11	5.1		**General Construction Activities** ▪ Construction solid waste, debris and refuse generated on-site should be collected, handled and disposed of properly to avoid entering any nearby storm water drain. Stockpiles of cement and other construction materials should be kept covered when not being used; and ▪ Oils and fuels should only be stored in designated areas which have pollution prevention facilities. To prevent spillage of fuels and solvents to any nearby storm water drain, all fuel tanks and storage areas should be provided with locks and be sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank. The bund should be drained of rainwater after a rain event.	Within construction site / During construction phase	I
8.8.1.12 8.8.1.13	5.1	2.28	**Drilling Activities for the Submarine Aviation Fuel Pipelines** To prevent potential water quality impacts at Sha Chau, the following measures shall be applied: ▪ A 'zero-discharge' policy shall be applied for all activities to be conducted at Sha Chau; ▪ No bulk storage of chemicals shall be permitted; and	Within construction site / During construction phase	C – Completed in Jan 2019

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			▪ A containment pit shall be constructed around the drill holes. This containment pit shall be lined with impermeable lining and bunded on the outside to prevent inflow from off-site areas.		
			At the airport island side of the drilling works, the following measures shall be applied for treatment of wastewater: ▪ During pipe cleaning, appropriate desilting or sedimentation device should be provided on site for treatment before discharge. The Contractor should ensure discharge water from the sedimentation tank meet the WPCO/TM requirements before discharge; and ▪ Drilling fluid used in drilling activities should be reconditioned and reused as far as possible. Temporary enclosed storage locations should be provided on-site for any unused chemicals that needs to be transported away after all the related construction activities are completed. The requirements in ProPECC Note PN 1/94 should be adhered to in the handling and disposal of bentonite slurries.	Within construction site / During construction phase	C – Completed in Jan 2019
			Waste Management Implication – Construction Phase		
10.5.1.1	7.1	-	Opportunities to minimise waste generation and maximise the reuse of waste materials generated by the project have been incorporated where possible into the planning, design and construction stages, and the following measures have been recommended: ▪ The relevant construction methods (particularly for the tunnel works) and construction programme have been carefully planned and developed to minimise the extent of excavation and to maximise the on-site reuse of inert C&D materials generated by the project as far as practicable. Temporary stockpiling areas will also be provided to facilitate on-site reuse of inert C&D materials;	Project Site Area / During design and construction phase	I
			▪ Priority should be given to collect and reuse suitable inert C&D materials generated from other concurrent projects and the Government's PFRF as fill materials for the proposed land formation works;		I
			▪ Only non-dredged ground improvement methods should be adopted in order to completely avoid the need for dredging and disposal of marine sediment for the proposed land formation work;		I
			▪ Excavation work for constructing the APM tunnels, BHS tunnels and airside tunnels will not be down to the CMPs beneath the fill materials in order to avoid excavating any sediments; and		I
			▪ For the marine sediments expected to be excavated from the piling works of TRC, APM & BHS tunnels, airside tunnels and other facilities on the proposed land formation area, piling work of marine sections of the approach lights and HKIAAA beacons, basement works for some of T2 expansion area and excavation works for the proposed APM depot should be treated and reused on-site as backfilling materials, although required treatment level / detail and the specific re-use mode are under development.		I
10.5.1.1	7.1	-	The following good site practices should be performed during the construction activities include: ▪ Nomination of an approved person, such as a site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site;	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?^
			▪ 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.		
10.5.1.3	7.1	-	The following practices should be performed to achieve waste reduction include: ▪ Use of steel or aluminium formworks and falseworks for temporary works as far as practicable; ▪ Adoption of repetitive design to allow reuse of formworks as far as practicable; ▪ Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal; ▪ Encourage collection of aluminium cans, PET bottles and paper by providing separate labelled bins to enable these wastes to be segregated from other general refuse generated by the work force; ▪ Any unused chemicals or those with remaining functional capacity should be collected for reused as far as practicable; ▪ Proper storage and site practices to minimise the potential for damage or contamination of construction materials; and ▪ Plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste.	Project Site Area / Construction Phase	I
10.5.1.5	7.1		Inert and non-inert C&D materials should be handled and stored separately to avoid mixing the two types of materials.	Project Site Area / Construction Phase	I

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
10.5.1.5	7.1	-	Any recyclable materials should be segregated from the non-inert C&D materials for collection by reputable licensed recyclers whereas the non-recyclable waste materials should be disposed of at the designated landfill site by a reputable licensed waste collector.	Project Site Area / Construction Phase	I
10.5.1.6	7.1	-	A trip-ticket system promulgated shall be developed in order to monitor the off-site delivery of surplus inert C&D materials that could not be reused on-site for the proposed land formation work at the PFRF and to control fly tipping.	Project Site Area / Construction Phase	I
10.5.1.6	7.1	2.32	The Contractor should prepare and implement a Waste Management Plan detailing various waste arising and waste management practices.	Construction Phase	I
10.5.1.16	7.1	-	The following mitigation measures are recommended during excavation and treatment of the sediments: ▪ On-site remediation should be carried out in an enclosed area in order to minimise odour/dust emissions;	Project Site Area / Construction Phase	I
			▪ The loading, unloading, handling, transfer or storage of treated and untreated sediment should be carried out in such a manner to prevent or minimise dust emissions;		I
			▪ All practical measures, including but not limited to speed control for vehicles, should be taken to minimise dust emission;		I
			▪ Good housekeeping should be maintained at all times at the sediment treatment facility and storage area;		I
			▪ Treated and untreated sediment should be clearly separated and stored separately; and		I
			▪ Surface runoff from the enclosed area should be properly collected and stored separately, and then properly treated to levels in compliance with the relevant effluent standards as required by the Water Pollution Control Ordinance before final discharge.		I
10.5.1.18	7.1	-	The marine sediments to be removed from the cable field joint area would be disposed of at the designated disposal sites to be allocated by the MFC. The following mitigation measures should be strictly followed to minimise potential impacts on water quality during transportation of the sediments requiring Type 1 disposal: ▪ Bottom opening of barges shall be fitted with tight fitting seals to prevent leakage of material; ▪ Monitoring of the barge loading shall be conducted to ensure that loss of material does not take place during transportation. Transport barges or vessels shall be equipped with automatic self-monitoring devices as specified by EPD; and ▪ Barges or hopper barges shall not be filled to a level that would cause the overflow of materials or sediment laden water during loading or transportation.	Project Site Area / Construction Phase	N/A – the field joint excavation works for the submarine cable diversion will no longer be conducted anymore
10.5.1.19	7.1	-	Contractor should register with the EPD as a chemical waste producer and to follow the relevant guidelines. The following measures should be implemented: ▪ Good quality containers compatible with the chemical wastes should be used; ▪ Incompatible chemicals should be stored separately;	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?^
			▪ 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.		
10.5.1.20	7.1	-	General refuse should be stored in enclosed bins or compaction units separated from inert C&D material. A reputable waste collector should be employed by the contractor to remove general refuse from the site for disposal at designated landfill sites. An enclosed and covered area should be provided to reduce the occurrence of 'windblown' light material.	Project Site Area / Construction Phase	I
10.5.1.21	7.1	-	The construction contractors will be required to regularly check and clean any refuse trapped or accumulated along the newly constructed seawall. Such refuse will then be stored and disposed of together with the general refuse.	Project Site Area / Construction Phase	I
			Land Contamination – Construction Phase		
11.10.1.2 to 11.10.1.3	8.1	2.32	For areas inaccessible during site reconnaissance survey ▪ Further site reconnaissance would be conducted once the areas are accessible in order to identify any land contamination concern for the areas.	Project Site Area inaccessible during site reconnaissance / Prior to Construction Phase	I
			▪ Subject to further site reconnaissance findings, a supplementary Contamination Assessment Plan (CAP) for additional site investigation (SI) (if necessary) may be prepared and submitted to EPD for endorsement prior to the commencement of SI at these areas.		C – Completed in Jan 2018
			▪ After completion of SI, the Contamination Assessment Report (CAR) will be prepared and submitted to EPD for approval prior to start of the proposed construction works at the golf course, the underground and above-ground fuel storage tank areas, emergency power generation units, airside petrol filling station and fuel tank room.		I *(CAR for golf course and Terminal 2 emergency power supply system nos.1, 2, 3, 4 and 5 were submitted to EPD)
			▪ Should remediation be required, Remediation Action Plan (RAP) and Remediation Report (RR) will be prepared for EPD's approval prior to commencement of the proposed remediation and any construction works respectively.		N/A as no remediation was required.
11.8.1.2	8.1	-	If contaminated soil is identified, the following mitigation measures are for the excavation and transportation of contaminated materials (if any):	Project Site Area / Construction Phase	N/A as no contaminated soil was found.

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			▪ 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.		
			Terrestrial Ecological – Construction Phase		
12.10.1.1	9.2	2.14	**Pre-construction Egretry Survey** ▪ Conduct ecological survey for Sha Chau egretry to update the latest boundary of the egretry.	Breeding season (April - July) prior to commencement of HDD drilling works at HKIA	C – Completed in Jan 2019
12.7.2.3 and 12.7.2.6	9.1	2.30	**Avoidance and Minimisation of Direct Impact to Egretry** ▪ The daylighting location will avoid direct encroachment to the Sheung Sha Chau egretry. The daylighting location and mooring of flat top barge, if required, will be kept away from the egretry; ▪ In any event, controls such as demarcation of construction site boundary and confining the lighting within the site will be practised to minimise disturbance to off-site habitat at Sheung Sha Chau Island; and ▪ The containment pit at the daylighting location shall be covered or camouflaged.	During construction phase at Sheung Sha Chau Island	C – Completed in Jan 2019

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
12.7.2.5	9.1	2.30	**Preservation of Nesting Vegetation** ▪ The proposed daylighting location and the arrangement of connecting pipeline will avoid the need of tree cutting, therefore the trees that are used by ardeids for nesting will be preserved.	During construction phase at Sheung Sha Chau Island	C – Completed in Jan 2019
12.7.2.4 and 12.7.2.6	9.1	2.30	**Timing the Pipe Connection Works outside Ardeid's Breeding Season** ▪ All HDD and related construction works on Sheung Sha Chau Island will be scheduled outside the ardeids' breeding season (between April and July). No night-time construction work will be allowed on Sheung Sha Chau Island during all seasons.	During construction phase at Sheung Sha Chau Island	C – Completed in Jan 2019
12.10.1.1	9.3	-	**Ecological Monitoring** ▪ During the HDD construction works period from August to March, ecological monitoring will be undertaken monthly at the HDD daylighting location on Sheung Sha Chau Island to identify and evaluate any impacts with appropriate actions taken as required to address and minimise any adverse impact found.	at Sheung Sha Chau Island	C – Completed in Jan 2019
			Marine Ecological Impact – Pre-construction Phase		
13.11.4.1	10.2.2	-	▪ Pre-construction phase Coral Dive Survey.	HKIAAA artificial seawall	C – Completed in Jan 2016
			Marine Ecological Impact – Construction Phase		
13.11.1.3 to 13.11.1.6	-	-	**Minimisation of Land Formation Area** ▪ Minimise the overall size of the land formation needed for the additional facilities to minimise the overall loss of habitat for marine resources, especially the CWD population.	Land formation footprint / during detailed design phase to completion of construction	I
13.11.1.7 to 13.11.1.10	-	2.31	**Use of Construction Methods with Minimal Risk/Disturbance** ▪ Use of non-dredge method for the main land formation and ancillary works including the diversion of the aviation fuel pipeline to the AFRF;	During construction phase at marine works area	C – Completed in Jan 2019 for diversion of aviation fuel pipeline
			▪ Use of Deep Cement Mixing (DCM) method instead of conventional seabed dredging for the land formation works to reduce the risk of negative impacts through the elevation of suspended solids and contaminants on CWDs, fisheries and the marine environment;		I
			▪ Use of bored piling in short duration to form the new approach lights and marker beacons for the new runway;		C – Completed in Oct 2021 for new approach lights
			▪ Avoid bored piling during CWD peak calving season (Mar to Jun);		N/A for marker beacons as

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
					HKIAAA Marker Beacons would be replaced by buoys
			▪ Prohibition of underwater percussive piling; and		I
			▪ Use of horizontal directional drilling (HDD) method and water jetting methods for placement of submarine cables and pipelines to minimise the disturbance to the CWDs and other marine ecological resources.		C – Completed in Jan 2019 for HDD works
13.11.2.1 to 13.11.2.7	-	-	**Mitigation for Indirect Disturbance due to Deterioration of Water Quality** ▪ Water quality mitigation measures during construction phases include consideration of alternative construction methods, deployment of silt curtain and good site practices;	All works area during the construction phase	I
			▪ Alternative construction methods including use of non-dredge methods for ground improvement (e.g. Deep Cement Mixing (DCM), prefabricated vertical drains (PVD), sand compaction piles, steel cells, stone columns and vertical sand drains);		I
			▪ Use of bored piling in short duration to form the new approach lights and marker beacons for the new runway; and		C – Completed in Oct 2021 for new approach lights
			▪ Use of horizontal directional drilling (HDD) method and water jetting methods for placement of undersea cables and pipelines to minimise the disturbance to the CWDs and other marine ecological resources.		C – Completed in Jan 2019 for HDD works
13.11.1.12	-	-	**Strict Enforcement of No-Dumping Policy** ▪ A policy prohibiting dumping of wastes, chemicals, oil, trash, plastic, or any other substance that would potentially be harmful to dolphins and/or their habitat in the work area; ▪ Mandatory educational programme of the no-dumpling policy be made available to all construction site personnel for all project-related works; ▪ Fines for infractions should be implemented; and ▪ Unscheduled, on-site audits shall be implemented.	All works area during the construction phase	I
13.11.1.13	-	-	**Good Construction Site Practices** ▪ Regular inspection of the integrity and effectiveness of all silt curtains and monitoring of effluents to ensure that any discharge meets effluent discharge guidelines; ▪ Keep the number of working or stationary vessels present on-site to the minimum anytime; and ▪ Unscheduled, on-site audits for all good site practice restrictions should be conducted, and fines or penalties sufficient to be an effective deterrent need to be levied against violators.	All works area during the construction phase	I

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
13.11.1.3 to 13.11.1.6	-	-	**Minimisation of Land Formation Area** ▪ Minimise the overall size of the land formation needed for the additional facilities to minimise the overall loss of habitat for marine resources, especially the CWD population.	Land formation footprint / during detailed design phase to completion of construction	I
13.11.5.4 to 13.11.5.13	10.3.1	-	**SkyPier High Speed Ferries' Speed Restrictions and Route Diversions** ▪ SkyPier HSFs operating to / from Zhuhai and Macau would divert north of SCLKC Marine Park with a 15 knot speed limit to apply for the part-journeys that cross high CWD abundance grid squares as indicatively shown in **Drawing No. MCL/P132/EIA/13-023** of the EIA Report. Both the alignment of the northerly route and the portion of routings to be subject to the speed limit of 15 knots shall be finalised prior to commencement of construction based on the future review of up-to-date CWD abundance and EM&A data and taking reference to changes in total SkyPier HSF numbers; and ▪ A maximum of 10 knots will be enforced through the designated SCLKC Marine Park area at all times.	Area between the footprint and SCLKC Marine Park during construction phase	I
			Other mitigation measures ▪ The ET will audit various parameters including actual daily numbers of HSFs, compliance with the 15-knot speed limit in the speed control zone and diversion compliance for SkyPier HSFs operating to / from Zhuhai and Macau; and ▪ The effectiveness of the CWD mitigation measures after implementation of initial six month SkyPier HSF diversion and speed restriction will be reviewed.	Area between the footprint and SCLKC Marine Park during construction phase	I C – Completed in Sep 2016
13.11.5.14 to 13.11.5.18	10.3.1	2.31	**Dolphin Exclusion Zone** ▪ Establishment of a 24 hr Dolphin Exclusion Zone (DEZ) with a 250 m radius around the land formation works areas;	Marine waters around land formation works area during construction phase	I
			▪ A DEZ would also be implemented during ground improvement works (e.g. DCM), water jetting works for submarine cables diversion, open trench dredging at the field joint locations and seawall construction; and		I
			▪ A DEZ would also be implemented during bored piling work but as a precautionary measure only.		C – Completed in Oct 2021 for the bored piling work of New approach lights
13.11.5.19	10.4	2.31	**Acoustic Decoupling of Construction Equipment** ▪ Air compressors and other noisy equipment that must be mounted on steel barges should be acoustically-decoupled to the greatest extent feasible, for instance by using rubber or air-filled tyres; and ▪ Specific acoustic decoupling measures shall be specified during the detailed design of the project for use during the land formation works.	Around coastal works area during construction phase	I

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
13.11.5.20	10.6.1	2.29	**Spill Response Plan** ▪ An oil and hazardous chemical spill response plan is proposed to be established during the construction phase as a precautionary measure so that appropriate actions to prevent or reduce risks to CWDs can be undertaken in the event of an accidental spillage.	Construction phase	I
13.11.5.21 to 13.11.5.23	10.6.1	-	**Construction Vessel Speed Limits and Skipper Training** ▪ A speed limit of 10 knots should be strictly observed for construction vessels at areas with the highest CWD densities (as currently indicated by the 1x1km grid squares in Figure 6 of Appendix 13.2 of EIA report). ▪ Vessels traversing through the work areas should be required to use predefined and regular routes (which would presumably become known to resident dolphins) to reduce disturbance to cetaceans due to vessel movements. Specific marine routes shall be specified by the Contractor prior to construction commencing.	All areas north and west of Lantau Island during construction phase	I
			Fisheries Impact – Construction Phase		
14.9.1.2 to 14.9.1.5	-		**Minimisation of Land Formation Area** ▪ Minimise the overall size of the land formation needed for the additional facilities to minimise the overall loss of habitat for fisheries resources.	Land formation footprint / during detailed design phase to completion of construction	I
14.9.1.6	-	-	**Use of Construction Methods with Minimal Risk/Disturbance** ▪ Use of non-dredge method for the main land formation and ancillary works including the diversion of the aviation fuel pipeline to the AFRF;	During construction phase at marine works area	C – Completed in Jan 2019 for diversion of aviation fuel pipeline
			▪ Use of Deep Cement Mixing (DCM) method instead of conventional seabed dredging for the land formation works to reduce the risk of negative impacts through the elevation of suspended solids and contaminants on fisheries and the marine environment;		I
			▪ Use of bored piling in short duration to form the new approach lights and marker beacons for the new runway; and		C – Completed in Oct 2021 for new approach lights N/A for marker beacons as HKIAAA Marker Beacons would be replaced by buoys

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			▪ Use of horizontal directional drilling (HDD) method and water jetting methods for placement of undersea cables and pipelines to minimise the disturbance to fisheries resources.		C – Completed in Jan 2019 for HDD works
14.9.1.11	-		**Strict Enforcement of No-Dumping Policy** ▪ A policy prohibiting dumping of wastes, chemicals, oil, trash, plastic, or any other substance that would potentially be harmful to dolphins and/or their habitat in the work area; ▪ Mandatory educational programme of the no-dumpling policy be made available to all construction site personnel for all project-related works; ▪ Fines for infractions should be implemented; and ▪ Unscheduled, on-site audits shall be implemented.	All works area during the construction phase	I
14.9.1.12	-		**Good Construction Site Practices** ▪ Regular inspection of the integrity and effectiveness of all silt curtains and monitoring of effluents to ensure that any discharge meets effluent discharge guidelines; ▪ Keep the number of working or stationary vessels present on-site to the minimum anytime; and ▪ Unscheduled, on-site audits for all good site practice restrictions should be conducted, and fines or penalties sufficient to be an effective deterrent need to be levied against violators.	All works area during the construction phase	I
14.9.1.13 to 14.9.1.18	-		**Mitigation for Indirect Disturbance due to Deterioration of Water Quality** ▪ Water quality mitigation measures during construction phases include consideration of alternative construction methods, deployment of silt curtain and good site practices;	All works area during the construction phase	I
			▪ Alternative construction methods including use of non-dredge methods for ground improvement (e.g. Deep Cement Mixing (DCM), prefabricated vertical drains (PVD), sand compaction piles, steel cells, stone columns and vertical sand drains);		I
			▪ Use of bored piling in short duration to form the new approach lights and marker beacons for the new runway; and		C – Completed in Oct 2021 for new approach lights N/A for marker beacons as HKIAAA Marker Beacons would be replaced by buoys
			▪ Use of horizontal directional drilling (HDD) method and water jetting methods for placement of undersea cables and pipelines to minimise the disturbance to fisheries resources.		C – Completed on Jan 2019 for HDD work
			Landscape and Visual Impact – Construction Phase		

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	-	**CM1 -** The construction area and contractor's temporary works areas should be minimised to avoid impacts on adjacent landscape.	All works areas for duration of works; Upon handover and completion of works.	I
Table 15.6	12.3	-	**CM2 -** Reduction of construction period to practical minimum.	All works areas for duration of works; Upon handover and completion of works.	I
Table 15.6	12.3	-	**CM3 -** Phasing of the construction stage to reduce visual impacts during the construction phase.	All works areas for duration of works; Upon handover and completion of works.	I
Table 15.6	12.3	-	**CM4 -** Construction traffic (land and sea) including construction plants, construction vessels and barges should be kept to a practical minimum.	All works areas for duration of works; Upon handover and completion of works.	I
Table 15.6	12.3	-	**CM5 -** Erection of decorative mesh screens or construction hoardings around works areas in visually unobtrusive colours.	All works areas for duration of works; Upon handover and completion of works. – may be disassembled in phases.	I
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. –	I

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
				may be disassembled in phases.	
Table 15.6	12.3	-	**CM8 -** All existing trees shall be carefully protected during construction. Detailed Tree Protection Specification shall be provided in the Contract Specification. Under this specification, the Contractor shall be required to submit, for approval, a detailed working method statement for the protection of trees prior to undertaking any works adjacent to all retained trees, including trees in contractor's works areas.	All existing trees to be retained; Upon handover and completion of works.	I
Table 15.6	12.3	-	**CM9 -** Trees unavoidably affected by the works shall be transplanted where practical. A detailed Tree Transplanting Specification shall be provided in the Contract Specification, if applicable. Sufficient time for necessary tree root and crown preparation periods shall be allowed in the project programme.	All existing trees to be affected by the works; Upon handover and completion of works.	I
Table 15.6	12.3	-	**CM10 -** Land formation works shall be followed with advanced hydroseeding around taxiways and runways as soon as practical.	All affected existing grass areas around runways and verges/Duration of works; Upon handover and completion of works.	I
			Cultural Heritage Impact – Construction Phase		
			Not applicable to the construction stage of this project.		
			Health Impact – Aircraft Emissions		
			Not applicable to the construction stage of this project.		
			Health Impact – Aircraft Noise		
			Not applicable to the construction stage of this project.		

Notes:

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

" I " Implemented and on-going where applicable.

" N/A " Not applicable to the construction works implemented during the reporting month.

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

"C" Construction works completed.

Appendix B. Monitoring Schedule

Monitoring Schedule of This Reporting Period

Jun-23

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1 Site Inspection NM4, NM6 CWD Survey (Vessel) WQ General & Regular DCM mid-ebb: 11:13 mid-flood: 17:43	**2** Site Inspection CWD Survey (Vessel)	**3** AR1A, AR2 WQ General & Regular DCM mid-ebb: 12:24 mid-flood: 19:29
4	**5** Site Inspection CWD Survey (Vessel)	**6** Site Inspection CWD Survey (Vessel) WQ General & Regular DCM mid-ebb: 14:36 mid-flood: 07:26	**7** CWD Survey (Land-based)	**8** Site Inspection NM4, NM6 CWD Survey (Vessel) WQ General & Regular DCM mid-ebb: 16:16 mid-flood: 08:58	**9** Site Inspection AR1A, AR2 NM1A, NM5 CWD Survey (Vessel)	**10** WQ General & Regular DCM mid-ebb: 06:29 mid-flood: 11:13
11	**12** Site Inspection	**13** Site Inspection CWD Survey (Vessel) WQ General & Regular DCM mid-ebb: 09:48 mid-flood: 15:34	**14** CWD Survey (Vessel)	**15** Site Inspection AR1A, AR2 NM1A, NM5 WQ General & Regular DCM mid-ebb: 11:16 mid-flood: 04:29	**16** Site Inspection NM4, NM6	**17** WQ General & Regular DCM mid-ebb: 12:35 mid-flood: 05:29
18	**19** Site Inspection CWD Survey (Land-based)	**20** Site Inspection WQ General & Regular DCM mid-ebb: 14:29 mid-flood: 07:07	**21** Site Inspection AR1A, AR2 NM1A, NM5	**22** WQ General & Regular DCM mid-ebb: 15:42 mid-flood: 08:17	**23** Site Inspection NM4, NM6	**24** WQ General & Regular DCM mid-ebb: 16:56 mid-flood: 09:39
25	**26** Site Inspection	**27** Site Inspection AR1A, AR2 NM1A, NM5 WQ General & Regular DCM mid-ebb: 08:01 mid-flood: 13:25	**28**	**29** Site Inspection NM4, NM6 WQ General & Regular DCM mid-ebb: 09:50 mid-flood: 16:30	**30** Site Inspection	

Notes:

CWD - Chinese White Dolphin

Air quality and Noise Monitoring Station

WQ - Water Quality

NM1A/AR1A - Man Tung Road Park
NM4 - Ching Chung Hau Po Woon Primary School
NM5/AR2 - Village House, Tin Sum
NM6 - House No. 1, Sha Lo Wan

Tentative Monitoring Schedule of Next Reporting Period

Jul-23

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1 WQ General & Regular DCM mid-ebb: 11:19 mid-flood: 18:38
2	**3** Site Inspection AR1A, AR2 NM1A, NM5	**4** Site Inspection CWD Survey (Vessel) WQ General & Regular DCM mid-ebb: 13:40 mid-flood: 06:28	**5**	**6** Site Inspection CWD Survey (Vessel) WQ General & Regular DCM mid-ebb: 15:17 mid-flood: 08:09	**7** Site Inspection NM4, NM6 CWD Survey (Vessel)	**8** AR1A, AR2 WQ General & Regular DCM mid-ebb: 16:55 mid-flood: 10:04
9	**10** Site Inspection CWD Survey (Vessel)	**11** Site Inspection CWD Survey (Vessel) WQ General & Regular DCM mid-ebb: 08:07 mid-flood: 13:57	**12** CWD Survey (Vessel)	**13** Site Inspection NM4, NM6 CWD Survey (Vessel) WQ General & Regular DCM mid-ebb: 10:09 mid-flood: 17:12	**14** Site Inspection AR1A, AR2 NM1A, NM5 CWD Survey (Vessel)	**15** WQ General & Regular DCM mid-ebb: 11:41 mid-flood: 19:07
16	**17** Site Inspection	**18** Site Inspection CWD Survey (Land-based) WQ General & Regular DCM mid-ebb: 13:37 mid-flood: 06:18	**19** CWD Survey (Land-based)	**20** Site Inspection AR1A, AR2 NM1A, NM5 WQ General & Regular DCM mid-ebb: 14:46 mid-flood: 07:36	**21** Site Inspection NM4, NM6	**22** WQ General & Regular DCM mid-ebb: 15:49 mid-flood: 08:54
23	**24** Site Inspection	**25** Site Inspection WQ General & Regular DCM mid-ebb: 17:34 mid-flood: 11:21	**26** AR1A, AR2 NM1A, NM5	**27** Site Inspection WQ General & Regular DCM mid-ebb: 07:55 mid-flood: 14:37	**28** Site Inspection NM4, NM6	**29** WQ General & Regular DCM mid-ebb: 10:04 mid-flood: 17:47
30	**31** Site Inspection					

Notes:

CWD - Chinese White Dolphin

Air quality and Noise Monitoring Station

WQ - Water Quality

NM1A/AR1A - Man Tung Road Park
NM4 - Ching Chung Hau Po Woon Primary School
NM5/AR2 - Village House, Tin Sum
NM6 - House No. 1, Sha Lo Wan

Appendix C. Monitoring Results

Air Quality Monitoring Results

1-hour TSP Results

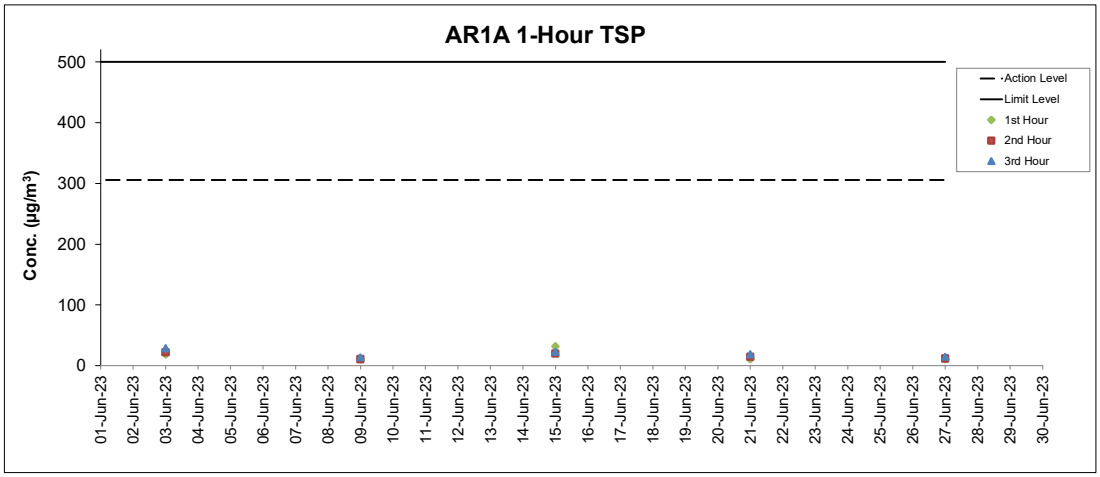
Station: AR1A- Man Tung Road Park

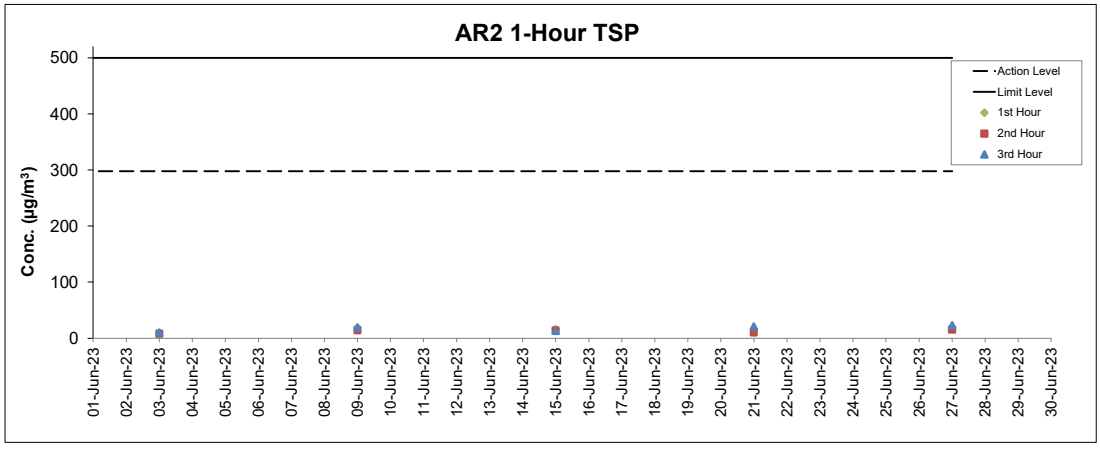
Date	Time	Weather	Wind Speed (m/s)	Wind Direction (deg)	1-hr TSP (μg/m^3)	Action Level (μg/m^3)	Limit Level (μg/m^3)
3-Jun-23	8:18	Cloudy	1.7	332	19	306	500
3-Jun-23	9:18	Cloudy	3.1	330	22	306	500
3-Jun-23	10:18	Cloudy	2.2	312	29	306	500
9-Jun-23	8:22	Cloudy	1.7	56	11	306	500
9-Jun-23	9:22	Cloudy	1.7	40	11	306	500
9-Jun-23	10:22	Cloudy	2.2	75	14	306	500
15-Jun-23	8:14	Drizzle	3.3	75	32	306	500
15-Jun-23	9:14	Drizzle	2.2	40	20	306	500
15-Jun-23	10:22	Drizzle	3.9	45	23	306	500
21-Jun-23	9:48	Cloudy	4.2	232	11	306	500
21-Jun-23	10:48	Cloudy	5.0	209	15	306	500
21-Jun-23	11:48	Cloudy	6.1	231	19	306	500
27-Jun-23	8:38	Cloudy	3.1	41	11	306	500
27-Jun-23	9:38	Cloudy	3.9	52	12	306	500
27-Jun-23	10:38	Cloudy	3.9	111	15	306	500

1-hour TSP Results

Station: AR2- Village House, Tin Sum

Date	Time	Weather	Wind Speed (m/s)	Wind Direction (deg)	1-hr TSP (μg/m^3)	Action Level (μg/m^3)	Limit Level (μg/m^3)
3-Jun-23	12:03	Cloudy	2.8	Variable	10	298	500
3-Jun-23	13:03	Cloudy	2.8	268	8	298	500
3-Jun-23	14:03	Cloudy	5.3	239	10	298	500
9-Jun-23	12:08	Cloudy	3.6	46	19	298	500
9-Jun-23	13:08	Cloudy	2.2	323	14	298	500
9-Jun-23	14:08	Cloudy	1.7	145	19	298	500
15-Jun-23	12:20	Drizzle	2.2	8	16	298	500
15-Jun-23	13:20	Drizzle	2.8	297	14	298	500
15-Jun-23	14:20	Drizzle	3.9	318	13	298	500
21-Jun-23	14:28	Cloudy	7.8	233	15	298	500
21-Jun-23	15:28	Cloudy	8.1	227	10	298	500
21-Jun-23	16:28	Cloudy	7.2	223	21	298	500
27-Jun-23	13:11	Cloudy	3.6	244	20	298	500
27-Jun-23	14:11	Cloudy	5.3	145	15	298	500
27-Jun-23	15:11	Cloudy	5.8	142	23	298	500





Notes

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

Noise Monitoring Results

Noise Measurement Results

Station: NM1A- Man Tung Road Park

Date	Weather	Time	Measured L_{10} dB(A)	Measured L_{90} dB(A)	$L_{eq(30mins)}$ dB(A) ^
9-Jun-23	Cloudy	9:22	60.5	56.5	62
9-Jun-23	Cloudy	9:27	59.8	56.7	
9-Jun-23	Cloudy	9:32	59.8	56.4	
9-Jun-23	Cloudy	9:37	61.1	57.3	
9-Jun-23	Cloudy	9:42	59.8	56.4	
9-Jun-23	Cloudy	9:47	60.3	56.2	
15-Jun-23	Drizzle	9:03	52.6	49.8	56
15-Jun-23	Drizzle	9:08	53.6	50.2	
15-Jun-23	Drizzle	9:13	52.9	49.9	
15-Jun-23	Drizzle	9:18	53.5	51.0	
15-Jun-23	Drizzle	9:23	54.4	50.7	
15-Jun-23	Drizzle	9:28	53.4	50.6	
21-Jun-23	Cloudy	9:02	60.8	57.2	63
21-Jun-23	Cloudy	9:07	61.0	57.8	
21-Jun-23	Cloudy	9:12	60.6	56.8	
21-Jun-23	Cloudy	9:17	61.2	57.1	
21-Jun-23	Cloudy	9:22	60.9	57.6	
21-Jun-23	Cloudy	9:27	62.0	57.1	
27-Jun-23	Cloudy	8:47	60.9	57.5	63
27-Jun-23	Cloudy	8:52	60.6	57.0	
27-Jun-23	Cloudy	8:57	61.0	57.8	
27-Jun-23	Cloudy	9:02	61.9	57.9	
27-Jun-23	Cloudy	9:07	60.4	57.1	
27-Jun-23	Cloudy	9:12	61.6	57.3	

Remarks:

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

Noise Measurement Results

Station: NM4- Ching Chung Hau Po Woon Primary School

Date	Weather	Time	Measured L_{10} dB(A)	Measured L_{90} dB(A)	$L_{eq(30mins)}$ dB(A) ^
1-Jun-23	Sunny	13:14	61.8	59.2	64
1-Jun-23	Sunny	13:19	61.6	59.3	
1-Jun-23	Sunny	13:24	61.7	59.1	
1-Jun-23	Sunny	13:29	61.0	58.2	
1-Jun-23	Sunny	13:34	62.3	59.4	
1-Jun-23	Sunny	13:39	62.3	60.5	
8-Jun-23	Cloudy	13:26	61.6	57.2	63
8-Jun-23	Cloudy	13:31	64.7	57.8	
8-Jun-23	Cloudy	13:36	61.9	57.5	
8-Jun-23	Cloudy	13:41	61.5	56.6	
8-Jun-23	Cloudy	13:46	61.6	57.3	
8-Jun-23	Cloudy	13:51	62.3	57.4	
16-Jun-23	Cloudy	14:09	61.0	58.0	66*
16-Jun-23	Cloudy	14:14	62.4	58.6	
16-Jun-23	Cloudy	14:19	61.2	58.4	
16-Jun-23	Cloudy	14:24	61.2	58.9	
16-Jun-23	Cloudy	14:29	62.8	60.1	
16-Jun-23	Cloudy	14:34	63.2	61.0	
23-Jun-23	Cloudy	12:45	64.6	62.8	66
23-Jun-23	Cloudy	12:50	64.2	62.7	
23-Jun-23	Cloudy	12:55	65.3	62.9	
23-Jun-23	Cloudy	13:00	65.5	57.7	
23-Jun-23	Cloudy	13:05	60.9	57.3	
23-Jun-23	Cloudy	13:10	61.5	58.1	
29-Jun-23	Sunny	14:04	61.7	58.6	64
29-Jun-23	Sunny	14:09	62.9	59.3	
29-Jun-23	Sunny	14:14	61.3	58.9	
29-Jun-23	Sunny	14:19	63.4	59.3	
29-Jun-23	Sunny	14:24	61.9	59.3	
29-Jun-23	Sunny	14:29	61.8	58.8	

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: NM5- Village House, Tin Sum

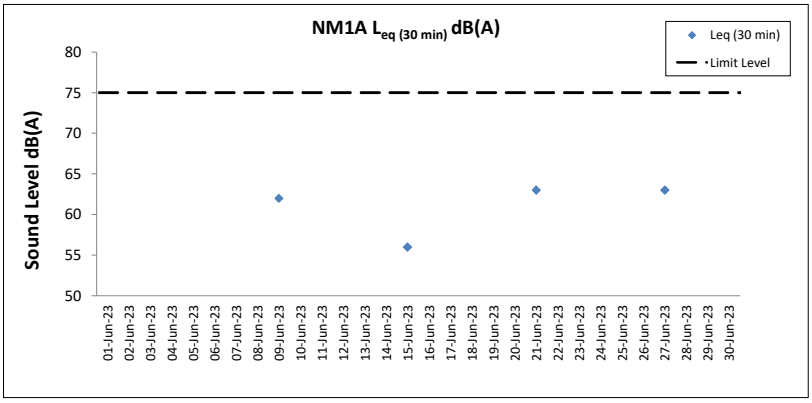
Date	Weather	Time	Measured L_{10} dB(A)	Measured L_{90} dB(A)	$L_{eq(30mins)}$ dB(A) ^
9-Jun-23	Cloudy	12:08	64.5	57.5	62*
9-Jun-23	Cloudy	12:13	59.7	56.1	
9-Jun-23	Cloudy	12:18	59.9	56.9	
9-Jun-23	Cloudy	12:23	60.4	56.7	
9-Jun-23	Cloudy	12:28	60.1	57.0	
9-Jun-23	Cloudy	12:33	62.2	58.4	
15-Jun-23	Drizzle	11:33	61.8	57.8	61*
15-Jun-23	Drizzle	11:38	61.5	57.2	
15-Jun-23	Drizzle	11:43	60.5	56.6	
15-Jun-23	Drizzle	11:48	62.0	56.8	
15-Jun-23	Drizzle	11:53	60.3	57.1	
15-Jun-23	Drizzle	11:58	61.8	57.5	
21-Jun-23	Cloudy	13:08	60.9	57.1	61*
21-Jun-23	Cloudy	13:13	61.5	57.7	
21-Jun-23	Cloudy	13:18	61.8	57.4	
21-Jun-23	Cloudy	13:23	60.6	57.7	
21-Jun-23	Cloudy	13:28	62.1	57.2	
21-Jun-23	Cloudy	13:33	60.6	56.9	
27-Jun-23	Cloudy	12:12	60.2	56.6	61*
27-Jun-23	Cloudy	12:17	61.0	56.6	
27-Jun-23	Cloudy	12:22	62.0	56.6	
27-Jun-23	Cloudy	12:27	60.2	56.6	
27-Jun-23	Cloudy	12:32	60.9	58.1	
27-Jun-23	Cloudy	12:37	62.0	58.0	

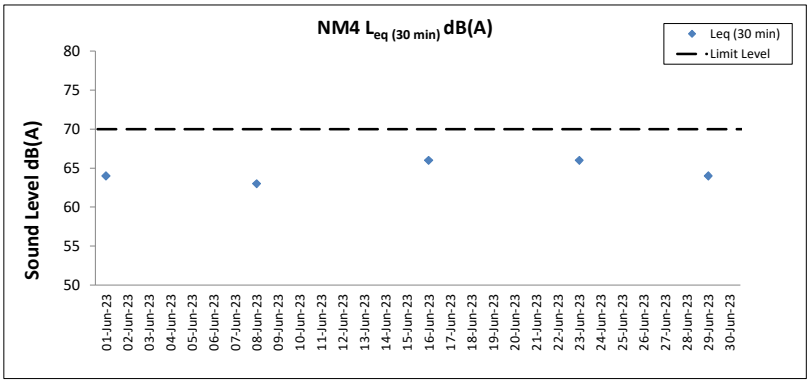
Remarks:
(^) +3dB (A) correction in Leq(30mins) dB(A) was applied to free-field measurement.
(*) The measurement result was corrected with reference to the baseline monitoring levels.

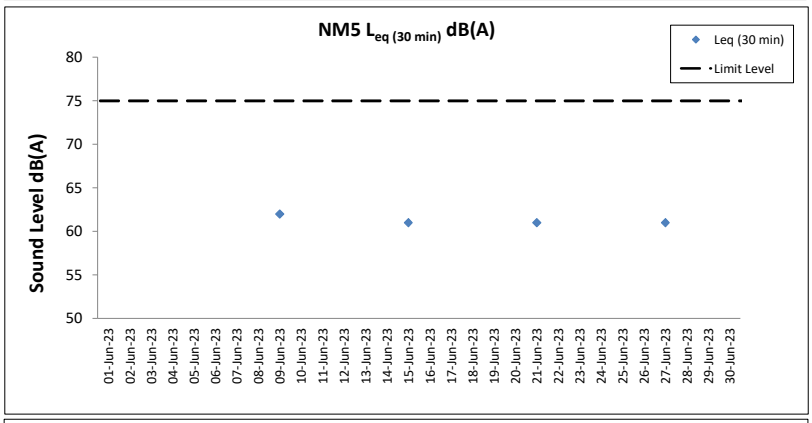
Noise Measurement Results
Station: NM6- House No.1 Sha Lo Wan

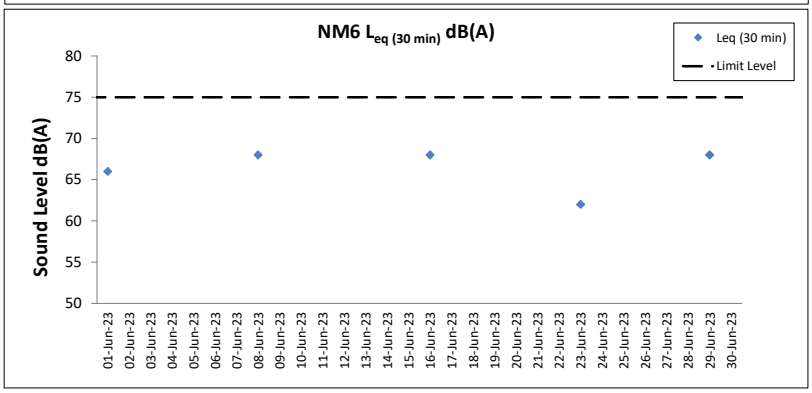
Date	Weather	Time	Measured L_{10} dB(A)	Measured L_{90} dB(A)	$L_{eq(30mins)}$ dB(A) ^
1-Jun-23	Sunny	15:37	61.8	46.3	66*
1-Jun-23	Sunny	15:42	58.1	46.2	
1-Jun-23	Sunny	15:47	66.4	49.6	
1-Jun-23	Sunny	15:52	68.6	49.1	
1-Jun-23	Sunny	15:57	64.6	45.9	
1-Jun-23	Sunny	16:02	62.9	47.0	
8-Jun-23	Cloudy	15:45	71.4	51.2	68
8-Jun-23	Cloudy	15:50	73.3	50.9	
8-Jun-23	Cloudy	15:55	62.3	51.6	
8-Jun-23	Cloudy	16:00	56.8	50.6	
8-Jun-23	Cloudy	16:05	64.5	50.5	
8-Jun-23	Cloudy	16:10	65.8	51.0	
16-Jun-23	Cloudy	15:43	67.9	53.2	68*
16-Jun-23	Cloudy	15:48	69.6	55.2	
16-Jun-23	Cloudy	15:53	76.9	55.2	
16-Jun-23	Cloudy	15:58	68.1	53.7	
16-Jun-23	Cloudy	16:03	69.4	55.7	
16-Jun-23	Cloudy	16:08	65.0	55.4	
23-Jun-23	Cloudy	15:39	72.5	50.7	62*
23-Jun-23	Cloudy	15:44	68.4	50.0	
23-Jun-23	Cloudy	15:49	66.5	50.4	
23-Jun-23	Cloudy	15:54	56.9	47.8	
23-Jun-23	Cloudy	15:59	71.0	47.7	
23-Jun-23	Cloudy	16:04	64.1	48.1	
29-Jun-23	Sunny	15:38	56.0	46.1	68
29-Jun-23	Sunny	15:43	68.7	45.2	
29-Jun-23	Sunny	15:48	70.8	45.3	
29-Jun-23	Sunny	15:53	66.5	44.9	
29-Jun-23	Sunny	15:58	62.1	45.3	
29-Jun-23	Sunny	16:03	71.3	46.7	

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

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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 June 23 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	10:34	8.0	Surface	1.0	0.3	203	27.7	27.7	7.9	7.9	25.8	25.8	81.7	81.8	5.6	5.4	2.9	4.2	3	3	815621	804264
						1.0	0.3	200	27.7		7.9		25.7		81.9		5.6		2.9		4			
					Middle	4.0	0.3	191	26.9	26.9	7.8	7.8	27.9	27.8	75.9	76.1	5.2		3.8		2			
						4.0	0.3	191	26.9		7.8		27.7		76.3		5.2		3.9		3			
					Bottom	7.0	0.4	201	26.5	26.5	7.8	7.8	29.7	29.7	76.4	76.7	5.2	5.2	5.8		2			
						7.0	0.4	196	26.5		7.8		29.7		77.0		5.2		6.1		3			
C2	Sunny	Moderate	12:20	12.1	Surface	1.0	0.8	187	28.2	28.2	7.9	7.9	22.5	22.3	91.1	91.3	6.3	5.8	4.0	4.4	3	4	825681	806966
						1.0	0.8	181	28.2		7.9		22.2		91.4		6.3		4.0		3			
					Middle	6.1	0.8	164	27.5	27.5	7.8	7.8	25.5	25.5	77.3	77.2	5.3		4.2		3			
						6.1	0.7	170	27.5		7.8		25.5		77.1		5.3		4.3		4			
					Bottom	11.1	0.8	176	27.4	27.4	7.8	7.8	25.6	25.6	75.5	75.5	5.2	5.2	4.9		5			
						11.1	0.7	171	27.4		7.8		25.6		75.5		5.2		5.0		4			
C3	Misty	Calm	11:31	12.0	Surface	1.0	0.4	68	27.1	27.1	7.6	7.6	25.6	25.6	89.7	89.6	6.2	6.2	0.5	1.7	5	4	822087	817788
						1.0	0.3	74	27.1		7.6		25.6		89.5		6.2		0.6		4			
					Middle	6.0	0.4	63	26.9	26.9	7.6	7.6	25.8	25.9	87.6	87.5	6.1		1.3		3			
						6.0	0.4	57	26.8		7.6		25.9		87.4		6.1		1.4		4			
					Bottom	11.0	0.4	80	26.2	26.3	7.6	7.6	29.0	29.0	82.5	82.6	5.7	5.7	3.3		2			
						11.0	0.4	78	26.3		7.6		29.1		82.7		5.7		3.3		4			
IM1	Sunny	Moderate	10:58	6.2	Surface	1.0	0.3	189	28.2	28.2	7.9	7.9	24.3	24.3	88.5	88.7	6.0	5.9	2.3	5.0	3	3	818350	806464
						1.0	0.4	189	28.2		7.9		24.3		88.8		6.1		2.4		4			
					Middle	3.1	0.3	183	27.7	27.7	7.9	7.9	24.7	24.7	83.0	83.1	5.7		3.6		3			
						3.1	0.3	187	27.7		7.9		24.6		83.2		5.7		3.9		3			
					Bottom	5.2	0.3	186	26.6	26.6	7.8	7.8	28.6	28.7	72.1	72.1	4.9	4.9	8.9		3			
						5.2	0.3	182	26.6		7.8		28.7		72.1		4.9		8.9		2			
IM2	Sunny	Moderate	11:07	6.6	Surface	1.0	0.3	208	27.3	27.3	7.8	7.8	26.3	26.2	75.6	75.7	5.2	5.0	5.1	7.4	4	4	819200	806259
						1.0	0.3	210	27.3		7.9		26.2		75.8		5.2		4.9		3			
					Middle	3.3	0.3	204	26.7	26.7	7.8	7.8	28.4	28.4	69.5	69.5	4.8		7.5		3			
						3.3	0.3	198	26.7		7.8		28.4		69.4		4.7		7.8		4			
					Bottom	5.6	0.3	182	26.4	26.4	7.8	7.8	29.6	29.6	69.5	69.6	4.7	4.8	9.9		4			
						5.6	0.4	181	26.4		7.8		29.6		69.6		4.8		9.0		4			
IM7	Sunny	Moderate	11:46	7.4	Surface	1.0	0.3	193	28.9	28.9	8.0	8.0	19.0	19.0	102.1	102.1	7.1	6.4	2.2	3.5	6	5	821344	806833
						1.0	0.3	186	28.9		8.0		19.0		102.0		7.1		2.1		5			
					Middle	3.7	0.3	183	27.8	27.8	7.8	7.8	23.8	23.7	80.9	81.1	5.6		3.1		4			
						3.7	0.4	190	27.7		7.8		23.7		81.3		5.6		2.9		5			
					Bottom	6.4	0.3	170	27.5	27.5	7.9	7.9	25.9	25.8	74.7	75.0	5.1	5.1	5.5		4			
						6.4	0.3	165	27.5		7.9		25.8		75.2		5.1		5.1		4			

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

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 01 June 23 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		
IM10	Misty	Calm	12:48	11.0	Surface	1.0	0.5	141	28.2	28.2	7.7	7.7	21.7	21.7	99.5	99.5	6.9	6.7	1.3	1.8	4	4	822219	809817
						1.0	0.5	137	28.1		7.7		21.7		99.4		6.9		1.4		5			
					Middle	5.5	0.5	110	27.8	27.8	7.6	7.6	23.4	23.5	92.5	92.4	6.4		1.8		3			
						5.5	0.5	107	27.8		7.6		23.5		92.3		6.4		1.8		4			
					Bottom	10.0	0.6	129	27.8	27.8	7.6	7.6	23.8	23.7	91.1	91.3	6.3	6.3	2.2		2			
						10.0	0.5	126	27.8		7.6		23.7		91.4		6.3		2.1		3			
IM11	Misty	Calm	12:40	8.8	Surface	1.0	0.5	101	28.6	28.6	7.8	7.8	18.6	18.6	110.2	110.1	7.7	6.8	2.3	3.4	3	3	821515	810560
						1.0	0.6	103	28.5		7.8		18.6		110.0		7.7		2.3		3			
					Middle	4.4	0.6	112	27.4	27.4	7.6	7.6	24.9	24.9	85.7	85.3	5.9		3.6		2			
						4.4	0.5	118	27.4		7.6		25.0		84.9		5.8		3.8		3			
					Bottom	7.8	0.6	103	27.5	27.5	7.5	7.5	25.2	25.1	87.4	88.5	6.0	6.1	4.2		2			
						7.8	0.6	98	27.5		7.5		25.0		89.6		6.2		4.2		3			
IM12	Misty	Calm	12:34	8.2	Surface	1.0	0.6	109	28.4	28.4	7.7	7.7	20.8	20.8	103.6	103.6	7.2	6.4	4.0	5.1	3	3	821157	811509
						1.0	0.6	116	28.4		7.7		20.8		103.6		7.2		4.1		2			
					Middle	4.1	0.6	102	27.3	27.3	7.5	7.5	25.3	25.4	80.6	80.1	5.6		5.4		3			
						4.1	0.6	104	27.2		7.5		25.5		79.5		5.5		5.3		3			
					Bottom	7.2	0.6	108	27.2	27.2	7.5	7.5	25.8	25.8	76.7	77.0	5.3	5.3	6.0		2			
						7.2	0.6	113	27.2		7.5		25.8		77.2		5.3		6.0		3			
SR1A	Misty	Calm	12:14	4.2	Surface	1.0	0.0	149	27.9	27.9	7.6	7.6	22.5	22.5	95.3	95.3	6.6	6.6	2.6	1.9	4	4	819973	812661
						1.0	0.0	150	27.9		7.6		22.6		95.3		6.6		2.8		3			
					Middle	2.1	0.1	148	-	-	-	-	-	-	-	-	-		-		-			
						2.1	0.1	144	-		-		-		-		-		-		-			
					Bottom	3.2	0.0	147	27.6	27.6	7.6	7.6	23.7	23.7	96.0	96.3	6.6	6.7	1.0		4			
						3.2	0.0	142	27.5		7.6		23.6		96.6		6.7		1.0		4			
SR2	Misty	Calm	11:59	5.0	Surface	1.0	0.6	52	28.3	28.3	7.8	7.8	19.6	19.6	106.4	106.3	7.4	7.4	1.1	1.2	3	4	821459	814162
						1.0	0.6	51	28.2		7.8		19.6		106.1		7.4		1.1		4			
					Middle	-	0.5	56	-	-	-	-	-	-	-	-	-		-		-			
						-	0.5	49	-		-		-		-		-		-		-			
					Bottom	4.0	0.5	38	27.9	27.9	7.7	7.7	22.8	22.8	99.0	99.3	6.8	6.9	1.3		5			
						4.0	0.5	45	27.9		7.7		22.8		99.5		6.9		1.3		4			
SR3	Sunny	Moderate	11:55	8.6	Surface	1.0	0.6	166	28.7	28.8	8.1	8.1	19.4	19.4	98.2	98.3	6.8	6.0	2.2	5.1	3	3	822140	807551
						1.0	0.6	167	28.8		8.1		19.3		98.3		6.8		2.2		2			
					Middle	4.3	0.7	181	27.6	27.6	7.9	7.9	24.7	24.7	74.4	74.4	5.1		5.3		4			
						4.3	0.7	186	27.6		7.9		24.8		74.3		5.1		5.4		3			
					Bottom	7.6	0.6	183	27.3	27.3	7.9	7.9	26.4	26.4	69.2	69.3	4.7	4.8	7.7		3			
						7.6	0.6	181	27.3		7.9		26.4		69.4		4.8		7.7		4			
SR4A	Sunny	Moderate	10:08	8.2	Surface	1.0	0.1	114	28.7	28.8	7.9	7.9	22.1	21.3	87.2	87.4	6.0	5.3	3.7	5.2	2	3	817187	807825
						1.0	0.1	110	28.8		7.9		20.6		87.5		6.0		3.7		2			
					Middle	4.1	0.0	87	26.9	26.9	7.8	7.8	28.2	28.2	65.2	65.2	4.5		5.5		4			
						4.1	0.0	81	26.8		7.8		28.3		65.2		4.5		5.6		3			
					Bottom	7.2	0.0	79	26.6	26.6	7.8	7.8	28.9	28.9	65.0	65.0	4.4	4.4	6.5		4			
						7.2	0.0	74	26.6		7.8		28.9		65.0		4.4		6.4		4			
SR8	Misty	Calm	12:29	4.4	Surface	1.0	-	-	28.3	28.3	7.7	7.7	20.6	20.7	101.0	100.9	7.0	7.0	0.9	1.1	4	3	820394	811631
						1.0	-	-	28.3		7.7		20.7		100.8		7.0		0.9		4			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.4	-	-	28.2	28.2	7.7	7.7	21.1	21.1	100.1	100.2	6.9	7.0	1.4		2			
						3.4	-	-	28.2		7.7		21.1		100.2		7.0		1.4		2			

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

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 01 June 23 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	17:49	8.6	Surface	1.0	0.4	29	28.1	28.1	7.9	7.9	23.4	23.5	84.8	84.7	5.8	5.3	3.2	7.1	2	3	815602	804260
						1.0	0.4	32	28.1		7.9		23.5		84.6		5.8		3.6		2			
					Middle	4.3	0.4	47	26.6	26.6	7.8	7.8	29.1	29.2	69.5	69.7	4.7		8.3		3			
						4.3	0.4	46	26.5		7.8		29.2		69.8		4.8		8.5		2			
					Bottom	7.6	0.4	36	26.5	26.5	7.8	7.8	29.3	29.3	72.0	72.2	4.9	4.9	9.2		2			
						7.6	0.4	39	26.5		7.8		29.3		72.4		4.9		9.8		4			
C2	Sunny	Moderate	16:10	11.8	Surface	1.0	0.0	323	28.8	28.8	8.0	8.0	19.1	19.0	99.5	99.5	6.9	6.1	3.1	4.5	3	3	825682	806932
						1.0	0.0	316	28.8		8.0		19.0		99.5		6.9		3.1		2			
					Middle	5.9	0.0	328	27.5	27.5	7.8	7.8	25.4	25.4	75.8	75.7	5.2		4.9		2			
						5.9	0.0	335	27.5		7.8		25.4		75.6		5.2		5.0		4			
					Bottom	10.8	0.1	317	27.4	27.4	7.8	7.8	25.4	25.4	75.7	75.8	5.2	5.2	5.3		2			
						10.8	0.1	312	27.4		7.8		25.4		75.8		5.2		5.4		2			
C3	Misty	Calm	17:14	12.0	Surface	1.0	0.5	272	27.3	27.3	7.6	7.6	25.5	25.5	88.6	88.5	6.1	6.0	2.1	3.2	3	3	822097	817784
						1.0	0.5	277	27.2		7.6		25.6		88.4		6.1		2.1		2			
					Middle	6.0	0.4	280	26.4	26.4	7.6	7.6	26.6	26.8	84.7	84.6	5.9		3.2		3			
						6.0	0.4	273	26.4		7.6		27.1		84.5		5.9		3.2		3			
					Bottom	11.0	0.4	244	26.4	26.4	7.6	7.6	29.0	28.9	87.7	88.1	6.0	6.1	4.3		2			
						11.0	0.5	248	26.4		7.6		28.9		88.5		6.1		4.4		2			
IM1	Sunny	Moderate	17:22	6.4	Surface	1.0	0.4	13	27.1	27.1	7.8	7.8	27.1	27.1	70.7	70.6	4.8	4.8	8.9	8.8	2	3	818361	806456
						1.0	0.4	10	27.1		7.8		27.1		70.5		4.8		8.9		4			
					Middle	3.2	0.4	357	26.6	26.6	7.8	7.8	28.6	28.6	69.1	69.1	4.7		8.1		3			
						3.2	0.4	3	26.6		7.8		28.6		69.1		4.7		8.3		2			
					Bottom	5.4	0.3	23	26.4	26.4	7.8	7.8	29.6	29.6	69.1	69.2	4.7	4.7	9.3		2			
						5.4	0.3	24	26.4		7.8		29.6		69.3		4.7		9.1		2			
IM2	Sunny	Moderate	17:17	6.9	Surface	1.0	0.3	349	27.3	27.3	7.9	7.9	26.3	26.3	75.1	75.2	5.1	4.9	7.9	8.4	3	3	819196	806235
						1.0	0.2	351	27.3		7.9		26.3		75.2		5.1		7.2		3			
					Middle	3.5	0.3	345	26.8	26.8	7.8	7.8	28.1	28.1	68.4	68.4	4.7		8.5		3			
						3.5	0.3	351	26.8		7.8		28.1		68.3		4.7		8.1		3			
					Bottom	5.9	0.3	352	26.5	26.5	7.8	7.8	29.4	29.3	68.3	68.4	4.7	4.7	9.3		4			
						5.9	0.3	350	26.5		7.8		29.2		68.5		4.7		9.5		3			
IM7	Sunny	Moderate	16:42	7.2	Surface	1.0	0.2	259	28.4	28.4	7.9	7.9	21.0	21.0	92.7	92.7	6.4	5.8	0.4	5.0	<2	<2	821338	806822
						1.0	0.2	259	28.3		7.9		21.0		92.6		6.4		0.4		<2			
					Middle	3.6	0.2	269	27.6	27.6	7.9	7.9	25.0	25.1	75.3	75.3	5.2		6.0		<2			
						3.6	0.2	270	27.6		7.9		25.1		75.3		5.2		6.7		<2			
					Bottom	6.2	0.3	293	27.5	27.5	7.9	7.9	25.4	25.4	76.0	76.2	5.2	5.2	8.3		<2			
						6.2	0.3	295	27.5		7.9		25.4		76.3		5.2		8.4		<2			

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

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 01 June 23 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		
IM10	Misty	Calm	16:01	13.0	Surface	1.0	0.2	248	28.2	28.2	7.7	7.7	21.6	21.6	100.5	100.4	7.0	6.4	1.4	1.9	<2	<2	822255	809825
						1.0	0.2	245	28.2		7.7		21.6		100.3		6.9		1.3		<2			
					Middle	6.5	0.2	242	27.4	27.4	7.6	7.6	25.0	25.0	83.4	83.5	5.7		1.6		<2			
						6.5	0.2	241	27.3		7.6		25.0		83.5		5.8		1.5		<2			
					Bottom	12.0	0.2	253	27.8	27.9	7.5	7.5	25.2	25.2	85.5	86.2	5.8	5.9	2.8		<2			
						12.0	0.3	260	27.9		7.5		25.1		86.8		5.9		2.7		<2			
IM11	Misty	Calm	16:24	7.6	Surface	1.0	0.4	286	28.5	28.5	7.7	7.7	20.0	20.0	106.8	106.7	7.4	6.5	2.6	3.8	<2	2	821488	810567
						1.0	0.4	289	28.4		7.7		20.0		106.6		7.4		2.7		<2			
					Middle	3.8	0.3	272	27.3	27.4	7.5	7.5	25.3	25.3	81.5	81.6	5.6		3.4		<2			
						3.8	0.4	264	27.4		7.5		25.3		81.6		5.6		3.5		<2			
					Bottom	6.6	0.4	257	27.6	27.7	7.6	7.6	25.3	25.2	83.5	84.2	5.7	5.8	5.3		3			
						6.6	0.4	263	27.7		7.6		25.2		84.9		5.8		5.3		2			
IM12	Misty	Calm	16:28	7.0	Surface	1.0	0.3	291	28.5	28.5	7.7	7.7	20.1	20.1	107.3	107.3	7.5	6.6	2.3	3.7	3	3	821178	811527
						1.0	0.3	297	28.5		7.7		20.1		107.2		7.4		2.3		3			
					Middle	3.5	0.3	269	27.5	27.5	7.6	7.6	24.2	24.4	83.6	83.5	5.8		3.2		3			
						3.5	0.4	270	27.5		7.6		24.6		83.4		5.7		3.3		2			
					Bottom	6.0	0.3	290	27.6	27.7	7.5	7.5	25.2	25.1	83.3	84.0	5.7	5.8	5.6		4			
						6.0	0.3	295	27.7		7.5		25.1		84.6		5.8		5.5		3			
SR1A	Misty	Calm	16:41	4.2	Surface	1.0	0.0	192	27.8	27.8	7.6	7.6	22.0	22.0	95.1	95.0	6.6	6.6	1.3	1.4	3	4	819970	812655
						1.0	0.0	198	27.8		7.6		22.1		94.8		6.6		1.4		3			
					Middle	2.1	0.1	176	-	-	-	-	-	-	-	-	-		-		-			
						2.1	0.0	178	-		-		-		-		-		-		-			
					Bottom	3.2	0.0	211	27.7	27.7	7.5	7.5	25.1	25.1	85.9	86.2	5.9	5.9	1.5		5			
						3.2	0.0	203	27.7		7.5		25.1		86.5		5.9		1.5		4			
SR2	Misty	Calm	16:56	4.0	Surface	1.0	0.1	287	28.7	28.7	7.7	7.7	19.8	19.8	109.6	109.5	7.6	7.6	1.3	1.4	<2	3	821479	814155
						1.0	0.1	284	28.6		7.7		19.8		109.4		7.6		1.3		<2			
					Middle	-	0.2	297	-	-	-	-	-	-	-	-	-		-		-			
						-	0.2	298	-		-		-		-		-		-		-			
					Bottom	3.0	0.1	297	28.4	28.4	7.7	7.7	21.4	21.4	104.4	104.6	7.2	7.2	1.6		3			
						3.0	0.1	295	28.4		7.7		21.3		104.7		7.2		1.5		3			
SR3	Sunny	Moderate	16:36	8.7	Surface	1.0	0.1	258	28.5	28.5	8.0	8.0	20.3	20.3	94.3	94.0	6.6	6.2	2.0	3.9	<2	2	822135	807588
						1.0	0.1	265	28.4		8.0		20.4		93.7		6.5		2.0		<2			
					Middle	4.4	0.1	258	28.0	28.0	7.9	7.9	22.7	22.8	83.8	83.6	5.8		3.4		<2			
						4.4	0.1	251	27.9		7.9		22.9		83.4		5.8		3.9		<2			
					Bottom	7.7	0.1	253	27.5	27.5	7.9	7.9	25.1	25.1	77.7	77.9	5.3	5.4	6.2		2			
						7.7	0.1	260	27.5		7.9		25.1		78.0		5.4		6.2		2			
SR4A	Sunny	Moderate	18:23	9.0	Surface	1.0	0.1	128	29.2	29.2	8.0	8.0	19.8	19.8	93.2	93.1	6.4	5.7	4.7	6.0	2	3	817207	807825
						1.0	0.1	122	29.2		8.0		19.8		92.9		6.4		4.8		3			
					Middle	4.5	0.0	127	27.1	27.1	7.9	7.9	25.6	25.6	72.4	72.5	5.0		6.3		3			
						4.5	0.1	134	27.1		7.9		25.6		72.6		5.0		6.4		3			
					Bottom	8.0	0.1	128	26.9	26.9	7.9	7.9	28.0	28.0	74.0	74.0	5.1	5.1	6.9		4			
						8.0	0.0	125	26.9		7.9		28.0		74.0		5.1		6.9		3			
SR8	Misty	Calm	16:32	3.9	Surface	1.0	-	-	28.5	28.5	7.7	7.7	20.2	20.2	104.8	104.7	7.3	7.3	1.4	2.2	4	3	820410	811640
						1.0	-	-	28.4		7.7		20.2		104.6		7.3		1.4		3			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	2.9	-	-	28.0	28.0	7.6	7.6	22.2	22.2	98.5	98.5	6.8	6.8	2.9		2			
						2.9	-	-	27.9		7.7		22.2		98.4		6.8		2.9		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 June 23 during Mid-Ebb Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA		
C1	Sunny	Moderate	11:05	8.0	Surface	1.0	0.3	195	28.2	28.2	8.0	8.0	22.5	22.5	87.8	87.8	6.1	5.6	2.9	3.4	3	3	815642	804234
						1.0	0.4	197	28.1		8.0		22.5		87.8		6.1		3.0		3			
					Middle	4.0	0.3	209	27.3	27.3	8.0	8.0	26.3	26.3	75.1	73.4	5.1		3.7		2			
						4.0	0.3	213	27.2		8.0		26.3		71.7		4.9		3.7		3			
					Bottom	7.0	0.3	192	26.9	26.9	8.0	8.0	29.3	29.3	70.3	70.4	4.8	4.8	3.6		2			
						7.0	0.2	187	26.9		8.0		29.3		70.4		4.8		3.5		2			
C2	Sunny	Moderate	12:40	11.8	Surface	1.0	0.9	171	28.6	28.6	8.0	8.0	22.1	22.1	86.0	86.0	5.9	5.5	3.3	4.7	<2	3	825697	806939
						1.0	0.9	167	28.6		8.0		22.1		86.0		5.9		3.3		<2			
					Middle	5.9	0.9	156	28.0	28.0	8.0	8.0	23.9	23.9	72.6	72.5	5.0		4.8		3			
						5.9	0.9	161	28.0		8.0		23.9		72.4		5.0		4.9		2			
					Bottom	10.8	0.9	191	27.8	27.8	8.0	8.0	24.7	24.7	71.2	71.3	4.9	4.9	6.0		3			
						10.8	0.8	186	27.8		8.0		24.7		71.3		4.9		6.1		3			
C3	Misty	Calm	11:35	12.0	Surface	1.0	0.4	68	27.6	27.6	7.5	7.5	26.2	26.2	85.3	85.3	5.8	5.7	1.1	1.5	3	3	822090	817800
						1.0	0.4	68	27.6		7.5		26.2		85.2		5.8		1.1		2			
					Middle	6.0	0.4	61	27.3	27.3	7.4	7.4	26.8	26.8	82.4	82.4	5.6		1.2		4			
						6.0	0.4	54	27.3		7.4		26.9		82.3		5.6		1.2		3			
					Bottom	11.0	0.4	63	27.2	27.3	7.5	7.5	26.9	26.9	82.3	82.3	5.6	5.6	2.4		4			
						11.0	0.4	59	27.3		7.5		26.9		82.3		5.6		2.3		4			
IM1	Sunny	Moderate	11:27	6.6	Surface	1.0	0.3	197	28.3	28.3	8.1	8.1	23.3	23.3	87.2	87.2	6.0	5.6	2.0	3.8	2	2	818350	806449
						1.0	0.2	202	28.3		8.1		23.3		87.2		6.0		2.0		2			
					Middle	3.3	0.3	186	27.4	27.4	8.1	8.1	27.1	27.2	74.6	74.6	5.1		3.4		2			
						3.3	0.3	189	27.3		8.1		27.3		74.5		5.1		3.4		2			
					Bottom	5.6	0.3	167	27.0	27.0	8.0	8.0	28.8	28.7	73.6	73.7	5.0	5.0	6.1		<2			
						5.6	0.3	171	27.0		8.0		28.7		73.7		5.0		6.1		<2			
IM2	Sunny	Moderate	11:33	7.6	Surface	1.0	0.3	188	27.8	27.8	7.9	7.9	25.7	25.7	70.7	70.7	4.8	4.9	5.6	6.4	6	7	819202	806229
						1.0	0.3	188	27.8		7.9		25.7		70.7		4.8		5.7		6			
					Middle	3.8	0.3	209	27.6	27.6	7.9	7.9	26.3	26.4	71.5	71.5	4.9		5.4		6			
						3.8	0.3	213	27.5		7.9		26.4		71.5		4.9		5.4		7			
					Bottom	6.6	0.3	204	26.9	26.9	8.0	8.0	28.8	28.8	70.3	70.4	4.8	4.8	8.4		8			
						6.6	0.3	202	26.9		8.0		28.8		70.4		4.8		8.1		8			
IM7	Sunny	Moderate	11:59	8.5	Surface	1.0	0.3	155	28.2	28.2	8.1	8.1	23.6	23.7	79.5	79.4	5.4	5.3	3.6	5.3	4	5	821327	806821
						1.0	0.3	152	28.2		8.2		23.7		79.3		5.4		3.7		5			
					Middle	4.3	0.3	147	28.0	28.0	8.2	8.2	24.5	24.5	75.5	75.5	5.2		4.2		5			
						4.3	0.3	143	28.0		8.2		24.5		75.5		5.2		4.4		4			
					Bottom	7.5	0.2	181	27.7	27.7	8.1	8.1	25.3	25.3	71.5	71.6	4.9	4.9	8.1		5			
						7.5	0.2	182	27.7		8.1		25.3		71.6		4.9		8.1		6			

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

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 03 June 23 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		
IM10	Misty	Calm	12:52	11.0	Surface	1.0	0.7	117	28.8	28.8	7.6	7.6	21.7	21.7	107.2	107.9	7.3	7.2	1.1	1.8	3	2	822262	809829
						1.0	0.8	110	28.7		7.6		21.8		108.5		7.4		1.1		2			
					Middle	5.5	0.8	129	28.6	28.6	7.5	7.5	22.0	22.0	102.2	102.1	7.0		1.4		2			
						5.5	0.8	134	28.5		7.5		22.1		101.9		7.0		1.5		2			
					Bottom	10.0	0.7	101	28.5	28.5	7.5	7.5	22.1	22.0	100.8	100.6	6.9	6.9	2.7		2			
						10.0	0.7	108	28.5		7.5		22.0		100.3		6.9		2.8		2			
IM11	Misty	Calm	12:45	8.8	Surface	1.0	0.8	107	29.1	29.1	7.6	7.6	21.3	21.3	102.0	102.0	7.0	6.8	1.5	3.0	2	2	821495	810561
						1.0	0.8	101	29.1		7.6		21.3		101.9		7.0		1.4		2			
					Middle	4.4	0.8	90	28.7	28.7	7.5	7.5	22.6	22.6	93.1	94.9	6.4		2.9		2			
						4.4	0.8	94	28.7		7.5		22.6		96.7		6.6		2.9		2			
					Bottom	7.8	0.8	91	27.7	27.8	7.4	7.4	24.5	24.3	87.0	88.0	6.0	6.1	4.6		2			
						7.8	0.8	85	27.9		7.4		24.1		88.9		6.1		4.6		3			
IM12	Misty	Calm	12:38	7.0	Surface	1.0	0.9	96	28.0	28.0	7.5	7.5	24.1	24.2	85.8	85.8	5.9	5.8	3.0	4.9	2	3	821151	811533
						1.0	0.8	90	28.0		7.5		24.2		85.8		5.9		3.1		3			
					Middle	3.5	0.9	117	27.7	27.7	7.5	7.5	24.7	24.7	81.8	81.9	5.6		5.5		3			
						3.5	0.9	110	27.7		7.5		24.7		81.9		5.6		5.5		2			
					Bottom	6.0	0.9	112	27.7	27.7	7.4	7.4	24.6	24.6	83.4	83.7	5.7	5.8	6.3		3			
						6.0	0.9	115	27.7		7.4		24.6		84.0		5.8		6.3		3			
SR1A	Misty	Calm	12:18	4.2	Surface	1.0	-	101	28.3	28.3	7.5	7.5	24.2	24.2	86.8	86.8	5.9	5.9	1.8	2.2	4	3	819973	812656
						1.0	0.0	106	28.3		7.5		24.2		86.8		5.9		1.8		3			
					Middle	2.1	0.1	134	-	-		-	-	-	-	-	-		-		-			
						2.1	0.0	128	-				-		-		-		-		-			
					Bottom	3.2	0.0	91	28.3	28.3	7.5	7.5	24.3	24.3	86.7	86.8	5.9	5.9	2.8		2			
						3.2	0.0	88	28.3		7.5		24.3		86.8		5.9		2.7		2			
SR2	Misty	Calm	12:03	4.0	Surface	1.0	0.7	58	28.3	28.3	7.5	7.5	22.8	22.8	96.9	97.0	6.7	6.7	2.9	3.6	2	3	821473	814153
						1.0	0.6	58	28.3		7.5		22.8		97.0		6.7		2.9		2			
					Middle	-	0.7	64	-	-	-	-	-	-	-	-	-		-		-			
						-	0.7	64	-		-		-		-		-		-		-			
					Bottom	3.0	0.7	45	28.0	28.0	7.4	7.4	23.4	23.3	92.7	92.8	6.4	6.4	4.4		3			
						3.0	0.6	48	28.0		7.4		23.3		92.8		6.4		4.3		3			
SR3	Sunny	Moderate	12:05	8.8	Surface	1.0	0.6	173	28.1	28.1	8.0	8.0	24.2	24.2	71.3	71.3	4.9	4.9	6.4	7.0	8	7	822134	807583
						1.0	0.6	173	28.1		8.0		24.3		71.2		4.9		6.7		7			
					Middle	4.4	0.6	156	27.8	27.8	8.0	8.0	24.8	24.8	71.0	71.0	4.9		8.9		6			
						4.4	0.6	157	27.8		8.0		24.8		71.0		4.9		8.9		6			
					Bottom	7.8	0.6	160	27.7	27.7	8.0	8.0	25.4	25.4	71.0	71.0	4.9	4.9	5.4		6			
						7.8	0.6	163	27.7		8.0		25.4		71.0		4.9		5.4		6			
SR4A	Sunny	Moderate	10:39	9.4	Surface	1.0	0.0	84	28.4	28.4	8.2	8.2	23.3	23.3	82.7	82.7	5.7	5.2	8.8	8.6	3	3	817172	807798
						1.0	0.0	89	28.4		8.2		23.3		82.7		5.7		8.8		4			
					Middle	4.7	0.0	85	27.8	27.8	8.3	8.3	25.3	25.3	68.7	68.6	4.7		6.5		4			
						4.7	-	79	27.8		8.3		25.4		68.4		4.7		6.7		3			
					Bottom	8.4	0.0	83	27.8	27.8	8.2	8.2	25.7	25.7	67.3	67.4	4.6	4.6	10.2		2			
						8.4	0.0	87	27.8		8.2		25.7		67.4		4.6		10.4		4			
SR8	Misty	Calm	12:34	4.2	Surface	1.0	-	-	28.6	28.6	7.5	7.5	23.0	23.0	94.9	94.9	6.5	6.5	2.9	3.2	3	3	820385	811610
						1.0	-	-	28.6		7.5		23.0		94.9		6.5		3.0		4			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.2	-	-	28.5	28.5	7.5	7.4	23.1	23.0	92.7	92.7	6.3	6.3	3.6		3			
						3.2	-	-	28.5		7.4		23.0		92.6		6.3		3.6		3			

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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 June 23 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	19:37	8.3	Surface	1.0	0.4	42	28.6	28.6	8.0	8.0	23.2	23.2	89.9	89.9	6.1	6.1	1.4	5.8	2	2	815596	804232
						1.0	0.4	46	28.6		8.0		23.2		89.9		6.1		1.4		2			
					Middle	4.2	0.5	53	28.6	27.8	8.0	8.0	23.3	23.4	89.8	85.7	6.1		7.4		<2			
						4.2	0.5	59	27.0		8.0		23.6		81.5		6.1		7.2		<2			
					Bottom	7.3	0.5	31	26.9	26.9	7.9	7.9	28.9	28.9	72.0	72.1	4.9	4.9	9.0		<2			
						7.3	0.5	38	26.9		7.9		28.9		72.1		4.9		8.9		<2			
C2	Sunny	Moderate	17:53	12.2	Surface	1.0	0.0	261	28.7	28.7	7.9	7.9	22.1	22.1	85.4	85.4	5.8	5.4	3.5	4.7	2	2	825666	806938
						1.0	0.0	262	28.7		7.9		22.1		85.4		5.8		3.4		2			
					Middle	6.1	0.1	248	28.0	28.0	7.9	7.9	23.9	23.9	72.2	72.2	5.0		4.9		2			
						6.1	0.1	248	28.0		7.9		24.0		72.1		4.9		4.9		2			
					Bottom	11.2	0.0	256	27.9	27.9	7.9	7.9	24.6	24.6	71.4	71.5	4.9	4.9	5.7		2			
						11.2	0.0	259	27.9		7.9		24.6		71.5		4.9		5.7		3			
C3	Misty	Calm	18:59	10.0	Surface	1.0	0.5	246	27.6	27.6	7.6	7.5	26.1	26.1	84.9	84.9	5.8	5.6	4.0	5.2	3	3	822114	817804
						1.0	0.5	247	27.6		7.5		26.1		84.9		5.8		4.0		3			
					Middle	5.0	0.5	254	26.8	26.8	7.5	7.5	28.0	28.0	79.1	78.6	5.4		5.4		3			
						5.0	0.5	249	26.7		7.5		28.1		78.1		5.3		5.5		3			
					Bottom	9.0	0.5	251	26.7	26.7	7.5	7.5	28.2	28.2	74.1	74.2	5.1	5.1	6.0		4			
						9.0	0.5	254	26.7		7.5		28.2		74.2		5.1		6.0		3			
IM1	Sunny	Moderate	19:14	6.3	Surface	1.0	0.3	4	28.2	28.2	7.9	7.9	24.4	24.4	80.1	80.1	5.5	5.1	3.2	7.8	4	3	818347	806479
						1.0	0.3	11	28.2		7.9		24.4		80.0		5.4		3.2		3			
					Middle	3.2	0.3	3	27.0	27.0	7.9	7.9	28.6	28.6	69.6	69.6	4.7		8.2		4			
						3.2	0.4	4	27.0		7.9		28.6		69.6		4.7		8.9		3			
					Bottom	5.3	0.3	8	26.9	26.9	7.9	7.9	28.8	28.8	70.4	70.5	4.8	4.8	11.2		<2			
						5.3	0.3	0	26.9		7.9		28.8		70.6		4.8		12.0		<2			
IM2	Sunny	Moderate	19:10	7.0	Surface	1.0	0.3	351	28.1	28.1	8.0	8.0	24.8	24.8	77.5	77.5	5.3	5.0	6.7	7.5	6	6	819162	806236
						1.0	0.3	344	28.1		8.0		24.8		77.4		5.3		6.7		7			
					Middle	3.5	0.3	3	27.2	27.2	8.1	8.1	27.8	27.9	69.4	69.4	4.7		7.2		6			
						3.5	0.3	357	27.1		8.1		28.0		69.3		4.7		7.5		5			
					Bottom	6.0	0.3	3	26.9	26.9	8.1	8.0	28.8	28.8	69.5	69.6	4.7	4.7	8.4		4			
						6.0	0.3	358	26.9		8.0		28.8		69.6		4.7		8.6		5			
IM7	Sunny	Moderate	18:38	8.0	Surface	1.0	0.2	299	28.7	28.7	7.9	7.9	22.8	22.8	83.8	83.5	5.7	5.3	2.6	7.8	3	3	821335	806816
						1.0	0.2	294	28.6		7.9		22.9		83.2		5.7		2.7		3			
					Middle	4.0	0.2	302	27.8	27.8	7.9	7.9	24.8	24.9	71.1	71.1	4.9		8.1		3			
						4.0	0.2	300	27.8		7.9		24.9		71.1		4.9		8.7		4			
					Bottom	7.0	0.2	294	27.7	27.7	7.9	7.9	25.3	25.3	72.2	72.2	4.9	4.9	12.3		4			
						7.0	0.2	297	27.7		7.9		25.3		72.2		4.9		12.3		3			

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Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 03 June 23 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		
IM10	Misty	Calm	17:46	12.2	Surface	1.0	0.2	240	29.0	29.0	7.6	7.6	21.0	21.1	111.2	111.2	7.6	7.4	1.1	1.7	3	3	822263	809849
						1.0	0.3	232	29.0		7.6		21.2		111.2		7.6		1.1		3			
					Middle	6.1	0.2	246	28.5	28.5	7.6	7.6	22.2	22.2	103.4	103.4	7.1		1.3		2			
						6.1	0.2	244	28.5		7.6		22.2		103.3		7.1		1.3		3			
					Bottom	11.2	0.2	261	28.6	28.6	7.6	7.6	22.0	22.0	101.5	103.3	7.0	7.1	2.7		3			
						11.2	0.2	261	28.6		7.6		22.0		105.1		7.2		2.6		3			
IM11	Misty	Calm	18:09	7.6	Surface	1.0	0.4	270	28.6	28.6	7.6	7.6	22.2	22.2	99.4	99.4	6.8	6.4	3.3	4.4	4	3	821520	810551
						1.0	0.3	263	28.6		7.6		22.2		99.3		6.8		3.3		3			
					Middle	3.8	0.4	269	28.1	28.1	7.5	7.5	23.9	23.8	86.5	86.5	5.9		4.4		3			
						3.8	0.4	272	28.1		7.5		23.8		86.4		5.9		4.5		3			
					Bottom	6.6	0.4	281	27.8	27.9	7.4	7.4	23.9	23.9	84.5	85.1	5.8	5.9	5.6		3			
						6.6	0.4	287	27.9		7.4		23.8		85.7		5.9		5.5		2			
IM12	Misty	Calm	18:17	7.0	Surface	1.0	0.3	300	28.2	28.2	7.5	7.5	23.8	23.8	87.6	87.6	6.0	5.9	4.2	5.3	3	3	821178	811535
						1.0	0.3	300	28.1		7.5		23.8		87.5		6.0		4.2		4			
					Middle	3.5	0.3	287	27.9	27.9	7.5	7.5	24.2	24.2	82.7	82.8	5.7		5.0		3			
						3.5	0.4	288	27.9		7.5		24.2		82.9		5.7		5.1		3			
					Bottom	6.0	0.4	289	27.9	27.9	7.4	7.4	24.2	24.2	83.9	84.1	5.8	5.8	6.5		3			
						6.0	0.4	284	27.9		7.4		24.2		84.3		5.8		6.6		3			
SR1A	Misty	Calm	18:26	4.6	Surface	1.0	0.1	194	28.6	28.6	7.6	7.5	23.2	23.2	96.3	96.3	6.6	6.6	3.6	3.9	2	3	819975	812655
						1.0	0.1	193	28.6		7.5		23.2		96.2		6.6		3.6		2			
					Middle	2.3	0.0	205	-	-	-	-	-	-	-	-	-		-		-			
						2.3	0.1	209	-		-		-		-		-		-		-			
					Bottom	3.6	0.0	216	28.3	28.3	7.5	7.5	23.8	23.8	91.7	91.8	6.3	6.3	4.2		3			
						3.6	0.0	212	28.3		7.5		23.8		91.9		6.3		4.2		4			
SR2	Misty	Calm	18:42	4.0	Surface	1.0	0.1	290	29.2	29.2	7.5	7.5	22.2	22.2	105.7	105.7	7.2	7.2	2.3	3.1	4	3	821476	814152
						1.0	0.1	283	29.2		7.5		22.2		105.6		7.2		2.3		3			
					Middle	-	0.2	287	-	-	-	-	-	-	-	-	-		-		-			
						-	0.2	290	-		-		-		-		-		-		-			
					Bottom	3.0	0.1	266	29.0	29.1	7.5	7.5	22.3	22.2	101.4	101.2	6.9	6.9	3.9		3			
						3.0	0.1	259	29.1		7.5		22.2		101.0		6.9		3.9		2			
SR3	Sunny	Moderate	18:30	8.8	Surface	1.0	0.1	252	29.0	29.0	8.0	8.0	22.0	22.0	88.2	88.2	6.0	5.5	2.0	4.0	3	3	822135	807549
						1.0	0.1	253	29.0		8.0		22.0		88.2		6.0		2.0		3			
					Middle	4.4	0.1	264	28.0	28.0	7.9	7.9	24.4	24.5	71.8	71.7	4.9		4.7		3			
						4.4	0.0	262	28.0		7.9		24.5		71.6		4.9		4.7		3			
					Bottom	7.8	0.0	264	27.7	27.7	7.9	7.9	25.4	25.4	71.6	71.7	4.9	4.9	5.4		2			
						7.8	0.1	270	27.7		7.9		25.4		71.7		4.9		5.5		3			
SR4A	Sunny	Moderate	20:08	8.6	Surface	1.0	0.0	130	28.7	28.7	8.0	8.0	23.2	23.2	86.1	86.1	5.9	5.3	2.6	4.2	3	4	817167	807803
						1.0	0.0	125	28.7		8.0		23.2		86.1		5.9		2.6		3			
					Middle	4.3	0.1	111	27.9	27.9	8.0	8.0	25.0	25.1	69.8	69.7	4.8		4.5		4			
						4.3	0.0	118	27.9		8.0		25.1		69.5		4.7		4.6		5			
					Bottom	7.6	0.0	153	27.7	27.7	8.0	8.0	25.9	25.9	68.7	68.8	4.7	4.7	5.3		5			
						7.6	0.1	158	27.7		8.0		25.9		68.8		4.7		5.5		6			
SR8	Misty	Calm	18:13	4.6	Surface	1.0	-	-	28.8	28.8	7.6	7.6	22.1	22.1	101.0	100.9	6.9	6.9	2.1	3.0	3	3	820381	811625
						1.0	-	-	28.8		7.6		22.1		100.8		6.9		2.1		3			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.6	-	-	28.6	28.6	7.6	7.6	22.7	22.7	95.4	97.2	6.5	6.7	3.8		3			
						3.6	-	-	28.6		7.6		22.7		98.9		6.8		3.8		4			

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Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 06 June 23 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	Moderate	14:26	0.0	Surface	1.0	0.7	211	28.3	28.3	8.1	8.1	26.3	26.3	80.5	80.5	5.4	5.4	4.6	5.4	7	8	815601	804261
						1.0	0.7	206	28.3		8.1		26.4		80.5		5.4		4.7		8			
					Middle	4.3	0.8	202	28.1	28.1	8.1	8.1	27.4	27.4	80.2	80.2	5.4		5.9		9			
						4.3	0.8	199	28.1		8.1		27.4		80.2		5.4		6.0		8			
					Bottom	7.6	0.8	203	28.1	28.1	8.1	8.1	27.4	27.4	82.4	84.0	5.5	5.6	5.7		8			
						7.6	0.8	204	28.1		8.1		27.4		85.5		5.7		5.7		9			
C2	Rainy	Moderate	12:51	0.0	Surface	1.0	0.7	178	28.5	28.5	8.0	8.0	24.2	24.2	76.6	76.6	5.2	5.0	8.9	10.3	5	5	825692	806968
						1.0	0.8	174	28.5		8.0		24.3		76.5		5.2		8.8		4			
					Middle	6.0	0.7	168	27.9	27.9	8.0	8.0	26.4	26.4	70.0	70.0	4.7		10.3		4			
						6.0	0.7	164	27.8		8.0		26.5		69.9		4.7		10.5		5			
					Bottom	10.9	0.7	150	27.7	27.7	8.0	8.0	27.0	27.0	70.4	70.4	4.8	4.8	11.3		7			
						10.9	0.7	157	27.7		8.0		27.0		70.4		4.8		11.8		6			
C3	Rainy	Rough	14:37	0.0	Surface	1.0	0.4	40	27.4	27.4	7.9	7.9	26.2	26.2	85.5	85.5	5.8	5.6	5.3	6.7	6	5	822124	817786
						1.0	0.4	46	27.4		7.9		26.2		85.5		5.8		5.4		5			
					Middle	6.5	0.4	54	27.4	27.4	7.9	7.9	26.2	26.2	78.3	78.3	5.4		6.4		5			
						6.5	0.4	49	27.4		7.9		26.2		78.2		5.4		6.4		6			
					Bottom	11.9	0.4	37	26.8	26.8	7.9	7.9	27.8	27.8	70.9	70.9	4.9	4.9	8.3		5			
						11.9	0.4	43	26.8		7.9		27.8		70.9		4.9		8.4		4			
IM1	Rainy	Moderate	14:04	0.0	Surface	1.0	0.5	190	28.4	28.4	8.1	8.1	25.8	25.8	81.2	81.2	5.5	5.5	3.7	5.4	7	7	818340	806458
						1.0	0.5	187	28.4		8.1		25.8		81.2		5.5		3.8		7			
					Middle	3.3	0.6	201	28.2	28.2	8.1	8.1	26.9	26.9	80.5	80.5	5.4		4.0		6			
						3.3	0.5	195	28.1		8.1		27.0		80.5		5.4		4.1		8			
					Bottom	5.5	0.5	210	28.1	28.1	8.1	8.1	27.2	27.2	80.8	80.9	5.4	5.4	8.6		8			
						5.5	0.5	203	28.1		8.1		27.2		80.9		5.4		8.4		8			
IM2	Rainy	Moderate	14:00	0.0	Surface	1.0	0.6	184	28.4	28.4	8.1	8.1	25.9	25.9	82.8	82.8	5.6	5.5	4.0	7.0	5	5	819182	806248
						1.0	0.6	176	28.4		8.1		26.0		82.7		5.6		4.2		5			
					Middle	3.9	0.7	197	28.1	28.1	8.1	8.1	27.1	27.1	80.0	80.1	5.4		6.3		4			
						3.9	0.6	195	28.1		8.1		27.1		80.2		5.4		6.2		5			
					Bottom	6.8	0.7	211	28.0	28.0	8.1	8.1	27.2	27.2	81.0	81.1	5.5	5.5	11.0		4			
						6.8	0.7	215	28.0		8.1		27.2		81.2		5.5		10.3		5			
IM7	Rainy	Moderate	13:26	0.0	Surface	1.0	0.4	173	28.5	28.5	8.0	8.0	24.6	24.6	81.2	81.2	5.5	5.5	5.7	6.2	4	5	821351	806828
						1.0	0.4	175	28.5		8.0		24.6		81.1		5.5		5.7		5			
					Middle	3.8	0.3	181	28.3	28.3	8.0	8.0	25.4	25.4	79.9	80.0	5.4		6.3		4			
						3.8	0.3	184	28.3		8.0		25.4		80.0		5.4		6.3		6			
					Bottom	6.6	0.3	170	28.3	28.3	8.0	8.0	25.5	25.5	80.2	80.4	5.4	5.4	6.5		7			
						6.6	0.3	164	28.3		8.0		25.4		80.5		5.4		6.3		6			

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Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 06 June 23 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		
IM10	Rainy	Rough	12:57	0.0	Surface	1.0	0.8	105	27.8	27.8	7.9	7.9	24.9	24.9	80.4	80.2	5.5	5.4	5.6	6.5	10	8	822244	809820
						1.0	0.7	108	27.8		7.9		24.9		80.0		5.5		5.6		9			
					Middle	4.4	0.7	95	27.8	27.8	7.9	7.9	25.4	25.4	76.3	76.3	5.2		6.7		8			
						4.4	0.7	100	27.8		7.9		25.4		76.3		5.2		6.8		8			
					Bottom	7.8	0.7	119	27.7	27.7	7.9	7.9	25.4	25.4	75.9	75.9	5.2	5.2	7.2		7			
						7.8	0.7	124	27.7		7.9		25.4		75.9		5.2		7.3		8			
IM11	Rainy	Rough	13:12	0.0	Surface	1.0	0.8	104	27.9	27.9	7.9	7.9	24.8	24.9	85.6	85.4	5.9	5.7	4.2	5.5	10	9	821510	810551
						1.0	0.9	108	27.8		7.9		24.9		85.2		5.8		4.2		10			
					Middle	4.1	0.8	106	27.8	27.8	7.9	7.9	25.1	25.1	81.0	81.0	5.5		5.9		9			
						4.1	0.8	112	27.8		7.9		25.1		81.0		5.5		5.9		9			
					Bottom	7.1	0.8	107	27.8	27.8	7.9	7.9	25.4	25.4	77.2	77.3	5.3	5.3	6.5		8			
						7.1	0.8	109	27.8		7.9		25.3		77.3		5.3		6.5		9			
IM12	Rainy	Rough	13:26	0.0	Surface	1.0	0.9	115	27.8	27.8	7.9	7.9	25.2	25.2	78.9	78.9	5.4	5.2	3.5	6.0	7	8	821172	811542
						1.0	0.9	111	27.8		7.9		25.2		78.9		5.4		3.5		7			
					Middle	3.9	0.9	120	27.6	27.6	7.9	7.9	26.0	26.0	73.0	73.0	5.0		7.0		8			
						3.9	0.9	112	27.6		7.9		26.0		73.0		5.0		7.0		9			
					Bottom	6.7	1.0	123	27.5	27.5	7.9	7.9	26.1	26.1	73.4	73.4	5.0	5.0	7.6		10			
						6.7	1.0	126	27.5		7.9		26.1		73.4		5.0		7.6		9			
SR1A	Rainy	Moderate	14:04	0.0	Surface	1.0	0.0	71	27.9	27.9	7.9	7.9	24.9	24.9	83.6	83.6	5.7	5.7	4.4	4.9	4	4	819974	812661
						1.0	0.1	78	27.9		7.9		24.9		83.6		5.7		4.5		5			
					Middle	2.1	0.0	76	-	-	-	-	-	-	-	-	-		-		-			
						2.1	-	77	-		-		-		-		-		-		-			
					Bottom	3.2	-	86	27.8	27.8	7.9	7.9	24.9	24.9	81.5	81.6	5.6	5.6	5.2		4			
						3.2	0.0	79	27.8		7.9		24.9		81.6		5.6		5.2		4			
SR2	Rainy	Moderate	14:17	0.0	Surface	1.0	0.7	38	27.2	27.2	7.9	7.9	26.5	26.5	75.1	75.1	5.1	5.1	9.1	9.3	5	5	821479	814158
						1.0	0.7	34	27.2		7.9		26.5		75.1		5.1		9.1		5			
					Middle	-	0.8	33	-	-	-	-	-	-	-	-	-		-		-			
						-	0.8	38	-		-		-		-		-		-		-			
					Bottom	3.4	0.7	38	26.9	26.9	7.9	7.9	27.4	27.4	72.3	72.3	5.0	5.0	9.4		5			
						3.4	0.8	42	26.9		7.9		27.4		72.3		5.0		9.5		6			
SR3	Rainy	Moderate	13:21	0.0	Surface	1.0	0.6	156	28.6	28.6	8.0	8.0	24.3	24.3	79.2	79.2	5.4	5.4	4.7	7.7	9	9	822155	807572
						1.0	0.6	159	28.6		8.0		24.4		79.1		5.4		4.9		9			
					Middle	4.4	0.6	142	28.3	28.3	8.0	8.0	25.5	25.6	80.4	80.6	5.4		8.6		9			
						4.4	0.6	142	28.3		8.0		25.6		80.7		5.5		8.8		9			
					Bottom	7.7	0.7	156	28.3	28.3	8.0	8.0	25.9	25.9	83.5	83.6	5.6	5.7	9.8		9			
						7.7	0.7	157	28.3		8.0		25.9		83.7		5.7		9.7		9			
SR4A	Rainy	Moderate	14:55	0.0	Surface	1.0	0.0	9	28.2	28.2	8.1	8.1	26.5	26.5	75.8	75.8	5.1	5.1	6.4	5.8	7	8	817184	807812
						1.0	0.1	3	28.2		8.1		26.5		75.8		5.1		6.4		7			
					Middle	4.7	0.1	355	28.1	28.1	8.1	8.1	26.8	26.8	76.4	76.5	5.1		5.6		8			
						4.7	0.0	356	28.1		8.1		26.8		76.5		5.2		5.6		8			
					Bottom	8.3	0.0	33	28.1	28.1	8.1	8.1	26.8	26.8	77.4	77.5	5.2	5.2	5.4		8			
						8.3	0.0	37	28.1		8.1		26.8		77.5		5.2		5.2		9			
SR8	Rainy	Moderate	13:32	0.0	Surface	1.0	-	-	27.8	27.8	7.9	7.9	24.8	24.8	79.9	79.9	5.5	5.5	2.9	4.2	3	4	820377	811609
						1.0	-	-	27.8		7.9		24.8		79.9		5.5		2.9		4			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.8	-	-	27.6	27.6	7.9	7.9	25.9	25.9	73.7	73.8	5.0	5.0	5.6		5			
						3.8	-	-	27.6		7.9		25.9		73.8		5.0		5.6		5			

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Water Quality Monitoring
Water Quality Monitoring Results on 06 June 23 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA		
C1	Cloudy	Moderate	07:05	0.0	Surface	1.0	0.3	40	28.2	28.2	8.1	8.1	27.2	27.2	81.8	81.8	5.5	5.5	9.0	9.3	7	8	815613	804237
						1.0	0.3	40	28.2		8.1		27.2		81.7		5.5		9.2		7			
					Middle	4.1	0.3	45	28.2	28.2	8.1	8.1	27.2	27.2	81.9	82.0	5.5		9.3		7			
						4.1	0.3	51	28.2		8.1		27.2		82.0		5.5		9.2		8			
					Bottom	7.2	0.4	19	27.9	27.9	8.1	8.1	27.5	27.5	81.9	82.0	5.5	5.5	9.5		8			
						7.2	0.4	12	27.9		8.1		27.5		82.1		5.5		9.9		8			
C2	Rainy	Moderate	08:50	0.0	Surface	1.0	0.3	5	28.5	28.5	8.0	8.0	24.2	24.2	78.5	78.5	5.3	5.1	9.0	10.9	10	9	825701	806948
						1.0	0.3	8	28.5		8.0		24.2		78.4		5.3		9.1		10			
					Middle	5.8	0.3	7	27.9	27.9	8.0	8.0	26.3	26.3	72.8	72.8	4.9		9.9		9			
						5.8	0.4	5	27.9		8.0		26.4		72.7		4.9		9.9		9			
					Bottom	10.5	0.3	357	27.8	27.8	8.0	8.0	26.6	26.6	72.8	74.4	4.9	5.0	13.7		7			
						10.5	0.3	355	27.8		8.0		26.6		75.9		5.1		13.6		8			
C3	Rainy	Rough	06:19	0.0	Surface	1.0	0.4	253	27.8	27.8	7.9	7.9	24.6	24.6	82.8	82.8	5.7	5.4	3.2	4.8	6	6	822107	817813
						1.0	0.4	259	27.8		7.9		24.6		82.8		5.7		3.2		6			
					Middle	6.6	0.4	271	27.5	27.5	7.9	7.9	25.9	25.9	75.2	75.1	5.1		4.9		5			
						6.6	0.4	274	27.5		7.9		26.0		74.9		5.1		4.9		6			
					Bottom	12.2	0.4	251	27.2	27.2	7.9	7.9	26.4	26.4	73.4	73.4	5.0	5.0	6.2		5			
						12.2	0.4	251	27.2		7.9		26.4		73.4		5.0		6.3		5			
IM1	Cloudy	Moderate	07:29	0.0	Surface	1.0	0.2	17	28.4	28.4	8.0	8.0	26.0	26.1	82.9	82.9	5.6	5.6	5.3	5.8	8	7	818363	806475
						1.0	0.2	18	28.4		8.0		26.1		82.9		5.6		5.3		7			
					Middle	3.1	0.3	12	28.2	28.2	8.1	8.1	26.7	26.7	82.5	82.5	5.6		5.9		7			
						3.1	0.3	17	28.2		8.1		26.8		82.5		5.5		5.9		6			
					Bottom	5.2	0.3	18	28.1	28.1	8.1	8.1	27.1	27.1	82.7	83.0	5.6	5.6	6.2		6			
						5.2	0.3	13	28.1		8.1		27.1		83.2		5.6		6.2		7			
IM2	Rainy	Moderate	07:34	0.0	Surface	1.0	0.3	14	28.4	28.4	8.0	8.0	25.8	25.9	82.4	82.5	5.5	5.5	4.6	6.6	9	8	819193	806238
						1.0	0.4	8	28.4		8.1		25.9		82.5		5.6		4.7		9			
					Middle	3.5	0.3	5	28.2	28.2	8.1	8.1	26.9	26.9	81.6	81.7	5.5		7.0		8			
						3.5	0.3	10	28.2		8.1		27.0		81.7		5.5		7.2		8			
					Bottom	6.0	0.3	30	28.1	28.1	8.1	8.1	27.1	27.1	82.7	82.9	5.6	5.6	8.2		8			
						6.0	0.3	37	28.1		8.1		27.1		83.0		5.6		8.1		8			
IM7	Rainy	Moderate	08:11	0.0	Surface	1.0	0.3	6	28.3	28.3	8.0	8.0	25.5	25.6	75.5	75.4	5.1	5.1	8.9	9.6	7	8	821339	806831
						1.0	0.3	8	28.3		8.0		25.6		75.3		5.1		9.3		7			
					Middle	4.2	0.3	28	28.2	28.2	8.0	8.0	26.2	26.2	74.6	74.6	5.0		9.1		8			
						4.2	0.3	22	28.2		8.0		26.2		74.6		5.0		9.1		8			
					Bottom	7.4	0.2	355	28.2	28.2	8.0	8.0	26.2	26.2	76.9	77.1	5.2	5.2	10.9		10			
						7.4	0.3	356	28.2		8.0		26.2		77.3		5.2		10.2		9			

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

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 06 June 23 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		
IM10	Rainy	Rough	07:55	0.0	Surface	1.0	0.4	304	27.8	27.8	7.9	7.9	24.9	24.9	82.4	82.3	5.6	5.4	6.4	7.8	4	4	822260	809844
						1.0	0.4	299	27.8		7.9		25.0		82.2		5.6		6.4		5			
					Middle	4.6	0.4	302	27.8	27.8	7.9	7.9	25.4	25.4	76.3	76.3	5.2		8.0		5			
						4.6	0.4	295	27.8		7.9		25.4		76.3		5.2		8.0		4			
					Bottom	8.1	0.4	276	27.7	27.7	7.9	7.9	25.5	25.5	76.0	76.0	5.2	5.2	8.9		3			
						8.1	0.4	273	27.7		7.9		25.5		76.0		5.2		9.0		4			
IM11	Rainy	Rough	07:40	0.0	Surface	1.0	0.5	280	27.8	27.8	7.9	7.9	24.6	24.6	83.7	83.7	5.7	5.5	4.7	5.8	2	4	821497	810565
						1.0	0.5	282	27.8		7.9		24.6		83.6		5.7		4.7		4			
					Middle	4.3	0.5	279	27.8	27.8	7.9	7.9	25.1	25.1	77.8	77.9	5.3		6.5		4			
						4.3	0.6	284	27.8		7.9		25.0		77.9		5.3		6.5		4			
					Bottom	7.5	0.5	288	27.8	27.8	7.9	7.9	25.3	25.3	77.4	77.4	5.3	5.3	6.3		6			
						7.5	0.5	285	27.8		7.9		25.3		77.4		5.3		6.3		6			
IM12	Rainy	Rough	07:32	0.0	Surface	1.0	0.5	280	27.7	27.7	7.9	7.9	25.3	25.3	81.7	81.6	5.6	5.5	4.6	5.9	5	5	821168	811498
						1.0	0.4	285	27.7		7.9		25.3		81.5		5.6		4.7		5			
					Middle	4.1	0.5	267	27.7	27.7	7.9	7.9	25.8	25.7	78.9	78.9	5.4		5.1		4			
						4.1	0.4	263	27.7		7.9		25.7		78.9		5.4		5.1		5			
					Bottom	7.1	0.5	264	27.7	27.7	7.9	7.9	25.8	25.8	78.4	78.5	5.4	5.4	8.0		4			
						7.1	0.5	267	27.7		7.9		25.8		78.5		5.4		8.0		5			
SR1A	Rainy	Moderate	06:54	0.0	Surface	1.0	0.1	199	27.7	27.7	7.9	7.9	25.8	25.8	77.0	77.0	5.3	5.3	6.1	6.8	5	6	819982	812653
						1.0	0.0	196	27.6		7.9		25.8		76.9		5.2		6.2		6			
					Middle	2.7	0.0	188	-	-	-	-	-	-	-	-	-		-		-			
						2.7	0.0	191	-		-		-		-		-		-		-			
					Bottom	4.4	0.1	177	27.6	27.6	7.8	7.8	26.0	26.0	75.5	75.5	5.2	5.2	7.4		6			
						4.4	0.0	183	27.6		7.8		26.0		75.4		5.2		7.5		6			
SR2	Rainy	Rough	06:39	0.0	Surface	1.0	0.2	236	27.8	27.8	7.9	7.9	24.9	25.0	81.3	81.2	5.6	5.6	7.2	8.6	5	5	821451	814160
						1.0	0.1	230	27.8		7.9		25.0		81.1		5.6		7.5		5			
					Middle	-	0.2	225	-	-	-	-	-	-	-	-	-		-		-			
						-	0.3	222	-		-		-		-		-		-		-			
					Bottom	4.3	0.2	259	27.7	27.7	7.9	7.9	25.6	25.6	79.3	79.3	5.4	5.4	9.8		4			
						4.3	0.2	254	27.7		7.9		25.6		79.3		5.4		9.8		4			
SR3	Rainy	Moderate	08:18	0.0	Surface	1.0	0.5	332	28.5	28.5	8.0	8.0	24.3	24.3	78.0	78.0	5.3	5.2	5.1	7.9	6	6	822139	807591
						1.0	0.5	337	28.5		8.0		24.3		78.0		5.3		5.1		8			
					Middle	4.1	0.4	324	28.4	28.4	8.0	8.0	25.2	25.2	76.0	76.1	5.1		9.2		7			
						4.1	0.4	326	28.4		8.0		25.2		76.1		5.1		9.2		6			
					Bottom	7.2	0.4	355	28.4	28.4	8.0	8.0	25.2	25.2	77.5	77.6	5.2	5.2	9.3		5			
						7.2	0.4	353	28.4		8.0		25.2		77.6		5.2		9.3		5			
SR4A	Cloudy	Moderate	06:36	0.0	Surface	1.0	0.0	192	28.3	28.3	7.9	7.9	26.2	26.2	76.4	76.4	5.1	5.1	8.2	8.8	8	8	817191	807804
						1.0	0.1	197	28.3		7.9		26.2		76.4		5.1		8.2		9			
					Middle	4.5	0.0	210	28.2	28.2	7.9	7.9	26.5	26.5	74.7	74.7	5.0		8.8		8			
						4.5	0.0	211	28.2		7.9		26.5		74.7		5.0		8.1		8			
					Bottom	7.9	0.0	186	28.2	28.2	7.9	7.9	26.5	26.5	75.8	75.9	5.1	5.1	10.0		7			
						7.9	0.0	190	28.2		7.9		26.5		76.0		5.1		9.8		8			
SR8	Rainy	Moderate	07:24	0.0	Surface	1.0	-	-	27.7	27.7	7.9	7.9	25.3	25.3	84.3	84.3	5.8	5.8	5.8	6.5	5	6	820392	811643
						1.0	-	-	27.7		7.9		25.4		84.3		5.8		5.9		4			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	4.6	-	-	27.7	27.7	7.9	7.9	25.7	25.7	79.5	79.5	5.4	5.4	7.1		6			
						4.6	-	-	27.7		7.9		25.7		79.5		5.4		7.1		7			

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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 June 23 during Mid-Ebb Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C) Value	Water Temperature (°C) Average	pH Value	pH Average	Salinity (ppt) Value	Salinity (ppt) Average	DO Saturation (%) Value	DO Saturation (%) Average	Dissolved Oxygen Value	Dissolved Oxygen DA	Turbidity(NTU) Value	Turbidity(NTU) DA	Suspended Solids (mg/L) Value	Suspended Solids (mg/L) DA	Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)
C1	Rainy	Moderate	16:34	8.6	Surface	1.0	0.8	220	28.5	28.5	8.1	8.1	26.2	26.2	80.4	80.4	5.4	5.2	4.7	9.0	4	5	815643	804234
						1.0	0.8	221	28.4		8.1		26.3		80.3		5.4		4.9		5			
					Middle	4.3	0.7	230	28.1	28.1	8.1	8.1	26.8	26.8	73.8	73.8	5.0		9.7		4			
						4.3	0.7	232	28.1		8.1		26.8		73.7		5.0		9.9		5			
					Bottom	7.6	0.8	222	28.0	28.0	8.1	8.1	26.8	26.8	73.9	74.0	5.0	5.0	12.2		5			
						7.6	0.8	215	28.0		8.1		26.8		74.0		5.0		12.5		6			
C2	Cloudy	Moderate	14:46	12.0	Surface	1.0	0.4	169	28.6	28.6	8.0	8.0	22.7	22.7	77.0	77.1	5.3	5.1	3.6	6.3	5	5	825658	806938
						1.0	0.4	173	28.6		8.0		22.6		77.1		5.3		3.6		6			
					Middle	6.0	0.4	158	28.3	28.3	8.0	8.0	23.9	23.9	71.3	71.4	4.9		7.9		5			
						6.0	0.5	162	28.3		8.0		23.9		71.5		4.9		8.0		5			
					Bottom	11.0	0.5	177	28.4	28.4	8.0	8.0	23.8	23.8	71.9	72.0	4.9	4.9	7.5		5			
						11.0	0.5	175	28.4		8.0		23.8		72.1		4.9		7.2		5			
C3	Misty	Calm	15:52	11.2	Surface	1.0	0.6	59	27.7	27.7	7.6	7.6	26.4	26.4	81.4	81.4	5.5	5.3	3.6	4.0	4	5	822097	817824
						1.0	0.6	63	27.7		7.6		26.4		81.3		5.5		3.6		5			
					Middle	5.6	0.5	75	26.9	26.9	7.6	7.6	28.1	28.1	74.9	73.2	5.1		4.0		6			
						5.6	0.6	78	26.9		7.6		28.2		71.5		4.9		4.1		5			
					Bottom	10.2	0.6	69	26.5	26.5	7.6	7.6	29.2	29.1	68.3	68.3	4.7	4.7	4.5		6			
						10.2	0.5	63	26.5		7.6		29.1		68.3		4.7		4.5		6			
IM1	Cloudy	Moderate	16:09	7.0	Surface	1.0	0.5	186	28.7	28.7	8.0	8.0	24.7	24.8	80.7	80.7	5.4	5.4	4.5	7.9	6	6	818355	806454
						1.0	0.5	179	28.7		8.0		24.8		80.7		5.4		4.5		5			
					Middle	3.5	0.5	209	28.3	28.3	8.1	8.1	26.0	26.1	79.5	79.5	5.4		7.7		6			
						3.5	0.6	211	28.3		8.1		26.1		79.5		5.4		8.0		5			
					Bottom	6.0	0.5	217	28.1	28.1	8.1	8.1	26.5	26.5	74.6	74.8	5.0	5.1	11.5		6			
						6.0	0.6	223	28.1		8.1		26.5		74.9		5.1		11.3		6			
IM2	Cloudy	Moderate	15:58	7.6	Surface	1.0	0.5	197	28.6	28.6	8.1	8.1	25.3	25.4	80.9	80.9	5.5	5.2	4.5	7.2	5	5	819163	806251
						1.0	0.6	202	28.5		8.1		25.4		80.8		5.5		4.6		6			
					Middle	3.8	0.5	193	28.1	28.1	8.1	8.1	26.4	26.4	73.2	73.2	4.9		8.3		4			
						3.8	0.6	187	28.1		8.1		26.4		73.2		4.9		8.4		5			
					Bottom	6.6	0.6	186	28.1	28.1	8.1	8.1	26.4	26.4	74.0	74.2	5.0	5.0	8.7		4			
						6.6	0.6	191	28.1		8.1		26.4		74.4		5.0		8.6		3			
IM7	Cloudy	Moderate	15:20	7.7	Surface	1.0	0.3	175	28.6	28.6	8.0	8.0	23.7	23.7	76.7	76.6	5.2	5.1	5.6	8.5	5	5	821337	806853
						1.0	0.3	176	28.6		8.0		23.7		76.5		5.2		5.7		5			
					Middle	3.9	0.3	156	28.3	28.3	8.0	8.0	24.4	24.4	71.9	71.9	4.9		9.3		5			
						3.9	0.3	161	28.3		8.0		24.4		71.9		4.9		9.5		5			
					Bottom	6.7	0.4	158	28.3	28.3	8.0	8.0	24.5	24.5	72.9	73.0	5.0	5.0	10.6		4			
						6.7	0.4	163	28.3		8.0		24.5		73.1		5.0		10.6		5			

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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 June 23 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		
IM10	Misty	Calm	14:32	11.2	Surface	1.0	0.6	104	28.1	28.1	7.5	7.5	23.7	23.7	83.1	83.1	5.7	5.5	3.3	4.3	4	4	822217	809852
						1.0	0.6	98	28.1		7.5		23.7		83.1		5.7		3.3		4			
					Middle	5.6	0.5	94	27.7	27.7	7.5	7.5	25.3	25.3	75.7	75.7	5.2		4.4		4			
						5.6	0.6	94	27.7		7.5		25.3		75.7		5.2		4.3		4			
					Bottom	10.2	0.6	124	27.8	27.8	7.5	7.5	26.2	26.1	72.1	72.3	4.9	4.9	5.1		2			
						10.2	0.6	120	27.8		7.5		26.1		72.5		4.9		5.1		3			
IM11	Misty	Calm	14:39	10.0	Surface	1.0	0.7	89	28.1	28.1	7.5	7.5	24.1	24.1	81.3	81.3	5.6	5.4	3.9	5.2	5	5	821506	810547
						1.0	0.7	92	28.1		7.5		24.1		81.2		5.6		3.9		5			
					Middle	5.0	0.7	105	27.6	27.6	7.5	7.5	25.4	25.4	75.5	75.6	5.2		5.0		4			
						5.0	0.7	101	27.6		7.5		25.4		75.6		5.2		5.1		5			
					Bottom	9.0	0.7	79	27.5	27.5	7.5	7.5	26.0	26.0	70.2	70.3	4.8	4.8	6.5		4			
						9.0	0.6	80	27.5		7.5		26.0		70.3		4.8		6.6		4			
IM12	Misty	Calm	14:44	7.2	Surface	1.0	0.7	92	28.0	28.0	7.5	7.5	24.8	24.8	81.2	81.1	5.5	5.4	3.0	4.4	4	5	821178	811538
						1.0	0.7	85	28.0		7.5		24.8		81.0		5.5		3.1		4			
					Middle	3.6	0.7	98	27.7	27.7	7.5	7.5	25.6	25.6	75.7	75.7	5.2		4.3		5			
						3.6	0.6	92	27.7		7.5		25.6		75.7		5.2		4.3		5			
					Bottom	6.2	0.7	83	27.7	27.8	7.5	7.5	25.5	25.4	76.2	76.4	5.2	5.2	5.9		5			
						6.2	0.7	83	27.8		7.5		25.4		76.6		5.2		5.7		5			
SR1A	Misty	Calm	15:03	5.8	Surface	1.0	0.0	93	27.9	27.9	7.5	7.5	25.0	25.0	78.3	78.3	5.3	5.3	3.8	4.2	4	5	819976	812660
						1.0	0.0	92	27.9		7.5		25.0		78.2		5.3		3.8		5			
					Middle	2.9	-	105	-	-	-	-	-	-	-	-	-		-		-			
						2.9	0.0	102	-		-		-		-		-		-		-			
					Bottom	4.8	0.1	86	27.8	27.8	7.5	7.5	25.2	25.1	73.6	74.1	5.0	5.1	4.7		4			
						4.8	0.1	92	27.8		7.5		25.1		74.5		5.1		4.7		5			
SR2	Misty	Calm	15:23	4.0	Surface	1.0	0.7	40	27.9	27.9	7.5	7.5	25.5	25.5	76.1	76.2	5.2	5.2	5.6	6.1	4	4	821470	814174
						1.0	0.7	45	27.9		7.5		25.5		76.2		5.2		5.6		5			
					Middle	-	0.7	45	-	-	-	-	-	-	-	-	-		-		-			
						-	0.7	51	-		-		-		-		-		-		-			
					Bottom	3.0	0.7	73	27.6	27.6	7.4	7.4	26.0	26.0	70.3	70.4	4.8	4.8	6.6		3			
						3.0	0.7	68	27.6		7.4		26.0		70.4		4.8		6.5		3			
SR3	Cloudy	Moderate	15:11	8.7	Surface	1.0	0.6	157	28.5	28.5	8.0	8.0	23.3	23.3	77.0	76.9	5.3	5.2	7.3	10.1	4	4	822169	807555
						1.0	0.6	153	28.5		8.0		23.3		76.8		5.2		7.4		4			
					Middle	4.4	0.6	176	28.4	28.4	8.0	8.0	23.8	23.8	76.6	76.7	5.2		10.8		4			
						4.4	0.5	168	28.4		8.0		23.8		76.7		5.2		10.1		4			
					Bottom	7.7	0.6	166	28.4	28.4	8.0	8.0	24.0	24.0	77.5	77.6	5.3	5.3	12.5		5			
						7.7	0.7	166	28.4		8.0		24.0		77.6		5.3		12.3		5			
SR4A	Cloudy	Moderate	17:07	9.0	Surface	1.0	0.0	9	28.6	28.6	8.0	8.0	24.4	24.4	74.9	75.0	5.1	5.0	6.3	9.5	4	5	817188	807788
						1.0	0.0	12	28.6		8.0		24.5		75.0		5.1		6.5		4			
					Middle	4.5	0.0	359	28.3	28.3	8.1	8.1	25.0	25.0	70.3	70.4	4.8		10.5		5			
						4.5	0.0	352	28.3		8.1		25.0		70.4		4.8		11.0		4			
					Bottom	8.0	0.0	350	28.3	28.3	8.1	8.1	25.2	25.2	70.8	70.9	4.8	4.8	11.2		5			
						8.0	0.1	345	28.3		8.1		25.2		71.0		4.8		11.4		6			
SR8	Misty	Calm	14:50	5.4	Surface	1.0	-	-	27.8	27.8	7.5	7.5	24.8	24.8	73.9	73.9	5.1	5.1	6.7	6.8	4	4	820402	811633
						1.0	-	-	27.8		7.5		24.8		73.8		5.1		6.6		3			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	4.4	-	-	27.4	27.4	7.4	7.4	26.2	26.2	69.3	69.3	4.7	4.7	7.0		4			
						4.4	-	-	27.4		7.4		26.2		69.3		4.7		7.0		4			

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

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 08 June 23 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	08:47	8.4	Surface	1.0	0.4	34	28.3	28.3	8.1	8.1	25.2	25.3	76.6	76.6	5.2	5.2	7.9	8.7	4	4	815603	804244
						1.0	0.3	36	28.3		8.1		25.3		76.5		5.2		7.9		3			
					Middle	4.2	0.4	15	28.2	28.2	8.1	8.1	26.2	26.2	75.3	75.3	5.1		8.2		3			
						4.2	0.4	22	28.1		8.1		26.2		75.3		5.1		8.9		4			
					Bottom	7.4	0.3	21	28.1	28.1	8.1	8.1	26.4	26.4	75.2	75.3	5.1	5.1	10.0		4			
						7.4	0.3	16	28.1		8.1		26.4		75.3		5.1		9.4		4			
C2	Rainy	Moderate	10:20	11.5	Surface	1.0	0.6	5	28.6	28.6	8.0	8.0	22.6	22.6	77.9	77.9	5.3	5.1	3.7	8.0	5	5	825697	806956
						1.0	0.6	12	28.6		8.0		22.6		77.9		5.3		3.7		5			
					Middle	5.8	0.6	4	28.3	28.3	8.0	8.0	23.8	23.8	71.6	71.6	4.9		8.8		5			
						5.8	0.6	3	28.3		8.0		23.9		71.5		4.9		8.9		5			
					Bottom	10.5	0.6	0	28.3	28.3	8.0	8.0	23.9	23.9	72.4	72.5	4.9	5.0	11.9		4			
						10.5	0.6	354	28.3		8.0		23.9		72.6		5.0		11.1		4			
C3	Misty	Calm	08:43	12.0	Surface	1.0	0.5	263	27.3	27.3	7.4	7.4	26.3	26.3	75.2	75.2	5.1	5.0	2.9	3.1	4	5	822124	817779
						1.0	0.5	270	27.3		7.4		26.3		75.2		5.1		2.9		5			
					Middle	6.0	0.6	244	26.9	26.9	7.4	7.4	27.9	27.9	69.7	69.8	4.8		3.0		5			
						6.0	0.5	249	26.9		7.4		27.9		69.8		4.8		3.0		4			
					Bottom	11.0	0.5	277	26.5	26.5	7.3	7.3	28.9	28.9	64.7	64.7	4.4	4.4	3.4		6			
						11.0	0.5	281	26.5		7.3		28.9		64.7		4.4		3.4		6			
IM1	Rainy	Moderate	09:11	6.7	Surface	1.0	0.3	22	28.4	28.4	8.0	8.0	24.9	25.0	75.4	75.3	5.1	5.0	6.8	8.6	4	4	818354	806450
						1.0	0.4	22	28.3		8.0		25.0		75.2		5.1		6.5		4			
					Middle	3.4	0.3	15	28.2	28.2	8.0	8.0	26.0	26.0	73.1	73.1	4.9		8.7		5			
						3.4	0.3	11	28.2		8.0		26.0		73.0		4.9		8.8		4			
					Bottom	5.7	0.3	11	28.1	28.1	8.0	8.0	26.2	26.2	74.2	74.3	5.0	5.0	10.6		5			
						5.7	0.3	5	28.1		8.0		26.2		74.4		5.0		10.2		4			
IM2	Rainy	Moderate	09:15	6.9	Surface	1.0	0.3	3	28.3	28.3	8.0	8.0	25.3	25.3	73.2	73.1	5.0	4.9	6.9	9.8	4	5	819163	806254
						1.0	0.3	8	28.3		8.0		25.3		73.0		4.9		7.4		4			
					Middle	3.5	0.3	17	28.2	28.2	8.0	8.0	25.7	25.7	73.0	73.1	4.9		10.7		4			
						3.5	0.4	18	28.2		8.0		25.7		73.1		4.9		10.9		5			
					Bottom	5.9	0.3	355	28.2	28.2	8.0	8.0	25.7	25.7	73.5	73.6	5.0	5.0	11.5		5			
						5.9	0.2	0	28.2		8.0		25.7		73.6		5.0		11.5		5			
IM7	Rainy	Moderate	09:50	7.4	Surface	1.0	0.3	352	28.6	28.6	8.0	8.0	23.9	23.9	75.3	75.2	5.1	5.1	6.2	9.6	3	5	821351	806822
						1.0	0.2	354	28.5		8.0		23.9		75.1		5.1		6.4		4			
					Middle	3.7	0.2	353	28.3	28.3	8.0	8.0	24.4	24.4	73.5	73.5	5.0		11.1		4			
						3.7	0.2	352	28.3		8.0		24.4		73.5		5.0		11.1		5			
					Bottom	6.4	0.2	329	28.3	28.3	8.0	8.0	24.5	24.5	74.4	74.5	5.1	5.1	11.4		6			
						6.4	0.2	336	28.3		8.0		24.5		74.6		5.1		11.4		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 08 June 23 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		
IM10	Misty	Calm	10:01	11.6	Surface	1.0	0.5	284	28.1	28.1	7.5	7.5	23.8	23.8	81.7	81.7	5.6	5.3	4.6	5.6	5	5	822225	809814
						1.0	0.6	287	28.1		7.5		23.8		81.7		5.6		4.6		5			
					Middle	5.8	0.5	289	27.5	27.5	7.5	7.5	26.0	26.1	74.0	73.9	5.1		5.3		6			
						5.8	0.5	290	27.4		7.5		26.2		73.7		5.0		5.3		5			
					Bottom	10.6	0.5	298	27.4	27.4	7.5	7.5	26.2	26.2	68.2	68.3	4.7	4.7	6.8		6			
						10.6	0.5	305	27.4		7.5		26.1		68.3		4.7		6.8		5			
IM11	Misty	Calm	09:54	8.8	Surface	1.0	0.5	286	28.1	28.1	7.5	7.5	24.0	24.0	81.8	81.8	5.6	5.6	3.9	5.2	4	5	821487	810554
						1.0	0.5	282	28.1		7.5		24.0		81.8		5.6		3.9		5			
					Middle	4.4	0.5	274	27.8	27.8	7.5	7.5	24.7	24.7	79.7	79.7	5.5		4.7		5			
						4.4	0.5	268	27.8		7.5		24.7		79.7		5.5		4.6		6			
					Bottom	7.8	0.5	255	27.6	27.7	7.5	7.5	25.4	25.3	73.9	74.1	5.1	5.1	7.0		5			
						7.8	0.5	256	27.7		7.5		25.3		74.2		5.1		6.9		6			
IM12	Misty	Calm	09:49	7.8	Surface	1.0	0.5	288	28.0	28.0	7.5	7.5	24.7	24.7	83.0	83.0	5.7	5.5	2.8	4.3	5	5	821149	811503
						1.0	0.5	290	28.0		7.5		24.7		83.0		5.7		2.8		6			
					Middle	3.9	0.5	295	27.7	27.8	7.5	7.5	25.3	25.3	77.5	77.5	5.3		4.6		5			
						3.9	0.4	299	27.8		7.5		25.3		77.5		5.3		4.6		5			
					Bottom	6.8	0.6	284	27.6	27.6	7.5	7.5	25.8	25.8	73.7	73.8	5.0	5.1	5.4		4			
						6.8	0.6	285	27.6		7.5		25.8		73.9		5.1		5.5		5			
SR1A	Misty	Calm	09:23	4.8	Surface	1.0	0.1	205	27.8	27.8	7.5	7.5	24.7	24.7	77.7	77.7	5.3	5.3	2.1	2.9	4	5	819982	812661
						1.0	0.1	197	27.8		7.5		24.7		77.6		5.3		2.1		4			
					Middle	2.4	0.1	196	-	-	-	-	-	-	-	-	-		-		-			
						2.4	0.0	195	-		-		-		-		-		-		-			
					Bottom	3.8	0.0	202	28.5	28.6	7.4	7.4	24.7	24.7	71.5	71.5	4.8	4.8	3.9		5			
						3.8	0.0	205	28.6		7.4		24.6		71.4		4.8		3.8		5			
SR2	Misty	Calm	09:07	4.4	Surface	1.0	0.1	254	27.6	27.6	7.5	7.5	25.4	25.4	74.7	74.7	5.1	5.1	3.2	3.7	6	5	821450	814186
						1.0	0.1	255	27.6		7.5		25.4		74.7		5.1		3.2		5			
					Middle	-	0.2	270	-	-	-	-	-	-	-	-	-		-		-			
						-	0.1	264	-		-		-		-		-		-		-			
					Bottom	3.4	0.2	243	28.1	28.2	7.4	7.4	24.6	24.5	68.9	68.8	4.7	4.7	4.1		4			
						3.4	0.2	235	28.2		7.4		24.4		68.6		4.7		4.2		4			
SR3	Rainy	Moderate	09:56	8.7	Surface	1.0	0.4	340	28.5	28.5	8.0	8.0	23.7	23.7	77.1	77.1	5.3	5.2	8.7	9.4	4	5	822163	807580
						1.0	0.3	338	28.4		8.0		23.8		77.0		5.2		9.0		4			
					Middle	4.4	0.3	339	28.3	28.3	8.0	8.0	24.3	24.3	76.6	76.6	5.2		9.1		5			
						4.4	0.3	335	28.3		8.0		24.3		76.6		5.2		9.1		6			
					Bottom	7.7	0.3	330	28.3	28.3	8.0	8.0	24.4	24.4	78.1	78.2	5.3	5.3	10.7		6			
						7.7	0.3	323	28.3		8.0		24.4		78.2		5.3		10.0		5			
SR4A	Cloudy	Moderate	08:19	8.7	Surface	1.0	0.0	203	28.4	28.4	8.0	8.0	23.6	23.6	77.2	77.1	5.3	5.2	4.1	7.2	5	5	817170	807813
						1.0	0.0	203	28.4		8.0		23.6		77.0		5.3		4.2		4			
					Middle	4.4	0.0	194	28.3	28.3	8.0	8.0	24.1	24.2	73.2	73.0	5.0		6.3		5			
						4.4	0.1	186	28.3		8.0		24.2		72.8		5.0		6.9		4			
					Bottom	7.7	0.1	187	28.2	28.2	7.9	7.9	24.4	24.4	72.3	72.4	4.9	4.9	11.0		5			
						7.7	0.1	180	28.2		7.9		24.4		72.4		4.9		10.7		5			
SR8	Misty	Calm	09:43	5.4	Surface	1.0	-	-	27.9	27.9	7.5	7.5	24.7	24.7	76.7	76.7	5.2	5.2	4.7	4.9	4	5	820384	811613
						1.0	-	-	27.9		7.5		24.7		76.6		5.2		4.7		5			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	4.4	-	-	27.4	27.5	7.4	7.4	26.2	26.2	69.2	69.2	4.7	4.7	5.1		5			
						4.4	-	-	27.5		7.4		26.2		69.2		4.7		5.1		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 10 June 23 during Mid-Ebb Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA		
C1	Fine	Rough	05:36	8.4	Surface	1.0	0.2	188	28.7	28.7	8.0	8.0	23.3	23.3	76.8	76.8	5.2	5.1	2.5	6.2	2	4	815601	804239
						1.0	0.2	184	28.7		8.0		23.3		76.7		5.2		2.6		3			
					Middle	4.2	0.1	180	28.5	28.5	8.0	8.0	24.5	24.5	72.4	72.4	4.9		6.1		4			
						4.2	0.1	180	28.5		8.0		24.5		72.4		4.9		6.1		4			
					Bottom	7.4	0.1	177	28.2	28.2	8.0	8.0	26.5	26.5	68.3	68.3	4.6	4.6	9.8		4			
						7.4	0.1	178	28.2		8.0		26.5		68.3		4.6		9.9		4			
C2	Fine	Moderate	07:02	9.5	Surface	1.0	0.4	167	29.0	29.0	8.1	8.1	19.5	19.5	80.0	80.0	5.5	5.4	2.1	2.6	3	3	825660	806941
						1.0	0.4	170	29.0		8.1		19.5		80.0		5.5		2.1		3			
					Middle	4.8	0.3	170	28.9	28.9	8.1	8.1	21.7	21.6	77.5	77.5	5.3		2.1		2			
						4.8	0.4	170	28.9		8.1		21.6		77.5		5.3		2.1		2			
					Bottom	8.5	0.3	166	28.7	28.7	8.1	8.1	23.2	23.2	72.8	72.8	5.0	5.0	3.6		3			
						8.5	0.4	166	28.7		8.1		23.2		72.8		5.0		3.5		3			
C3	Misty	Calm	06:45	11.2	Surface	1.0	0.1	42	27.8	27.8	7.4	7.4	23.8	23.8	79.9	79.9	5.5	5.3	2.3	2.8	5	4	822132	817817
						1.0	0.2	34	27.8		7.4		23.8		79.8		5.5		2.3		4			
					Middle	5.6	0.1	34	27.5	27.5	7.4	7.4	25.2	25.2	72.4	72.4	5.0		2.6		4			
						5.6	0.1	29	27.5		7.4		25.2		72.4		5.0		2.6		4			
					Bottom	10.2	0.1	35	26.4	26.4	7.4	7.4	29.0	29.0	64.7	64.7	4.4	4.4	3.4		3			
						10.2	0.0	40	26.4		7.4		29.0		64.7		4.4		3.4		4			
IM1	Fine	Moderate	05:54	7.8	Surface	1.0	0.1	195	28.5	28.5	8.1	8.1	22.2	22.2	83.4	83.4	5.7	5.3	2.3	4.3	4	4	818372	806450
						1.0	0.1	195	28.5		8.1		22.2		83.3		5.7		2.3		3			
					Middle	3.9	0.1	197	28.6	28.6	8.1	8.1	24.1	24.0	71.3	71.3	4.8		3.2		4			
						3.9	0.1	189	28.6		8.1		24.0		71.3		4.8		3.2		4			
					Bottom	6.8	0.1	167	28.1	28.1	8.1	8.1	26.5	26.5	64.2	64.3	4.3	4.3	7.4		4			
						6.8	0.2	164	28.1		8.1		26.5		64.3		4.3		7.4		4			
IM2	Fine	Moderate	06:04	7.7	Surface	1.0	0.1	204	28.6	28.6	8.1	8.1	22.8	22.8	79.6	79.6	5.4	5.2	2.4	3.6	4	3	819161	806252
						1.0	0.1	208	28.6		8.1		22.8		79.6		5.4		2.4		3			
					Middle	3.9	0.1	210	28.6	28.6	8.1	8.1	23.6	23.6	73.5	73.5	5.0		3.0		3			
						3.9	0.1	208	28.6		8.1		23.6		73.4		5.0		3.1		4			
					Bottom	6.7	0.1	211	28.1	28.1	8.1	8.1	26.5	26.5	66.7	67.0	4.5	4.5	5.5		2			
						6.7	0.1	210	28.1		8.1		26.5		67.2		4.5		5.5		3			
IM7	Fine	Moderate	06:23	7.9	Surface	1.0	0.1	189	28.6	28.6	8.1	8.1	21.2	21.2	86.1	86.1	5.9	5.6	1.7	3.3	4	4	821333	806839
						1.0	0.1	189	28.6		8.1		21.1		86.1		5.9		1.7		4			
					Middle	4.0	0.0	197	28.5	28.5	8.1	8.1	23.1	23.1	75.8	75.8	5.2		3.1		3			
						4.0	0.1	201	28.5		8.1		23.1		75.7		5.2		3.1		4			
					Bottom	6.9	0.0	211	28.1	28.1	8.1	8.1	26.4	26.4	64.2	64.2	4.3	4.3	5.1		4			
						6.9	0.0	207	28.1		8.1		26.4		64.2		4.3		5.1		4			

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

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 10 June 23 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		
IM10	Misty	Calm	07:53	6.8	Surface	1.0	0.2	162	28.1	28.1	7.6	7.6	22.8	22.8	75.7	75.7	5.2	5.1	3.4	4.5	5	4	822259	809859
						1.0	0.1	156	28.1		7.6		22.8		75.6		5.2		3.4		5			
					Middle	3.4	0.1	167	28.0	28.0	7.6	7.6	23.5	23.5	73.3	73.3	5.0		4.2		4			
						3.4	0.1	167	28.0		7.6		23.5		73.2		5.0		4.3		3			
					Bottom	5.8	0.2	148	27.5	27.5	7.6	7.6	25.7	25.7	65.7	65.8	4.5	4.5	5.9		3			
						5.8	0.1	153	27.5		7.6		25.7		65.9		4.5		5.9		4			
IM11	Misty	Calm	07:48	7.4	Surface	1.0	0.3	111	27.8	27.8	7.9	7.9	23.8	23.8	74.4	74.4	5.1	4.9	3.2	4.2	4	5	821484	810563
						1.0	0.3	109	27.8		7.9		23.8		74.3		5.1		3.2		5			
					Middle	3.7	0.2	107	27.5	27.5	7.9	7.9	25.1	25.1	68.2	68.2	4.7		4.5		4			
						3.7	0.2	113	27.5		7.9		25.1		68.2		4.7		4.5		5			
					Bottom	6.4	0.3	109	27.5	27.5	7.9	7.9	25.4	25.4	69.1	69.2	4.7	4.8	5.0		4			
						6.4	0.2	102	27.5		7.9		25.4		69.2		4.8		4.9		5			
IM12	Misty	Calm	07:44	8.8	Surface	1.0	0.2	76	28.2	28.3	7.9	7.9	22.4	22.4	77.3	77.4	5.3	5.1	3.4	4.4	4	5	821163	811510
						1.0	0.2	79	28.3		7.9		22.3		77.4		5.3		3.4		4			
					Middle	4.4	0.1	87	27.6	27.6	8.0	8.0	24.9	24.9	70.7	70.8	4.9		3.9		5			
						4.4	0.1	94	27.6		8.0		24.9		70.8		4.9		4.0		6			
					Bottom	7.8	0.2	73	27.6	27.7	7.9	7.9	26.2	26.1	67.0	67.1	4.6	4.6	6.0		4			
						7.8	0.1	73	27.7		7.9		26.1		67.2		4.6		5.8		4			
SR1A	Misty	Calm	07:19	4.4	Surface	1.0	-	146	28.3	28.3	7.4	7.4	21.7	21.7	79.4	79.4	5.5	5.5	1.0	1.5	4	5	819975	812665
						1.0	0.0	150	28.3		7.4		21.7		79.3		5.5		1.0		4			
					Middle	2.2	0.0	168	-	-	-	-	-	-	-	-	-		-		-			
						2.2	0.1	165	-		-		-		-		-		-		-			
					Bottom	3.4	0.0	146	28.0	28.0	7.4	7.4	22.6	22.6	75.1	75.1	5.2	5.2	2.0		5			
						3.4	0.0	142	28.0		7.4		22.6		75.1		5.2		2.0		5			
SR2	Misty	Calm	07:04	4.4	Surface	1.0	0.3	34	27.8	27.8	7.4	7.4	23.8	23.8	80.0	80.0	5.5	5.5	2.8	2.9	4	4	821461	814147
						1.0	0.2	33	27.8		7.4		23.8		80.0		5.5		2.8		3			
					Middle	-	0.2	33	-	-	-	-	-	-	-	-	-		-		-			
						-	0.2	34	-		-		-		-		-		-		-			
					Bottom	3.4	0.2	23	27.6	27.6	7.4	7.4	23.5	23.4	76.8	76.8	5.3	5.3	2.9		3			
						3.4	0.2	24	27.5		7.4		23.4		76.8		5.3		2.9		4			
SR3	Fine	Moderate	06:35	8.4	Surface	1.0	0.3	167	28.9	28.9	8.1	8.1	19.6	19.6	81.7	81.7	5.7	5.5	2.3	2.5	2	3	822145	807557
						1.0	0.3	171	28.9		8.1		19.7		81.7		5.7		2.3		3			
					Middle	4.2	0.3	140	28.9	28.9	8.1	8.1	20.7	20.7	76.3	76.3	5.3		2.6		3			
						4.2	0.3	139	28.9		8.1		20.7		76.3		5.3		2.6		4			
					Bottom	7.4	0.4	142	28.8	28.8	8.1	8.1	22.2	22.2	71.6	71.6	4.9	4.9	2.7		3			
						7.4	0.3	139	28.8		8.1		22.2		71.6		4.9		2.7		3			
SR4A	Fine	Moderate	05:13	10.8	Surface	1.0	0.0	103	28.5	28.5	7.9	7.9	22.6	22.6	75.0	75.0	5.1	4.9	3.3	4.2	5	6	817174	807825
						1.0	0.1	98	28.5		7.9		22.7		74.9		5.1		3.4		6			
					Middle	5.4	0.0	94	28.6	28.6	7.9	7.9	24.0	24.0	68.0	68.0	4.6		4.3		7			
						5.4	0.0	90	28.6		7.9		24.0		68.0		4.6		4.3		6			
					Bottom	9.8	0.0	101	28.3	28.3	7.9	7.9	25.5	25.5	64.0	64.0	4.3	4.3	4.8		5			
						9.8	0.0	107	28.3		7.9		25.5		64.0		4.3		4.8		6			
SR8	Misty	Calm	07:39	4.2	Surface	1.0	-	-	28.5	28.5	7.4	7.4	21.8	21.8	80.6	80.6	5.6	5.6	4.0	5.3	4	5	820399	811608
						1.0	-	-	28.5		7.4		21.8		80.6		5.5		4.1		5			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.2	-	-	28.3	28.4	7.4	7.4	24.1	24.1	70.0	70.2	4.8	4.8	6.5		5			
						3.2	-	-	28.4		7.4		24.0		70.3		4.8		6.6		4			

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Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 10 June 23 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C) Value	Water Temperature (°C) Average	pH Value	pH Average	Salinity (ppt) Value	Salinity (ppt) Average	DO Saturation (%) Value	DO Saturation (%) Average	Dissolved Oxygen Value	Dissolved Oxygen DA	Turbidity(NTU) Value	Turbidity(NTU) DA	Suspended Solids (mg/L) Value	Suspended Solids (mg/L) DA	Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)
C1	Rainy	Rough	10:56	7.9	Surface	1.0	0.3	40	29.2	29.2	8.2	8.2	23.0	23.0	81.8	81.8	5.5	5.3	2.0	5.2	4	4	815641	804266
						1.0	0.2	35	29.2		8.2		23.0		81.7		5.5		2.1		4			
					Middle	4.0	0.3	43	28.5	28.6	8.3	8.3	25.5	25.5	73.6	73.7	5.0		3.8		3			
						4.0	0.4	45	28.6		8.3		25.5		73.8		5.0		3.9		4			
					Bottom	6.9	0.3	22	28.0	28.0	8.3	8.3	27.3	27.3	66.3	66.3	4.5	4.5	9.8		3			
						6.9	0.3	22	28.0		8.3		27.3		66.3		4.5		9.8		3			
C2	Rainy	Rough	09:30	9.1	Surface	1.0	0.1	323	29.2	29.2	8.0	8.0	19.3	19.3	81.1	81.1	5.6	5.2	1.8	4.4	3	3	825684	806927
						1.0	0.1	326	29.2		8.0		19.2		81.1		5.6		1.8		4			
					Middle	4.6	0.1	330	28.9	28.9	8.0	8.0	22.0	22.0	70.9	70.9	4.8		2.2		3			
						4.6	0.2	324	28.9		8.0		22.0		70.8		4.8		2.2		3			
					Bottom	8.1	0.1	328	28.6	28.6	8.1	8.1	23.9	23.9	67.8	67.9	4.6	4.6	9.3		2			
						8.1	0.1	329	28.6		8.1		23.9		67.9		4.6		9.3		2			
C3	Misty	Calm	10:39	9.4	Surface	1.0	0.5	249	28.4	28.4	7.6	7.6	23.9	23.9	81.9	81.9	5.6	5.3	3.1	4.7	3	4	822117	817806
						1.0	0.5	250	28.4		7.6		23.9		81.8		5.6		3.1		3			
					Middle	4.7	0.5	274	26.9	26.9	7.6	7.6	27.4	27.4	71.3	71.4	4.9		4.7		3			
						4.7	0.5	276	26.9		7.6		27.3		71.5		4.9		4.7		4			
					Bottom	8.4	0.4	281	26.5	26.5	7.5	7.5	28.3	28.3	66.8	66.8	4.6	4.6	6.3		4			
						8.4	0.4	278	26.5		7.5		28.3		66.7		4.6		6.3		5			
IM1	Rainy	Moderate	10:38	6.9	Surface	1.0	0.2	19	28.9	28.9	8.2	8.2	22.8	22.8	81.3	81.3	5.5	5.3	2.4	2.9	3	3	818358	806443
						1.0	0.1	15	28.9		8.2		22.8		81.3		5.5		2.4		4			
					Middle	3.5	0.2	23	28.7	28.7	8.2	8.2	24.0	24.0	74.5	74.5	5.0		2.5		4			
						3.5	0.1	21	28.7		8.2		24.0		74.4		5.0		2.6		3			
					Bottom	5.9	0.2	8	28.2	28.2	8.3	8.3	26.3	26.3	63.2	63.2	4.3	4.3	3.9		2			
						5.9	0.1	11	28.2		8.3		26.3		63.2		4.3		3.9		3			
IM2	Rainy	Moderate	10:29	7.1	Surface	1.0	0.1	307	28.7	28.7	8.2	8.2	22.6	22.6	82.6	82.6	5.6	5.4	2.4	3.5	3	3	819164	806253
						1.0	0.2	308	28.7		8.2		22.6		82.6		5.6		2.5		3			
					Middle	3.6	0.2	315	28.7	28.7	8.2	8.2	23.6	23.6	76.9	76.9	5.2		2.8		2			
						3.6	0.2	309	28.7		8.2		23.6		76.9		5.2		2.8		4			
					Bottom	6.1	0.2	310	28.2	28.2	8.2	8.2	26.2	26.2	63.3	63.3	4.3	4.3	5.2		3			
						6.1	0.1	315	28.2		8.2		26.2		63.3		4.3		5.2		2			
IM7	Rainy	Rough	10:09	7.4	Surface	1.0	0.1	296	28.8	28.8	8.3	8.3	23.4	23.4	78.3	78.3	5.3	5.1	2.5	3.7	4	4	821361	806820
						1.0	0.1	292	28.8		8.3		23.4		78.3		5.3		2.5		4			
					Middle	3.7	0.1	293	28.6	28.6	8.3	8.3	24.1	24.1	72.8	72.8	4.9		3.4		4			
						3.7	0.1	291	28.6		8.3		24.1		72.8		4.9		3.5		5			
					Bottom	6.4	0.2	286	28.2	28.2	8.4	8.4	26.2	26.2	64.3	64.4	4.3	4.3	5.0		4			
						6.4	0.2	282	28.2		8.4		26.2		64.4		4.3		5.0		4			

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

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 10 June 23 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		
IM10	Misty	Calm	09:36	11.0	Surface	1.0	0.3	272	28.4	28.4	7.6	7.6	22.5	22.5	77.8	77.8	5.3	5.2	3.3	4.6	4	4	822246	809827
						1.0	0.3	272	28.3		7.6		22.6		77.8		5.3		3.4		4			
					Middle	5.5	0.2	284	27.9	27.9	7.6	7.6	23.8	23.8	72.3	72.3	5.0		4.4		5			
						5.5	0.2	283	27.9		7.6		23.8		72.2		5.0		4.5		4			
					Bottom	10.0	0.2	270	27.5	27.5	7.6	7.6	25.6	25.6	66.9	67.0	4.6	4.6	6.0		4			
						10.0	0.3	263	27.5		7.6		25.6		67.1		4.6		5.9		3			
IM11	Misty	Calm	09:41	7.8	Surface	1.0	0.3	300	27.9	27.9	7.6	7.6	23.4	23.4	76.5	76.5	5.3	5.1	3.8	5.1	3	4	821497	810525
						1.0	0.2	304	27.9		7.6		23.4		76.4		5.3		3.8		4			
					Middle	3.9	0.2	275	27.5	27.5	7.6	7.6	25.0	25.0	70.3	70.2	4.8		5.5		3			
						3.9	0.2	269	27.5		7.6		25.1		70.1		4.8		5.6		4			
					Bottom	6.8	0.3	313	27.5	27.6	7.6	7.6	26.1	26.1	68.9	69.0	4.7	4.7	6.0		4			
						6.8	0.3	320	27.6		7.6		26.1		69.1		4.7		6.1		3			
IM12	Misty	Calm	09:45	6.8	Surface	1.0	0.3	290	28.0	28.0	7.6	7.6	23.0	23.0	77.6	77.6	5.3	5.1	3.9	5.3	4	4	821150	811518
						1.0	0.4	283	28.0		7.6		23.0		77.6		5.3		3.9		3			
					Middle	3.4	0.3	277	27.5	27.5	7.6	7.6	25.4	25.4	69.3	69.3	4.8		5.4		3			
						3.4	0.3	283	27.5		7.6		25.4		69.3		4.8		5.5		3			
					Bottom	5.8	0.3	277	27.4	27.4	7.5	7.5	26.1	26.1	70.1	70.3	4.8	4.8	6.6		5			
						5.8	0.3	284	27.4		7.5		26.1		70.4		4.8		6.6		4			
SR1A	Misty	Calm	10:04	4.0	Surface	1.0	0.0	172	28.5	28.5	7.5	7.5	22.1	22.1	81.6	81.6	5.6	5.6	2.5	3.1	4	5	819971	812655
						1.0	0.0	174	28.5		7.5		22.1		81.5		5.6		2.4		5			
					Middle	2.0	0.0	198	-	-	-	-	-	-	-	-	-		-		-			
						2.0	0.1	199	-		-		-		-		-		-		-			
					Bottom	3.0	0.0	196	28.4	28.4	7.5	7.5	22.2	22.2	79.5	79.4	5.5	5.5	3.8		5			
						3.0	0.0	189	28.4		7.5		22.2		79.3		5.5		3.8		4			
SR2	Misty	Calm	10:21	5.2	Surface	1.0	0.1	257	28.2	28.2	7.5	7.5	23.4	23.4	78.6	78.7	5.4	5.4	3.1	3.6	4	3	821444	814175
						1.0	0.2	252	28.2		7.5		23.4		78.7		5.4		3.2		3			
					Middle	-	0.1	253	-	-	-	-	-	-	-	-	-		-		-			
						-	0.1	253	-		-		-		-		-		-		-			
					Bottom	4.2	0.1	255	27.7	27.7	7.5	7.5	25.1	25.1	76.0	76.7	5.2	5.3	4.1		3			
						4.2	0.1	254	27.7		7.5		25.0		77.4		5.3		3.9		3			
SR3	Rainy	Rough	09:55	8.1	Surface	1.0	0.0	182	28.9	28.9	8.1	8.1	20.1	20.1	78.1	78.0	5.4	5.1	2.3	3.3	3	3	822133	807550
						1.0	0.0	187	28.9		8.1		20.1		77.9		5.4		2.3		2			
					Middle	4.1	0.0	174	28.9	28.9	8.1	8.1	21.8	21.8	70.9	70.9	4.9		2.4		3			
						4.1	0.1	174	28.9		8.1		21.8		70.9		4.8		2.4		3			
					Bottom	7.1	0.0	179	28.7	28.7	8.2	8.2	23.7	23.7	68.0	68.1	4.6	4.6	5.1		4			
						7.1	0.0	171	28.7		8.2		23.7		68.1		4.6		5.1		3			
SR4A	Rainy	Moderate	11:22	10.3	Surface	1.0	0.0	127	28.8	28.8	8.2	8.2	22.7	22.7	77.6	77.6	5.3	5.0	2.9	6.1	3	4	817186	807816
						1.0	0.0	120	28.8		8.2		22.7		77.6		5.3		3.0		4			
					Middle	5.2	-	121	28.5	28.5	8.3	8.3	24.8	24.8	67.9	67.9	4.6		5.9		3			
						5.2	0.0	115	28.5		8.3		24.8		67.9		4.6		6.0		4			
					Bottom	9.3	0.0	149	28.5	28.5	8.3	8.3	25.4	25.4	66.5	66.6	4.5	4.5	9.4		4			
						9.3	0.0	145	28.5		8.3		25.4		66.6		4.5		9.4		4			
SR8	Misty	Calm	09:49	5.0	Surface	1.0	-	-	28.8	28.8	7.5	7.5	21.9	21.9	82.4	82.3	5.6	5.6	3.3	3.8	4	4	820404	811626
						1.0	-	-	28.8		7.5		21.9		82.2		5.6		3.3		5			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	4.0	-	-	27.5	27.5	7.5	7.5	25.2	25.2	68.6	68.9	4.7	4.7	4.3		4			
						4.0	-	-	27.5		7.5		25.1		69.1		4.7		4.2		4			

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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 June 23 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	08:48	8.4	Surface	1.0	0.3	195	28.3	28.3	8.0	8.0	24.2	24.2	125.9	123.9	8.6	7.0	5.4	6.2	6	7	815606	804265
						1.0	0.2	189	28.3		8.0		24.2		121.9		8.3		5.3		7			
					Middle	4.2	0.2	208	27.1	27.1	8.1	8.1	27.4	27.4	80.2	80.3	5.5		5.7		7			
						4.2	0.2	204	27.1		8.1		27.4		80.3		5.5		5.8		6			
					Bottom	7.4	0.2	215	27.0	27.0	8.0	8.0	27.8	27.7	72.2	72.6	4.9	5.0	7.2		8			
						7.4	0.2	218	27.0		8.0		27.7		73.0		5.0		7.6		7			
C2	Sunny	Moderate	10:45	11.8	Surface	1.0	0.5	171	28.2	28.2	8.3	8.3	20.1	19.8	116.3	116.0	8.1	6.9	6.5	7.0	4	5	825658	806956
						1.0	0.6	164	28.1		8.3		19.5		115.7		8.1		6.6		4			
					Middle	5.9	0.6	175	27.6	27.6	8.1	8.1	25.0	25.0	81.8	81.8	5.6		8.4		5			
						5.9	0.6	178	27.5		8.1		25.1		81.8		5.6		8.4		5			
					Bottom	10.8	0.6	170	27.5	27.5	8.0	8.0	25.2	25.2	77.0	77.1	5.3	5.3	6.0		5			
						10.8	0.6	173	27.5		8.0		25.2		77.2		5.3		6.0		5			
C3	Misty	Calm	09:29	10.0	Surface	1.0	0.3	90	28.7	28.7	8.2	8.2	24.7	24.7	103.9	103.8	7.0	7.0	4.0	4.5	7	8	822121	817799
						1.0	0.4	84	28.7		8.2		24.7		103.7		7.0		3.9		7			
					Middle	5.0	0.3	92	28.5	28.5	8.2	8.2	25.2	25.2	101.5	101.5	6.9		4.4		7			
						5.0	0.3	92	28.5		8.2		25.2		101.5		6.9		4.4		7			
					Bottom	9.0	0.3	101	28.1	28.1	8.2	8.2	26.0	26.0	80.5	80.4	5.5	5.5	5.1		9			
						9.0	0.3	104	28.1		8.2		26.0		80.3		5.4		5.2		9			
IM1	Sunny	Moderate	09:11	6.8	Surface	1.0	0.2	181	28.8	28.8	8.1	8.1	21.3	21.2	137.6	135.9	9.4	7.3	4.9	6.2	8	8	818365	806477
						1.0	0.3	178	28.8		8.1		21.2		134.1		9.2		4.9		8			
					Middle	3.4	0.2	193	27.0	27.0	8.0	8.0	27.6	27.7	78.4	77.9	5.4		6.4		7			
						3.4	0.2	186	27.0		8.0		27.7		77.4		5.3		6.5		8			
					Bottom	5.8	0.2	167	26.9	26.9	8.0	8.0	28.0	28.0	73.6	74.2	5.0	5.1	7.0		7			
						5.8	0.2	171	26.9		8.0		28.0		74.7		5.1		7.4		7			
IM2	Sunny	Moderate	09:20	6.4	Surface	1.0	0.2	187	27.2	27.2	8.1	8.1	26.5	26.6	77.8	76.8	5.3	5.0	12.8	11.8	7	8	819186	806234
						1.0	0.2	184	27.2		8.0		26.7		75.7		5.2		12.5		7			
					Middle	3.2	0.2	192	26.9	26.9	8.0	8.0	27.6	27.7	69.9	69.8	4.8		12.1		8			
						3.2	0.2	185	26.8		8.0		27.7		69.6		4.8		12.0		8			
					Bottom	5.4	0.1	190	26.6	26.6	8.0	8.0	28.4	28.3	60.4	60.5	4.1	4.2	10.7		9			
						5.4	0.1	186	26.6		8.0		28.3		60.6		4.2		10.8		8			
IM7	Sunny	Moderate	09:58	7.4	Surface	1.0	0.3	205	29.4	29.4	8.3	8.3	21.4	21.3	166.5	166.1	11.3	8.3	6.2	9.7	9	9	821346	806822
						1.0	0.2	203	29.4		8.3		21.3		165.6		11.2		6.3		10			
					Middle	3.7	0.2	194	27.6	27.6	8.0	8.0	25.2	25.2	77.9	77.8	5.3		10.0		9			
						3.7	0.2	196	27.6		8.0		25.2		77.7		5.3		10.4		8			
					Bottom	6.4	0.2	204	27.6	27.7	8.0	8.0	25.2	25.2	78.7	80.6	5.4	5.5	12.6		8			
						6.4	0.2	197	27.7		8.0		25.2		82.4		5.6		12.9		8			

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Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 13 June 23 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		
IM10	Misty	Calm	10:52	8.0	Surface	1.0	0.4	111	31.0	31.0	8.5	8.5	19.6	19.6	188.7	188.6	12.6	9.6	2.9	4.5	9	9	822229	809843
						1.0	0.4	115	31.0		8.5		19.6		188.5		12.6		2.8		8			
					Middle	4.0	0.4	127	29.1	29.1	8.2	8.2	23.2	23.2	96.4	96.4	6.5		4.8		9			
						4.0	0.3	132	29.1		8.2		23.2		96.3		6.5		4.9		8			
					Bottom	7.0	0.4	105	28.8	28.8	8.1	8.1	24.0	24.0	82.1	82.2	5.5	5.6	6.0		9			
						7.0	0.4	106	28.8		8.1		24.0		82.2		5.6		5.9		9			
IM11	Misty	Calm	10:45	7.2	Surface	1.0	0.4	95	29.9	29.9	8.3	8.3	21.8	21.8	136.6	136.5	9.2	7.4	4.0	5.3	8	8	821521	810524
						1.0	0.4	87	29.9		8.3		21.8		136.3		9.2		3.9		8			
					Middle	3.6	0.4	85	29.0	29.0	8.1	8.1	23.7	23.7	82.8	82.8	5.6		5.0		8			
						3.6	0.5	92	29.0		8.1		23.7		82.8		5.6		5.1		8			
					Bottom	6.2	0.4	87	28.9	28.9	8.1	8.1	24.0	24.0	82.9	83.2	5.6	5.6	6.9		8			
						6.2	0.4	86	28.9		8.1		24.0		83.4		5.6		6.8		7			
IM12	Misty	Calm	10:39	8.0	Surface	1.0	0.4	93	30.1	30.1	8.3	8.3	21.5	21.5	135.4	135.2	9.1	7.4	3.8	5.1	9	11	821179	811532
						1.0	0.5	90	30.1		8.3		21.5		134.9		9.1		3.7		10			
					Middle	4.0	0.5	103	29.0	29.0	8.1	8.1	23.7	23.7	85.1	85.1	5.7		5.0		11			
						4.0	0.4	101	29.0		8.1		23.7		85.1		5.7		5.1		10			
					Bottom	7.0	0.5	110	28.8	28.8	8.1	8.1	24.1	24.1	80.5	80.6	5.4	5.4	6.4		12			
						7.0	0.5	116	28.8		8.1		24.1		80.6		5.4		6.5		12			
SR1A	Misty	Calm	10:12	4.4	Surface	1.0	-	140	29.6	29.6	8.3	8.3	21.5	21.5	126.1	126.2	8.5	8.5	3.0	3.4	10	10	819971	812655
						1.0	0.0	132	29.6		8.3		21.5		126.3		8.5		3.0		9			
					Middle	2.2	0.0	153	-	-	-	-	-	-	-	-	-		-		-			
						2.2	0.0	149	-		-		-		-		-		-		-			
					Bottom	3.4	0.1	146	29.2	29.2	8.3	8.3	22.3	22.3	107.5	107.4	7.3	7.3	3.8		10			
						3.4	0.0	145	29.2		8.3		22.2		107.3		7.3		3.9		10			
SR2	Misty	Calm	09:54	4.0	Surface	1.0	0.4	47	30.3	30.3	8.5	8.5	20.2	20.2	158.9	158.7	10.7	10.7	3.2	3.6	9	10	821473	814188
						1.0	0.4	42	30.3		8.5		20.2		158.5		10.7		3.2		9			
					Middle	-	0.4	25	-	-	-	-	-	-	-	-	-		-		-			
						-	0.5	32	-		-		-		-		-		-		-			
					Bottom	3.0	0.4	30	29.5	29.5	8.5	8.5	21.9	21.9	125.5	125.2	8.5	8.5	4.1		11			
						3.0	0.4	33	29.4		8.5		21.9		124.8		8.5		4.1		10			
SR3	Sunny	Moderate	10:11	8.7	Surface	1.0	0.5	169	29.0	29.0	8.2	8.2	21.4	21.3	171.0	169.5	11.7	9.1	5.2	7.9	6	6	822154	807584
						1.0	0.5	172	29.0		8.2		21.3		168.0		11.5		5.5		6			
					Middle	4.4	0.4	174	27.8	27.8	8.1	8.1	24.8	24.8	95.8	95.7	6.6		6.9		6			
						4.4	0.4	181	27.8		8.1		24.8		95.5		6.5		6.9		6			
					Bottom	7.7	0.5	152	27.9	28.0	8.1	8.1	24.7	24.7	84.8	85.2	5.8	5.8	11.2		6			
						7.7	0.5	154	28.1		8.1		24.6		85.5		5.8		11.6		6			
SR4A	Cloudy	Moderate	08:22	8.2	Surface	1.0	0.0	98	28.8	28.8	8.1	8.1	22.5	22.5	139.5	139.7	9.5	7.3	10.8	9.2	8	8	817196	807789
						1.0	0.0	100	28.8		8.1		22.5		139.9		9.5		10.8		8			
					Middle	4.1	-	94	27.5	27.5	8.0	8.0	26.7	26.7	73.2	73.2	5.0		8.5		8			
						4.1	0.0	89	27.4		8.0		26.7		73.2		5.0		8.5		8			
					Bottom	7.2	0.0	98	27.3	27.3	8.0	8.0	26.9	26.9	74.2	74.4	5.1	5.1	8.3		8			
						7.2	0.0	97	27.3		8.0		26.9		74.5		5.1		8.3		8			
SR8	Misty	Calm	10:33	4.2	Surface	1.0	-	-	30.4	30.5	8.4	8.4	20.4	20.4	148.3	148.2	10.0	10.0	2.5	3.3	7	8	820388	811646
						1.0	-	-	30.5		8.4		20.4		148.1		9.9		2.6		7			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.2	-	-	29.1	29.1	8.2	8.2	23.2	23.1	100.4	101.2	6.8	6.9	4.1		8			
						3.2	-	-	29.1		8.2		23.1		101.9		6.9		4.1		8			

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Water Quality Monitoring
Water Quality Monitoring Results on 13 June 23 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	15:24	8.0	Surface	1.0	0.3	33	29.4	29.4	8.1	8.1	15.9	15.8	140.5	140.5	9.8	8.7	5.4	9.4	5	5	815626	804239
						1.0	0.3	31	29.4		8.1		15.8		140.5		9.8		5.5		5			
					Middle	4.0	0.3	14	28.7	28.7	8.1	8.1	20.8	20.7	113.0	109.9	7.8		12.4		5			
						4.0	0.3	21	28.7		8.1		20.5		106.8		7.4		12.0		5			
					Bottom	7.0	0.2	18	27.0	27.1	8.0	8.0	27.0	26.9	76.1	78.1	5.2	5.4	10.1		4			
						7.0	0.2	15	27.1		8.0		26.8		80.1		5.5		11.0		4			
C2	Sunny	Moderate	13:50	11.9	Surface	1.0	0.1	207	29.4	29.4	8.2	8.1	17.7	17.6	147.3	144.6	10.2	7.8	6.8	5.9	4	5	825693	806925
						1.0	0.0	212	29.4		8.1		17.5		141.9		9.8		7.0		4			
					Middle	6.0	0.1	226	27.5	27.5	8.1	8.1	25.1	25.1	82.8	82.2	5.7		6.4		4			
						6.0	-	229	27.5		8.1		25.2		81.6		5.6		5.8		5			
					Bottom	10.9	0.0	210	27.5	27.5	8.1	8.1	25.4	25.4	78.3	78.3	5.4	5.4	4.8		5			
						10.9	0.0	203	27.5		8.1		25.4		78.3		5.4		4.7		6			
C3	Misty	Calm	15:39	12.0	Surface	1.0	0.4	256	29.5	29.5	8.4	8.4	22.8	22.8	137.3	137.4	9.2	7.1	1.3	2.5	9	8	822099	817812
						1.0	0.4	261	29.5		8.4		22.9		137.4		9.2		1.3		9			
					Middle	6.0	0.4	254	27.9	27.9	8.1	8.1	26.3	26.3	72.0	72.1	4.9		2.6		8			
						6.0	0.4	247	27.9		8.1		26.3		72.1		4.9		2.7		9			
					Bottom	11.0	0.3	257	28.1	28.2	8.1	8.1	27.1	27.1	80.9	81.3	5.4	5.5	3.5		7			
						11.0	0.3	252	28.2		8.2		27.1		81.7		5.5		3.6		7			
IM1	Sunny	Moderate	15:01	6.2	Surface	1.0	0.1	6	28.8	28.8	8.3	8.3	19.8	19.8	143.7	139.3	10.0	8.2	3.7	3.5	7	7	818345	806478
						1.0	0.1	0	28.7		8.3		19.9		134.9		9.4		3.8		7			
					Middle	3.1	0.1	16	27.6	27.6	8.0	8.0	26.1	26.1	96.4	96.3	6.6		3.4		7			
						3.1	0.1	19	27.6		8.0		26.1		96.1		6.6		3.7		7			
					Bottom	5.2	0.2	349	26.9	26.9	7.8	7.8	28.0	28.0	76.2	77.1	5.2	5.3	3.4		7			
						5.2	0.2	349	26.9		7.8		28.0		77.9		5.3		3.0		8			
IM2	Sunny	Moderate	14:55	6.8	Surface	1.0	0.1	319	28.9	28.9	8.3	8.3	22.0	22.0	164.6	164.2	11.2	8.2	5.1	8.2	5	5	819188	806225
						1.0	0.2	324	28.9		8.3		22.0		163.7		11.2		5.0		4			
					Middle	3.4	0.1	337	27.0	27.0	8.1	8.1	27.1	27.1	76.9	76.4	5.3		11.5		5			
						3.4	0.1	343	27.0		8.1		27.1		75.8		5.2		12.0		5			
					Bottom	5.8	0.1	350	26.9	26.9	8.0	8.0	27.4	27.4	70.6	71.0	4.8	4.9	7.3		7			
						5.8	0.0	354	26.9		8.0		27.4		71.4		4.9		7.9		6			
IM7	Sunny	Moderate	14:23	7.6	Surface	1.0	0.2	251	29.5	29.5	8.2	8.2	20.0	20.0	182.2	182.2	12.5	10.7	4.9	8.5	4	6	821347	806813
						1.0	0.2	248	29.5		8.2		20.0		182.1		12.5		4.9		5			
					Middle	3.8	0.2	259	28.3	28.3	8.1	8.1	23.7	23.8	131.9	131.4	9.0		9.2		5			
						3.8	0.1	260	28.2		8.1		23.8		130.8		8.9		9.4		6			
					Bottom	6.6	0.2	255	27.9	27.9	7.8	7.8	24.4	24.4	96.7	97.0	6.6	6.7	11.2		7			
						6.6	0.2	258	27.9		7.8		24.4		97.3		6.7		11.3		6			

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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 June 23 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		
IM10	Misty	Calm	13:54	8.8	Surface	1.0	0.3	267	31.1	31.1	8.5	8.5	19.6	19.6	183.0	182.8	12.2	9.3	2.8	4.4	6	7	822243	809845
						1.0	0.3	264	31.1		8.5		19.6		182.5		12.2		2.8		6			
					Middle	4.4	0.2	267	29.1	29.1	8.2	8.2	23.3	23.3	95.0	95.1	6.4		4.8		8			
						4.4	0.2	262	29.1		8.2		23.3		95.2		6.4		4.8		7			
					Bottom	7.8	0.2	282	28.8	28.8	8.1	8.1	24.1	24.1	79.1	79.3	5.3	5.4	5.4		8			
						7.8	0.3	282	28.8		8.1		24.1		79.4		5.4		5.5		7			
IM11	Misty	Calm	14:16	7.2	Surface	1.0	0.3	261	30.0	30.0	8.5	8.5	19.9	19.9	172.6	172.7	11.7	10.5	3.9	5.7	7	6	821519	810562
						1.0	0.3	259	30.0		8.5		19.9		172.8		11.7		3.9		6			
					Middle	3.6	0.4	264	29.7	29.7	8.4	8.4	21.8	21.8	137.6	137.4	9.3		5.8		7			
						3.6	0.4	256	29.7		8.4		21.8		137.2		9.2		5.9		6			
					Bottom	6.2	0.4	268	29.3	29.3	8.2	8.2	23.0	22.9	102.0	102.3	6.9	6.9	7.3		5			
						6.2	0.4	263	29.3		8.2		22.9		102.5		6.9		7.3		5			
IM12	Misty	Calm	14:22	6.8	Surface	1.0	0.3	272	30.2	30.2	8.5	8.5	18.8	18.8	176.4	176.3	12.0	11.3	2.6	3.1	6	5	821184	811521
						1.0	0.3	278	30.2		8.5		18.8		176.2		12.0		2.6		5			
					Middle	3.4	0.3	279	30.0	30.0	8.4	8.4	21.0	20.9	157.2	157.2	10.6		3.1		5			
						3.4	0.3	281	30.0		8.4		20.9		157.2		10.6		3.2		5			
					Bottom	5.8	0.4	268	29.8	29.8	8.4	8.4	21.7	21.7	124.8	123.8	8.4	8.4	3.8		4			
						5.8	0.4	268	29.8		8.3		21.7		122.8		8.3		3.6		4			
SR1A	Misty	Calm	14:55	5.8	Surface	1.0	0.0	193	30.0	30.0	8.4	8.4	21.1	21.1	145.3	145.2	9.8	9.8	2.1	2.7	5	5	819976	812665
						1.0	0.0	196	30.0		8.4		21.1		145.1		9.8		2.1		6			
					Middle	2.9	0.0	209	-	-	-	-	-	-	-	-	-		-		-			
						2.9	0.0	215	-		-		-		-		-		-		-			
					Bottom	4.8	0.0	213	29.9	30.0	8.2	8.2	22.8	22.0	126.6	129.9	8.5	8.8	3.3		4			
						4.8	0.0	210	30.0		8.2		21.2		133.1		9.0		3.2		4			
SR2	Misty	Calm	15:18	5.2	Surface	1.0	0.1	264	30.4	30.4	8.4	8.4	21.3	21.3	161.0	160.9	10.8	10.8	2.2	2.8	4	4	821479	814177
						1.0	0.1	258	30.4		8.4		21.3		160.8		10.7		2.3		4			
					Middle	-	0.2	274	-	-	-	-	-	-	-	-	-		-		-			
						-	0.1	270	-		-		-		-		-		-		-			
					Bottom	4.2	0.1	263	30.1	30.1	8.4	8.4	21.9	21.9	139.7	139.0	9.3	9.3	3.3		4			
						4.2	0.2	270	30.1		8.4		21.8		138.3		9.3		3.2		4			
SR3	Sunny	Moderate	14:17	8.4	Surface	1.0	0.0	217	27.9	27.9	7.9	7.9	23.8	23.8	95.6	96.2	6.6	6.5	7.4	6.8	5	5	822155	807563
						1.0	0.0	221	27.9		7.9		23.8		96.7		6.6		7.5		4			
					Middle	4.2	0.0	236	27.8	27.8	7.9	7.9	24.3	24.3	94.0	94.0	6.4		7.3		5			
						4.2	0.1	239	27.8		7.9		24.3		93.9		6.4		7.2		5			
					Bottom	7.4	0.1	205	27.8	27.8	7.8	7.8	24.7	24.7	90.4	90.6	6.2	6.2	5.7		5			
						7.4	0.0	208	27.8		7.8		24.7		90.7		6.2		5.7		5			
SR4A	Sunny	Moderate	15:46	8.2	Surface	1.0	0.1	135	29.1	29.1	8.2	8.2	21.2	21.0	165.3	165.2	11.3	9.4	6.6	10.6	4	4	817168	807817
						1.0	0.0	141	29.0		8.2		20.8		165.0		11.3		6.9		4			
					Middle	4.1	-	128	28.3	28.4	8.0	8.0	24.6	24.7	114.1	111.4	7.7		11.4		4			
						4.1	0.0	127	28.4		8.0		24.7		108.7		7.4		11.9		3			
					Bottom	7.2	0.0	135	28.7	28.8	7.8	7.8	24.9	24.8	101.8	102.6	6.9	7.0	13.6		4			
						7.2	0.0	131	28.8		7.8		24.8		103.3		7.0		13.4		3			
SR8	Misty	Calm	14:43	4.8	Surface	1.0	-	-	30.2	30.2	8.5	8.5	21.2	21.2	156.4	156.4	10.5	10.5	1.6	2.1	7	8	820368	811603
						1.0	-	-	30.2		8.5		21.2		156.4		10.5		1.5		6			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.8	-	-	29.1	29.1	8.3	8.3	23.4	23.4	103.1	104.7	7.0	7.1	2.8		9			
						3.8	-	-	29.1		8.3		23.4		106.3		7.2		2.7		9			

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Water Quality Monitoring
Water Quality Monitoring Results on 15 June 23 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	Moderate	11:17	8.4	Surface	1.0	0.6	203	30.6	30.6	8.5	8.5	13.6	13.3	94.3	94.2	6.5	6.0	2.9	2.2	4	6	815603	804228
						1.0	0.6	195	30.6		8.6		13.0		94.0		6.5		2.9		5			
					Middle	4.2	0.6	199	28.2	28.2	8.2	8.2	26.6	26.6	81.4	81.4	5.4		2.0		6			
						4.2	0.5	199	28.2		8.2		26.6		81.4		5.4		2.0		6			
					Bottom	7.4	0.6	197	28.1	28.2	8.2	8.2	26.6	26.5	81.8	81.9	5.5	5.5	1.9		6			
						7.4	0.6	202	28.2		8.2		26.5		81.9		5.5		1.9		6			
C2	Rainy	Moderate	09:54	12.0	Surface	1.0	0.5	182	30.4	30.4	8.5	8.5	13.7	13.7	93.4	93.2	6.5	6.3	3.7	3.3	4	5	825664	806953
						1.0	0.5	187	30.4		8.5		13.6		93.0		6.4		3.7		4			
					Middle	6.0	0.4	168	28.7	28.7	8.2	8.2	22.5	22.5	90.5	90.5	6.1		3.3		4			
						6.0	0.4	170	28.7		8.2		22.5		90.5		6.1		3.3		4			
					Bottom	11.0	0.4	163	28.4	28.4	8.2	8.2	24.5	24.5	79.2	79.4	5.3	5.4	3.0		6			
						11.0	0.4	164	28.4		8.2		24.5		79.5		5.4		2.9		5			
C3	Rainy	Calm	11:27	11.4	Surface	1.0	0.4	58	28.2	28.2	8.1	8.1	23.2	23.2	82.6	82.6	5.7	5.5	2.4	3.8	5	6	822113	817820
						1.0	0.4	50	28.2		8.1		23.2		82.6		5.7		2.4		6			
					Middle	5.7	0.4	55	27.7	27.7	8.1	8.1	25.5	25.5	78.2	78.2	5.3		3.9		6			
						5.7	0.4	59	27.7		8.1		25.5		78.2		5.3		3.9		6			
					Bottom	10.4	0.4	62	27.2	27.2	8.0	8.0	27.1	27.1	73.2	73.2	5.0	5.0	5.0		6			
						10.4	0.3	59	27.2		8.0		27.1		73.2		5.0		5.0		7			
IM1	Rainy	Moderate	10:57	6.4	Surface	1.0	0.3	192	30.0	30.0	8.3	8.3	20.2	20.2	90.2	90.2	6.1	5.9	10.5	8.9	5	5	818355	806447
						1.0	0.4	188	30.0		8.3		20.1		90.1		6.1		10.7		4			
					Middle	3.2	0.3	179	28.3	28.3	8.2	8.2	25.7	25.7	83.3	83.4	5.6		6.7		6			
						3.2	0.3	183	28.3		8.2		25.7		83.4		5.6		7.0		5			
					Bottom	5.4	0.3	184	28.0	28.0	8.2	8.2	26.8	26.8	79.3	79.4	5.3	5.3	9.1		5			
						5.4	0.2	188	28.0		8.2		26.8		79.4		5.3		9.2		6			
IM2	Rainy	Moderate	10:53	6.2	Surface	1.0	0.3	202	30.5	30.5	8.5	8.5	17.9	17.9	97.2	97.5	6.6	6.0	3.0	8.8	6	5	819168	806218
						1.0	0.3	202	30.5		8.5		17.9		97.8		6.6		2.9		6			
					Middle	3.1	0.3	211	28.0	28.0	8.4	8.4	26.4	26.4	80.4	80.4	5.4		12.0		5			
						3.1	0.3	205	28.0		8.4		26.4		80.4		5.4		11.4		5			
					Bottom	5.2	0.3	193	28.0	28.0	8.4	8.4	26.8	26.8	76.4	76.6	5.1	5.1	11.9		4			
						5.2	0.3	198	28.0		8.4		26.9		76.7		5.1		11.8		5			
IM7	Rainy	Moderate	10:20	7.6	Surface	1.0	0.2	170	31.7	31.7	8.6	8.6	11.4	11.4	100.4	100.4	6.9	6.6	2.2	6.7	6	5	821340	806830
						1.0	0.2	174	31.7		8.6		11.4		100.3		6.9		2.2		6			
					Middle	3.8	0.2	172	28.9	28.9	8.2	8.2	21.5	21.5	91.9	91.2	6.2		6.2		6			
						3.8	0.2	175	28.8		8.2		21.5		90.5		6.2		6.5		5			
					Bottom	6.6	0.2	140	28.4	28.4	8.2	8.2	25.0	25.0	72.3	72.3	4.9	4.9	11.9		4			
						6.6	0.3	139	28.4		8.2		25.0		72.2		4.9		11.4		5			

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Water Quality Monitoring
Water Quality Monitoring Results on 15 June 23 during Mid-Ebb Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C) Value	Water Temperature (°C) Average	pH Value	pH Average	Salinity (ppt) Value	Salinity (ppt) Average	DO Saturation (%) Value	DO Saturation (%) Average	Dissolved Oxygen Value	Dissolved Oxygen DA	Turbidity(NTU) Value	Turbidity(NTU) DA	Suspended Solids (mg/L) Value	Suspended Solids (mg/L) DA	Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)
IM10	Rainy	Calm	09:49	8.0	Surface	1.0	0.5	92	29.0	29.0	8.1	8.1	19.2	19.2	93.0	92.9	6.4	5.7	3.0	4.9	4	4	822255	809816
						1.0	0.5	86	29.0		8.1		19.2		92.7		6.4		3.1		3			
					Middle	4.0	0.6	96	28.7	28.7	7.9	7.9	22.5	22.5	73.3	73.4	5.0		5.1		5			
						4.0	0.6	91	28.7		7.9		22.5		73.4		5.0		5.1		4			
					Bottom	7.0	0.5	83	28.6	28.6	7.8	7.8	23.0	23.0	66.2	66.3	4.5	4.5	6.6		5			
						7.0	0.5	79	28.6		7.8		23.0		66.3		4.5		6.6		4			
IM11	Rainy	Calm	10:15	9.0	Surface	1.0	0.7	92	29.0	29.0	8.1	8.1	20.7	20.7	78.6	78.6	5.4	5.1	2.3	4.0	6	6	821474	810552
						1.0	0.7	95	29.0		8.1		20.7		78.6		5.4		2.4		6			
					Middle	4.5	0.7	87	28.6	28.6	8.0	8.0	22.6	22.5	70.2	70.2	4.8		4.5		7			
						4.5	0.7	84	28.6		8.0		22.5		70.1		4.8		4.5		6			
					Bottom	8.0	0.6	87	28.5	28.6	7.9	7.9	22.8	22.8	72.6	72.7	5.0	5.0	5.1		6			
						8.0	0.6	82	28.6		7.9		22.8		72.8		5.0		5.0		7			
IM12	Rainy	Calm	10:20	9.6	Surface	1.0	0.7	91	29.1	29.1	8.1	8.1	18.6	18.6	88.1	88.1	6.1	5.6	2.3	4.5	4	5	821169	811544
						1.0	0.7	94	29.1		8.1		18.6		88.0		6.1		2.3		5			
					Middle	4.8	0.7	104	28.6	28.6	8.0	8.0	22.2	22.2	73.8	73.8	5.1		5.0		5			
						4.8	0.7	108	28.6		8.0		22.3		73.8		5.1		5.0		4			
					Bottom	8.6	0.7	117	28.0	28.0	7.9	7.9	25.3	25.4	64.7	64.8	4.4	4.4	6.1		5			
						8.6	0.8	115	28.0		7.9		25.5		64.9		4.4		6.4		5			
SR1A	Rainy	Calm	10:53	4.8	Surface	1.0	0.0	115	28.8	28.8	8.1	8.1	19.4	19.4	89.7	89.7	6.2	6.2	3.9	4.9	5	5	819991	812676
						1.0	0.0	119	28.8		8.1		19.4		89.7		6.2		3.9		5			
					Middle	2.4	0.0	139	-	-	-	-	-	-	-	-	-		-		-			
						2.4	0.1	133	-		-		-		-		-		-		-			
					Bottom	3.8	0.0	105	28.3	28.3	8.1	8.1	23.3	23.3	78.8	78.9	5.4	5.4	6.0		4			
						3.8	0.0	103	28.3		8.1		23.3		78.9		5.4		6.0		6			
SR2	Rainy	Calm	11:09	4.0	Surface	1.0	0.6	34	28.8	28.8	8.1	8.1	20.2	20.2	89.7	89.7	6.2	6.2	2.3	3.3	6	6	821460	814185
						1.0	0.6	36	28.8		8.1		20.2		89.6		6.2		2.2		5			
					Middle	-	0.7	59	-	-	-	-	-	-	-	-	-		-		-			
						-	0.6	53	-		-		-		-		-		-		-			
					Bottom	3.0	0.6	22	28.6	28.6	8.0	8.0	22.0	22.0	79.6	79.8	5.5	5.5	4.4		6			
						3.0	0.6	23	28.6		8.0		22.0		79.9		5.5		4.4		5			
SR3	Rainy	Moderate	10:13	8.8	Surface	1.0	0.5	149	30.4	30.4	8.6	8.6	14.7	14.7	100.2	100.1	6.9	6.3	4.0	4.1	4	5	822149	807561
						1.0	0.4	142	30.4		8.6		14.7		100.0		6.9		4.1		5			
					Middle	4.4	0.5	148	28.8	28.8	8.2	8.2	23.0	23.0	84.2	84.0	5.7		4.0		6			
						4.4	0.4	148	28.8		8.2		23.0		83.8		5.7		4.0		5			
					Bottom	7.8	0.4	177	28.5	28.5	8.2	8.2	24.5	24.6	67.6	67.6	4.5	4.5	4.5		6			
						7.8	0.4	180	28.5		8.2		24.6		67.6		4.5		4.4		5			
SR4A	Rainy	Moderate	11:43	9.2	Surface	1.0	0.0	26	31.4	31.4	8.6	8.6	15.4	15.4	90.3	90.3	6.1	5.7	4.4	4.7	4	5	817179	807797
						1.0	0.0	24	31.4		8.6		15.5		90.2		6.1		4.5		3			
					Middle	4.6	0.1	357	30.4	29.3	8.5	8.4	18.5	19.4	77.0	77.1	5.2		4.6		5			
						4.6	0.1	359	28.1		8.3		20.3		77.2		5.2		4.3		5			
					Bottom	8.2	0.0	0	28.1	28.1	8.3	8.3	26.4	26.4	78.1	78.2	5.2	5.2	5.1		5			
						8.2	0.0	1	28.1		8.3		26.4		78.3		5.2		5.0		6			
SR8	Rainy	Calm	10:27	4.4	Surface	1.0	-	-	28.8	28.8	8.1	8.1	18.7	18.7	92.2	92.2	6.4	6.4	2.2	2.5	4	5	820395	811640
						1.0	-	-	28.8		8.1		18.7		92.2		6.4		2.2		5			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.4	-	-	29.1	29.1	8.0	8.0	19.1	19.1	92.0	92.1	6.4	6.4	2.7		5			
						3.4	-	-	29.1		8.0		19.1		92.1		6.4		2.8		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 15 June 23 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C) Value	Water Temperature (°C) Average	pH Value	pH Average	Salinity (ppt) Value	Salinity (ppt) Average	DO Saturation (%) Value	DO Saturation (%) Average	Dissolved Oxygen Value	Dissolved Oxygen DA	Turbidity(NTU) Value	Turbidity(NTU) DA	Suspended Solids (mg/L) Value	Suspended Solids (mg/L) DA	Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)
C1	Misty	Moderate	04:40	8.0	Surface	1.0	0.4	26	29.2	29.2	8.1	8.1	22.8	22.8	98.8	98.8	6.6	6.1	3.3	5.4	3	4	815609	804238
						1.0	0.5	31	29.2		8.1		22.7		98.8		6.7		3.3		3			
					Middle	4.0	0.4	47	28.0	28.0	8.1	8.1	26.8	26.8	81.2	81.2	5.5		4.1		3			
						4.0	0.5	44	28.0		8.1		26.8		81.2		5.5		4.1		4			
					Bottom	7.0	0.5	25	28.1	28.1	8.1	8.1	26.8	26.8	81.5	81.6	5.5	5.5	8.8		5			
						7.0	0.4	26	28.1		8.1		26.8		81.7		5.5		8.7		5			
C2	Misty	Moderate	06:12	12.4	Surface	1.0	0.4	3	30.4	30.4	8.3	8.3	13.3	13.3	99.8	99.8	6.9	6.3	3.5	3.9	4	4	825692	806951
						1.0	0.4	0	30.4		8.3		13.3		99.7		6.9		3.5		4			
					Middle	6.2	0.4	10	28.5	28.5	7.9	7.9	24.0	24.0	84.2	84.2	5.7		4.2		5			
						6.2	0.4	5	28.5		7.9		24.1		84.1		5.7		4.2		4			
					Bottom	11.4	0.3	332	28.4	28.4	7.9	7.9	24.5	24.5	78.2	78.4	5.3	5.3	4.1		3			
						11.4	0.3	338	28.4		7.9		24.5		78.6		5.3		4.1		3			
C3	Misty	Calm	04:39	10.0	Surface	1.0	0.5	270	28.7	28.7	8.0	8.0	22.6	22.6	98.9	98.8	6.7	6.7	4.0	4.5	5	5	822088	817822
						1.0	0.5	268	28.7		8.0		22.6		98.7		6.7		3.9		5			
					Middle	5.0	0.5	263	28.5	28.5	8.0	8.0	23.1	23.1	96.5	96.5	6.6		4.4		6			
						5.0	0.6	268	28.5		8.0		23.1		96.5		6.6		4.4		5			
					Bottom	9.0	0.5	241	28.1	28.1	8.0	8.0	23.9	23.9	75.5	75.4	5.1	5.1	5.1		6			
						9.0	0.6	247	28.1		8.0		23.9		75.3		5.1		5.2		5			
IM1	Misty	Moderate	05:01	6.2	Surface	1.0	0.3	10	29.9	29.9	8.1	8.1	20.9	20.7	87.6	87.6	5.9	5.7	4.9	6.0	6	5	818351	806451
						1.0	0.3	3	29.9		8.1		20.5		87.5		5.9		5.1		6			
					Middle	3.1	0.4	8	28.1	28.1	8.0	8.0	26.3	26.3	80.6	80.7	5.4		6.7		5			
						3.1	0.4	8	28.0		8.0		26.4		80.7		5.4		6.6		4			
					Bottom	5.2	0.4	41	28.0	28.0	8.0	8.0	26.7	26.7	80.2	80.3	5.4	5.4	6.4		4			
						5.2	0.4	44	28.0		8.0		26.7		80.3		5.4		6.4		5			
IM2	Misty	Moderate	05:06	6.8	Surface	1.0	0.4	8	31.1	31.1	8.3	8.3	13.9	13.8	84.6	84.6	5.8	5.4	2.7	5.1	5	5	819159	806252
						1.0	0.4	2	31.1		8.3		13.7		84.5		5.8		2.8		4			
					Middle	3.4	0.4	355	28.0	28.0	8.1	8.1	26.6	26.6	74.6	74.6	5.0		7.1		5			
						3.4	0.4	355	28.0		8.1		26.6		74.6		5.0		6.9		4			
					Bottom	5.8	0.4	8	27.9	27.9	8.1	8.1	27.0	27.0	75.9	76.0	5.1	5.1	5.4		5			
						5.8	0.4	0	27.9		8.1		27.0		76.1		5.1		5.5		6			
IM7	Misty	Moderate	05:43	7.8	Surface	1.0	0.3	14	31.2	31.2	8.7	8.7	12.0	12.0	90.3	90.3	6.2	6.2	3.2	5.2	4	4	821371	806842
						1.0	0.2	6	31.2		8.7		12.0		90.2		6.2		3.4		4			
					Middle	3.9	0.3	1	29.2	29.2	8.5	8.5	18.5	18.4	88.7	88.8	6.1		4.0		4			
						3.9	0.3	7	29.2		8.5		18.4		88.9		6.1		4.2		4			
					Bottom	6.8	0.3	36	28.6	28.6	8.5	8.5	24.0	24.0	78.5	78.5	5.3	5.3	8.1		4			
						6.8	0.2	28	28.5		8.5		24.1		78.5		5.3		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 15 June 23 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		
IM10	Misty	Calm	06:02	8.0	Surface	1.0	0.3	306	31.0	31.0	8.5	8.5	17.5	17.5	99.4	99.4	6.7	6.5	2.9	4.6	3	4	822256	809814
						1.0	0.3	311	31.0		8.5		17.5		99.3		6.7		2.9		3			
					Middle	4.0	0.3	303	29.1	29.1	8.2	8.2	21.1	21.1	91.4	91.4	6.2		4.9		3			
						4.0	0.3	301	29.1		8.2		21.1		91.3		6.2		4.9		4			
					Bottom	7.0	0.3	290	28.8	28.8	8.1	8.1	21.9	21.9	77.1	77.2	5.2	5.3	6.0		4			
						7.0	0.3	294	28.8		8.1		21.9		77.2		5.3		6.0		4			
IM11	Misty	Calm	05:55	6.2	Surface	1.0	0.3	278	29.9	29.9	8.3	8.3	19.7	19.7	88.6	89.2	6.0	5.7	4.0	5.3	3	4	821513	810550
						1.0	0.4	270	29.9		8.3		19.7		89.8		6.1		4.0		3			
					Middle	3.1	0.3	278	29.0	29.0	8.1	8.1	21.6	21.6	77.8	77.8	5.3		5.0		5			
						3.1	0.3	278	29.0		8.1		21.6		77.8		5.3		5.1		4			
					Bottom	5.2	0.3	264	28.9	28.9	8.1	8.0	21.9	21.9	77.9	78.2	5.3	5.3	6.9		4			
						5.2	0.3	267	28.9		7.9		21.9		78.4		5.3		6.9		5			
IM12	Misty	Calm	05:49	8.0	Surface	1.0	0.4	283	30.1	30.1	8.1	8.1	19.4	19.4	90.4	90.3	6.1	5.8	3.8	5.1	5	4	821184	811516
						1.0	0.4	275	30.1		8.1		19.4		90.2		6.1		3.8		5			
					Middle	4.0	0.3	301	29.0	28.9	7.9	7.9	21.6	21.6	80.1	80.1	5.4		5.1		4			
						4.0	0.4	307	28.8		7.9		21.6		80.1		5.5		5.1		4			
					Bottom	7.0	0.3	282	28.8	28.7	7.9	7.9	22.0	22.0	75.5	75.6	5.1	5.2	6.4		4			
						7.0	0.3	288	28.6		7.9		22.0		75.6		5.2		6.5		4			
SR1A	Misty	Calm	05:22	4.4	Surface	1.0	0.0	178	28.3	28.6	8.1	8.1	19.4	19.4	101.1	101.2	7.0	7.0	3.1	3.5	5	4	819974	812665
						1.0	0.0	172	28.8		8.1		19.4		101.3		7.0		3.0		5			
					Middle	2.2	0.0	194	-	-	-	-	-	-	-	-	-		-		-			
						2.2	0.0	194	-		-		-		-		-		-		-			
					Bottom	3.4	0.1	179	28.8	29.0	8.0	8.0	20.2	20.2	82.5	82.4	5.7	5.7	3.8		3			
						3.4	0.1	174	29.2		8.0		20.1		82.3		5.6		3.9		4			
SR2	Misty	Calm	05:04	4.2	Surface	1.0	0.1	253	29.2	29.4	8.0	8.0	18.1	18.1	99.7	99.4	6.9	6.9	3.2	3.7	4	4	821474	814152
						1.0	0.1	260	29.5		8.0		18.1		99.0		6.8		3.2		5			
					Middle	-	0.2	240	-	-	-	-	-	-	-	-	-		-		-			
						-	0.2	246	-		-		-		-		-		-		-			
					Bottom	3.2	0.1	277	29.5	29.5	8.0	8.0	19.8	19.8	100.5	100.2	6.8	6.8	4.1		4			
						3.2	0.2	280	29.4		8.0		19.8		99.8		6.8		4.1		3			
SR3	Misty	Moderate	05:51	8.6	Surface	1.0	0.3	353	30.8	30.8	8.4	8.4	12.4	12.4	80.4	80.5	5.6	5.5	3.1	4.0	3	4	822166	807550
						1.0	0.3	350	30.8		8.4		12.4		80.6		5.6		3.1		3			
					Middle	4.3	0.3	337	29.1	29.1	8.2	8.2	18.2	18.3	78.4	78.4	5.4		4.0		5			
						4.3	0.3	335	29.0		8.2		18.3		78.4		5.4		4.2		4			
					Bottom	7.6	0.3	8	28.5	28.5	7.9	7.9	24.4	24.4	71.2	71.3	4.8	4.8	4.9		5			
						7.6	0.3	8	28.5		7.9		24.4		71.4		4.8		4.9		4			
SR4A	Misty	Moderate	04:15	8.4	Surface	1.0	0.0	147	29.6	29.9	8.0	8.0	20.7	20.3	90.3	90.3	6.1	5.7	4.0	4.3	5	4	817168	807793
						1.0	0.0	152	30.1		8.0		19.9		90.2		6.1		3.9		5			
					Middle	4.2	0.1	131	28.1	28.1	7.9	7.9	26.5	26.5	78.4	78.4	5.3		4.8		4			
						4.2	0.1	128	28.1		7.9		26.5		78.4		5.3		4.8		4			
					Bottom	7.4	0.0	145	28.1	28.1	7.9	7.9	26.6	26.6	79.0	79.1	5.3	5.3	4.3		4			
						7.4	0.0	148	28.1		7.9		26.6		79.1		5.3		4.1		4			
SR8	Misty	Calm	05:43	4.4	Surface	1.0	-	-	28.6	28.7	8.2	8.2	18.3	18.3	100.3	100.2	7.0	7.0	2.6	3.4	5	4	820378	811642
						1.0	-	-	28.8		8.2		18.3		100.1		7.0		2.6		4			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.4	-	-	28.8	28.6	8.0	8.0	21.1	21.0	95.4	96.2	6.5	6.6	4.1		3			
						3.4	-	-	28.3		8.0		21.0		96.9		6.7		4.2		4			

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

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 17 June 23 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	Moderate	12:24	8.4	Surface	1.0	0.6	216	26.2	26.2	8.1	8.1	23.0	23.0	73.5	73.6	5.2	4.6	3.7	6.8	5	4	815614	804249
						1.0	0.6	208	26.2		8.1		23.0		73.6		5.2		3.7		4			
					Middle	4.2	0.6	191	25.5	25.5	8.0	8.0	24.2	24.4	58.6	55.6	4.2		7.4		4			
						4.2	0.6	187	25.5		8.0		24.7		52.5		3.7		7.9		3			
					Bottom	7.4	0.6	200	25.3	25.3	8.0	8.0	27.5	27.5	52.8	53.2	3.7	3.8	8.8		4			
						7.4	0.6	196	25.3		8.0		27.4		53.6		3.8		9.2		5			
C2	Rainy	Moderate	10:56	12.1	Surface	1.0	0.6	174	26.3	26.3	8.1	8.1	22.0	22.0	72.8	72.7	5.2	5.1	6.3	5.8	7	6	825705	806956
						1.0	0.6	169	26.3		8.1		22.0		72.5		5.2		6.1		6			
					Middle	6.1	0.6	162	26.1	26.1	8.1	8.1	23.9	23.9	69.5	69.5	4.9		4.4		4			
						6.1	0.5	163	26.1		8.1		23.9		69.5		4.9		4.5		4			
					Bottom	11.1	0.5	161	25.7	25.7	8.1	8.1	27.0	27.0	64.6	64.8	4.5	4.5	6.8		6			
						11.1	0.5	167	25.7		8.1		27.0		64.9		4.5		6.6		6			
C3	Rainy	Calm	12:49	10.0	Surface	1.0	0.5	73	27.8	27.8	7.9	7.9	22.2	22.2	70.8	70.8	4.9	4.7	4.0	4.8	6	6	822120	817825
						1.0	0.5	71	27.8		7.9		22.2		70.7		4.9		4.0		6			
					Middle	5.0	0.4	45	27.6	27.6	7.9	7.9	23.3	23.3	65.4	65.4	4.5		4.6		5			
						5.0	0.4	42	27.6		7.9		23.3		65.4		4.5		4.6		5			
					Bottom	9.0	0.4	72	27.6	27.6	7.9	7.9	23.4	23.4	65.2	65.3	4.5	4.5	5.8		5			
						9.0	0.5	76	27.6		7.9		23.4		65.3		4.5		5.9		6			
IM1	Rainy	Moderate	11:59	6.7	Surface	1.0	0.3	178	26.2	26.2	8.1	8.1	23.7	23.7	68.3	68.3	4.8	4.5	4.3	6.8	5	5	818367	806469
						1.0	0.3	181	26.1		8.1		23.7		68.2		4.8		4.4		4			
					Middle	3.4	0.4	188	25.5	25.5	8.0	8.0	27.8	27.8	59.6	59.6	4.2		7.5		5			
						3.4	0.4	183	25.5		8.0		27.8		59.6		4.2		7.6		5			
					Bottom	5.7	0.4	183	25.5	25.8	8.0	8.0	27.7	27.7	52.4	52.4	3.7	3.7	8.2		5			
						5.7	0.4	188	26.1		8.0		27.6		52.4		3.7		8.9		5			
IM2	Rainy	Moderate	11:54	7.5	Surface	1.0	0.4	200	26.1	26.1	8.1	8.1	22.4	22.4	76.8	76.9	5.5	5.1	3.8	5.2	4	5	819188	806212
						1.0	0.4	200	26.1		8.1		22.4		77.0		5.5		3.8		5			
					Middle	3.8	0.4	195	25.8	25.8	8.0	8.0	23.6	23.6	64.7	64.4	4.6		5.5		4			
						3.8	0.4	195	25.8		8.0		23.6		64.0		4.6		5.5		5			
					Bottom	6.5	0.3	217	25.7	25.7	8.0	8.0	25.2	25.2	55.9	56.1	4.0	4.0	6.4		6			
						6.5	0.3	213	25.7		8.0		25.2		56.3		4.0		6.4		6			
IM7	Rainy	Moderate	11:29	8.0	Surface	1.0	0.2	140	26.1	26.1	8.0	8.0	21.2	21.2	74.2	74.2	5.3	4.8	6.4	9.9	5	5	821348	806857
						1.0	0.2	145	26.1		8.0		21.2		74.2		5.3		6.4		4			
					Middle	4.0	0.3	157	25.9	25.9	8.0	8.0	24.6	24.5	61.3	61.6	4.3		10.1		4			
						4.0	0.3	154	25.9		8.0		24.5		61.9		4.4		10.3		4			
					Bottom	7.0	0.2	167	25.8	25.8	8.0	8.0	25.2	25.2	57.8	58.0	4.1	4.1	13.1		6			
						7.0	0.2	168	25.8		8.0		25.2		58.1		4.1		13.1		5			

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

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 17 June 23 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		
IM10	Rainy	Calm	11:04	8.6	Surface	1.0	0.7	110	28.0	28.0	8.0	8.0	20.1	20.1	77.3	77.3	5.4	4.8	2.6	3.4	8	7	822227	809861
						1.0	0.7	115	28.0		8.0		20.1		77.2		5.4		2.6		6			
					Middle	4.3	0.6	95	27.7	27.7	8.0	8.0	23.3	23.3	59.1	59.1	4.1		3.4		6			
						4.3	0.6	101	27.7		8.0		23.3		59.1		4.1		3.5		7			
					Bottom	7.6	0.6	111	27.7	27.7	8.0	8.0	23.4	23.4	60.9	61.1	4.2	4.2	4.1		6			
						7.6	0.7	109	27.7		8.0		23.4		61.3		4.2		4.1		7			
IM11	Rainy	Calm	11:26	7.8	Surface	1.0	0.7	108	28.0	28.0	8.0	8.0	20.5	20.5	74.4	74.4	5.2	4.8	6.0	7.3	6	6	821524	810564
						1.0	0.7	101	28.0		8.0		20.5		74.3		5.2		6.0		6			
					Middle	3.9	0.8	85	27.8	27.8	8.0	8.0	22.8	22.8	62.0	62.0	4.3		8.0		7			
						3.9	0.8	82	27.8		8.0		22.8		62.0		4.3		7.8		6			
					Bottom	6.8	0.8	104	27.7	27.7	8.0	8.0	23.4	23.4	62.7	62.8	4.3	4.3	8.1		7			
						6.8	0.8	98	27.7		8.0		23.4		62.9		4.3		8.1		6			
IM12	Rainy	Calm	11:32	6.4	Surface	1.0	0.9	98	28.0	28.0	8.0	8.0	19.9	19.9	79.3	79.3	5.6	5.5	2.3	4.1	8	6	821146	811498
						1.0	0.8	100	28.0		8.0		20.0		79.2		5.6		2.4		6			
					Middle	3.2	0.8	98	28.0	28.0	8.0	8.0	20.1	20.1	77.8	77.8	5.4		4.3		7			
						3.2	0.9	103	28.0		8.0		20.1		77.7		5.4		4.3		6			
					Bottom	5.4	0.8	80	27.9	27.9	8.0	8.0	22.4	22.4	66.0	66.1	4.6	4.6	5.7		5			
						5.4	0.9	87	27.9		8.0		22.4		66.2		4.6		5.7		5			
SR1A	Rainy	Calm	12:05	3.7	Surface	1.0	0.0	96	27.8	27.8	8.0	8.0	21.6	21.6	70.0	70.0	4.9	4.9	3.3	3.3	7	7	819980	812655
						1.0	0.0	98	27.8		8.0		21.6		69.9		4.9		3.3		8			
					Middle	1.9	0.0	94	-	-	-	-	-	-	-	-	-		-		-			
						1.9	0.1	98	-		-		-		-		-		-		-			
					Bottom	2.7	0.1	93	27.8	27.8	8.0	8.0	21.8	21.8	69.7	69.7	4.9	4.9	3.4		6			
						2.7	0.0	99	27.8		8.0		21.8		69.7		4.9		3.4		6			
SR2	Rainy	Calm	12:28	4.0	Surface	1.0	0.7	58	27.7	27.7	7.9	7.9	22.3	22.3	71.4	71.4	5.0	5.0	4.7	5.0	6	5	821455	814159
						1.0	0.7	64	27.7		7.9		22.3		71.4		5.0		4.7		6			
					Middle	-	0.7	38	-	-	-	-	-	-	-	-	-		-		-			
						-	0.6	38	-		-		-		-		-		-		-			
					Bottom	3.0	0.7	32	27.6	27.6	7.9	7.9	23.2	23.2	66.6	66.7	4.6	4.6	5.4		5			
						3.0	0.7	27	27.6		7.9		23.2		66.7		4.6		5.3		4			
SR3	Rainy	Moderate	11:20	9.5	Surface	1.0	0.5	148	26.3	26.3	8.0	8.0	21.6	21.6	71.9	71.8	5.1	5.1	5.5	6.0	3	3	822143	807562
						1.0	0.5	144	26.3		8.0		21.6		71.7		5.1		5.5		3			
					Middle	4.8	0.5	158	26.2	26.2	8.0	8.0	22.3	22.3	70.1	70.1	5.0		5.9		3			
						4.8	0.5	162	26.2		8.0		22.3		70.1		5.0		5.9		4			
					Bottom	8.5	0.5	178	26.1	26.1	8.0	8.0	23.0	23.0	63.8	63.7	4.5	4.5	6.7		3			
						8.5	0.5	183	26.1		8.0		23.1		63.6		4.5		6.8		3			
SR4A	Rainy	Moderate	12:47	8.9	Surface	1.0	0.1	56	26.2	26.2	8.1	8.1	23.0	23.0	70.3	70.2	5.0	5.1	3.8	7.0	3	3	817205	807802
						1.0	0.1	49	26.1		8.1		23.0		70.0		5.0		4.2		2			
					Middle	4.5	0.0	59	25.5	25.5	8.1	8.1	27.4	27.4	51.2	51.2	5.1		8.6		3			
						4.5	0.0	60	25.5		8.1		27.3		51.2		5.1		8.6		4			
					Bottom	7.9	0.0	56	25.8	25.9	8.1	8.1	28.2	28.2	51.8	52.2	3.6	3.7	8.6		4			
						7.9	0.1	50	25.9		8.1		28.2		52.6		3.7		8.1		4			
SR8	Rainy	Calm	11:53	5.0	Surface	1.0	-	-	28.0	28.0	8.0	8.0	20.0	20.0	78.7	78.7	5.5	5.5	2.7	3.2	6	6	820379	811626
						1.0	-	-	28.0		8.0		20.0		78.6		5.5		2.7		6			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	4.0	-	-	28.0	28.0	8.0	8.0	20.6	20.6	74.5	74.5	5.2	5.2	3.7		5			
						4.0	-	-	28.0		8.0		20.6		74.5		5.2		3.7		6			

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Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 17 June 23 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA		
C1	Cloudy	Moderate	05:25	8.0	Surface	1.0	0.3	37	25.9	25.9	8.0	8.0	23.0	23.0	68.7	68.5	4.9	4.3	3.4	6.9	6	4	815608	804255
						1.0	0.3	41	25.9		8.0		23.0		68.3		4.9		3.5		4			
					Middle	4.0	0.4	21	25.5	25.5	7.9	7.9	26.9	26.9	52.1	52.4	3.7		6.7		3			
						4.0	0.3	13	25.5		7.9		26.9		52.7		3.7		6.7		4			
					Bottom	7.0	0.3	33	25.4	25.4	7.9	7.9	27.1	27.0	49.0	49.2	3.4	3.5	10.7		4			
						7.0	0.3	37	25.4		7.9		27.0		49.3		3.5		10.5		4			
C2	Cloudy	Moderate	06:41	11.8	Surface	1.0	0.4	335	26.3	26.3	8.1	8.1	21.8	21.8	73.3	73.3	5.2	5.0	6.7	8.2	5	6	825664	806949
						1.0	0.3	329	26.3		8.1		21.8		73.3		5.2		6.5		6			
					Middle	5.9	0.4	332	25.9	25.9	8.1	8.1	23.9	23.9	68.2	68.1	4.9		5.5		4			
						5.9	0.4	325	25.8		8.1		23.9		68.0		4.8		5.6		6			
					Bottom	10.8	0.4	344	25.4	25.4	8.0	8.0	26.7	26.6	60.9	60.9	4.3	4.3	12.9		6			
						10.8	0.3	339	25.4		8.0		26.6		60.9		4.3		12.2		7			
C3	Rainy	Calm	05:49	11.4	Surface	1.0	0.4	269	27.6	27.6	7.9	7.9	22.0	22.0	76.4	76.4	5.3	4.6	3.2	4.2	5	5	822104	817810
						1.0	0.4	265	27.6		7.9		22.1		76.4		5.3		3.3		6			
					Middle	5.7	0.5	268	26.6	26.6	7.9	7.9	27.4	27.4	57.2	57.2	3.9		4.4		5			
						5.7	0.5	269	26.6		7.9		27.4		57.2		3.9		4.4		5			
					Bottom	10.4	0.5	257	25.8	25.8	7.8	7.8	29.6	29.6	57.5	57.7	4.0	4.0	5.0		5			
						10.4	0.5	252	25.8		7.8		29.6		57.9		4.0		5.0		6			
IM1	Rainy	Moderate	05:41	7.2	Surface	1.0	0.2	24	26.3	26.3	8.0	8.0	22.6	22.6	68.9	68.9	4.9	4.5	4.3	8.3	4	4	818351	806469
						1.0	0.2	21	26.3		8.0		22.6		68.9		4.9		4.3		4			
					Middle	3.6	0.2	4	25.6	25.6	8.0	8.0	26.5	26.6	58.2	58.2	4.1		8.1		4			
						3.6	0.2	11	25.6		8.0		26.6		58.2		4.1		8.6		3			
					Bottom	6.2	0.2	17	25.4	25.4	8.0	8.0	26.7	26.6	52.1	52.4	3.7	3.7	12.1		4			
						6.2	0.3	20	25.4		8.0		26.6		52.6		3.7		12.2		5			
IM2	Rainy	Moderate	05:47	7.2	Surface	1.0	0.2	0	25.9	25.9	8.0	8.0	24.1	24.0	68.4	68.4	4.8	4.5	6.7	8.4	5	5	819163	806255
						1.0	0.1	3	25.9		8.0		24.0		68.4		4.8		6.7		6			
					Middle	3.6	0.1	339	25.5	25.5	8.0	8.0	27.2	27.3	58.4	58.4	4.1		8.9		6			
						3.6	0.2	336	25.5		8.0		27.3		58.4		4.1		9.0		6			
					Bottom	6.2	0.1	334	25.4	25.4	8.0	8.0	27.4	27.4	51.8	52.0	3.6	3.7	9.8		4			
						6.2	0.1	328	25.4		8.0		27.4		52.1		3.7		9.3		4			
IM7	Rainy	Moderate	06:13	8.7	Surface	1.0	0.2	350	26.4	26.4	8.0	8.0	22.1	22.1	68.8	68.8	4.9	4.6	5.0	8.9	3	3	821327	806850
						1.0	0.2	352	26.4		8.0		22.1		68.8		4.9		5.2		2			
					Middle	4.4	0.2	338	26.2	26.2	8.0	8.0	23.6	23.6	59.9	59.9	4.2		8.9		2			
						4.4	0.2	343	26.2		8.0		23.6		59.8		4.2		9.0		4			
					Bottom	7.7	0.2	355	25.8	25.8	8.0	8.0	25.7	25.7	52.0	52.1	3.7	3.7	12.6		3			
						7.7	0.2	355	25.8		8.0		25.7		52.1		3.7		12.6		3			

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Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 17 June 23 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		
IM10	Rainy	Calm	07:10	8.6	Surface	1.0	0.3	293	28.0	28.0	8.0	8.0	20.2	20.2	78.2	78.2	5.5	4.8	1.9	2.5	6	6	822230	809819
						1.0	0.3	290	28.0		8.0		20.2		78.1		5.5		1.9		6			
					Middle	4.3	0.3	313	27.8	27.8	7.9	7.9	22.9	23.0	59.9	59.9	4.1		2.3		4			
						4.3	0.3	319	27.8		7.9		23.0		59.9		4.1		2.3		7			
					Bottom	7.6	0.3	275	27.7	27.7	8.0	8.0	23.5	23.4	62.9	63.1	4.3	4.4	3.4		7			
						7.6	0.3	269	27.7		8.0		23.4		63.2		4.4		3.5		6			
IM11	Rainy	Calm	07:03	7.4	Surface	1.0	0.3	277	28.0	28.0	8.0	8.0	20.8	20.8	71.5	71.5	5.0	4.7	5.8	6.3	6	6	821512	810557
						1.0	0.3	275	28.0		8.0		20.8		71.5		5.0		5.7		7			
					Middle	3.7	0.3	284	27.8	27.8	8.0	8.0	22.6	22.6	63.0	63.0	4.4		6.2		6			
						3.7	0.3	286	27.8		8.0		22.6		62.9		4.4		6.2		7			
					Bottom	6.4	0.3	274	27.7	27.7	8.0	8.0	23.2	23.2	63.4	63.5	4.4	4.4	7.1		5			
						6.4	0.3	270	27.7		8.0		23.2		63.6		4.4		7.0		5			
IM12	Rainy	Calm	06:57	8.8	Surface	1.0	0.3	272	27.9	27.9	8.0	8.0	20.3	20.3	81.5	81.5	5.7	5.7	2.4	3.0	5	5	821149	811529
						1.0	0.3	266	27.9		8.0		20.3		81.5		5.7		2.3		5			
					Middle	4.4	0.4	262	27.9	27.9	8.0	8.0	20.5	20.5	79.5	79.5	5.6		2.7		4			
						4.4	0.4	269	27.9		8.0		20.5		79.5		5.6		2.7		5			
					Bottom	7.8	0.4	281	27.8	27.8	8.0	8.0	22.2	22.2	68.4	68.5	4.8	4.8	4.1		6			
						7.8	0.4	275	27.8		8.0		22.2		68.6		4.8		4.1		6			
SR1A	Rainy	Calm	06:46	4.0	Surface	1.0	0.1	195	27.9	27.9	8.0	8.0	21.0	21.0	72.4	72.4	5.1	5.1	3.9	4.1	5	5	819979	812665
						1.0	0.1	188	27.9		8.0		21.0		72.3		5.1		3.9		4			
					Middle	2.0	0.1	174	-	-	-	-	-	-	-	-	-		-		-			
						2.0	0.1	180	-		-		-		-		-		-		-			
					Bottom	3.0	0.0	196	27.9	27.9	8.0	8.0	21.2	21.1	72.5	72.6	5.1	5.1	4.3		6			
						3.0	0.0	189	27.9		8.0		21.1		72.6		5.1		4.2		5			
SR2	Rainy	Calm	06:21	4.8	Surface	1.0	0.1	256	28.0	28.0	8.0	8.0	20.9	20.9	72.4	72.5	5.0	5.1	2.7	3.3	5	5	821464	814143
						1.0	0.1	249	28.0		8.0		20.9		72.6		5.1		2.8		5			
					Middle	-	0.1	261	-	-	-	-	-	-	-	-	-		-		-			
						-	0.1	257	-		-		-		-		-		-		-			
					Bottom	3.8	0.1	269	27.8	27.8	8.0	8.0	23.1	23.1	65.6	65.7	4.5	4.6	3.9		5			
						3.8	0.1	274	27.8		8.0		23.0		65.8		4.6		3.9		5			
SR3	Cloudy	Moderate	06:21	9.2	Surface	1.0	0.3	331	26.3	26.3	8.0	8.0	20.9	20.9	75.7	75.8	5.4	4.8	3.9	7.9	3	3	822137	807547
						1.0	0.3	326	26.3		8.0		20.9		75.8		5.4		4.0		3			
					Middle	4.6	0.3	333	26.1	26.1	8.0	8.0	23.8	23.8	59.5	59.4	4.2		8.8		3			
						4.6	0.3	332	26.1		8.0		23.9		59.3		4.2		9.1		3			
					Bottom	8.2	0.3	331	26.0	26.0	8.0	8.0	24.0	23.9	56.1	56.4	4.0	4.0	11.0		3			
						8.2	0.3	329	26.0		8.0		23.8		56.6		4.0		10.8		4			
SR4A	Cloudy	Moderate	05:06	8.8	Surface	1.0	0.1	144	26.0	26.0	7.9	7.9	22.5	22.5	69.9	69.8	5.0	5.1	4.2	6.9	5	5	817173	807814
						1.0	0.1	148	26.0		7.9		22.5		69.7		5.0		4.2		4			
					Middle	4.4	0.0	149	25.9	25.9	7.8	7.8	25.3	25.3	53.9	53.9	5.1		7.9		5			
						4.4	0.1	143	25.9		7.8		25.3		53.8		5.1		8.0		5			
					Bottom	7.8	0.0	170	25.9	25.9	7.8	7.8	25.3	25.3	54.6	54.7	3.9	3.9	8.4		5			
						7.8	0.1	165	25.9		7.8		25.3		54.8		3.9		8.4		6			
SR8	Rainy	Calm	06:52	4.8	Surface	1.0	-	-	27.9	27.9	8.0	8.0	19.6	19.6	81.4	81.4	5.7	5.7	1.4	1.9	6	6	820373	811626
						1.0	-	-	27.9		8.0		19.6		81.4		5.7		1.4		6			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.8	-	-	27.9	27.9	8.0	8.0	20.6	20.6	76.0	76.2	5.3	5.3	2.4		6			
						3.8	-	-	27.9		8.0		20.6		76.4		5.3		2.4		7			

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

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 20 June 23 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	14:28	8.4	Surface	1.0	0.7	227	26.8	26.8	8.2	8.2	22.9	22.9	89.8	89.8	6.3	5.3	6.6	7.2	6	7	815630	804227
						1.0	0.7	223	26.8		8.2		22.9		89.7		6.3		6.2		7			
					Middle	4.2	0.7	223	25.9	25.9	8.1	8.1	25.4	25.4	60.0	59.9	4.2		6.8		7			
						4.2	0.7	220	25.9		8.1		25.4		59.8		4.2		7.0		7			
					Bottom	7.4	0.7	199	25.8	25.8	8.0	8.0	25.5	25.5	59.3	59.5	4.2	4.2	8.2		7			
						7.4	0.6	203	25.8		8.0		25.5		59.6		4.2		8.5		6			
C2	Cloudy	Moderate	12:45	11.8	Surface	1.0	0.5	165	26.6	26.6	8.1	8.1	20.9	20.9	78.9	78.8	5.6	5.4	9.3	10.6	8	8	825702	806931
						1.0	0.5	167	26.6		8.1		20.9		78.6		5.6		9.4		8			
					Middle	5.9	0.5	170	26.2	26.2	8.1	8.1	22.9	23.0	73.0	72.6	5.2		11.2		8			
						5.9	0.4	177	26.2		8.1		23.0		72.1		5.1		11.1		8			
					Bottom	10.8	0.5	168	26.2	26.2	8.1	8.1	23.3	23.2	69.3	69.4	4.9	4.9	11.1		7			
						10.8	0.5	170	26.2		8.1		23.2		69.5		4.9		11.2		7			
C3	Fine	Calm	14:31	10.0	Surface	1.0	0.5	79	28.1	27.8	8.0	8.0	22.5	23.8	67.8	68.4	4.7	4.5	1.0	2.2	9	8	822104	817810
						1.0	0.6	83	27.4		8.0		25.1		68.9		5.0		1.1		9			
					Middle	5.0	0.5	84	27.4	27.1	8.0	8.0	25.1	25.6	59.0	59.2	4.1		2.3		7			
						5.0	0.5	90	26.7		8.1		26.0		59.3		4.1		2.3		7			
					Bottom	9.0	0.4	79	26.7	26.7	8.1	8.1	26.0	26.0	59.7	59.8	4.1	4.1	3.2		8			
						9.0	0.4	85	26.7		8.1		26.0		59.8		4.1		3.2		10			
IM1	Cloudy	Moderate	14:07	6.5	Surface	1.0	0.4	204	26.8	26.8	8.2	8.2	22.7	22.7	89.5	89.4	6.3	5.6	6.1	7.6	8	7	818365	806458
						1.0	0.4	202	26.8		8.2		22.7		89.3		6.3		6.1		7			
					Middle	3.3	0.4	186	26.0	26.0	8.1	8.1	24.2	24.2	69.7	69.6	4.9		6.9		6			
						3.3	0.5	184	25.9		8.1		24.3		69.5		4.9		7.0		6			
					Bottom	5.5	0.5	202	25.8	25.8	8.1	8.1	25.5	25.5	64.0	64.1	4.5	4.5	9.9		6			
						5.5	0.5	207	25.8		8.1		25.5		64.2		4.5		9.6		6			
IM2	Cloudy	Moderate	14:02	7.3	Surface	1.0	0.5	186	26.9	26.9	8.2	8.2	22.4	22.4	92.8	92.8	6.5	6.3	6.1	7.6	6	7	819188	806242
						1.0	0.5	180	26.9		8.2		22.4		92.7		6.5		6.1		7			
					Middle	3.7	0.5	212	26.8	26.8	8.2	8.2	22.5	22.4	85.9	85.7	6.1		7.6		7			
						3.7	0.5	205	26.8		8.2		22.4		85.5		6.0		7.4		8			
					Bottom	6.3	0.4	196	25.6	25.6	8.1	8.1	26.0	25.9	59.4	59.6	4.2	4.2	9.2		6			
						6.3	0.4	191	25.6		8.1		25.9		59.7		4.2		9.2		7			
IM7	Cloudy	Moderate	13:29	8.3	Surface	1.0	0.3	174	26.9	26.9	8.2	8.2	22.4	22.4	91.3	91.3	6.4	6.2	7.0	8.4	8	9	821357	806826
						1.0	0.3	177	26.8		8.2		22.5		91.3		6.4		7.1		6			
					Middle	4.2	0.3	168	26.5	26.5	8.2	8.1	22.7	22.7	84.1	84.1	6.0		8.8		8			
						4.2	0.3	173	26.4		8.1		22.7		84.0		6.0		8.8		9			
					Bottom	7.3	0.3	169	26.3	26.3	8.1	8.1	23.2	23.2	78.1	78.1	5.5	5.5	9.3		9			
						7.3	0.3	174	26.3		8.1		23.2		78.0		5.5		9.3		11			

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Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 20 June 23 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		
IM10	Fine	Calm	12:46	8.6	Surface	1.0	0.6	92	28.3	28.3	7.9	7.9	21.5	21.5	67.5	67.5	4.7	4.6	7.0	8.4	5	5	822254	809817
						1.0	0.6	94	28.3		7.9		21.5		67.5		4.7		7.0		7			
					Middle	4.3	0.6	85	28.0	28.0	7.9	7.9	22.2	22.2	63.1	63.1	4.4		8.6		5			
						4.3	0.6	78	28.0		7.9		22.2		63.1		4.4		8.5		6			
					Bottom	7.6	0.7	120	27.7	27.7	7.9	7.9	22.8	22.8	60.7	60.8	4.2	4.2	9.8		4			
						7.6	0.7	113	27.7		7.9		22.8		60.8		4.2		9.8		5			
IM11	Fine	Calm	13:08	7.8	Surface	1.0	0.7	85	28.9	28.9	7.9	7.9	19.8	19.8	78.7	78.7	5.4	5.2	3.0	4.2	4	6	821488	810533
						1.0	0.7	89	28.8		7.9		19.8		78.6		5.4		3.0		4			
					Middle	3.9	0.7	91	28.4	28.4	7.9	7.9	20.6	20.6	72.2	72.2	5.0		4.1		5			
						3.9	0.7	95	28.4		7.9		20.7		72.2		5.0		4.1		6			
					Bottom	6.8	0.7	111	28.1	28.1	7.9	7.9	21.8	21.8	67.3	67.5	4.7	4.7	5.3		8			
						6.8	0.7	112	28.1		7.9		21.8		67.7		4.7		5.3		8			
IM12	Fine	Calm	13:14	6.6	Surface	1.0	0.8	86	28.4	28.4	7.9	7.9	21.1	21.1	73.6	73.6	5.1	5.0	5.9	6.5	7	7	821165	811516
						1.0	0.8	79	28.4		7.9		21.1		73.6		5.1		5.9		8			
					Middle	3.3	0.8	88	28.1	28.1	7.9	7.9	21.8	21.8	68.9	68.9	4.8		6.0		8			
						3.3	0.7	91	28.1		7.9		21.8		68.9		4.8		6.1		7			
					Bottom	5.6	0.8	115	28.0	28.0	7.9	7.9	22.0	22.0	70.4	70.4	4.9	4.9	7.7		6			
						5.6	0.8	114	28.0		7.9		22.0		70.4		4.9		7.7		8			
SR1A	Fine	Calm	13:47	3.8	Surface	1.0	0.0	73	28.1	28.1	7.9	7.9	21.7	21.7	66.3	66.4	4.6	4.6	5.8	6.4	9	9	819977	812653
						1.0	0.1	67	28.1		7.9		21.7		66.4		4.6		5.9		8			
					Middle	1.9	0.0	96	-	-	-	-	-	-	-	-	-		-		-			
						1.9	0.1	97	-		-		-		-		-		-		-			
					Bottom	2.8	0.0	61	28.0	28.0	7.9	7.9	21.9	21.9	69.9	70.1	4.8	4.9	6.9		8			
						2.8	0.1	56	28.0		7.9		21.9		70.2		4.9		6.8		9			
SR2	Fine	Calm	14:10	4.2	Surface	1.0	0.7	35	28.4	28.4	7.9	7.9	21.0	21.0	70.9	70.9	4.9	4.9	4.4	4.5	6	7	821477	814149
						1.0	0.7	38	28.4		7.9		21.0		70.9		4.9		4.4		6			
					Middle	-	0.7	33	-	-	-	-	-	-	-	-	-		-		-			
						-	0.7	38	-		-		-		-		-		-		-			
					Bottom	3.2	0.7	74	28.1	28.1	7.9	7.9	21.6	21.6	69.1	69.2	4.8	4.8	4.7		7			
						3.2	0.7	71	28.1		7.9		21.6		69.2		4.8		4.7		8			
SR3	Cloudy	Moderate	13:19	8.9	Surface	1.0	0.6	154	26.6	26.6	8.1	8.1	21.7	21.7	83.2	83.1	5.9	5.6	8.0	9.0	8	7	822142	807564
						1.0	0.5	148	26.6		8.1		21.7		82.9		5.9		8.1		6			
					Middle	4.5	0.6	139	26.4	26.4	8.1	8.1	22.5	22.5	73.9	73.9	5.3		9.2		8			
						4.5	0.6	145	26.4		8.1		22.5		73.8		5.2		9.2		7			
					Bottom	7.9	0.5	160	26.3	26.3	8.1	8.1	22.7	22.7	73.5	73.5	5.2	5.2	9.8		7			
						7.9	0.5	153	26.3		8.1		22.7		73.5		5.2		9.8		8			
SR4A	Cloudy	Moderate	14:51	8.3	Surface	1.0	0.1	48	26.6	26.6	8.2	8.2	22.8	22.8	90.9	90.9	6.4	5.9	7.0	7.7	7	7	817184	807825
						1.0	0.0	42	26.6		8.2		22.8		90.8		6.4		7.0		6			
					Middle	4.2	0.0	46	26.3	26.3	8.1	8.1	23.6	23.6	76.7	76.6	5.4		7.7		7			
						4.2	0.0	44	26.3		8.1		23.6		76.5		5.4		7.8		7			
					Bottom	7.3	0.0	25	26.0	26.0	8.1	8.1	24.9	24.9	66.8	66.9	4.7	4.7	8.3		8			
						7.3	0.1	22	26.0		8.1		25.0		66.9		4.7		8.3		7			
SR8	Fine	Calm	13:35	5.0	Surface	1.0	-	-	28.0	28.0	7.9	7.9	22.0	22.0	65.1	65.1	4.5	4.5	6.3	7.0	10	8	820398	811618
						1.0	-	-	28.0		7.9		22.0		65.1		4.5		6.3		9			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	4.0	-	-	27.8	27.8	7.9	7.9	22.8	22.8	65.2	65.3	4.5	4.5	7.7		7			
						4.0	-	-	27.8		7.9		22.8		65.3		4.5		7.7		7			

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Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 20 June 23 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	06:36	8.5	Surface	1.0	0.1	23	26.5	26.5	8.1	8.1	23.1	23.1	82.5	82.4	5.8	5.3	7.1	7.7	9	9	815606	804251
						1.0	0.1	18	26.5		8.1		23.2		82.3		5.8		7.3		9			
					Middle	4.3	0.1	25	25.9	25.9	8.1	8.1	25.2	25.2	66.2	66.1	4.7		8.8		9			
						4.3	0.2	25	25.9		8.1		25.2		66.0		4.7		8.7		10			
					Bottom	7.5	0.1	32	25.8	25.8	8.1	8.1	25.8	25.8	58.9	59.0	4.2	4.2	7.0		10			
						7.5	0.1	30	25.8		8.1		25.8		59.1		4.2		7.3		9			
C2	Cloudy	Moderate	08:24	12.1	Surface	1.0	0.4	4	26.6	26.6	8.1	8.1	21.0	21.0	80.2	80.2	5.7	5.4	9.4	11.1	8	8	825664	806966
						1.0	0.4	4	26.6		8.1		21.0		80.2		5.7		9.5		8			
					Middle	6.1	0.4	9	26.4	26.4	8.1	8.1	21.9	21.9	72.1	72.0	5.1		12.3		9			
						6.1	0.4	11	26.4		8.1		22.0		71.9		5.1		12.4		7			
					Bottom	11.1	0.4	8	25.7	25.7	8.1	8.1	24.6	24.6	62.0	61.8	4.4	4.4	11.4		6			
						11.1	0.4	4	25.7		8.1		24.6		61.6		4.4		11.4		8			
C3	Misty	Calm	07:28	11.6	Surface	1.0	0.4	259	28.1	28.1	8.4	8.4	21.6	21.6	73.6	73.7	5.1	4.8	2.1	2.9	5	5	822093	817810
						1.0	0.4	261	28.1		8.4		21.5		73.7		5.1		2.1		6			
					Middle	5.8	0.4	238	27.2	27.2	8.6	8.6	24.9	25.0	65.5	65.4	4.5		2.8		6			
						5.8	0.4	237	27.1		8.7		25.2		65.2		4.5		2.8		5			
					Bottom	10.6	0.4	277	26.5	26.5	8.7	8.7	27.3	27.3	61.8	61.8	4.3	4.3	3.8		5			
						10.6	0.4	276	26.5		8.7		27.3		61.8		4.3		3.8		5			
IM1	Rainy	Moderate	07:00	6.8	Surface	1.0	0.1	12	26.7	26.7	8.2	8.2	22.6	22.6	89.4	89.4	6.3	6.1	5.9	6.1	8	9	818331	806462
						1.0	0.1	11	26.7		8.2		22.6		89.3		6.3		6.0		9			
					Middle	3.4	0.1	23	26.4	26.4	8.1	8.1	22.8	22.8	83.2	83.2	5.9		6.2		9			
						3.4	0.2	18	26.4		8.1		22.8		83.1		5.9		6.2		9			
					Bottom	5.8	0.1	3	26.2	26.2	8.1	8.1	23.7	24.3	68.4	69.2	4.8	4.9	6.3		8			
						5.8	0.1	357	26.2		8.1		24.9		70.0		5.0		6.2		8			
IM2	Rainy	Moderate	07:06	7.2	Surface	1.0	0.1	7	26.6	26.6	8.2	8.1	22.6	22.6	86.4	86.4	6.1	5.9	6.0	6.7	9	9	819196	806223
						1.0	0.1	5	26.6		8.1		22.6		86.3		6.1		6.0		9			
					Middle	3.6	0.1	357	26.3	26.3	8.1	8.1	23.4	23.5	78.7	78.6	5.6		6.6		10			
						3.6	0.1	358	26.2		8.1		23.6		78.5		5.6		6.6		9			
					Bottom	6.2	0.1	359	26.0	26.0	8.1	8.1	24.5	24.5	67.8	67.8	4.8	4.8	7.5		9			
						6.2	0.2	359	26.0		8.1		24.5		67.8		4.8		7.6		7			
IM7	Rainy	Moderate	07:43	8.0	Surface	1.0	0.2	344	26.7	26.7	8.1	8.1	22.4	22.4	85.9	85.9	6.1	5.9	7.3	8.5	8	8	821365	806825
						1.0	0.1	344	26.6		8.1		22.4		85.8		6.1		7.4		8			
					Middle	4.0	0.1	340	26.4	26.4	8.1	8.1	22.7	22.7	78.6	78.5	5.6		9.1		9			
						4.0	0.1	342	26.4		8.1		22.7		78.4		5.6		9.1		9			
					Bottom	7.0	0.2	350	26.4	26.4	8.1	8.1	22.5	22.4	77.8	77.9	5.5	5.5	9.1		8			
						7.0	0.1	344	26.4		8.1		22.4		78.0		5.5		9.1		8			

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

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 20 June 23 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		
IM10	Misty	Calm	08:48	8.8	Surface	1.0	0.4	293	28.3	28.3	7.9	7.9	21.6	21.6	67.6	67.6	4.7	4.7	7.7	8.3	4	4	822260	809850
						1.0	0.4	300	28.3		7.9		21.6		67.6		4.7		7.7		6			
					Middle	4.4	0.4	294	28.1	28.2	7.9	7.9	21.8	21.8	66.1	66.2	4.6		8.3		4			
						4.4	0.5	300	28.2		7.9		21.7		66.2		4.6		8.3		3			
					Bottom	7.8	0.4	305	27.7	27.7	7.9	7.9	22.9	22.9	64.1	64.2	4.4	4.4	9.0		4			
						7.8	0.3	299	27.7		7.9		22.9		64.2		4.4		9.0		5			
IM11	Misty	Calm	08:41	7.4	Surface	1.0	0.4	269	28.3	28.3	7.9	7.9	21.3	21.4	68.6	68.6	4.8	4.6	5.4	6.5	3	5	821504	810529
						1.0	0.4	276	28.3		7.9		21.4		68.6		4.8		5.4		4			
					Middle	3.7	0.4	262	27.8	27.8	7.9	7.9	22.6	22.7	61.4	61.4	4.3		7.0		6			
						3.7	0.3	268	27.8		7.9		22.7		61.4		4.3		6.9		5			
					Bottom	6.4	0.4	278	27.6	27.6	7.9	7.9	23.2	23.2	61.2	61.3	4.2	4.2	7.3		6			
						6.4	0.4	282	27.6		7.9		23.2		61.3		4.2		7.2		5			
IM12	Misty	Calm	08:35	9.0	Surface	1.0	0.4	265	28.4	28.4	7.9	7.9	21.4	21.4	69.4	69.4	4.8	4.9	5.2	6.2	5	5	821182	811512
						1.0	0.5	267	28.4		7.9		21.4		69.4		4.8		5.2		5			
					Middle	4.5	0.4	267	28.2	28.2	7.9	7.9	22.0	22.0	70.3	70.3	4.9		6.1		4			
						4.5	0.4	269	28.2		7.9		22.0		70.3		4.9		6.1		5			
					Bottom	8.0	0.5	299	28.6	28.4	7.9	7.9	21.4	21.5	75.9	76.9	5.2	5.3	7.4		5			
						8.0	0.5	295	28.1		8.0		21.6		77.9		5.4		7.4		4			
SR1A	Misty	Calm	08:24	4.0	Surface	1.0	0.0	197	28.4	28.4	7.9	7.9	21.3	21.3	68.7	68.7	4.8	4.8	3.2	3.6	5	5	819981	812663
						1.0	0.0	196	28.4		7.9		21.3		68.7		4.8		3.2		5			
					Middle	2.0	0.0	214	-	-	-	-	-	-	-	-	-		-		-			
						2.0	0.1	211	-		-		-		-		-		-		-			
					Bottom	3.0	0.0	210	28.0	27.9	7.9	7.9	22.1	22.3	66.2	66.3	4.6	4.6	4.1		4			
						3.0	0.0	204	27.8		7.9		22.6		66.4		4.6		4.0		5			
SR2	Misty	Calm	07:59	4.8	Surface	1.0	0.1	258	28.5	28.4	8.1	8.1	21.3	21.3	71.6	71.5	4.9	4.9	3.0	3.6	5	4	821468	814161
						1.0	0.1	259	28.3		8.1		21.4		71.4		4.9		3.0		4			
					Middle	-	0.1	242	-	-	-	-	-	-	-	-	-		-		-			
						-	0.1	235	-		-		-		-		-		-		-			
					Bottom	3.8	0.1	225	27.4	27.4	8.1	8.1	24.0	24.0	64.8	64.9	4.5	4.5	4.3		4			
						3.8	0.1	225	27.4		8.1		24.0		64.9		4.5		4.3		4			
SR3	Cloudy	Moderate	07:50	9.1	Surface	1.0	0.3	325	26.7	26.7	8.1	8.1	21.6	21.6	85.0	85.0	6.0	5.7	8.0	10.4	9	7	822140	807579
						1.0	0.3	329	26.7		8.1		21.6		84.9		6.0		8.2		7			
					Middle	4.6	0.3	343	26.4	26.4	8.1	8.1	22.2	22.2	74.7	74.7	5.3		11.5		7			
						4.6	0.2	344	26.4		8.1		22.2		74.7		5.3		11.6		7			
					Bottom	8.1	0.3	359	26.4	26.4	8.1	8.1	22.2	22.2	75.0	75.1	5.3	5.3	11.7		6			
						8.1	0.4	356	26.4		8.1		22.2		75.1		5.3		11.7		7			
SR4A	Cloudy	Moderate	06:07	9.2	Surface	1.0	0.1	209	26.5	26.5	8.1	8.1	22.9	22.9	80.2	80.1	5.7	5.2	8.2	10.9	8	8	817182	807831
						1.0	0.0	208	26.5		8.1		23.0		80.0		5.7		8.4		8			
					Middle	4.6	0.0	211	26.1	26.1	8.0	8.0	24.6	24.7	67.3	67.1	4.7		11.8		8			
						4.6	0.1	210	26.1		8.0		24.7		66.9		4.7		11.9		8			
					Bottom	8.2	0.0	208	26.0	26.0	8.0	8.0	24.8	24.8	62.9	63.0	4.4	4.5	12.7		9			
						8.2	0.0	206	26.0		8.0		24.8		63.0		4.5		12.7		8			
SR8	Misty	Calm	08:30	4.8	Surface	1.0	-	-	28.6	28.6	7.9	7.9	21.3	21.3	71.9	71.7	5.0	5.0	4.1	4.8	5	5	820375	811636
						1.0	-	-	28.6		7.9		21.3		71.5		4.9		4.1		4			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.8	-	-	28.6	28.3	7.9	7.9	21.3	21.5	72.9	76.6	5.0	5.3	5.4		4			
						3.8	-	-	27.9		8.0		21.7		80.3		5.6		5.4		5			

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

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 22 June 23 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	16:14	8.6	Surface	1.0	0.7	226	29.4	29.4	8.1	8.1	22.2	22.2	89.9	90.0	6.0	5.4	1.5	4.6	6	6	815640	804242
						1.0	0.8	225	29.4		8.1		22.2		90.0		6.0		1.5		6			
					Middle	4.3	0.7	193	28.7	28.7	8.0	8.0	23.4	23.6	75.0	72.0	5.1		5.2		5			
						4.3	0.6	188	28.7		8.0		23.9		68.9		4.6		5.7		6			
					Bottom	7.6	0.7	194	28.5	28.5	8.0	8.0	26.7	26.7	69.2	69.6	4.6	4.6	6.6		5			
						7.6	0.7	187	28.5		8.0		26.6		70.0		4.6		7.0		6			
C2	Sunny	Moderate	14:46	11.3	Surface	1.0	0.6	155	29.5	29.5	8.1	8.1	20.4	20.4	89.2	89.1	6.0	5.9	4.1	3.6	5	5	825692	806941
						1.0	0.7	150	29.5		8.1		20.4		88.9		6.0		3.9		6			
					Middle	5.7	0.6	187	29.3	29.3	8.1	8.1	22.3	22.3	85.9	85.9	5.8		2.2		6			
						5.7	0.7	180	29.3		8.1		22.3		85.9		5.8		2.3		5			
					Bottom	10.3	0.6	176	28.9	28.9	8.1	8.1	25.4	25.4	72.8	73.0	4.8	4.9	4.6		3			
						10.3	0.6	171	28.9		8.1		25.4		73.1		4.9		4.4		4			
C3	Sunny	Rough	15:34	13.6	Surface	1.0	0.5	55	29.0	29.0	8.1	8.1	19.7	19.7	86.5	86.5	6.0	5.7	3.4	5.9	4	4	822125	817790
						1.0	0.5	48	29.0		8.1		19.7		86.5		6.0		3.4		4			
					Middle	6.8	0.5	63	28.7	28.7	8.1	8.1	20.3	20.3	76.9	76.9	5.3		4.7		4			
						6.8	0.5	63	28.7		8.1		20.3		76.9		5.3		4.7		4			
					Bottom	12.6	0.5	51	28.6	28.6	8.1	8.1	20.8	20.8	75.5	75.5	5.2	5.2	9.4		5			
						12.6	0.5	47	28.6		8.1		20.8		75.5		5.2		9.4		4			
IM1	Sunny	Moderate	15:49	6.5	Surface	1.0	0.5	181	29.4	29.4	8.1	8.1	22.9	22.9	84.7	84.7	5.7	5.4	2.1	4.6	5	5	818328	806442
						1.0	0.5	186	29.3		8.1		22.9		84.6		5.7		2.2		4			
					Middle	3.3	0.5	195	28.7	28.7	8.1	8.1	27.0	27.0	76.0	76.0	5.0		5.3		5			
						3.3	0.5	198	28.7		8.1		27.0		76.0		5.0		5.4		4			
					Bottom	5.5	0.5	178	28.7	28.7	8.0	8.0	26.9	26.9	68.8	68.8	4.5	4.5	6.0		6			
						5.5	0.5	182	28.7		8.0		26.8		68.8		4.5		6.7		7			
IM2	Sunny	Moderate	15:44	7.2	Surface	1.0	0.5	212	29.3	29.3	8.1	8.1	21.6	21.6	93.2	93.3	6.3	5.9	1.6	3.0	4	4	819203	806249
						1.0	0.5	209	29.3		8.1		21.6		93.4		6.3		1.6		4			
					Middle	3.6	0.6	180	29.0	29.0	8.0	8.0	22.8	22.8	81.1	80.8	5.5		3.3		4			
						3.6	0.6	172	29.0		8.0		22.8		80.4		5.4		3.3		5			
					Bottom	6.2	0.6	208	28.9	28.9	8.0	8.0	24.4	24.4	72.3	72.5	4.8	4.9	4.2		5			
						6.2	0.6	214	28.9		8.0		24.4		72.7		4.9		4.2		4			
IM7	Sunny	Moderate	15:19	7.8	Surface	1.0	0.4	200	29.3	29.3	8.1	8.1	20.4	20.4	90.6	90.6	6.1	5.7	4.2	6.8	4	4	821332	806828
						1.0	0.4	196	29.3		8.1		20.4		90.6		6.1		4.2		4			
					Middle	3.9	0.4	175	29.1	29.1	8.0	8.0	23.8	23.7	77.7	78.0	5.2		7.2		4			
						3.9	0.4	168	29.1		8.0		23.7		78.3		5.2		7.2		4			
					Bottom	6.8	0.3	182	29.0	29.0	8.0	8.0	24.4	24.4	74.2	74.4	4.9	5.0	8.9		5			
						6.8	0.3	182	29.0		8.0		24.4		74.5		5.0		8.9		4			

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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 June 23 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		
IM10	Sunny	Rough	13:58	9.7	Surface	1.0	0.6	94	29.3	29.3	8.2	8.2	18.7	18.7	84.4	84.4	5.8	5.3	2.6	5.4	5	4	822228	809852
						1.0	0.6	99	29.3		8.2		18.7		84.4		5.8		2.6		5			
					Middle	4.9	0.5	96	28.6	28.6	8.2	8.2	21.0	21.0	68.7	68.9	4.7		5.8		4			
						4.9	0.6	97	28.6		8.2		21.0		69.0		4.8		5.8		4			
					Bottom	8.7	0.6	113	28.4	28.4	8.2	8.2	21.3	21.3	65.4	65.5	4.5	4.5	7.8		4			
						8.7	0.6	113	28.4		8.2		21.3		65.6		4.5		7.8		4			
IM11	Sunny	Rough	14:11	8.5	Surface	1.0	0.6	102	29.3	29.3	8.1	8.1	18.7	18.7	90.2	90.2	6.2	6.2	2.5	3.9	3	4	821479	810537
						1.0	0.6	100	29.3		8.1		18.7		90.2		6.2		2.5		4			
					Middle	4.3	0.7	73	29.2	29.2	8.1	8.1	18.7	18.7	88.8	88.8	6.1		2.4		4			
						4.3	0.7	75	29.2		8.1		18.7		88.8		6.1		2.4		3			
					Bottom	7.5	0.6	87	28.5	28.5	8.1	8.1	21.0	20.9	66.5	66.6	4.6	4.6	6.7		5			
						7.5	0.6	87	28.5		8.1		20.9		66.6		4.6		6.8		4			
IM12	Sunny	Rough	14:15	8.3	Surface	1.0	0.7	86	29.3	29.3	8.1	8.1	18.7	18.7	91.4	91.4	6.3	5.6	2.1	5.1	4	4	821153	811504
						1.0	0.7	88	29.3		8.1		18.7		91.4		6.3		2.1		4			
					Middle	4.2	0.7	104	28.6	28.6	8.0	8.0	20.5	20.5	69.6	69.6	4.8		5.4		4			
						4.2	0.7	99	28.6		8.0		20.5		69.6		4.8		5.4		3			
					Bottom	7.3	0.7	106	28.3	28.3	8.0	8.0	21.4	21.4	65.7	65.7	4.5	4.5	7.6		3			
						7.3	0.8	107	28.3		8.0		21.4		65.6		4.5		7.7		4			
SR1A	Sunny	Moderate	14:56	4.2	Surface	1.0	0.0	100	29.5	29.5	8.1	8.1	18.7	18.7	97.5	97.5	6.7	6.7	2.5	3.0	4	4	819971	812662
						1.0	-	99	29.5		8.1		18.7		97.4		6.7		2.5		4			
					Middle	2.1	0.0	73	-	-	-	-	-	-	-	-	-		-		-			
						2.1	0.1	68	-		-		-		-		-		-		-			
					Bottom	3.2	0.0	70	29.1	29.1	8.1	8.1	19.0	19.0	88.1	88.1	6.1	6.1	3.4		4			
						3.2	0.0	72	29.1		8.1		19.0		88.1		6.1		3.5		3			
SR2	Sunny	Rough	15:10	3.9	Surface	1.0	0.6	36	28.9	28.9	8.1	8.1	19.8	19.8	85.9	85.9	5.9	5.9	3.3	3.6	4	5	821465	814153
						1.0	0.7	28	28.9		8.1		19.8		85.9		5.9		3.4		5			
					Middle	-	0.7	60	-	-	-	-	-	-	-	-	-		-		-			
						-	0.6	53	-		-		-		-		-		-		-			
					Bottom	2.9	0.7	70	28.7	28.7	8.1	8.1	20.1	20.1	81.8	81.8	5.7	5.7	3.8		5			
						2.9	0.7	66	28.7		8.1		20.1		81.8		5.7		3.8		5			
SR3	Sunny	Moderate	15:10	8.8	Surface	1.0	0.7	151	29.5	29.5	8.1	8.1	20.0	20.0	88.3	88.2	6.0	5.9	3.3	3.8	4	4	822168	807586
						1.0	0.6	146	29.5		8.1		20.0		88.1		6.0		3.3		4			
					Middle	4.4	0.6	166	29.4	29.4	8.0	8.0	20.7	20.7	86.5	86.5	5.8		3.7		4			
						4.4	0.6	171	29.4		8.0		20.7		86.5		5.8		3.7		4			
					Bottom	7.8	0.6	151	29.3	29.3	8.0	8.0	21.4	21.4	80.2	80.1	5.4	5.4	4.5		4			
						7.8	0.6	146	29.3		8.0		21.5		80.0		5.4		4.6		3			
SR4A	Sunny	Moderate	16:39	8.8	Surface	1.0	0.1	349	29.4	29.4	8.1	8.1	22.2	22.2	86.7	86.6	5.8	5.2	1.9	4.8	4	4	817210	807797
						1.0	0.0	342	29.3		8.1		22.2		86.4		5.8		2.0		3			
					Middle	4.4	0.0	356	28.7	28.7	8.1	8.1	26.6	26.6	67.6	67.6	4.5		6.4		4			
						4.4	0.0	357	28.7		8.1		26.5		67.6		4.5		6.4		4			
					Bottom	7.8	0.1	340	29.0	29.1	8.1	8.1	27.4	27.4	68.2	68.6	4.5	4.5	6.4		4			
						7.8	0.1	341	29.1		8.1		27.4		69.0		4.5		5.9		4			
SR8	Sunny	Moderate	14:21	4.9	Surface	1.0	-	-	29.1	29.1	8.1	8.1	19.5	19.5	93.4	93.4	6.4	6.4	3.4	3.8	4	4	820383	811617
						1.0	-	-	29.1		8.1		19.5		93.4		6.4		3.5		4			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.9	-	-	28.9	28.9	8.1	8.1	20.0	20.0	87.5	87.6	6.0	6.0	4.2		4			
						3.9	-	-	28.9		8.1		20.0		87.6		6.0		4.2		3			

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

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 22 June 23 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	08:14	8.2	Surface	1.0	0.3	39	28.4	28.4	8.0	8.0	22.2	22.2	76.9	76.7	5.2	4.7	2.4	4.3	4	4	815628	804232
						1.0	0.3	40	28.4		8.0		22.2		76.5		5.2		2.4		3			
					Middle	4.1	0.3	20	28.0	28.0	7.9	7.9	26.1	26.1	60.3	60.6	4.1		3.3		4			
						4.1	0.3	17	28.0		7.9		26.1		60.9		4.1		3.3		4			
					Bottom	7.2	0.2	21	27.9	27.9	7.9	7.9	26.3	26.2	57.2	57.4	3.8	3.9	7.3		4			
						7.2	0.2	26	27.9		7.9		26.2		57.5		3.9		7.1		4			
C2	Sunny	Rough	09:34	11.8	Surface	1.0	0.4	3	28.8	28.8	8.1	8.1	20.2	20.2	81.5	81.5	5.6	5.4	3.3	4.8	5	4	825690	806954
						1.0	0.5	359	28.8		8.1		20.2		81.5		5.6		3.1		4			
					Middle	5.9	0.5	343	28.4	28.4	8.1	8.1	22.3	22.3	76.4	76.3	5.2		2.1		5			
						5.9	0.5	344	28.3		8.1		22.3		76.2		5.2		2.2		4			
					Bottom	10.8	0.4	13	27.9	27.9	8.1	8.1	25.1	25.0	69.1	69.1	4.7	4.7	9.5		4			
						10.8	0.4	18	27.9		8.1		25.0		69.1		4.7		8.8		4			
C3	Fine	Moderate	07:03	14.1	Surface	1.0	0.3	262	28.1	28.1	8.0	8.0	22.0	22.0	72.9	72.9	5.0	4.7	1.7	3.5	6	4	822107	817824
						1.0	0.3	265	28.1		8.0		22.0		72.9		5.0		1.7		5			
					Middle	7.1	0.3	285	27.0	27.0	8.0	8.0	25.2	25.2	61.8	61.8	4.3		2.1		4			
						7.1	0.3	277	27.0		8.0		25.2		61.8		4.3		2.2		4			
					Bottom	13.1	0.3	261	25.5	25.5	8.0	8.0	29.0	29.0	52.7	52.7	3.7	3.7	6.8		3			
						13.1	0.2	254	25.5		8.0		29.0		52.7		3.7		6.8		4			
IM1	Sunny	Moderate	08:30	6.7	Surface	1.0	0.2	16	28.8	28.8	8.0	8.0	21.8	21.8	77.1	77.1	5.2	4.9	2.2	5.3	3	4	818354	806479
						1.0	0.2	10	28.8		8.0		21.8		77.1		5.2		2.3		4			
					Middle	3.4	0.3	9	28.1	28.1	8.0	8.0	25.7	25.8	66.4	66.4	4.5		4.7		4			
						3.4	0.3	13	28.1		8.0		25.8		66.4		4.5		5.2		5			
					Bottom	5.7	0.2	350	27.9	27.9	8.0	8.0	25.9	25.8	60.3	60.6	4.1	4.1	8.7		5			
						5.7	0.2	353	27.9		8.0		25.8		60.8		4.1		8.8		4			
IM2	Sunny	Moderate	08:36	6.8	Surface	1.0	0.2	8	28.4	28.4	8.0	8.0	23.3	23.2	76.6	76.6	5.2	4.9	3.3	5.0	4	4	819163	806247
						1.0	0.2	0	28.4		8.0		23.2		76.6		5.2		3.3		4			
					Middle	3.4	0.2	350	28.0	28.0	8.0	8.0	26.4	26.5	66.6	66.6	4.5		5.5		4			
						3.4	0.2	349	28.0		8.0		26.5		66.6		4.5		5.6		4			
					Bottom	5.8	0.2	15	27.9	27.9	8.0	8.0	26.6	26.6	60.0	60.2	4.0	4.0	6.4		4			
						5.8	0.2	7	27.9		8.0		26.6		60.3		4.0		5.9		5			
IM7	Sunny	Moderate	09:02	8.2	Surface	1.0	0.2	343	28.9	28.9	8.0	8.0	21.3	21.3	77.0	77.0	5.2	4.9	1.6	5.5	6	4	821372	806848
						1.0	0.2	339	28.9		8.0		21.3		77.0		5.2		1.8		4			
					Middle	4.1	0.2	342	28.7	28.7	8.0	8.0	22.8	22.8	68.1	68.1	4.6		5.5		4			
						4.1	0.2	345	28.7		8.0		22.8		68.0		4.6		5.6		4			
					Bottom	7.2	0.1	334	28.3	28.3	8.0	8.0	24.9	24.9	60.2	60.3	4.1	4.1	9.2		4			
						7.2	0.2	335	28.3		8.0		24.9		60.3		4.1		9.2		4			

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

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 22 June 23 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		
IM10	Fine	Moderate	08:39	10.3	Surface	1.0	0.4	291	29.4	29.4	8.1	8.1	18.6	18.6	89.8	89.7	6.2	5.9	2.1	2.7	4	4	822242	809850
						1.0	0.5	283	29.4		8.1		18.6		89.5		6.2		2.1		4			
					Middle	5.2	0.4	279	28.8	28.8	8.1	8.1	19.6	19.6	80.5	80.5	5.6		2.2		4			
						5.2	0.4	273	28.8		8.1		19.6		80.4		5.6		2.2		4			
					Bottom	9.3	0.4	289	28.3	28.3	8.1	8.1	21.4	21.5	75.4	75.4	5.2	5.2	3.6		4			
						9.3	0.4	287	28.3		8.1		21.6		75.4		5.2		3.8		4			
IM11	Fine	Moderate	08:28	8.8	Surface	1.0	0.5	294	29.0	29.0	8.1	8.1	19.3	19.3	83.5	83.5	5.8	5.5	2.0	3.0	6	5	821503	810556
						1.0	0.4	300	29.0		8.1		19.3		83.5		5.8		2.0		5			
					Middle	4.4	0.4	272	28.5	28.5	8.1	8.1	20.7	20.6	75.3	75.4	5.2		3.1		5			
						4.4	0.4	272	28.5		8.1		20.6		75.4		5.2		3.2		5			
					Bottom	7.8	0.4	302	28.1	28.1	8.1	8.1	22.3	22.3	66.2	66.2	4.6	4.6	3.9		5			
						7.8	0.4	307	28.1		8.1		22.3		66.2		4.6		3.9		5			
IM12	Fine	Moderate	08:21	9.1	Surface	1.0	0.4	282	28.9	28.9	8.2	8.2	19.4	19.4	87.3	87.3	6.0	5.3	2.2	3.0	5	4	821171	811534
						1.0	0.5	283	28.9		8.2		19.4		87.3		6.0		2.2		4			
					Middle	4.6	0.4	281	27.8	27.8	8.2	8.2	22.9	22.9	66.8	66.8	4.6		2.9		4			
						4.6	0.4	284	27.8		8.2		22.9		66.8		4.6		2.9		5			
					Bottom	8.1	0.5	311	27.6	27.6	8.2	8.2	23.7	23.7	64.2	64.4	4.4	4.5	3.8		4			
						8.1	0.4	313	27.6		8.2		23.7		64.5		4.5		3.8		3			
SR1A	Fine	Calm	07:52	5.2	Surface	1.0	0.0	185	28.9	28.9	8.1	8.1	19.3	19.3	85.4	85.4	5.9	5.9	1.8	1.9	5	5	819973	812664
						1.0	0.1	187	28.9		8.1		19.3		85.4		5.9		1.8		6			
					Middle	2.6	-	180	-	-	-	-	-	-	-	-	-		-		-			
						2.6	0.0	185	-		-		-		-		-		-		-			
					Bottom	4.2	0.0	171	28.6	28.6	8.0	8.0	20.3	20.3	79.4	79.4	5.5	5.5	2.0		4			
						4.2	0.0	168	28.6		8.1		20.3		79.3		5.5		2.0		4			
SR2	Fine	Moderate	07:34	5.3	Surface	1.0	0.1	312	28.9	28.9	8.2	8.2	19.3	19.3	87.9	87.9	6.1	6.1	2.1	3.3	4	4	821477	814153
						1.0	0.1	315	28.9		8.2		19.3		87.8		6.1		2.3		3			
					Middle	-	0.1	312	-	-	-	-	-	-	-	-	-		-		-			
						-	0.1	313	-		-		-		-		-		-		-			
					Bottom	4.3	0.1	328	28.3	28.3	8.2	8.2	21.1	21.1	76.8	76.8	5.3	5.3	4.5		4			
						4.3	0.1	322	28.3		8.2		21.1		76.8		5.3		4.5		4			
SR3	Sunny	Rough	09:10	9.2	Surface	1.0	0.3	336	28.8	28.8	8.0	8.0	19.3	19.3	83.9	84.0	5.8	5.2	0.5	4.5	4	4	822168	807574
						1.0	0.3	329	28.8		8.0		19.3		84.0		5.8		0.6		4			
					Middle	4.6	0.3	330	28.6	28.6	8.0	8.0	22.2	22.2	67.7	67.6	4.6		5.4		4			
						4.6	0.3	322	28.6		8.0		22.3		67.5		4.6		5.7		4			
					Bottom	8.2	0.3	351	28.5	28.5	8.0	8.0	22.4	22.3	64.3	64.6	4.4	4.4	7.6		4			
						8.2	0.2	349	28.5		8.0		22.2		64.8		4.4		7.4		4			
SR4A	Sunny	Moderate	07:51	8.6	Surface	1.0	0.0	149	28.5	28.5	8.0	8.0	21.7	21.7	78.1	78.0	5.3	4.8	2.8	4.1	6	5	817180	807824
						1.0	0.0	145	28.5		8.0		21.7		77.9		5.3		2.8		5			
					Middle	4.3	0.0	168	28.4	28.4	7.9	7.9	24.5	24.5	62.1	62.1	4.2		4.5		5			
						4.3	0.0	169	28.4		7.9		24.5		62.0		4.2		4.6		6			
					Bottom	7.6	0.0	176	28.4	28.4	7.9	7.9	24.5	24.5	62.8	62.9	4.2	4.2	5.0		4			
						7.6	0.1	172	28.4		7.9		24.5		63.0		4.2		5.0		4			
SR8	Fine	Calm	08:15	5.5	Surface	1.0	-	-	29.4	29.4	8.1	8.1	19.2	19.3	81.5	81.5	5.6	5.6	2.2	2.5	4	4	820390	811622
						1.0	-	-	29.3		8.1		19.3		81.5		5.6		2.2		4			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	4.5	-	-	28.2	28.2	8.1	8.1	21.7	21.7	73.4	73.5	5.1	5.1	2.8		4			
						4.5	-	-	28.2		8.1		21.6		73.5		5.1		2.8		5			

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

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 24 June 23 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	16:25	8.3	Surface	1.0	0.5	213	28.4	28.4	7.9	7.9	19.2	19.2	92.6	92.6	6.5	6.4	1.8	3.0	4	4	815642	804266
						1.0	0.4	212	28.4		7.9		19.2		92.5		6.5		1.8		4			
					Middle	4.2	0.5	213	28.4	28.4	7.8	7.8	19.5	19.5	90.3	90.3	6.3		3.0		4			
						4.2	0.5	212	28.4		7.8		19.5		90.2		6.3		2.9		4			
					Bottom	7.3	0.5	207	28.0	28.0	7.8	7.8	21.5	21.5	84.8	84.9	5.9	5.9	4.2		4			
						7.3	0.5	201	28.0		7.8		21.5		84.9		5.9		4.2		4			
C2	Rainy	Rough	15:13	10.5	Surface	1.0	0.4	182	28.6	28.6	8.1	8.1	17.6	17.6	91.0	90.9	6.4	5.7	1.7	1.4	3	3	825667	806939
						1.0	0.4	186	28.6		8.1		17.6		90.8		6.4		1.7		4			
					Middle	5.3	0.4	171	28.1	28.1	8.0	8.0	21.7	21.7	71.6	71.6	5.0		1.5		3			
						5.3	0.3	175	28.1		8.0		21.7		71.6		5.0		1.5		3			
					Bottom	9.5	0.4	188	28.1	28.0	8.0	8.0	21.6	21.9	71.8	71.4	5.0	5.0	1.1		3			
						9.5	0.3	184	27.9		8.0		22.3		70.9		4.9		1.2		2			
C3	Rainy	Calm	16:53	10.0	Surface	1.0	0.4	65	25.3	24.7	7.6	7.6	25.9	26.1	74.2	76.8	6.0	5.8	1.8	2.3	3	4	822096	817820
						1.0	0.4	60	24.0		7.6		26.4		79.4		5.8		1.7		4			
					Middle	5.0	0.4	82	24.0	24.0	7.6	7.6	26.4	26.5	79.1	78.4	5.7		2.0		4			
						5.0	0.4	78	23.9		7.6		26.6		77.6		5.6		2.0		4			
					Bottom	9.0	0.4	55	22.8	23.1	7.6	7.6	30.3	30.0	71.5	74.6	5.2	5.4	3.0		4			
						9.0	0.4	54	23.4		7.6		29.8		77.7		5.6		3.0		4			
IM1	Rainy	Rough	16:06	7.1	Surface	1.0	0.2	192	28.5	28.5	7.9	7.9	18.6	18.6	89.5	89.4	6.3	6.0	1.1	3.3	4	3	818356	806460
						1.0	0.2	191	28.5		7.9		18.6		89.2		6.3		1.1		3			
					Middle	3.6	0.2	188	28.3	28.3	7.9	7.9	20.2	20.2	81.6	81.5	5.7		2.3		3			
						3.6	0.3	181	28.3		7.9		20.2		81.3		5.7		2.4		3			
					Bottom	6.1	0.3	173	26.9	26.9	7.9	7.9	25.0	25.0	69.7	69.9	4.8	4.9	6.6		3			
						6.1	0.3	174	26.9		7.9		25.1		70.1		4.9		6.6		3			
IM2	Rainy	Rough	15:56	7.4	Surface	1.0	0.3	191	28.4	28.4	7.8	7.8	19.3	19.3	86.8	86.8	6.1	5.9	1.3	1.4	4	3	819171	806215
						1.0	0.3	186	28.4		7.8		19.4		86.7		6.1		1.3		4			
					Middle	3.7	0.3	182	28.3	28.3	7.8	7.8	20.3	20.3	81.5	81.3	5.7		1.4		3			
						3.7	0.3	182	28.3		7.8		20.3		81.1		5.6		1.4		3			
					Bottom	6.4	0.3	168	26.6	26.6	7.7	7.7	26.0	26.0	63.1	62.9	4.4	4.4	1.4		2			
						6.4	0.3	167	26.6		7.7		26.1		62.7		4.4		1.5		3			
IM7	Rainy	Rough	15:39	8.8	Surface	1.0	0.2	162	28.7	28.7	8.0	8.0	18.3	18.3	83.5	83.4	5.8	5.5	1.6	4.0	4	4	821356	806850
						1.0	0.2	161	28.7		8.0		18.3		83.3		5.8		1.7		3			
					Middle	4.4	0.3	171	28.5	28.5	8.0	8.0	19.7	19.8	74.4	74.3	5.2		3.7		4			
						4.4	0.3	167	28.5		8.0		19.8		74.2		5.2		3.8		4			
					Bottom	7.8	0.2	166	27.1	27.1	8.0	8.0	26.1	26.2	67.7	67.6	4.7	4.7	6.7		4			
						7.8	0.2	165	27.0		8.0		26.3		67.4		4.7		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 24 June 23 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		
IM10	Fine	Calm	15:16	9.2	Surface	1.0	0.5	94	25.5	25.5	7.6	7.5	19.7	19.7	91.8	91.0	6.7	6.2	2.6	4.1	3	3	822263	809854
						1.0	0.4	96	25.4		7.5		19.7		90.2		6.6		2.7		3			
					Middle	4.6	0.4	123	25.3	25.1	7.5	7.5	21.7	21.9	81.2	79.5	5.9		4.3		3			
						4.6	0.4	127	24.9		7.5		22.1		77.8		5.7		4.3		4			
					Bottom	8.2	0.4	103	24.7	25.0	7.5	7.5	24.6	24.6	72.4	74.4	5.2	5.4	5.3		3			
						8.2	0.4	105	25.2		7.5		24.6		76.3		5.5		5.3		4			
IM11	Fine	Calm	15:24	7.4	Surface	1.0	0.5	98	25.5	25.4	7.5	7.5	19.8	19.9	90.4	89.5	6.6	6.3	1.1	2.0	4	4	821505	810530
						1.0	0.5	101	25.3		7.5		20.0		88.6		6.5		1.1		3			
					Middle	3.7	0.6	79	25.1	25.1	7.5	7.5	22.8	22.8	83.0	82.8	6.0		2.0		3			
						3.7	0.5	85	25.1		7.5		22.8		82.5		6.0		2.0		4			
					Bottom	6.4	0.5	108	24.6	24.7	7.5	7.5	24.5	23.8	74.7	76.7	5.4	5.6	3.0		4			
						6.4	0.6	105	24.8		7.5		23.2		78.7		5.7		2.9		4			
IM12	Fine	Calm	15:31	7.8	Surface	1.0	0.6	83	25.5	25.4	7.6	7.6	20.3	20.5	90.1	89.2	6.6	6.2	2.1	3.1	3	4	821174	811526
						1.0	0.6	78	25.2		7.6		20.6		88.3		6.5		2.1		4			
					Middle	3.9	0.5	86	24.7	24.7	7.6	7.6	24.1	23.9	80.6	80.4	5.8		2.9		4			
						3.9	0.5	92	24.6		7.6		23.8		80.2		5.8		2.9		4			
					Bottom	6.8	0.5	96	24.1	24.1	7.6	7.5	26.2	26.0	74.0	74.4	5.4	5.4	4.3		4			
						6.8	0.5	90	24.1		7.5		25.9		74.7		5.4		4.3		4			
SR1A	Rainy	Calm	16:01	4.6	Surface	1.0	0.0	94	25.5	25.5	7.5	7.5	20.2	20.1	88.7	87.5	6.5	6.4	3.7	4.4	4	4	819974	812664
						1.0	0.0	88	25.4		7.5		20.1		86.3		6.3		3.7		4			
					Middle	2.3	0.0	94	-	-	-	-	-	-	-	-	-		-		-			
						2.3	0.0	94	-		-		-		-		-		-		-			
					Bottom	3.6	0.1	111	25.3	25.4	7.5	7.5	21.7	21.6	85.8	87.1	6.2	6.3	5.2		4			
						3.6	0.0	109	25.4		7.6		21.6		88.4		6.4		5.1		4			
SR2	Rainy	Calm	16:37	5.4	Surface	1.0	0.5	58	25.3	25.3	7.6	7.6	20.8	20.8	99.6	98.6	7.3	7.2	1.0	1.4	4	3	821484	814187
						1.0	0.6	62	25.3		7.6		20.8		97.6		7.1		1.1		3			
					Middle	-	0.5	36	-	-	-	-	-	-	-	-	-		-		-			
						-	0.5	43	-		-		-		-		-		-		-			
					Bottom	4.4	0.6	48	24.0	24.7	7.6	7.6	26.3	25.8	83.1	87.6	6.0	6.3	1.7		2			
						4.4	0.6	47	25.3		7.6		25.3		92.1		6.6		1.8		3			
SR3	Rainy	Rough	15:31	9.1	Surface	1.0	0.4	149	28.7	28.7	8.1	8.0	18.1	18.1	87.0	86.8	6.1	5.7	1.3	5.1	4	4	822134	807588
						1.0	0.4	141	28.7		8.0		18.1		86.6		6.1		1.3		3			
					Middle	4.6	0.4	170	28.5	28.5	8.0	8.0	19.6	19.6	74.9	74.9	5.2		4.4		4			
						4.6	0.4	173	28.5		8.0		19.6		74.9		5.2		4.5		4			
					Bottom	8.1	0.4	180	28.2	28.2	7.9	7.9	21.5	21.5	65.6	65.5	4.6	4.6	9.5		4			
						8.1	0.5	181	28.2		7.9		21.5		65.4		4.5		9.6		4			
SR4A	Rainy	Rough	16:43	9.2	Surface	1.0	0.0	341	28.4	28.4	8.0	8.0	19.0	19.0	94.7	94.7	6.6	6.5	1.5	2.6	3	4	817179	807800
						1.0	0.0	339	28.4		8.0		19.0		94.6		6.6		1.5		3			
					Middle	4.6	0.0	336	28.4	28.4	7.9	7.9	19.4	19.4	91.1	91.1	6.4		2.8		4			
						4.6	0.0	338	28.4		7.9		19.4		91.1		6.4		2.8		4			
					Bottom	8.2	0.0	320	28.1	28.2	7.9	7.9	20.8	20.8	86.9	87.0	6.1	6.1	3.5		4			
						8.2	0.0	312	28.2		7.9		20.8		87.0		6.0		3.5		4			
SR8	Rainy	Calm	15:46	4.2	Surface	1.0	-	-	25.5	25.5	7.5	7.5	20.4	20.9	88.7	88.1	6.5	6.5	3.1	4.2	4	4	820381	811631
						1.0	-	-	25.4		7.5		21.3		87.4		6.4		3.1		4			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.2	-	-	25.3	25.4	7.5	7.5	21.6	21.3	83.5	85.6	6.1	6.3	5.3		4			
						3.2	-	-	25.4		7.5		21.0		87.6		6.4		5.3		3			

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Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 24 June 23 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	Rainy	Rough	10:10	8.2	Surface	1.0	0.3	34	28.4	28.4	8.0	8.0	20.4	20.4	84.5	84.5	5.9	5.7	2.1	2.6	4	4	815605	804248
						1.0	0.4	37	28.4		8.0		20.4		84.4		5.9		2.2		2			
					Middle	4.1	0.3	47	28.2	28.2	8.0	8.0	20.6	20.6	79.5	79.5	5.5		3.0		3			
						4.1	0.3	46	28.1		8.0		20.6		79.5		5.5		3.1		4			
					Bottom	7.2	0.3	27	27.5	27.5	8.0	8.0	24.9	24.9	68.3	68.3	4.7	4.7	2.7		4			
						7.2	0.3	26	27.5		8.0		24.9		68.3		4.7		2.7		4			
C2	Rainy	Rough	11:20	9.4	Surface	1.0	0.3	341	28.7	28.7	8.0	8.0	17.2	17.2	87.5	87.4	6.2	5.9	1.9	1.7	4	3	825672	806934
						1.0	0.4	335	28.7		8.0		17.2		87.3		6.1		1.8		4			
					Middle	4.7	0.3	336	28.6	28.6	8.0	8.0	19.9	19.8	80.2	80.4	5.6		1.6		4			
						4.7	0.4	333	28.6		8.0		19.8		80.5		5.6		1.6		3			
					Bottom	8.4	0.4	331	27.7	27.7	7.9	7.9	22.9	22.9	67.9	68.0	4.7	4.7	1.5		2			
						8.4	0.4	323	27.7		7.9		22.9		68.1		4.7		1.5		2			
C3	Misty	Calm	09:18	10.8	Surface	1.0	0.4	259	25.3	25.3	7.7	7.6	20.8	20.8	98.4	95.9	7.2	6.5	1.6	1.9	3	4	822114	817814
						1.0	0.4	256	25.3		7.6		20.9		93.4		6.8		1.6		3			
					Middle	5.4	0.5	260	24.0	24.1	7.6	7.6	26.4	25.9	81.1	81.7	5.9		1.8		4			
						5.4	0.5	259	24.2		7.6		25.4		82.2		6.0		1.8		4			
					Bottom	9.8	0.5	265	23.9	23.6	7.6	7.6	26.8	27.4	82.6	84.5	6.0	6.2	2.4		4			
						9.8	0.5	271	23.3		7.6		27.9		86.3		6.3		2.3		4			
IM1	Rainy	Moderate	10:26	6.6	Surface	1.0	0.3	10	28.4	28.5	7.9	7.9	19.5	19.5	85.4	85.4	6.0	5.9	1.9	4.2	4	4	818371	806464
						1.0	0.3	10	28.5		7.9		19.5		85.3		5.9		2.0		4			
					Middle	3.3	0.3	18	28.4	28.4	7.9	7.9	19.6	19.6	84.0	83.8	5.9		3.4		4			
						3.3	0.3	21	28.3		7.9		19.7		83.5		5.8		3.3		4			
					Bottom	5.6	0.3	353	27.5	27.5	7.8	7.8	22.0	23.2	58.9	58.8	4.1	4.1	7.2		5			
						5.6	0.2	356	27.5		7.8		24.4		58.7		4.1		7.3		4			
IM2	Rainy	Moderate	10:31	7.1	Surface	1.0	0.3	7	28.6	28.6	7.9	7.9	18.0	18.0	84.3	84.3	5.9	5.6	2.1	2.8	3	3	819182	806228
						1.0	0.3	1	28.6		7.9		18.0		84.3		5.9		2.2		3			
					Middle	3.6	0.3	5	28.5	28.5	7.8	7.8	19.8	19.9	76.5	76.5	5.3		2.9		3			
						3.6	0.3	357	28.5		7.8		19.9		76.5		5.3		2.9		3			
					Bottom	6.1	0.3	350	28.4	28.4	7.8	7.8	20.1	20.1	77.7	77.8	5.4	5.4	3.4		3			
						6.1	0.3	356	28.4		7.8		20.1		77.9		5.4		3.4		2			
IM7	Rainy	Moderate	10:54	8.3	Surface	1.0	0.1	339	28.6	28.6	8.0	8.0	17.9	17.9	85.8	85.8	6.0	5.6	2.0	3.4	2	3	821356	806820
						1.0	0.1	335	28.6		8.0		17.9		85.7		6.0		2.0		3			
					Middle	4.2	0.1	340	28.5	28.5	7.9	7.9	19.7	19.8	74.8	74.7	5.2		3.1		3			
						4.2	0.1	340	28.5		7.9		19.8		74.5		5.2		3.2		3			
					Bottom	7.3	0.1	354	28.4	28.4	7.9	7.9	20.2	20.2	72.9	72.9	5.1	5.1	5.1		3			
						7.3	0.2	347	28.4		7.9		20.2		72.9		5.1		5.2		3			

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Water Quality Monitoring
Water Quality Monitoring Results on 24 June 23 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		
IM10	Misty	Calm	11:14	9.4	Surface	1.0	0.3	289	25.5	25.4	7.6	7.5	19.7	19.7	90.5	88.8	6.6	5.8	2.3	3.9	3	4	822242	809817
						1.0	0.4	291	25.3		7.5		19.7		87.1		6.4		2.3		3			
					Middle	4.7	0.3	282	24.8	24.8	7.5	7.5	24.1	24.3	71.4	70.6	5.2		4.0		4			
						4.7	0.3	283	24.7		7.5		24.4		69.8		5.1		4.0		4			
					Bottom	8.4	0.3	320	24.7	24.9	7.5	7.5	24.5	24.3	70.3	72.8	5.1	5.3	5.4		4			
						8.4	0.3	320	25.1		7.5		24.1		75.2		5.4		5.4		4			
IM11	Misty	Calm	11:03	6.2	Surface	1.0	0.4	269	25.5	25.5	7.5	7.5	19.6	19.7	90.6	89.2	6.6	6.2	2.8	4.3	2	3	821509	810561
						1.0	0.4	270	25.4		7.5		19.7		87.7		6.4		2.8		3			
					Middle	3.1	0.3	285	25.3	25.2	7.5	7.5	21.5	21.4	82.1	80.1	6.0		4.2		3			
						3.1	0.3	279	25.1		7.5		21.3		78.1		5.7		4.1		3			
					Bottom	5.2	0.4	303	25.1	25.2	7.5	7.5	22.8	22.5	78.9	81.4	5.7	5.9	6.0		4			
						5.2	0.4	306	25.3		7.5		22.2		83.9		6.1		6.1		4			
IM12	Misty	Calm	10:21	9.2	Surface	1.0	0.4	281	25.6	25.4	7.6	7.5	19.0	19.1	91.8	90.1	6.7	6.1	1.3	2.5	3	3	821146	811503
						1.0	0.3	273	25.2		7.5		19.2		88.4		6.5		1.3		4			
					Middle	4.6	0.4	272	24.9	24.9	7.5	7.5	23.6	23.6	78.1	75.8	5.7		2.4		4			
						4.6	0.4	271	24.9		7.5		23.6		73.5		5.3		2.4		2			
					Bottom	8.2	0.4	266	23.7	23.7	7.5	7.5	27.7	27.5	65.5	69.0	4.7	5.0	3.8		3			
						8.2	0.4	272	23.7		7.5		27.3		72.4		5.2		3.8		3			
SR1A	Rainy	Calm	09:49	3.8	Surface	1.0	0.0	177	25.6	25.6	7.5	7.5	19.5	19.6	90.2	89.3	6.6	6.6	2.2	2.6	3	3	819972	812660
						1.0	0.0	170	25.6		7.5		19.7		88.3		6.5		2.3		3			
					Middle	1.9	0.0	163	-	-	-	-	-	-	-	-	-		-		-			
						1.9	0.1	168	-		-		-		-		-		-		-			
					Bottom	2.8	0.0	185	25.5	25.5	7.5	7.5	19.8	19.6	87.5	88.0	6.4	6.5	3.1		3			
						2.8	0.0	180	25.5		7.5		19.4		88.4		6.5		3.0		3			
SR2	Rainy	Calm	09:33	4.8	Surface	1.0	0.1	304	25.7	25.7	7.5	7.5	18.6	18.5	95.3	95.4	7.0	7.0	1.3	1.7	3	3	821446	814188
						1.0	0.1	308	25.7		7.5		18.5		95.5		7.0		1.3		4			
					Middle	-	0.1	293	-	-	-	-	-	-	-	-	-		-		-			
						-	0.1	294	-		-		-		-		-		-		-			
					Bottom	3.8	0.1	312	25.5	25.5	7.4	7.4	20.5	20.4	85.0	85.0	6.2	6.2	2.1		3			
						3.8	0.1	313	25.5		7.4		20.3		84.9		6.2		2.2		2			
SR3	Rainy	Rough	11:02	8.6	Surface	1.0	0.2	328	28.6	28.6	8.0	8.0	17.6	17.6	87.8	87.8	6.2	5.8	1.7	1.7	2	3	822129	807583
						1.0	0.2	334	28.6		8.0		17.6		87.7		6.2		1.8		3			
					Middle	4.3	0.2	310	28.6	28.6	7.9	7.9	19.4	19.3	78.0	78.0	5.4		1.6		3			
						4.3	0.2	312	28.6		7.9		19.3		78.0		5.4		1.6		3			
					Bottom	7.6	0.2	334	28.4	28.4	7.9	7.9	20.5	20.5	73.7	73.5	5.1	5.1	1.9		4			
						7.6	0.1	329	28.4		7.9		20.6		73.3		5.1		1.9		4			
SR4A	Rainy	Moderate	09:47	8.8	Surface	1.0	0.0	114	28.5	28.5	8.1	8.1	19.6	19.6	88.4	88.4	6.2	6.0	2.6	4.1	4	3	817186	807815
						1.0	0.1	121	28.5		8.1		19.6		88.4		6.2		2.5		3			
					Middle	4.4	0.0	122	28.1	28.1	8.0	8.0	22.3	22.3	83.5	83.3	5.8		3.6		3			
						4.4	0.0	123	28.1		8.0		22.2		83.0		5.8		3.7		3			
					Bottom	7.8	0.0	117	27.4	27.4	8.0	8.0	25.5	25.5	63.7	63.7	4.4	4.4	6.2		3			
						7.8	0.1	121	27.4		8.0		25.5		63.7		4.4		6.2		2			
SR8	Rainy	Calm	10:15	4.0	Surface	1.0	-	-	26.0	26.0	7.5	7.5	19.6	19.6	91.7	91.7	6.7	6.7	3.6	3.9	3	3	820367	811640
						1.0	-	-	25.9		7.5		19.7		91.6		6.7		3.6		3			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.0	-	-	25.6	25.6	7.5	7.5	19.9	20.0	85.0	86.0	6.2	6.3	4.3		3			
						3.0	-	-	25.6		7.5		20.1		86.9		6.3		4.2		4			

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Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher
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Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 27 June 23 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	07:28	7.2	Surface	1.0	0.3	206	25.7	25.7	7.9	7.9	17.4	17.4	92.8	92.6	6.9	6.1	2.8	5.8	6	5	815637	804231
						1.0	0.3	201	25.7		7.9		17.4		92.3		6.8		2.8		5			
					Middle	3.6	0.2	213	24.9	24.9	7.8	7.8	21.4	21.4	72.1	72.1	5.3		5.7		6			
						3.6	0.2	217	24.9		7.8		21.4		72.1		5.3		5.7		5			
					Bottom	6.2	0.2	218	23.8	23.8	7.8	7.8	26.2	26.4	54.9	54.5	4.0	4.0	8.9		5			
						6.2	0.2	213	23.8		7.8		26.5		54.0		3.9		8.9		5			
C2	Sunny	Moderate	08:57	9.1	Surface	1.0	0.4	167	26.4	26.5	7.8	7.8	6.8	6.5	90.8	90.8	7.0	6.7	5.8	5.1	5	5	825674	806964
						1.0	0.4	171	26.5		7.8		6.2		90.7		7.1		5.9		5			
					Middle	4.6	0.4	161	25.6	25.6	7.9	7.8	15.5	15.5	85.1	84.9	6.4		4.7		5			
						4.6	0.4	161	25.5		7.8		15.5		84.6		6.4		4.8		5			
					Bottom	8.1	0.5	161	25.2	25.2	7.8	7.8	17.7	17.7	81.9	81.9	6.1	6.1	4.6		5			
						8.1	0.5	158	25.2		7.8		17.8		81.8		6.1		4.6		6			
C3	Sunny	Moderate	07:50	10.9	Surface	1.0	0.3	75	28.7	28.7	8.2	8.2	16.4	16.4	97.3	97.2	6.9	6.1	1.3	1.8	4	3	822104	817791
						1.0	0.3	78	28.7		8.2		16.4		97.0		6.9		1.3		3			
					Middle	5.5	0.2	89	27.9	27.9	8.2	8.2	20.7	20.7	76.4	76.5	5.3		1.4		4			
						5.5	0.3	89	27.9		8.2		20.7		76.5		5.4		1.4		3			
					Bottom	9.9	0.3	74	26.5	26.5	8.1	8.1	25.6	25.6	72.9	72.9	5.1	5.1	2.5		2			
						9.9	0.3	78	26.4		8.1		25.7		72.8		5.1		2.5		3			
IM1	Sunny	Moderate	07:47	6.4	Surface	1.0	0.1	181	24.9	24.9	7.9	7.9	22.2	22.2	77.3	77.3	5.6	5.4	3.1	3.9	5	5	818334	806445
						1.0	0.2	174	24.9		7.9		22.3		77.2		5.6		3.1		6			
					Middle	3.2	0.2	197	24.8	24.8	7.9	7.9	22.2	22.2	72.0	71.8	5.3		4.4		5			
						3.2	0.3	196	24.8		7.9		22.2		71.6		5.2		4.5		6			
					Bottom	5.4	0.2	206	23.8	23.8	7.8	7.8	27.8	27.8	52.3	52.4	3.8	3.8	4.0		5			
						5.4	0.2	198	23.8		7.8		27.8		52.4		3.8		4.1		5			
IM2	Sunny	Moderate	07:57	6.6	Surface	1.0	0.2	201	24.1	24.1	7.8	7.8	26.3	26.3	84.8	84.8	6.4	5.3	2.6	3.8	4	4	819203	806214
						1.0	0.2	202	24.1		7.8		26.4		84.8		6.4		2.4		4			
					Middle	3.3	0.2	175	24.0	24.0	7.8	7.8	26.7	26.7	56.1	56.1	4.1		3.2		4			
						3.3	0.3	170	24.0		7.8		26.7		56.1		4.1		3.2		4			
					Bottom	5.6	0.2	186	23.0	23.1	7.8	7.8	30.7	30.7	51.2	51.2	3.7	3.7	5.7		5			
						5.6	0.2	186	23.1		7.8		30.7		51.2		3.7		5.7		4			
IM7	Sunny	Moderate	08:23	6.9	Surface	1.0	0.1	176	26.7	26.7	8.1	8.1	11.0	11.0	106.8	106.7	8.0	7.1	2.3	3.2	4	5	821364	806840
						1.0	0.2	174	26.7		8.1		11.0		106.5		8.0		2.3		4			
					Middle	3.5	0.2	168	25.5	25.5	7.9	7.9	18.3	18.3	83.6	83.4	6.2		3.0		5			
						3.5	0.2	167	25.4		7.9		18.4		83.1		6.2		3.0		5			
					Bottom	5.9	0.1	193	24.4	24.4	7.8	7.8	24.6	24.6	58.3	58.5	4.2	4.3	4.3		5			
						5.9	0.1	190	24.4		7.8		24.6		58.7		4.3		4.3		5			

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Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 27 June 23 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		
IM10	Sunny	Moderate	09:15	7.7	Surface	1.0	0.3	126	29.5	29.5	8.3	8.3	11.8	11.8	100.7	100.5	7.2	6.0	3.2	5.8	4	4	822251	809861
						1.0	0.3	133	29.5		8.3		11.9		100.3		7.2		3.2		4			
					Middle	3.9	0.3	108	27.7	27.7	8.1	8.1	15.7	15.7	65.3	65.3	4.7		3.9		4			
						3.9	0.2	114	27.7		8.1		15.7		65.3		4.7		3.9		3			
					Bottom	6.7	0.4	114	27.4	27.4	8.1	8.1	22.7	22.7	53.1	53.1	3.7	3.7	10.5		3			
						6.7	0.4	108	27.4		8.1		22.7		53.1		3.7		10.5		4			
IM11	Sunny	Moderate	09:07	7.7	Surface	1.0	0.3	109	29.4	29.4	8.3	8.3	11.3	11.4	102.3	101.7	7.3	6.0	3.2	6.2	4	4	821504	810555
						1.0	0.4	105	29.4		8.3		11.5		101.0		7.3		3.3		4			
					Middle	3.9	0.4	115	28.0	27.9	8.2	8.2	19.2	19.2	66.0	65.8	4.7		5.4		3			
						3.9	0.4	108	27.8		8.2		19.3		65.6		4.6		5.7		4			
					Bottom	6.7	0.3	81	26.8	26.8	8.2	8.2	24.5	24.5	56.2	56.2	3.9	3.9	9.9		3			
						6.7	0.3	75	26.8		8.2		24.5		56.2		3.9		9.9		4			
IM12	Sunny	Moderate	08:59	8.2	Surface	1.0	0.4	97	29.1	29.1	8.4	8.4	11.3	11.3	97.5	96.6	7.0	5.7	2.6	6.0	5	4	821143	811534
						1.0	0.3	93	29.0		8.4		11.3		95.6		6.9		2.8		4			
					Middle	4.1	0.3	101	28.1	28.1	8.3	8.3	14.4	14.4	62.4	62.4	4.5		6.0		4			
						4.1	0.4	100	28.1		8.3		14.4		62.4		4.5		6.0		4			
					Bottom	7.2	0.4	95	25.9	25.9	8.2	8.2	27.5	27.5	50.0	50.0	3.5	3.5	9.3		4			
						7.2	0.4	95	25.9		8.2		27.5		50.0		3.5		9.3		3			
SR1A	Sunny	Moderate	08:28	5.4	Surface	1.0	0.0	142	29.1	29.0	8.3	8.3	12.4	12.4	99.8	99.5	7.2	7.2	3.8	6.5	3	3	819976	812661
						1.0	0.0	141	28.8		8.3		12.5		99.2		7.2		4.0		3			
					Middle	2.7	0.0	153	-	-	-	-	-	-	-	-	-		-		-			
						2.7	0.0	150	-		-		-		-		-		-		-			
					Bottom	4.4	0.1	164	28.2	28.2	8.1	8.1	20.8	20.6	69.5	70.4	4.8	4.9	9.0		3			
						4.4	0.0	159	28.2		8.2		20.5		71.2		5.0		9.2		3			
SR2	Sunny	Moderate	08:12	4.5	Surface	1.0	0.3	37	29.1	29.1	8.3	8.3	15.0	15.0	97.5	97.6	6.9	6.9	1.9	2.1	3	3	821445	814184
						1.0	0.3	43	29.1		8.3		15.0		97.6		6.9		1.9		3			
					Middle	-	0.3	35	-	-	-	-	-	-	-	-	-		-		-			
						-	0.4	31	-		-		-		-		-		-		-			
					Bottom	3.5	0.3	38	28.4	28.4	8.2	8.2	18.3	18.3	76.9	76.9	5.4	5.4	2.3		4			
						3.5	0.3	40	28.4		8.2		18.3		76.9		5.4		2.3		3			
SR3	Sunny	Moderate	08:35	8.9	Surface	1.0	0.4	173	26.3	26.3	8.0	8.0	12.4	12.4	98.1	97.9	7.4	6.0	3.8	4.1	6	5	822167	807583
						1.0	0.4	169	26.3		8.0		12.4		97.7		7.4		3.8		6			
					Middle	4.5	0.4	179	24.4	24.5	7.8	7.8	23.3	23.2	61.8	62.0	4.5		4.0		5			
						4.5	0.4	175	24.5		7.8		23.2		62.1		4.5		4.0		5			
					Bottom	7.9	0.4	155	24.0	24.0	7.8	7.8	25.8	25.8	55.2	55.2	4.0	4.0	4.4		5			
						7.9	0.4	153	24.0		7.8		25.8		55.2		4.0		4.5		4			
SR4A	Sunny	Moderate	07:05	8.6	Surface	1.0	0.0	102	25.6	25.7	7.8	7.8	17.3	17.3	84.7	84.6	6.3	5.1	3.6	4.0	5	5	817181	807804
						1.0	0.0	102	25.7		7.8		17.2		84.5		6.3		3.6		5			
					Middle	4.3	0.0	91	24.0	24.0	7.7	7.7	26.5	26.5	52.5	52.5	3.8		5.1		5			
						4.3	0.0	88	24.0		7.7		26.5		52.5		3.8		5.0		5			
					Bottom	7.6	0.0	79	23.3	23.3	7.8	7.8	29.1	29.1	49.8	49.9	3.6	3.6	3.5		5			
						7.6	0.0	73	23.3		7.8		29.1		49.9		3.6		3.5		5			
SR8	Sunny	Moderate	08:53	5.2	Surface	1.0	-	-	29.6	29.6	8.3	8.3	11.2	11.2	114.1	114.0	8.2	8.2	2.8	6.8	3	3	820399	811633
						1.0	-	-	29.6		8.3		11.2		113.8		8.1		2.8		3			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	4.2	-	-	27.9	27.9	8.2	8.2	20.5	20.5	65.5	65.7	4.6	4.6	10.5		3			
						4.2	-	-	27.9		8.2		20.6		65.8		4.6		11.2		3			

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Water Quality Monitoring
Water Quality Monitoring Results on 27 June 23 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	13:03	7.7	Surface	1.0	0.1	50	26.5	26.5	8.2	8.2	10.0	10.0	123.8	123.7	9.4	8.3	3.5	3.1	4	5	815636	804265
						1.0	0.1	55	26.5		8.2		10.0		123.5		9.4		3.5		4			
					Middle	3.9	0.1	34	25.8	25.8	7.9	7.9	15.7	15.7	95.6	95.6	7.1		2.9		4			
						3.9	0.2	30	25.8		7.9		15.6		95.5		7.1		2.9		5			
					Bottom	6.7	0.2	56	24.9	24.9	7.8	7.8	21.2	21.2	78.3	78.4	5.7	5.8	2.9		5			
						6.7	0.1	63	24.9		7.8		21.2		78.5		5.8		2.9		5			
C2	Sunny	Rough	11:50	9.7	Surface	1.0	0.1	203	25.8	25.8	7.9	7.9	12.3	12.5	85.1	85.1	6.4	5.5	4.2	3.7	5	5	825690	806941
						1.0	0.1	203	25.8		7.9		12.7		85.0		6.4		4.2		5			
					Middle	4.9	0.1	194	24.0	24.0	7.8	7.8	25.7	25.7	62.2	62.2	4.5		3.3		5			
						4.9	0.0	193	24.0		7.8		25.6		62.2		4.5		3.3		5			
					Bottom	8.7	0.1	204	23.4	23.4	7.8	7.8	28.0	28.0	60.5	60.6	4.4	4.4	3.5		5			
						8.7	0.1	197	23.4		7.8		28.0		60.7		4.4		3.6		5			
C3	Sunny	Moderate	13:58	11.4	Surface	1.0	0.3	254	29.7	29.7	8.4	8.4	16.6	16.6	147.0	146.7	10.2	7.4	1.5	3.1	5	5	822123	817805
						1.0	0.2	255	29.6		8.4		16.7		146.3		10.2		1.5		4			
					Middle	5.7	0.3	250	26.1	26.1	8.1	8.1	26.3	26.5	66.3	66.2	4.6		1.1		5			
						5.7	0.3	243	26.0		8.1		26.6		66.1		4.6		1.1		5			
					Bottom	10.4	0.3	269	24.3	24.3	8.1	8.1	31.1	31.1	55.1	55.3	3.9	3.9	6.2		5			
						10.4	0.3	264	24.3		8.1		31.1		55.4		3.9		7.1		5			
IM1	Sunny	Moderate	12:44	6.9	Surface	1.0	0.1	349	25.7	25.7	8.1	8.1	18.7	18.7	108.1	108.0	7.9	6.2	2.4	3.5	4	5	818337	806479
						1.0	0.2	343	25.7		8.1		18.7		107.9		7.9		2.4		5			
					Middle	3.5	0.1	344	24.3	24.3	7.9	7.9	25.2	25.2	62.6	62.7	4.5		3.2		5			
						3.5	0.1	346	24.3		7.9		25.2		62.7		4.6		3.2		5			
					Bottom	5.9	0.1	8	23.4	23.4	7.9	7.9	29.0	29.0	51.3	51.3	3.7	3.7	4.8		5			
						5.9	0.1	0	23.4		7.9		29.0		51.3		3.7		4.8		4			
IM2	Sunny	Moderate	12:35	7.1	Surface	1.0	0.2	263	25.2	25.2	8.0	8.0	20.5	20.4	89.2	89.1	6.6	5.4	3.1	3.5	5	5	819201	806226
						1.0	0.2	268	25.2		8.0		20.4		89.0		6.5		3.1		4			
					Middle	3.6	0.2	259	23.9	23.9	7.9	7.9	26.9	26.8	57.5	57.5	4.2		3.4		5			
						3.6	0.1	262	23.9		7.9		26.8		57.5		4.2		3.4		4			
					Bottom	6.1	0.1	270	23.0	23.0	7.9	7.9	30.6	30.6	46.5	46.5	3.4	3.4	4.1		6			
						6.1	0.1	266	23.0		7.9		30.6		46.5		3.4		4.2		5			
IM7	Sunny	Moderate	12:14	7.5	Surface	1.0	0.1	267	26.8	26.8	8.1	8.1	11.0	11.0	112.7	112.4	8.5	6.9	2.6	4.0	4	5	821327	806817
						1.0	0.2	274	26.8		8.1		11.0		112.1		8.4		2.6		4			
					Middle	3.8	0.1	243	24.9	24.9	7.8	7.8	21.7	21.7	71.7	71.7	5.3		3.4		4			
						3.8	0.1	239	24.9		7.8		21.7		71.7		5.3		3.5		5			
					Bottom	6.5	0.2	263	24.4	24.4	7.7	7.7	24.4	24.4	58.4	58.6	4.3	4.3	5.9		5			
						6.5	0.2	268	24.4		7.7		24.4		58.7		4.3		5.9		6			

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Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 27 June 23 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		
IM10	Sunny	Moderate	11:44	7.4	Surface	1.0	0.1	244	29.8	29.9	8.3	8.3	11.7	11.7	118.3	118.6	8.4	6.9	3.3	4.4	4	4	822262	809848
						1.0	0.2	239	29.9		8.3		11.7		118.8		8.4		3.2		4			
					Middle	3.7	0.1	249	28.5	28.5	8.1	8.1	17.8	17.8	76.0	75.8	5.3		1.8		4			
						3.7	0.2	249	28.5		8.1		17.8		75.6		5.3		1.9		4			
					Bottom	6.4	0.1	236	27.1	27.1	8.2	8.2	23.6	23.6	49.8	49.9	3.5	3.5	8.2		4			
						6.4	0.1	232	27.1		8.2		23.6		50.0		3.5		8.2		5			
IM11	Sunny	Moderate	11:52	7.7	Surface	1.0	0.1	283	29.3	29.3	8.3	8.3	11.8	11.8	111.3	111.3	8.0	6.3	2.9	4.8	4	4	821484	810535
						1.0	0.2	281	29.3		8.3		11.8		111.3		8.0		2.9		4			
					Middle	3.9	0.1	273	27.9	27.9	8.2	8.2	20.4	20.4	64.1	64.1	4.5		2.5		4			
						3.9	0.1	270	27.9		8.2		20.4		64.1		4.5		2.5		4			
					Bottom	6.7	0.1	248	27.0	27.0	8.2	8.2	24.0	24.0	54.7	54.9	3.8	3.8	8.9		5			
						6.7	0.1	247	27.0		8.2		24.0		55.0		3.8		9.0		4			
IM12	Sunny	Moderate	11:59	8.4	Surface	1.0	0.2	286	29.6	29.6	8.2	8.2	11.7	11.7	117.1	117.0	8.4	6.2	2.7	2.4	4	4	821163	811501
						1.0	0.2	279	29.6		8.2		11.6		116.9		8.3		2.7		5			
					Middle	4.2	0.1	293	27.5	27.5	8.1	8.1	22.0	22.0	56.5	56.5	3.9		2.5		4			
						4.2	0.2	289	27.5		8.1		21.9		56.5		4.0		2.5		3			
					Bottom	7.4	0.1	302	25.8	25.8	8.1	8.1	27.5	27.5	49.5	49.6	3.5	3.5	2.1		3			
						7.4	0.1	305	25.8		8.1		27.5		49.7		3.5		2.2		4			
SR1A	Sunny	Moderate	13:22	5.7	Surface	1.0	0.0	164	29.5	29.5	8.3	8.3	14.5	14.5	106.9	106.0	7.5	7.5	2.8	4.9	4	4	819981	812664
						1.0	0.0	170	29.5		8.3		14.6		105.0		7.4		3.0		4			
					Middle	2.9	-	170	-	-	-	-	-	-	-	-	-		-		-			
						2.9	0.0	169	-		-		-		-		-		-		-			
					Bottom	4.7	0.0	186	27.4	27.4	8.1	8.1	22.8	22.8	64.4	64.6	4.5	4.5	7.0		4			
						4.7	0.1	183	27.4		8.1		22.8		64.7		4.5		6.7		5			
SR2	Sunny	Moderate	13:35	4.0	Surface	1.0	0.0	297	29.2	29.2	8.4	8.4	15.0	15.0	122.2	122.2	8.6	8.6	2.1	2.1	5	5	821441	814159
						1.0	0.1	299	29.2		8.4		15.0		122.2		8.6		2.1		5			
					Middle	-	0.1	295	-	-	-	-	-	-	-	-	-		-		-			
						-	0.1	298	-		-		-		-		-		-		-			
					Bottom	3.0	0.1	315	28.7	28.7	8.2	8.2	18.2	18.2	101.9	102.3	7.1	7.2	2.2		5			
						3.0	0.1	319	28.7		8.2		18.2		102.6		7.2		2.2		4			
SR3	Sunny	Moderate	12:06	9.2	Surface	1.0	0.1	179	26.3	26.3	8.0	8.0	13.1	13.0	104.4	104.2	7.8	6.4	2.8	3.1	4	5	822144	807579
						1.0	0.1	185	26.3		8.0		13.0		103.9		7.8		2.8		4			
					Middle	4.6	0.1	169	24.9	24.9	7.7	7.7	20.4	21.3	67.8	68.0	5.0		2.8		4			
						4.6	0.1	169	24.9		7.7		22.3		68.2		5.0		2.8		5			
					Bottom	8.2	0.1	186	24.0	24.0	7.7	7.7	25.7	25.7	59.0	59.0	4.3	4.3	3.8		5			
						8.2	0.1	191	24.0		7.7		25.8		59.0		4.3		3.8		5			
SR4A	Sunny	Moderate	13:22	9.2	Surface	1.0	0.0	126	26.4	26.4	8.1	8.1	15.5	15.5	113.3	113.3	8.4	7.8	5.1	5.5	5	5	817199	807819
						1.0	0.1	123	26.3		8.1		15.5		113.3		8.4		5.1		5			
					Middle	4.6	0.0	127	25.6	25.6	8.1	8.1	19.6	19.6	97.1	97.0	7.1		5.3		4			
						4.6	0.0	122	25.6		8.1		19.6		96.8		7.1		5.3		5			
					Bottom	8.2	0.1	120	23.4	23.4	7.9	7.9	27.7	28.7	48.7	48.7	3.5	3.5	6.1		5			
						8.2	0.0	120	23.3		7.9		29.7		48.7		3.5		6.2		4			
SR8	Sunny	Moderate	12:06	4.3	Surface	1.0	-	-	30.1	30.1	8.2	8.2	10.7	10.7	120.7	120.6	8.6	8.6	3.0	2.9	6	5	820393	811606
						1.0	-	-	30.1		8.2		10.8		120.4		8.6		3.1		5			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.3	-	-	27.7	27.7	8.2	8.2	16.1	16.1	62.9	62.9	4.4	4.4	2.8		5			
						3.3	-	-	27.7		8.2		16.1		62.9		4.4		2.8		4			

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Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 29 June 23 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	09:06	8.2	Surface	1.0	0.2	201	26.3	26.3	8.2	8.2	16.7	16.7	97.0	96.8	7.1	6.3	4.0	7.0	4	6	815604	804251
						1.0	0.3	197	26.3		8.2		16.7		96.5		7.1		4.0		5			
					Middle	4.1	0.3	194	25.5	25.5	8.1	8.1	20.7	20.7	76.3	76.3	5.5		6.9		6			
						4.1	0.3	193	25.5		8.1		20.7		76.3		5.5		6.9		6			
					Bottom	7.2	0.3	199	24.4	24.4	8.0	8.0	25.5	25.7	59.1	58.7	4.2	4.2	10.1		7			
						7.2	0.3	200	24.4		8.0		25.8		58.2		4.2		10.1		6			
C2	Sunny	Moderate	11:07	10.9	Surface	1.0	0.6	161	27.0	27.1	8.2	8.2	6.1	5.8	107.2	107.2	8.2	7.4	7.0	6.3	5	5	825671	806956
						1.0	0.7	159	27.1		8.2		5.5		107.2		8.2		7.1		6			
					Middle	5.5	0.6	173	26.2	26.2	8.1	8.1	14.8	14.8	89.3	89.1	6.6		6.0		5			
						5.5	0.6	168	26.1		8.1		14.8		88.8		6.6		6.0		6			
					Bottom	9.9	0.7	188	25.8	25.8	8.1	8.1	17.0	17.0	56.0	56.0	4.1	4.1	5.8		5			
						9.9	0.7	184	25.8		8.1		17.1		56.0		4.1		5.8		4			
C3	Sunny	Moderate	09:34	10.8	Surface	1.0	0.4	85	25.2	25.2	8.2	8.2	19.7	19.7	141.9	141.7	10.5	8.7	2.8	3.7	6	5	822121	817816
						1.0	0.4	86	25.2		8.2		19.7		141.5		10.4		2.9		5			
					Middle	5.4	0.3	78	23.6	23.6	8.0	8.0	25.3	25.3	94.3	94.3	6.9		3.4		5			
						5.4	0.4	72	23.6		8.0		25.3		94.3		6.9		3.4		5			
					Bottom	9.8	0.4	95	23.5	23.5	7.9	7.9	25.2	25.2	90.8	90.6	6.7	6.7	4.7		5			
						9.8	0.4	96	23.5		7.9		25.2		90.4		6.7		4.7		4			
IM1	Sunny	Moderate	09:25	6.5	Surface	1.0	0.3	191	25.5	25.5	8.1	8.1	21.5	21.5	91.4	91.4	6.6	5.7	4.4	5.1	5	5	818358	806460
						1.0	0.3	188	25.5		8.1		21.6		91.4		6.6		4.3		6			
					Middle	3.3	0.2	196	25.4	25.4	8.1	8.1	21.5	21.5	65.8	65.8	4.8		5.6		5			
						3.3	0.3	188	25.4		8.1		21.5		65.8		4.8		5.7		6			
					Bottom	5.5	0.2	173	24.4	24.4	8.1	8.1	27.1	27.1	44.6	44.6	3.2	3.2	5.2		4			
						5.5	0.2	179	24.4		8.1		27.1		44.6		3.2		5.3		5			
IM2	Sunny	Moderate	09:35	6.9	Surface	1.0	0.2	188	24.7	24.7	8.1	8.1	25.6	25.6	95.4	95.4	6.8	5.6	3.8	5.0	5	5	819181	806229
						1.0	0.2	187	24.7		8.1		25.7		95.4		6.8		3.6		5			
					Middle	3.5	0.2	209	24.6	24.6	8.1	8.1	26.0	26.0	62.3	62.3	4.4		4.4		5			
						3.5	0.2	211	24.6		8.1		26.0		62.3		4.4		4.5		4			
					Bottom	5.9	0.3	218	23.6	23.7	8.1	8.1	30.0	30.0	40.8	40.8	2.9	2.9	6.9		4			
						5.9	0.3	220	23.7		8.1		30.0		40.8		2.9		6.9		5			
IM7	Sunny	Moderate	10:17	7.7	Surface	1.0	0.2	189	27.3	27.3	8.3	8.3	10.3	10.3	111.0	110.9	8.3	7.1	3.5	4.4	5	5	821371	806841
						1.0	0.2	194	27.3		8.3		10.3		110.7		8.2		3.5		6			
					Middle	3.9	0.3	176	26.1	26.1	8.1	8.1	17.6	17.6	82.6	82.6	6.0		4.2		6			
						3.9	0.3	171	26.0		8.1		17.7		82.6		6.0		4.2		5			
					Bottom	6.7	0.2	179	25.0	25.0	8.1	8.1	23.9	23.9	49.5	49.5	3.6	3.6	5.5		5			
						6.7	0.2	182	25.0		8.1		23.9		49.5		3.6		5.5		4			

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Water Quality Monitoring
Water Quality Monitoring Results on 29 June 23 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		
IM10	Sunny	Moderate	11:30	9.4	Surface	1.0	0.5	140	25.8	25.9	8.3	8.3	12.9	12.6	131.9	131.4	10.0	8.6	3.3	4.4	6	6	822249	809833
						1.0	0.5	139	25.9		8.3		12.2		130.9		9.9		3.3		6			
					Middle	4.7	0.4	118	25.1	25.1	8.0	8.0	17.0	17.0	96.8	96.8	7.2		4.8		5			
						4.7	0.4	121	25.1		8.0		17.0		96.8		7.3		4.7		6			
					Bottom	8.4	0.4	107	24.9	24.9	8.0	8.0	19.0	19.0	87.3	87.3	6.5	6.5	5.0		6			
						8.4	0.4	105	24.9		8.0		19.0		87.3		6.5		5.0		5			
IM11	Sunny	Moderate	11:19	7.6	Surface	1.0	0.5	107	25.6	25.6	8.1	8.1	14.0	14.0	104.1	104.2	7.9	7.0	4.8	5.3	5	5	821504	810563
						1.0	0.5	103	25.6		8.1		14.0		104.2		7.9		4.9		5			
					Middle	3.8	0.5	103	24.7	24.7	8.0	8.0	19.8	19.8	82.6	82.8	6.1		5.0		5			
						3.8	0.4	110	24.7		8.0		19.8		83.0		6.2		5.0		6			
					Bottom	6.6	0.5	114	23.0	23.0	7.9	7.9	28.1	28.1	52.8	52.9	3.9	3.9	6.0		6			
						6.6	0.5	116	23.0		7.9		28.2		53.0		3.9		6.0		5			
IM12	Sunny	Moderate	10:37	8.2	Surface	1.0	0.7	103	25.8	25.8	8.2	8.2	13.0	13.0	115.5	115.3	8.7	7.6	3.8	4.8	4	4	821147	811526
						1.0	0.7	103	25.8		8.2		13.0		115.0		8.7		3.7		4			
					Middle	4.1	0.6	94	24.9	24.9	8.0	8.0	20.0	19.4	86.7	86.9	6.4		4.8		4			
						4.1	0.6	86	24.9		8.0		18.7		87.0		6.5		4.7		5			
					Bottom	7.2	0.6	76	23.5	23.5	7.8	7.8	27.0	27.0	53.6	53.7	3.9	3.9	5.7		4			
						7.2	0.6	70	23.5		7.8		27.0		53.8		3.9		5.9		4			
SR1A	Sunny	Moderate	10:05	4.7	Surface	1.0	0.1	137	26.2	26.2	8.4	8.4	13.2	13.2	149.0	149.0	11.2	11.2	3.7	4.0	4	5	819981	812662
						1.0	0.1	132	26.2		8.4		13.2		149.0		11.2		3.7		5			
					Middle	2.4	0.0	143	-	-	-	-	-	-	-	-	-		-		-			
						2.4	0.0	142	-		-		-		-		-		-		-			
					Bottom	3.7	0.0	138	25.8	25.9	8.2	8.2	14.1	14.1	121.4	121.2	9.1	9.1	4.2		5			
						3.7	0.1	143	25.9		8.2		14.1		121.0		9.1		4.2		5			
SR2	Sunny	Moderate	09:49	4.4	Surface	1.0	0.5	56	26.3	26.3	8.4	8.4	13.7	13.7	149.4	149.4	11.2	11.2	3.1	4.1	4	4	821479	814161
						1.0	0.5	52	26.3		8.4		13.7		149.3		11.2		3.1		4			
					Middle	-	0.5	44	-	-	-	-	-	-	-	-	-		-		-			
						-	0.5	45	-		-		-		-		-		-		-			
					Bottom	3.4	0.5	39	24.8	24.8	8.2	8.2	18.5	17.7	103.8	103.5	7.8	7.8	5.0		4			
						3.4	0.4	40	24.8		8.2		17.0		103.2		7.8		5.1		5			
SR3	Sunny	Moderate	10:29	8.4	Surface	1.0	0.6	177	26.9	26.9	8.2	8.2	11.7	11.7	108.4	108.4	8.1	7.2	5.0	5.3	5	5	822127	807548
						1.0	0.6	178	26.9		8.3		11.7		108.4		8.1		5.0		5			
					Middle	4.2	0.6	147	25.0	25.1	8.1	8.1	22.6	22.5	86.3	86.3	6.2		5.2		5			
						4.2	0.6	140	25.1		8.1		22.5		86.3		6.2		5.2		5			
					Bottom	7.4	0.5	148	24.6	24.6	8.1	8.1	25.1	25.1	52.1	52.1	3.7	3.7	5.7		5			
						7.4	0.5	152	24.6		8.1		25.1		52.1		3.7		5.7		5			
SR4A	Sunny	Moderate	08:35	8.7	Surface	1.0	0.1	113	26.2	26.3	8.1	8.1	16.6	16.6	88.9	88.8	6.5	5.3	4.8	5.3	4	5	817200	807832
						1.0	0.1	116	26.3		8.1		16.5		88.7		6.5		4.8		5			
					Middle	4.4	0.1	116	24.6	24.6	8.0	8.0	25.8	25.8	56.7	56.7	4.1		6.3		5			
						4.4	0.0	112	24.6		8.0		25.8		56.7		4.1		6.2		6			
					Bottom	7.7	0.1	78	23.9	23.9	8.0	8.0	28.4	28.4	44.1	44.1	3.1	3.1	4.7		5			
						7.7	0.0	70	23.9		8.0		28.4		44.1		3.1		4.7		6			
SR8	Sunny	Moderate	10:31	5.2	Surface	1.0	-	-	26.0	26.0	8.3	8.3	12.7	12.7	142.8	142.6	10.8	10.8	5.0	5.0	5	4	820403	811614
						1.0	-	-	26.0		8.3		12.7		142.3		10.8		4.9		4			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	4.2	-	-	25.5	25.5	8.1	8.1	15.0	15.0	113.7	114.0	8.6	8.6	5.0		4			
						4.2	-	-	25.5		8.1		15.0		114.2		8.6		5.0		4			

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

Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 29 June 23 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	15:58	8.5	Surface	1.0	0.3	31	27.7	27.7	8.4	8.4	9.3	9.3	128.4	128.3	9.5	8.3	4.7	4.3	5	5	815600	804247
						1.0	0.3	36	27.7		8.4		9.3		128.2		9.5		4.7		5			
					Middle	4.3	0.3	59	27.0	27.0	8.2	8.2	15.0	15.0	95.4	95.4	7.0		4.1		5			
						4.3	0.3	61	27.0		8.2		14.9		95.4		7.0		4.1		4			
					Bottom	7.5	0.3	29	26.1	26.1	8.1	8.1	20.5	20.5	49.2	49.2	3.5	3.5	4.1		5			
						7.5	0.3	24	26.1		8.1		20.5		49.2		3.5		4.1		4			
C2	Sunny	Moderate	14:45	11.2	Surface	1.0	0.0	324	27.0	27.0	8.2	8.2	11.6	11.8	119.2	119.2	8.9	7.7	5.4	4.9	6	5	825667	806949
						1.0	0.0	325	27.0		8.2		12.0		119.2		8.8		5.4		6			
					Middle	5.6	0.1	318	25.2	25.2	8.1	8.1	25.0	25.0	92.4	92.4	6.6		4.5		6			
						5.6	0.1	320	25.2		8.1		24.9		92.4		6.6		4.6		5			
					Bottom	10.2	0.1	308	24.6	24.6	8.1	8.1	27.3	27.3	46.8	46.8	3.3	3.3	4.8		4			
						10.2	0.1	304	24.6		8.1		27.3		46.8		3.3		4.8		5			
C3	Sunny	Moderate	16:23	10.0	Surface	1.0	0.3	270	25.9	25.9	8.6	8.6	18.1	18.1	188.6	188.8	13.9	10.9	2.5	3.4	4	5	822085	817823
						1.0	0.4	270	25.9		8.6		18.0		189.0		13.9		2.5		4			
					Middle	5.0	0.3	242	23.9	23.9	8.2	8.2	24.5	24.5	107.7	107.7	7.9		3.5		5			
						5.0	0.3	247	23.9		8.2		24.4		107.7		7.9		3.5		5			
					Bottom	9.0	0.3	257	22.6	22.6	8.2	8.2	28.8	28.8	82.6	82.6	6.0	6.1	4.3		5			
						9.0	0.3	254	22.6		8.2		28.8		82.6		6.1		4.3		6			
IM1	Sunny	Moderate	15:39	6.6	Surface	1.0	0.3	354	26.9	26.9	8.3	8.3	18.0	18.0	122.1	122.1	8.8	7.7	3.6	4.7	5	5	818344	806478
						1.0	0.3	354	26.9		8.3		18.0		122.1		8.8		3.6		5			
					Middle	3.3	0.3	14	25.5	25.5	8.1	8.1	24.5	24.5	92.4	92.4	6.6		4.5		5			
						3.3	0.3	7	25.5		8.1		24.5		92.4		6.6		4.4		5			
					Bottom	5.6	0.2	347	24.6	24.6	8.1	8.1	28.3	28.3	35.5	35.5	2.5	**2.5**	6.0		6			
						5.6	0.2	346	24.6		8.1		28.3		35.5		2.5		6.0		5			
IM2	Sunny	Moderate	15:30	7.3	Surface	1.0	0.2	330	26.4	26.4	8.3	8.3	19.8	19.7	136.0	136.0	9.7	8.0	4.3	4.8	4	5	819169	806213
						1.0	0.2	326	26.4		8.3		19.7		136.0		9.8		4.3		4			
					Middle	3.7	0.2	353	25.1	25.1	8.2	8.2	26.2	26.1	88.5	88.5	6.3		4.6		5			
						3.7	0.1	352	25.1		8.2		26.1		88.5		6.3		4.6		5			
					Bottom	6.3	0.2	331	24.2	24.2	8.2	8.2	29.9	29.9	39.2	39.2	2.8	2.8	5.4		6			
						6.3	0.2	337	24.2		8.2		29.9		39.2		2.8		5.4		6			
IM7	Sunny	Moderate	15:09	7.9	Surface	1.0	0.2	263	28.0	28.0	8.3	8.3	10.3	10.3	120.4	120.4	8.9	7.5	3.8	5.2	6	6	821370	806815
						1.0	0.2	264	28.0		8.3		10.3		120.4		8.9		3.8		7			
					Middle	4.0	0.2	273	26.1	26.1	8.1	8.1	21.0	21.0	85.2	85.2	6.1		4.6		6			
						4.0	0.2	276	26.1		8.1		21.0		85.2		6.1		4.7		6			
					Bottom	6.9	0.2	267	25.6	25.6	8.0	8.0	23.7	23.7	49.2	49.2	3.5	3.5	7.1		6			
						6.9	0.2	264	25.6		8.0		23.7		49.2		3.5		7.1		5			

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Expansion of Hong Kong International Airport into a Three-Runway System
Water Quality Monitoring
Water Quality Monitoring Results on 29 June 23 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		
IM10	Sunny	Moderate	14:46	9.0	Surface	1.0	0.2	247	25.6	25.6	8.2	8.2	14.2	14.2	122.0	122.2	9.2	8.0	4.7	5.9	5	5	822253	809826
						1.0	0.2	252	25.6		8.2		14.2		122.3		9.2		4.7		6			
					Middle	4.5	0.2	263	25.2	25.2	8.0	8.0	16.9	16.9	90.3	90.3	6.8		4.7		4			
						4.5	0.2	259	25.2		8.0		16.9		90.2		6.8		4.7		6			
					Bottom	8.0	0.2	258	24.5	24.5	7.8	7.8	20.9	22.0	69.5	69.4	5.1	5.1	8.1		5			
						8.0	0.3	257	24.5		7.8		23.0		69.3		5.1		8.4		4			
IM11	Sunny	Moderate	14:53	7.4	Surface	1.0	0.3	281	25.7	25.7	8.3	8.3	15.0	15.0	142.6	142.6	10.7	9.7	4.8	4.9	5	5	821482	810540
						1.0	0.3	278	25.7		8.4		15.0		142.5		10.7		4.8		5			
					Middle	3.7	0.3	279	25.4	25.4	8.2	8.2	16.2	16.2	114.4	114.3	8.6		4.7		4			
						3.7	0.3	277	25.3		8.2		16.2		114.1		8.6		4.8		5			
					Bottom	6.4	0.3	279	24.7	24.7	8.1	8.1	19.2	19.3	89.8	89.0	6.7	6.7	5.1		4			
						6.4	0.3	272	24.7		8.1		19.4		88.2		6.6		5.1		5			
IM12	Sunny	Moderate	15:01	7.0	Surface	1.0	0.3	299	26.2	26.2	8.4	8.4	13.5	13.6	153.3	153.6	11.5	10.2	3.7	4.5	4	5	821154	811523
						1.0	0.3	300	26.1		8.4		13.6		153.9		11.5		3.6		6			
					Middle	3.5	0.3	274	25.4	25.4	8.2	8.2	16.1	16.1	118.8	118.7	8.9		4.1		5			
						3.5	0.3	272	25.4		8.2		16.1		118.6		8.9		4.2		4			
					Bottom	6.0	0.3	265	24.0	24.0	7.9	7.9	22.6	22.6	75.5	75.6	5.6	5.6	5.5		5			
						6.0	0.3	268	24.0		7.9		22.6		75.7		5.6		5.6		4			
SR1A	Sunny	Moderate	15:31	5.0	Surface	1.0	0.1	189	26.1	26.1	8.4	8.4	13.8	13.8	150.9	150.8	11.3	11.3	3.8	4.1	5	5	819975	812663
						1.0	0.0	183	26.0		8.4		13.7		150.7		11.3		3.8		4			
					Middle	2.5	0.1	170	-	-	-	-	-	-	-	-	-		-		-			
						2.5	0.0	175	-		-		-		-		-		-		-			
					Bottom	4.0	0.0	170	25.3	25.3	8.2	8.2	16.4	16.4	112.5	111.3	8.4	8.3	4.3		4			
						4.0	0.0	170	25.3		8.2		16.4		110.0		8.2		4.4		5			
SR2	Sunny	Moderate	16:07	5.6	Surface	1.0	0.1	301	25.4	25.4	8.2	8.2	16.3	16.3	122.8	122.8	9.2	9.2	3.6	3.9	4	5	821461	814172
						1.0	0.0	296	25.4		8.2		16.3		122.8		9.2		3.6		4			
					Middle	-	0.1	297	-	-	-	-	-	-	-	-	-		-		-			
						-	0.1	302	-		-		-		-		-		-		-			
					Bottom	4.6	0.1	289	25.0	25.0	8.2	8.2	16.8	16.8	109.6	109.6	8.5	8.4	4.3		5			
						4.6	0.1	281	24.9		8.2		16.8		109.5		8.3		4.3		5			
SR3	Sunny	Moderate	15:01	9.2	Surface	1.0	0.0	207	27.5	27.5	8.2	8.2	12.4	12.3	118.1	118.1	8.7	7.4	4.0	4.4	6	5	822125	807580
						1.0	0.0	211	27.5		8.2		12.3		118.1		8.7		4.0		5			
					Middle	4.6	0.0	185	26.1	26.1	7.9	7.9	19.7	20.6	85.6	85.6	6.2		4.0		5			
						4.6	0.0	181	26.1		7.9		21.6		85.6		6.1		4.0		4			
					Bottom	8.2	0.1	202	25.2	25.2	7.9	7.9	25.0	25.0	44.2	44.2	3.1	3.1	5.1		4			
						8.2	0.1	198	25.2		7.9		25.1		44.2		3.1		5.1		4			
SR4A	Sunny	Moderate	16:17	9.1	Surface	1.0	0.0	108	27.6	27.6	8.4	8.4	14.8	14.8	147.2	147.2	10.6	9.1	6.3	6.7	4	4	817195	807809
						1.0	0.0	108	27.5		8.4		14.8		147.2		10.6		6.4		4			
					Middle	4.6	0.0	125	26.8	26.8	8.2	8.2	18.9	18.9	105.4	105.3	7.5		6.5		4			
						4.6	0.0	125	26.8		8.2		18.9		105.1		7.5		6.5		5			
					Bottom	8.1	0.1	132	24.6	24.6	8.2	8.2	27.0	28.0	39.6	39.6	2.8	2.8	7.3		4			
						8.1	0.0	125	24.5		8.2		29.0		39.6		2.8		7.4		5			
SR8	Sunny	Moderate	15:16	4.2	Surface	1.0	-	-	26.2	26.2	8.4	8.4	13.5	13.5	159.5	159.5	12.0	12.0	3.8	3.7	5	5	820396	811608
						1.0	-	-	26.2		8.4		13.5		159.4		12.0		3.8		6			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-		-		-			
						-	-	-	-		-		-		-		-		-		-			
					Bottom	3.2	-	-	25.4	25.4	8.2	8.2	16.1	16.1	126.0	126.1	9.4	9.5	3.7		5			
						3.2	-	-	25.4		8.2		16.1		126.1		9.5		3.6		5			

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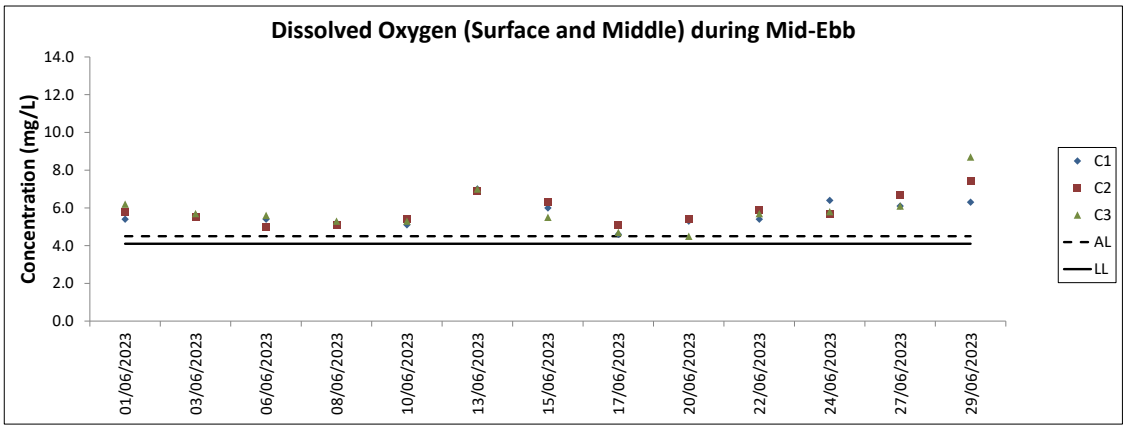
Dissolved Oxygen (Surface and Middle) during Mid-Ebb
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6.0
4.0
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0.0
01/06/2023
03/06/2023
06/06/2023
08/06/2023
10/06/2023
13/06/2023
15/06/2023
17/06/2023
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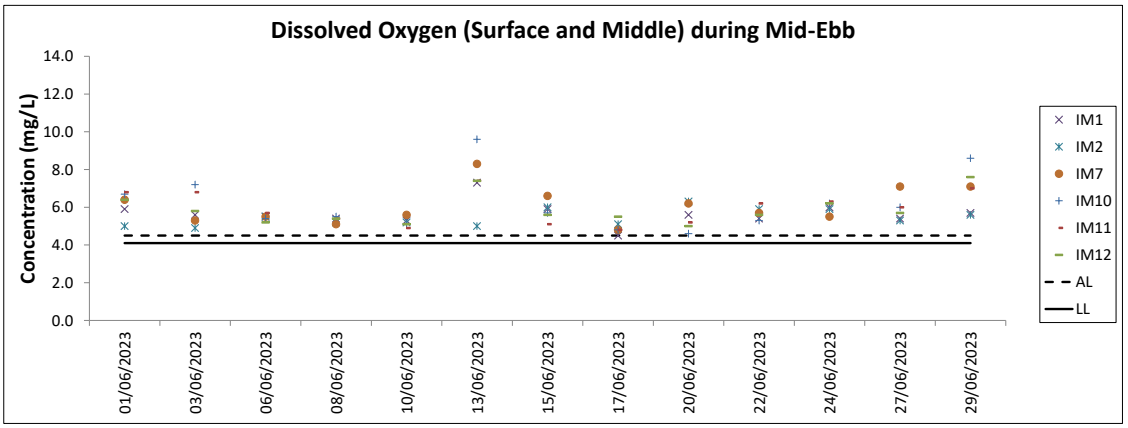
29/06/2023
C1
C2
C3
AL
LL


Dissolved Oxygen (Surface and Middle) during Mid-Ebb
Concentration (mg/L)
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0.0
01/06/2023
03/06/2023
06/06/2023
08/06/2023
10/06/2023
13/06/2023
15/06/2023
17/06/2023
20/06/2023
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IM2
IM7
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IM11
IM12
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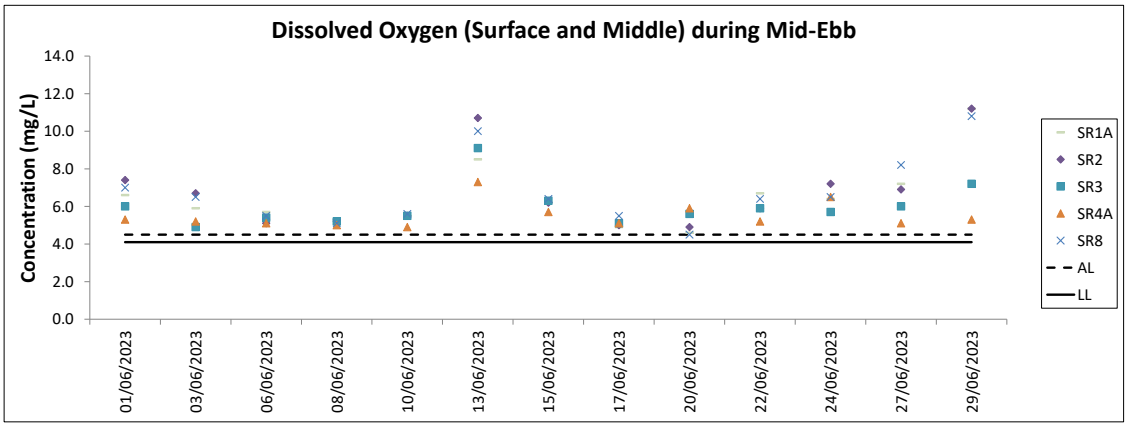
Dissolved Oxygen (Surface and Middle) during Mid-Ebb
Concentration (mg/L)
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01/06/2023
03/06/2023
06/06/2023
08/06/2023
10/06/2023
13/06/2023
15/06/2023
17/06/2023
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SR2
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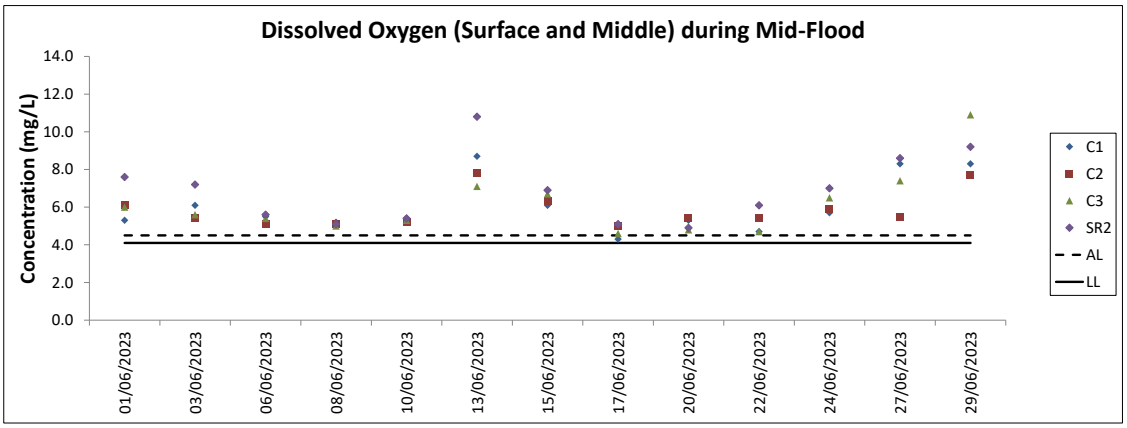
Dissolved Oxygen (Surface and Middle) during Mid-Flood
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0.0
01/06/2023
03/06/2023
06/06/2023
08/06/2023
10/06/2023
13/06/2023
15/06/2023
17/06/2023
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C1
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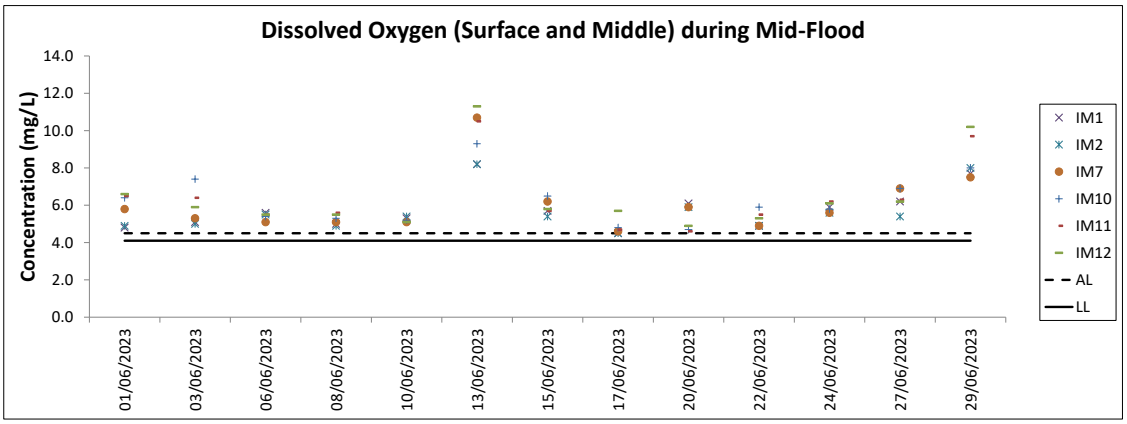
C3
SR2
AL
LL


Dissolved Oxygen (Surface and Middle) during Mid-Flood
Concentration (mg/L)
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10.0
8.0
6.0
4.0
2.0
0.0
01/06/2023
03/06/2023
06/06/2023
08/06/2023
10/06/2023
13/06/2023
15/06/2023
17/06/2023
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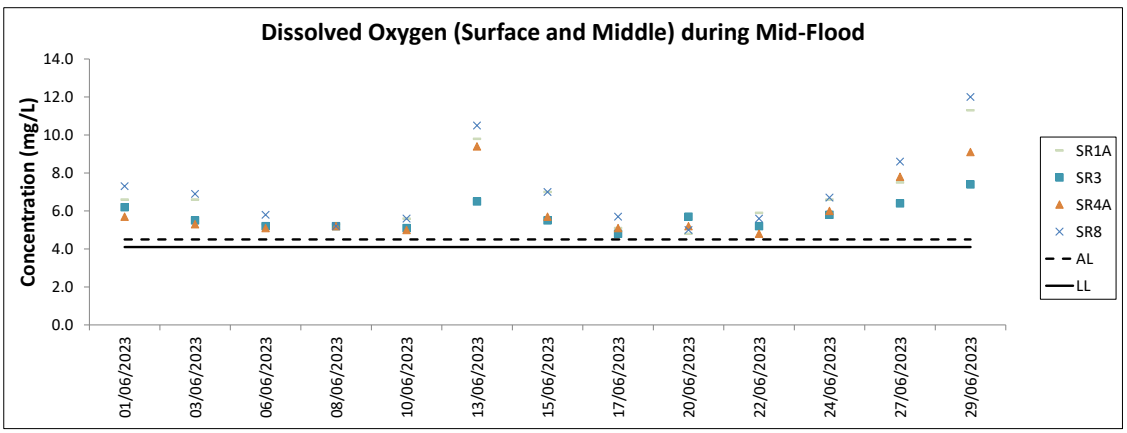
IM10
IM11
IM12
AL
LL


Dissolved Oxygen (Surface and Middle) during Mid-Flood
Concentration (mg/L)
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10.0
8.0
6.0
4.0
2.0
0.0
01/06/2023
03/06/2023
06/06/2023
08/06/2023
10/06/2023
13/06/2023
15/06/2023
17/06/2023
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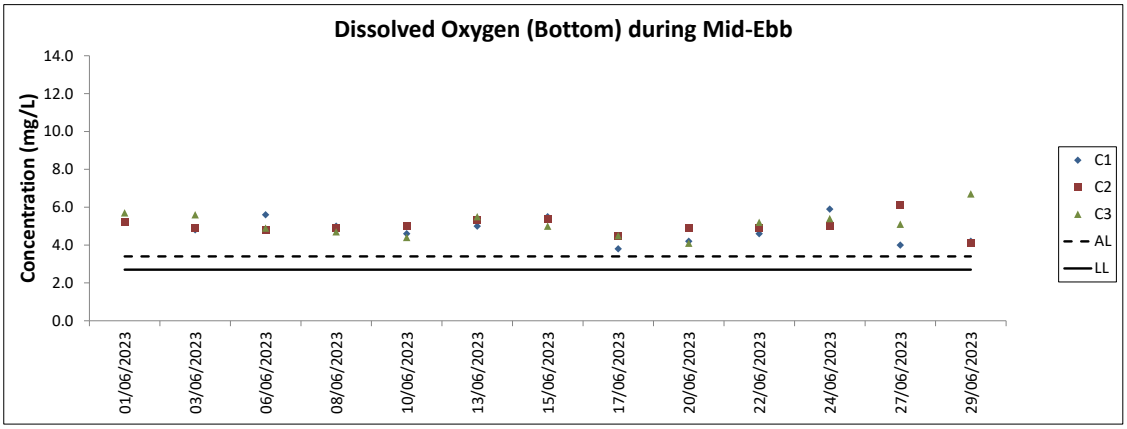
AL
LL


Dissolved Oxygen (Bottom) during Mid-Ebb
Concentration (mg/L)
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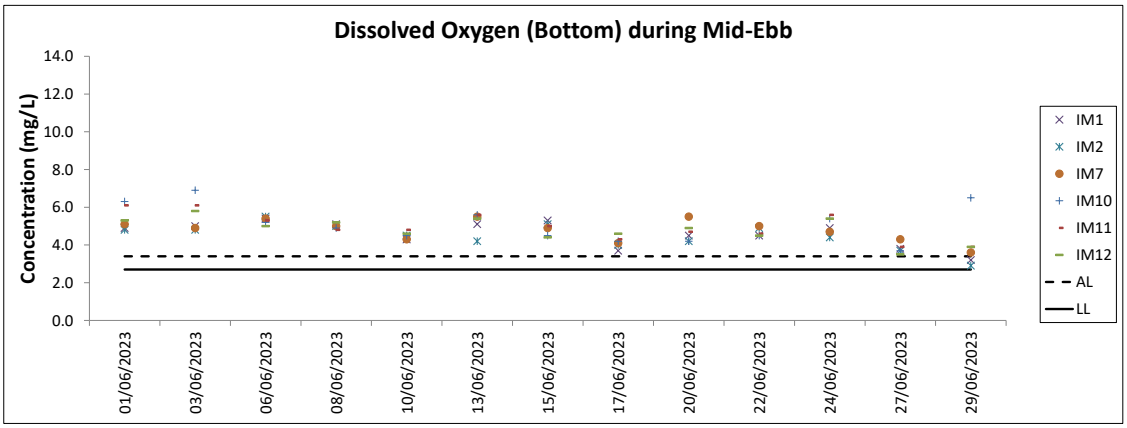
12.0
10.0
8.0
6.0
4.0
2.0
0.0
01/06/2023
03/06/2023
06/06/2023
08/06/2023
10/06/2023
13/06/2023
15/06/2023
17/06/2023
20/06/2023
22/06/2023
24/06/2023
27/06/2023
29/06/2023
C1
C2
C3
AL
LL


Dissolved Oxygen (Bottom) during Mid-Ebb
Concentration (mg/L)
14.0
12.0
10.0
8.0
6.0
4.0
2.0
0.0
01/06/2023
03/06/2023
06/06/2023
08/06/2023
10/06/2023
13/06/2023
15/06/2023
17/06/2023
20/06/2023
22/06/2023
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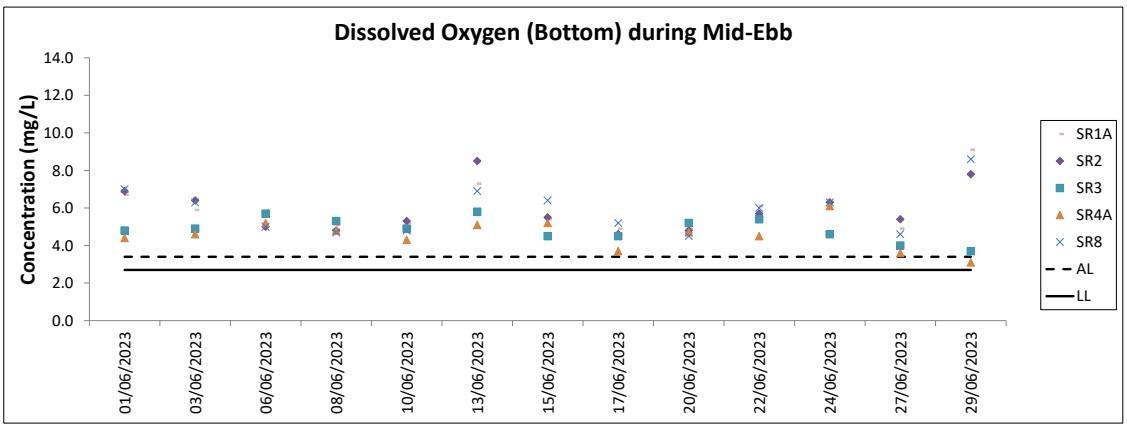
29/06/2023
IM1
IM2
IM7
IM10
IM11
IM12
AL
LL


Dissolved Oxygen (Bottom) during Mid-Ebb
Concentration (mg/L)
14.0
12.0
10.0
8.0
6.0
4.0
2.0
0.0
01/06/2023
03/06/2023
06/06/2023
08/06/2023
10/06/2023
13/06/2023
15/06/2023
17/06/2023
20/06/2023
22/06/2023
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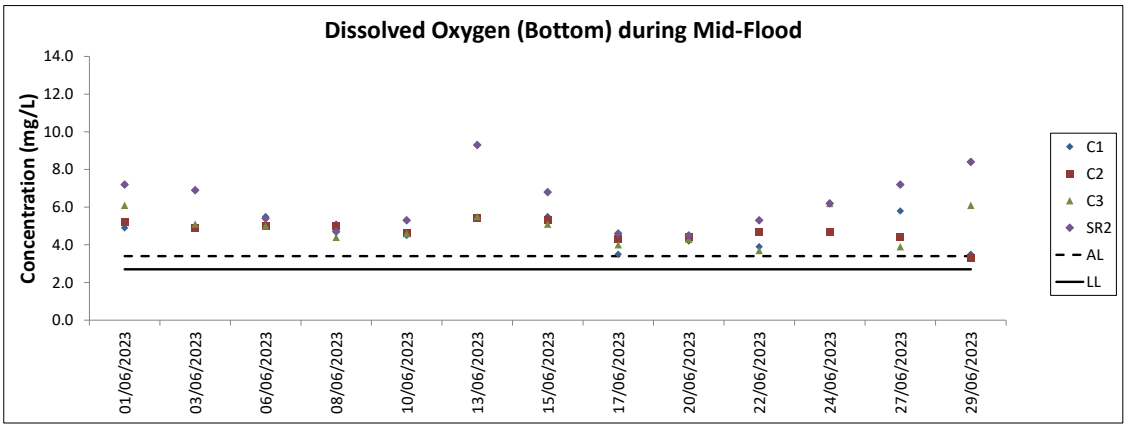
SR1A
SR2
SR3
SR4A
SR8
AL
LL


Dissolved Oxygen (Bottom) during Mid-Flood
Concentration (mg/L)
14.0
12.0
10.0
8.0
6.0
4.0
2.0
0.0
01/06/2023
03/06/2023
06/06/2023
08/06/2023
10/06/2023
13/06/2023
15/06/2023
17/06/2023
20/06/2023
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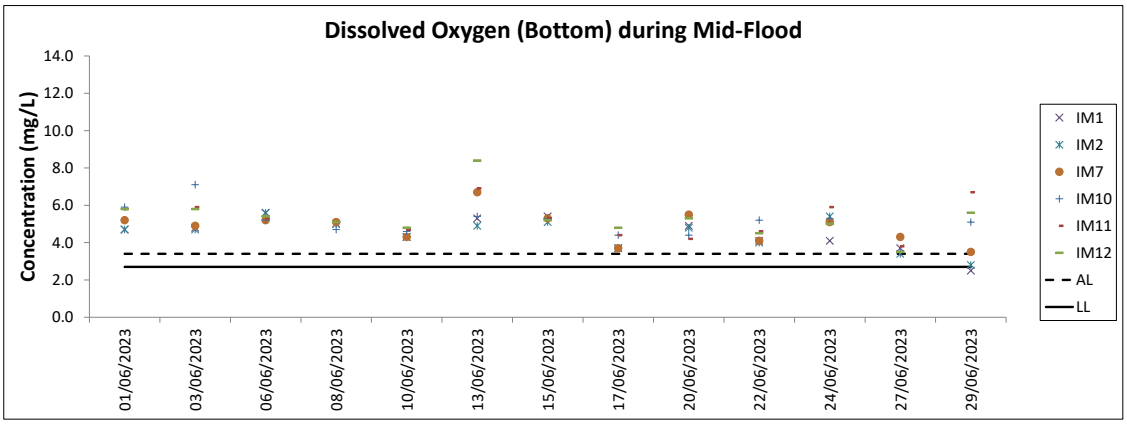
24/06/2023
27/06/2023
29/06/2023
C1
C2
C3
SR2
AL
LL


Dissolved Oxygen (Bottom) during Mid-Flood
Concentration (mg/L)
14.0
12.0
10.0
8.0
6.0
4.0
2.0
0.0
01/06/2023
03/06/2023
06/06/2023
08/06/2023
10/06/2023
13/06/2023
15/06/2023
17/06/2023
20/06/2023
22/06/2023
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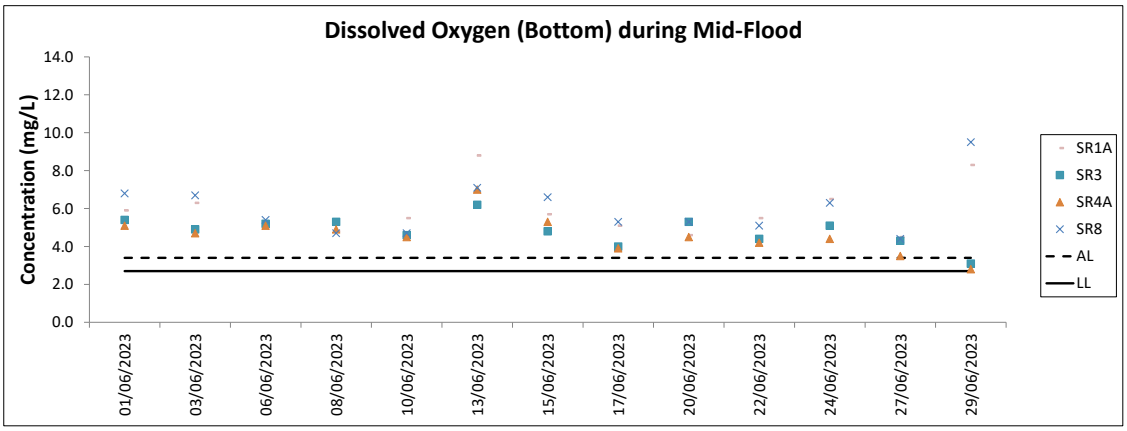
29/06/2023
IM1
IM2
IM7
IM10
IM11
IM12
AL
LL


Dissolved Oxygen (Bottom) during Mid-Flood
Concentration (mg/L)
14.0
12.0
10.0
8.0
6.0
4.0
2.0
0.0
01/06/2023
03/06/2023
06/06/2023
08/06/2023
10/06/2023
13/06/2023
15/06/2023
17/06/2023
20/06/2023
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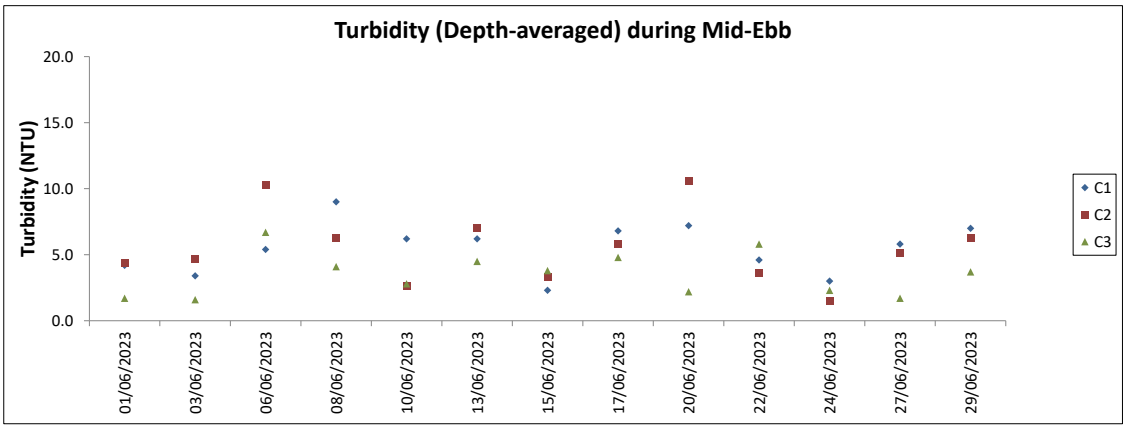
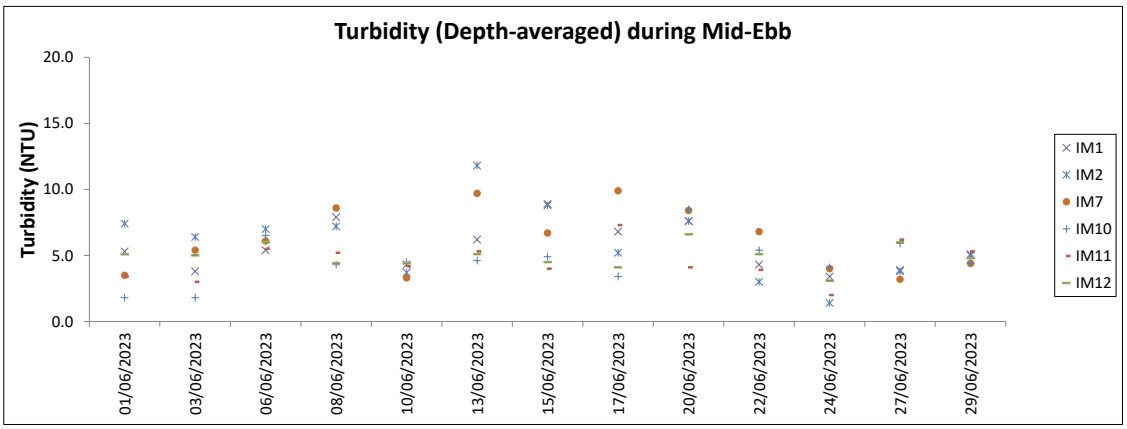
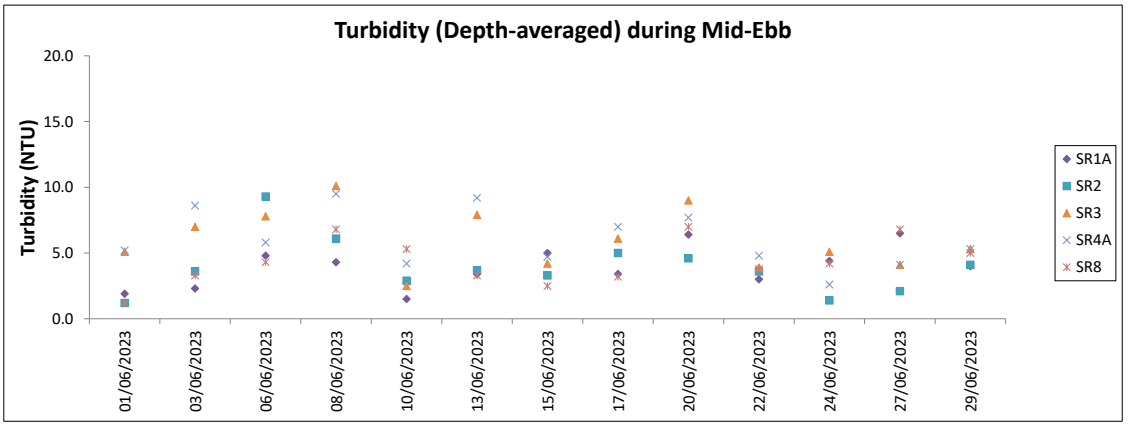
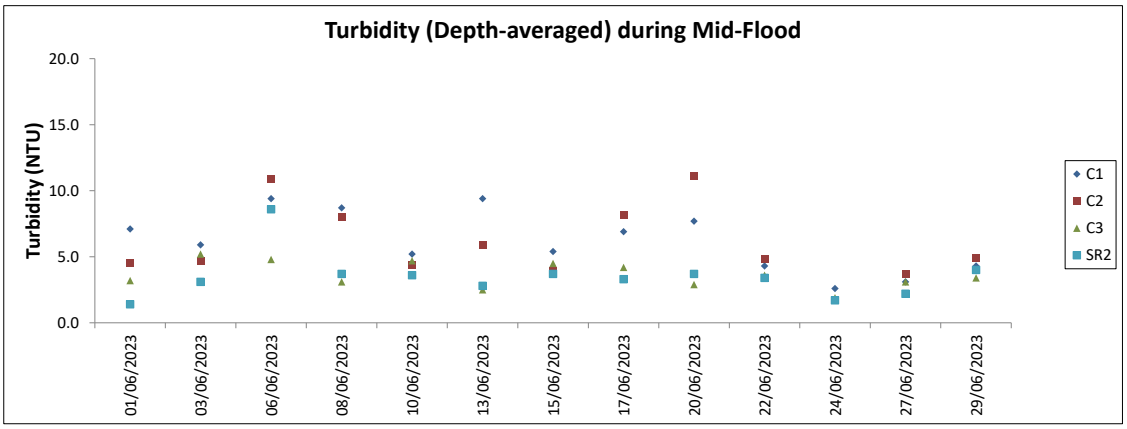
29/06/2023
SR1A
SR3
SR4A
SR8
AL
LL

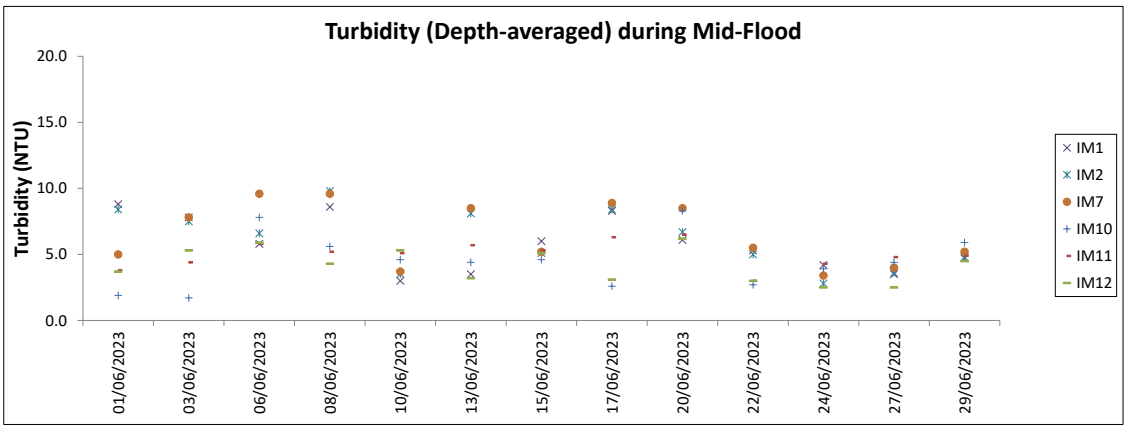


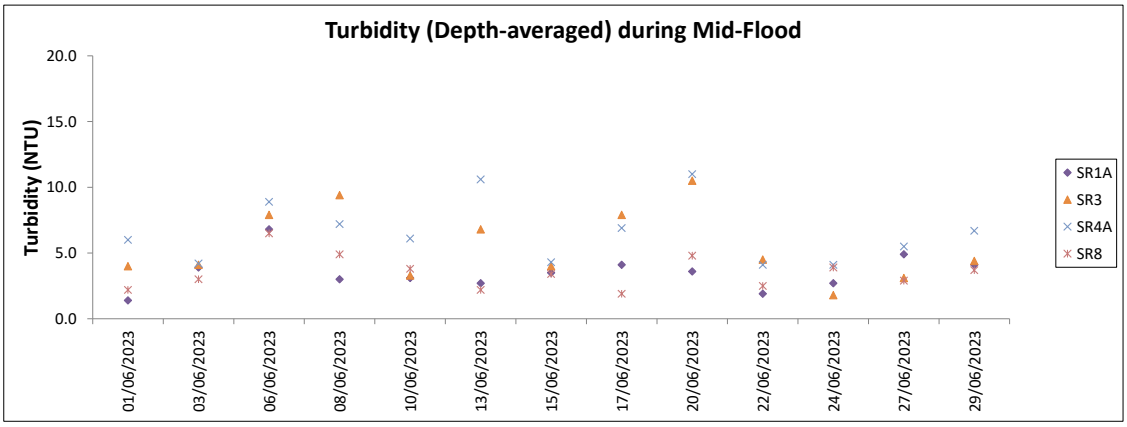




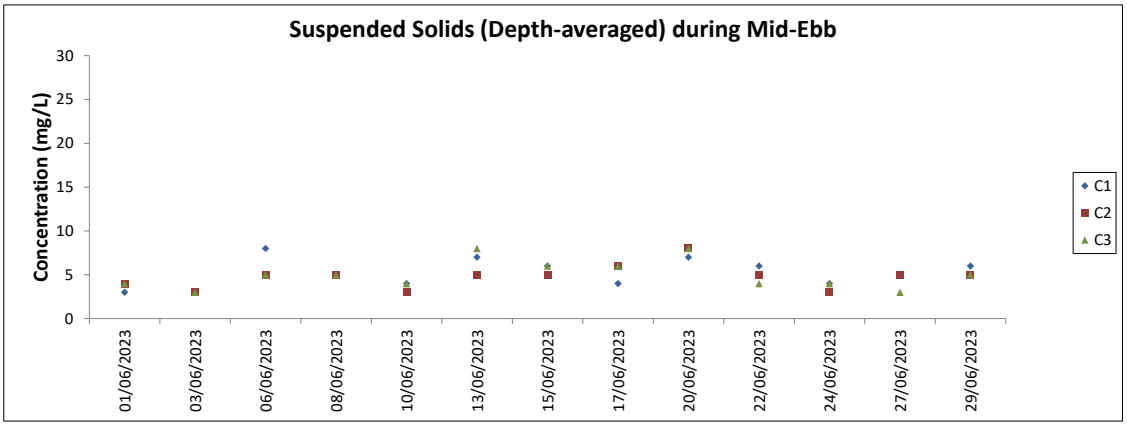
Note: The Action and Limit Level of turbidity can be referred to Table 4.2 of the monthly EM&A report.

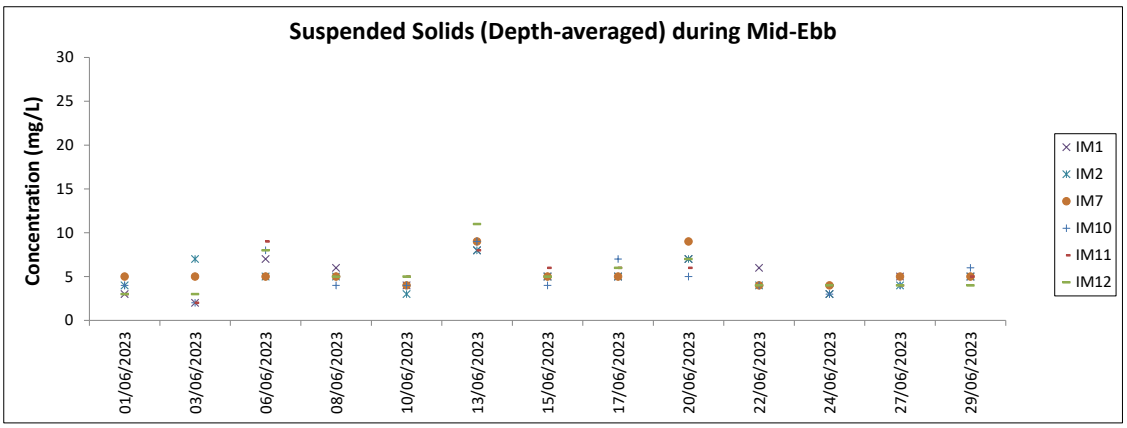


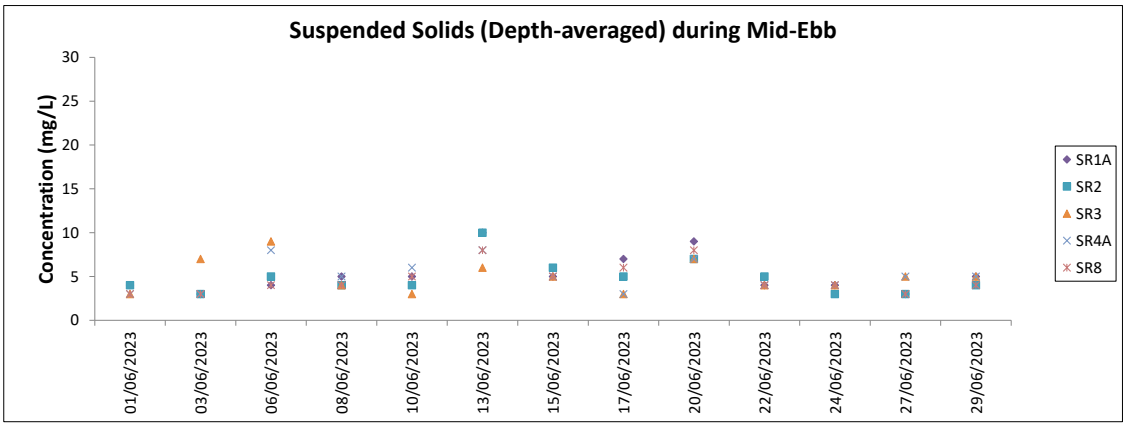




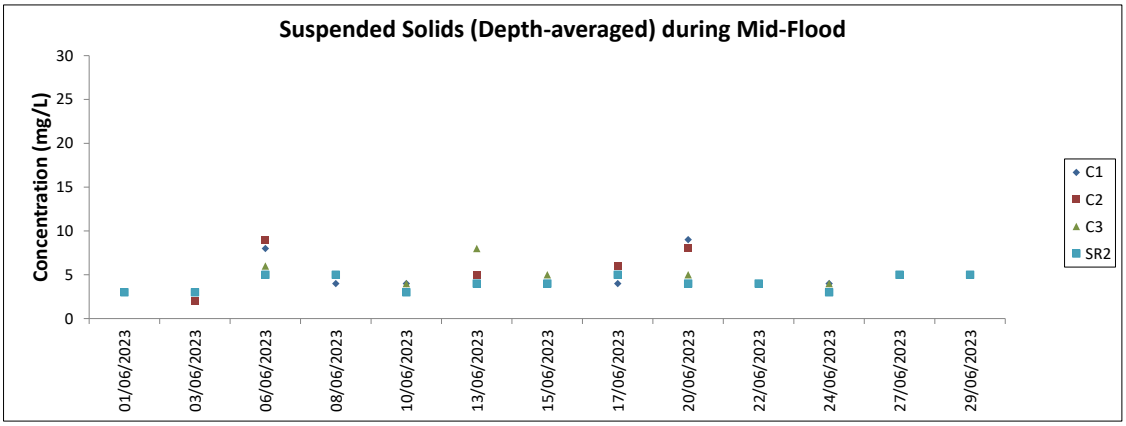
Note: The Action and Limit Level of turbidity can be referred to Table 4.2 of the monthly EM&A report.

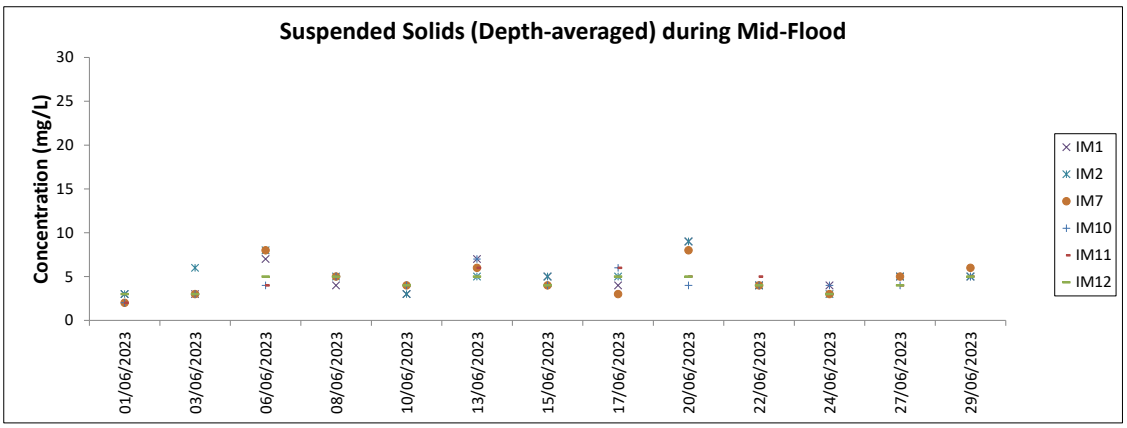


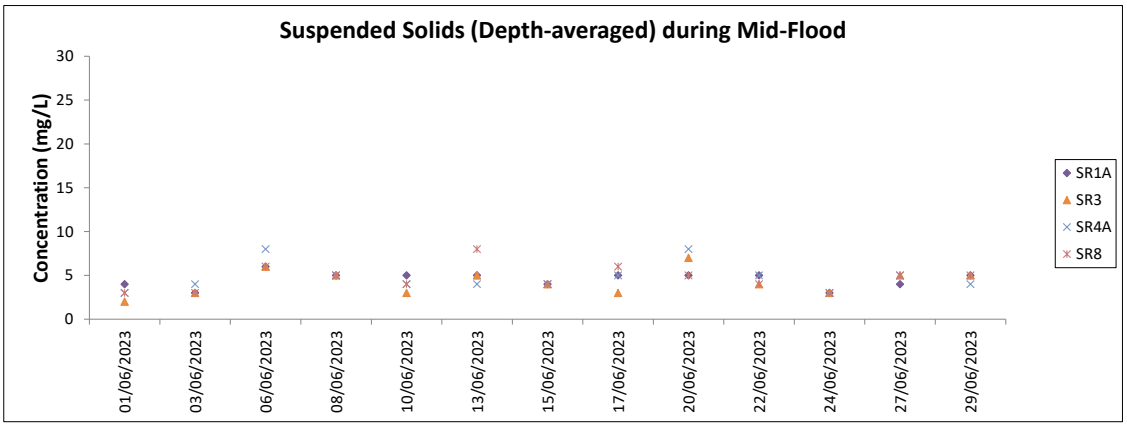




Note: The Action and Limit Level of suspended solids can be referred to Table 4.2 of the monthly EM&A report.







Note: The Action and Limit Level of suspended solids can be referred to Table 4.2 of the monthly EM&A report.
Major site activities carried out during the reporting period are summarized in Section 1.4 of the monthly EM&A report.
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
11-Apr-23	NEL	2	26.630	SPRING	32167	3RS ET	P
11-Apr-23	NEL	3	10.200	SPRING	32166	3RS ET	P
11-Apr-23	NEL	2	7.570	SPRING	32166	3RS ET	S
11-Apr-23	NEL	3	2.300	SPRING	32166	3RS ET	S
12-Apr-23	SWL	1	22.368	SPRING	32166	3RS ET	P
12-Apr-23	SWL	2	30.970	SPRING	32166	3RS ET	P
12-Apr-23	SWL	1	10.270	SPRING	32166	3RS ET	S
12-Apr-23	SWL	2	5.460	SPRING	32166	3RS ET	S
13-Apr-23	WL	2	10.107	SPRING	32166	3RS ET	P
13-Apr-23	WL	3	8.141	SPRING	32166	3RS ET	P
13-Apr-23	WL	2	4.103	SPRING	32166	3RS ET	S
13-Apr-23	WL	3	6.578	SPRING	32166	3RS ET	S
13-Apr-23	AW	3	4.900	SPRING	32166	3RS ET	P
14-Apr-23	SWL	2	44.965	SPRING	32166	3RS ET	P
14-Apr-23	SWL	3	9.510	SPRING	32166	3RS ET	P
14-Apr-23	SWL	2	13.425	SPRING	32166	3RS ET	S
14-Apr-23	SWL	3	2.000	SPRING	32166	3RS ET	S
18-Apr-23	AW	3	4.720	SPRING	32166	3RS ET	P
18-Apr-23	WL	3	19.170	SPRING	32166	3RS ET	P
18-Apr-23	WL	3	10.170	SPRING	32166	3RS ET	S
19-Apr-23	NEL	3	25.790	SPRING	32166	3RS ET	P
19-Apr-23	NEL	4	10.700	SPRING	32166	3RS ET	P
19-Apr-23	NEL	3	8.980	SPRING	32166	3RS ET	S
19-Apr-23	NEL	4	0.900	SPRING	32166	3RS ET	S
20-Apr-23	NWL	2	61.800	SPRING	32166	3RS ET	P
20-Apr-23	NWL	2	13.600	SPRING	32166	3RS ET	S
21-Apr-23	NWL	3	41.400	SPRING	32166	3RS ET	P
21-Apr-23	NWL	4	22.400	SPRING	32166	3RS ET	P
21-Apr-23	NWL	3	9.300	SPRING	32166	3RS ET	S
21-Apr-23	NWL	4	1.900	SPRING	32166	3RS ET	S
04-May-23	WL	2	9.370	SPRING	32166	3RS ET	P
04-May-23	WL	3	5.924	SPRING	32166	3RS ET	P
04-May-23	WL	2	4.130	SPRING	32166	3RS ET	S
04-May-23	WL	3	4.963	SPRING	32166	3RS ET	S
04-May-23	AW	2	4.790	SPRING	32166	3RS ET	P
09-May-23	NEL	2	20.000	SPRING	32166	3RS ET	P
09-May-23	NEL	3	17.600	SPRING	32166	3RS ET	P
09-May-23	NEL	2	6.500	SPRING	32166	3RS ET	S
09-May-23	NEL	3	3.100	SPRING	32166	3RS ET	S
10-May-23	NEL	2	2.640	SPRING	32166	3RS ET	P
10-May-23	NEL	3	32.710	SPRING	32166	3RS ET	P
10-May-23	NEL	4	1.700	SPRING	32166	3RS ET	P
10-May-23	NEL	2	1.980	SPRING	32166	3RS ET	S
10-May-23	NEL	3	8.370	SPRING	32166	3RS ET	S
11-May-23	NWL	2	14.500	SPRING	32166	3RS ET	P
11-May-23	NWL	3	48.500	SPRING	32166	3RS ET	P
11-May-23	NWL	2	2.100	SPRING	32166	3RS ET	S
11-May-23	NWL	3	9.800	SPRING	32166	3RS ET	S
15-May-23	SWL	2	53.890	SPRING	32166	3RS ET	P
15-May-23	SWL	2	16.110	SPRING	32166	3RS ET	S
16-May-23	NWL	2	29.700	SPRING	32166	3RS ET	P
16-May-23	NWL	3	34.100	SPRING	32166	3RS ET	P
16-May-23	NWL	2	6.400	SPRING	32166	3RS ET	S
16-May-23	NWL	3	5.000	SPRING	32166	3RS ET	S
18-May-23	SWL	2	48.250	SPRING	32166	3RS ET	P
18-May-23	SWL	3	4.660	SPRING	32166	3RS ET	P
18-May-23	SWL	2	15.050	SPRING	32166	3RS ET	S

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE	P/S
18-May-23	SWL	3	1.060	SPRING	32166	3RS ET	S
23-May-23	AW	3	4.630	SPRING	32166	3RS ET	P
23-May-23	WL	2	9.160	SPRING	32166	3RS ET	P
23-May-23	WL	3	10.106	SPRING	32166	3RS ET	P
23-May-23	WL	2	2.470	SPRING	32166	3RS ET	S
23-May-23	WL	3	7.890	SPRING	32166	3RS ET	S
1-Jun-23	SWL	1	6.440	SUMMER	32166	3RS ET	P
1-Jun-23	SWL	2	34.380	SUMMER	32166	3RS ET	P
1-Jun-23	SWL	3	12.900	SUMMER	32166	3RS ET	P
1-Jun-23	SWL	2	15.380	SUMMER	32166	3RS ET	S
1-Jun-23	SWL	3	1.000	SUMMER	32166	3RS ET	S
2-Jun-23	WL	2	16.884	SUMMER	32166	3RS ET	P
2-Jun-23	WL	2	8.320	SUMMER	32166	3RS ET	S
2-Jun-23	AW	1	4.790	SUMMER	32166	3RS ET	P
5-Jun-23	NWL	2	3.480	SUMMER	32166	3RS ET	P
5-Jun-23	NWL	3	49.220	SUMMER	32166	3RS ET	P
5-Jun-23	NWL	4	10.900	SUMMER	32166	3RS ET	P
5-Jun-23	NWL	3	9.600	SUMMER	32166	3RS ET	S
5-Jun-23	NWL	4	2.500	SUMMER	32166	3RS ET	S
8-Jun-23	SWL	2	0.700	SUMMER	32166	3RS ET	P
8-Jun-23	SWL	3	51.824	SUMMER	32166	3RS ET	P
8-Jun-23	SWL	4	1.013	SUMMER	32166	3RS ET	P
8-Jun-23	SWL	2	1.800	SUMMER	32166	3RS ET	S
8-Jun-23	SWL	3	13.880	SUMMER	32166	3RS ET	S
9-Jun-23	AW	2	4.650	SUMMER	32166	3RS ET	P
9-Jun-23	WL	1	1.930	SUMMER	32166	3RS ET	P
9-Jun-23	WL	2	14.782	SUMMER	32166	3RS ET	P
9-Jun-23	WL	1	2.240	SUMMER	32166	3RS ET	S
9-Jun-23	WL	2	5.948	SUMMER	32166	3RS ET	S
9-Jun-23	WL	3	0.300	SUMMER	32166	3RS ET	S
13-Jun-23	NWL	2	59.180	SUMMER	32166	3RS ET	P
13-Jun-23	NWL	3	3.100	SUMMER	32166	3RS ET	P
13-Jun-23	NWL	2	12.420	SUMMER	32166	3RS ET	S
14-Jun-23	NEL	2	37.440	SUMMER	32166	3RS ET	P
14-Jun-23	NEL	2	10.060	SUMMER	32166	3RS ET	S
20-Jun-23	NEL	2	33.080	SUMMER	32166	3RS ET	P
20-Jun-23	NEL	3	4.120	SUMMER	32166	3RS ET	P
20-Jun-23	NEL	2	10.200	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
12-Apr-23	1	1042	FP	5	SWL	2	366	ON	3RS ET	22.1836	113.9358	SPRING	NONE	P
12-Apr-23	2	1047	FP	1	SWL	2	20	ON	3RS ET	22.1789	113.9355	SPRING	NONE	P
12-Apr-23	3	1050	FP	2	SWL	1	205	ON	3RS ET	22.1732	113.9358	SPRING	NONE	P
12-Apr-23	4	1055	FP	4	SWL	1	95	ON	3RS ET	22.1660	113.9362	SPRING	NONE	P
12-Apr-23	5	1100	FP	4	SWL	1	47	ON	3RS ET	22.1591	113.9364	SPRING	NONE	P
12-Apr-23	6	1103	FP	1	SWL	1	78	ON	3RS ET	22.1554	113.9362	SPRING	NONE	P
12-Apr-23	7	1109	FP	2	SWL	1	149	ON	3RS ET	22.1469	113.9315	SPRING	NONE	S
12-Apr-23	8	1119	FP	1	SWL	1	22	ON	3RS ET	22.1586	113.9276	SPRING	NONE	P
12-Apr-23	9	1124	FP	4	SWL	1	54	ON	3RS ET	22.1661	113.9276	SPRING	NONE	P
12-Apr-23	10	1218	FP	1	SWL	1	157	ON	3RS ET	22.1444	113.9080	SPRING	NONE	P
12-Apr-23	11	1226	FP	4	SWL	1	205	ON	3RS ET	22.1563	113.9008	SPRING	NONE	S
12-Apr-23	12	1311	FP	3	SWL	1	53	ON	3RS ET	22.1824	113.8971	SPRING	NONE	P
13-Apr-23	1	1057	CWD	10	WL	3	623	ON	3RS ET	22.2416	113.8409	SPRING	PURSE SEINER	P
13-Apr-23	2	1127	CWD	9	WL	2	11	ON	3RS ET	22.2324	113.8294	SPRING	PURSE SEINER	P
13-Apr-23	3	1146	CWD	2	WL	2	268	ON	3RS ET	22.2237	113.8286	SPRING	NONE	P
13-Apr-23	4	1156	CWD	3	WL	3	11	ON	3RS ET	22.2188	113.8195	SPRING	NONE	S
13-Apr-23	5	1213	CWD	8	WL	3	355	ON	3RS ET	22.2148	113.8322	SPRING	NONE	P
14-Apr-23	1	1400	FP	1	SWL	2	9	ON	3RS ET	22.1593	113.8730	SPRING	NONE	S
18-Apr-23	1	1049	CWD	7	WL	3	26	ON	3RS ET	22.2459	113.8496	SPRING	NONE	S
18-Apr-23	2	1148	CWD	3	WL	3	296	ON	3RS ET	22.2141	113.8340	SPRING	NONE	P
18-Apr-23	3	1226	CWD	4	WL	3	282	ON	3RS ET	22.1962	113.8412	SPRING	NONE	P
04-May-23	1	1054	CWD	1	WL	2	409	ON	3RS ET	22.2451	113.8491	SPRING	NONE	S
04-May-23	2	1117	CWD	7	WL	3	130	ON	3RS ET	22.2324	113.8242	SPRING	NONE	S
04-May-23	3	1138	CWD	2	WL	3	179	ON	3RS ET	22.2321	113.8278	SPRING	NONE	P
04-May-23	4	1158	CWD	3	WL	3	335	ON	3RS ET	22.2241	113.8307	SPRING	NONE	P
04-May-23	5	1219	CWD	3	WL	3	163	ON	3RS ET	22.2143	113.8218	SPRING	NONE	P
04-May-23	6	1251	CWD	4	WL	3	212	ON	3RS ET	22.1968	113.8287	SPRING	NONE	S
04-May-23	7	1302	CWD	5	WL	3	379	ON	3RS ET	22.1962	113.8402	SPRING	NONE	P
15-May-23	1	1115	FP	2	SWL	2	44	ON	3RS ET	22.1744	113.9284	SPRING	NONE	P
18-May-23	1	1402	CWD	2	SWL	2	299	ON	3RS ET	22.1987	113.8785	SPRING	PURSE SEINER	P
18-May-23	2	1512	CWD	1	SWL	2	366	ON	3RS ET	22.1993	113.8596	SPRING	NONE	S
23-May-23	1	1116	CWD	4	WL	3	162	ON	3RS ET	22.2227	113.8306	SPRING	NONE	P

DATE	STG #	TIME	CWD/FP	GP SZ	AREA	BEAU	PSD	EFFORT	TYPE	DEC LAT	DEC LON	SEASON	BOAT ASSOC.	P/S
23-May-23	2	1145	CWD	1	WL	3	59	ON	3RS ET	22.2144	113.8338	SPRING	NONE	P
23-May-23	3	1216	CWD	3	WL	3	31	ON	3RS ET	22.1960	113.8410	SPRING	NONE	P
23-May-23	4	1231	CWD	5	WL	3	200	ON	3RS ET	22.1935	113.8425	SPRING	NONE	S
1-Jun-23	1	1318	FP	4	SWL	2	385	ON	3RS ET	22.1541	113.8882	SUMMER	NONE	P
1-Jun-23	2	1505	CWD	3	SWL	2	79	ON	3RS ET	22.1936	113.8492	SUMMER	NONE	P
2-Jun-23	1	1054	CWD	3	WL	2	591	ON	3RS ET	22.2417	113.8469	SUMMER	NONE	P
2-Jun-23	2	1112	CWD	1	WL	2	698	ON	3RS ET	22.2410	113.8323	SUMMER	NONE	P
2-Jun-23	3	1130	CWD	9	WL	2	30	ON	3RS ET	22.2327	113.8374	SUMMER	NONE	P
2-Jun-23	4	1153	CWD	1	WL	2	336	ON	3RS ET	22.2247	113.8372	SUMMER	NONE	S
2-Jun-23	5	1206	CWD	4	WL	2	100	ON	3RS ET	22.2237	113.8276	SUMMER	NONE	P
2-Jun-23	6	1217	CWD	4	WL	2	161	ON	3RS ET	22.2184	113.8204	SUMMER	NONE	S
2-Jun-23	7	1250	CWD	1	WL	2	1085	ON	3RS ET	22.2053	113.8213	SUMMER	NONE	P
2-Jun-23	8	1259	CWD	5	WL	2	153	ON	3RS ET	22.1964	113.8373	SUMMER	NONE	P
2-Jun-23	9	1332	CWD	2	SWL	2	N/A	OFF	3RS ET	22.1932	113.8510	SUMMER	PURSE SEINER	N/A
8-Jun-23	1	1446	CWD	1	SWL	3	223	ON	3RS ET	22.1958	113.8591	SUMMER	NONE	P
8-Jun-23	2	1457	CWD	4	SWL	3	321	ON	3RS ET	22.1892	113.8596	SUMMER	NONE	P
9-Jun-23	1	1058	CWD	2	WL	1	191	ON	3RS ET	22.2579	113.8376	SUMMER	NONE	S
9-Jun-23	2	1137	CWD	3	WL	2	105	ON	3RS ET	22.2325	113.8282	SUMMER	PURSE SEINER	P
9-Jun-23	3	1154	CWD	1	WL	2	580	ON	3RS ET	22.2291	113.8379	SUMMER	NONE	S
9-Jun-23	4	1203	CWD	3	WL	2	1060	ON	3RS ET	22.2243	113.8275	SUMMER	NONE	P
9-Jun-23	5	1253	CWD	6	WL	2	280	ON	3RS ET	22.2062	113.8240	SUMMER	NONE	P
9-Jun-23	6	1315	CWD	4	WL	2	100	ON	3RS ET	22.1981	113.8271	SUMMER	NONE	S
9-Jun-23	7	1328	CWD	1	WL	2	22	ON	3RS ET	22.1879	113.8407	SUMMER	NONE	P
13-Jun-23	1	1128	CWD	1	NWL	2	137	ON	3RS ET	22.3690	113.8779	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 430.048 km of survey effort was collected under Beaufort Sea State 3 or below with favourable visibility; total no. of 19 on-effort sightings and total number of 57 dolphins from on-effort sightings were collected under such condition. Calculation of the encounter rates in June 2023 are shown as below:

Encounter Rate by Number of Dolphin Sightings (STG) in June 2023

$$STG = \frac{19}{430.048} \times 100 = 4.42$$

Encounter Rate by Number of Dolphins (ANI) in June 2023

$$ANI = \frac{57}{430.048} \times 100 = 13.25$$

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

A total of 1289.928 km of survey effort was collected under Beaufort Sea State 3 or below with favourable visibility; total no. of 40 on-effort sightings and total number of 144 dolphins from on-effort sightings were collected under such condition. Calculation of the running quarterly encounter rates are shown as below:

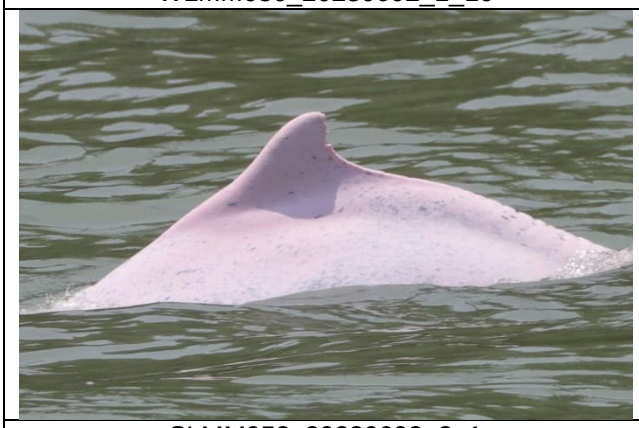
Running Quarterly Encounter Rate by Number of Dolphin Sightings (STG)

$$STG = \frac{40}{1289.928} \times 100 = 3.10$$

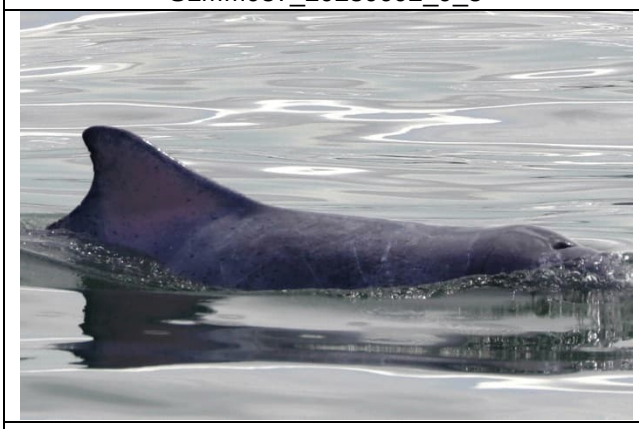
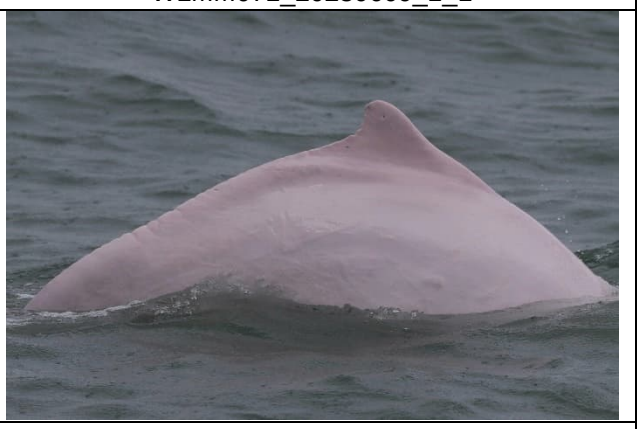
Running Quarterly Encounter Rate by Number of Dolphins (ANI)

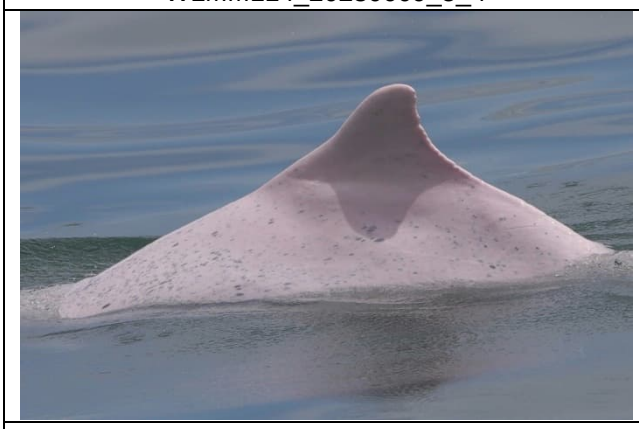
$$ANI = \frac{144}{1289.928} \times 100 = 11.16$$

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

	
SLMM003_20230601_2_3	SLMM010_20230601_2_6
	
WLMM007_20230601_2_4	WLMM062_20230602_1_5
	
WLMM086_20230602_1_10	NLMM040_20230602_3_3
	
SLMM052_20230602_3_1	WLMM077_20230602_3_8

	
WLMM079_20230602_3_1	WLMM188_20230602_3_2
	
SLMM052_20230602_5_2	WLMM079_20230602_5_4
	
WLMM103_20230602_5_5	WLMM147_20230602_5_7
	
WLMM071_20230602_6_3	NLMM063_20230602_8_1

	
SLMM007_20230602_8_4	SLMM073_20230602_8_2
	
WLMM030_20230602_8_2	WLMM043_20230602_8_3
	
SLMM037_20230602_9_3	WLMM071_20230609_1_1
	
WLMM168_20230609_1_2	NLMM001_20230609_2_6

	
SLMM029_20230609_3_3	NLMM020_20230609_5_3
	
SLMM010_20230609_5_3	SLMM070_20230609_5_1
	
WLMM114_20230609_5_4	WLMM118_20230609_5_5
	
WLMM159_20230609_5_9	NLMM013_20230613_1_2

CWD Land-based Theodolite Tracking Survey

CWD Groups by Survey Date

Date	Station	Start Time	End Time	Duration	Beaufort Range	Visibility	No. of Focal Follow Dolphin Groups Tracked	Dolphin Group Size Range
19/Jun/23	Lung Kwu Chau	8:54	14:54	6:00	2	1	1	1
26/Jun/23	Sha Chau	10:40	16:40	6:00	2	1	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, 5/F, Wah Wai Centre, 38-40 Au Pui Wan St., Fotan, Hong Kong
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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. : R-BC060025
Date of Issue : 06 June 2023
Page No. : 1 of 2

PART A - CUSTOMER INFORMATION

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

PART B - SAMPLE INFORMATION

Name of Equipment :	YSI ProDSS (Multi-Parameters)
Manufacturer :	YSI (a xylem brand)
Serial Number :	S/N: 16H104233
Date of Received :	02 June 2023
Date of Calibration :	02 June 2023
Date of Next Calibration :	01 September 2023
Request No. :	D-BC060025

PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

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

PART D - CALIBRATION RESULT

(1) pH value

Target (pH unit)	Display Reading (pH unit)	Tolerance	Result
4.00	4.07	0.07	Satisfactory
7.42	7.49	0.07	Satisfactory
10.01	10.09	0.08	Satisfactory

Tolerance of pH value should be less than ± 0.2 (pH unit)

(2) Temperature

Reading of Ref. thermometer (°C)	Display Reading (°C)	Tolerance	Result
10	10.0	0.0	Satisfactory
25	25.0	0.0	Satisfactory
45	45.0	0.0	Satisfactory

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

(3) Salinity

Expected Reading (g/L)	Display Reading (g/L)	Tolerance (%)	Result
10	10.09	0.90	Satisfactory
20	20.38	1.90	Satisfactory
30	30.33	1.10	Satisfactory

Tolerance of Salinity should be less than ± 10.0 (%)

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AUTHORIZED SIGNATORY:

LEE Chun-ning
Assistant Manager (Chemical Testing)

專業化驗有限公司
QUALITY PRO TEST-CONSULT LIMITED
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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. : R-BC060025
Date of Issue : 06 June 2023

(4) Dissolved oxygen

Expected Reading (mg/L)	Display Reading (mg/L)	Tolerance	Result
7.12	7.15	0.03	Satisfactory
4.61	4.39	-0.22	Satisfactory
1.57	1.27	-0.30	Satisfactory
0.16	0.56	0.40	Satisfactory

Tolerance of Dissolved oxygen should be less than ± 0.5 (mg/L)

(5) Turbidity

Expected Reading (NTU)	Display Reading (NTU)	Tolerance (%)	Result
0	0.10	--	Satisfactory
10	9.84	-1.60	Satisfactory
20	20.11	0.50	Satisfactory
100	107.60	7.60	Satisfactory
800	798.22	-0.20	Satisfactory

Tolerance of Turbidity should be less than ± 10.0 (%)

(6) Conductivity

Expected Reading (µS/cm at 25°C)	Display Reading	Tolerance (%)	Result
146.9	148.7	1.23	Satisfactory
1412	1491	5.59	Satisfactory
12890	12677	-1.65	Satisfactory
58670	59440	1.31	Satisfactory
111900	113112	1.08	Satisfactory

Tolerance of Conductivity should be less than ± 10.0 (%)

Remark(s)

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

·The results relate only to the calibrated equipment as received

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

·"Displayed Reading" denotes the figure shown on item under calibration/ checking regardless of equipment precision or significant figures.

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

--- END OF REPORT ---

專業化驗有限公司
QUALITY PRO TEST-CONSULT LIMITED
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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. : R-BC060026
Date of Issue : 06 June 2023

PART A - CUSTOMER INFORMATION

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

PART B - SAMPLE INFORMATION

Name of Equipment :	YSI ProDSS (Multi-Parameters)
Manufacturer :	YSI (a xylem brand)
Serial Number :	S/N: 21K101468
Date of Received :	02 June 2023
Date of Calibration :	02 June 2023
Date of Next Calibration :	01 September 2023
Request No. :	D-BC060026

PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

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

PART D - CALIBRATION RESULT

(1) pH value

Target (pH unit)	Display Reading (pH unit)	Tolerance	Result
4.00	4.07	0.07	Satisfactory
7.42	7.52	0.10	Satisfactory
10.01	10.11	0.10	Satisfactory

Tolerance of pH value should be less than ± 0.2 (pH unit)

(2) Temperature

Reading of Ref. thermometer (°C)	Display Reading (°C)	Tolerance	Result
10	10.0	0.0	Satisfactory
25	25.0	0.0	Satisfactory
45	45.0	0.0	Satisfactory

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

(3) Salinity

Expected Reading (g/L)	Display Reading (g/L)	Tolerance (%)	Result
10	10.10	1.00	Satisfactory
20	20.26	1.30	Satisfactory
30	30.29	0.97	Satisfactory

Tolerance of Salinity should be less than ± 10.0 (%)

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AUTHORIZED SIGNATORY:

LEE Chun-ning
Assistant Manager (Chemical Testing)

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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No. : R-BC060026
Date of Issue : 06 June 2023

(4) Dissolved oxygen

Expected Reading (mg/L)	Display Reading (mg/L)	Tolerance	Result
7.12	7.10	-0.02	Satisfactory
4.61	4.35	-0.26	Satisfactory
1.57	1.24	-0.33	Satisfactory
0.16	0.54	0.38	Satisfactory

Tolerance of Dissolved oxygen should be less than ± 0.5 (mg/L)

(5) Turbidity

Expected Reading (NTU)	Display Reading (NTU)	Tolerance (%)	Result
0	0.10	--	Satisfactory
10	9.91	-0.90	Satisfactory
20	20.09	0.40	Satisfactory
100	105.37	5.40	Satisfactory
800	799.11	-0.10	Satisfactory

Tolerance of Turbidity should be less than ± 10.0 (%)

(6) Conductivity

Expected Reading (µS/cm at 25°C)	Display Reading	Tolerance (%)	Result
146.9	147.9	0.68	Satisfactory
1412	1499	6.16	Satisfactory
12890	13208	2.47	Satisfactory
58670	59326	1.12	Satisfactory
111900	112987	0.97	Satisfactory

Tolerance of Conductivity should be less than ± 10.0 (%)

Remark(s)

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

·The results relate only to the calibrated equipment as received

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

·"Displayed Reading" denotes the figure shown on item under calibration/ checking regardless of equipment precision or significant figures.

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

--- END OF REPORT ---

Appendix E. Status of Environmental Permits and Licenses

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

Contract No.	Description	Location	Permit/ Reference No.	Status
3206	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-RS0347-23	Valid from 3 May 2023 to 1 Nov 2023
	Bill Account for disposal	Works area of 3206	A/C 7026398	Approval granted from EPD on 16 Nov 2016
3302	Notification of Construction Work under APCO	Works area of 3302	490404	Receipt acknowledged by EPD on 10 Mar 2023
		Staging area of 3302	490407	Receipt acknowledged by EPD on 10 Mar 2023
			490408	Receipt acknowledged by EPD on 10 Mar 2023
			490409	Receipt acknowledged by EPD on 10 Mar 2023
	Registration as Chemical Waste Producer	Works area of 3302	5296-951-C4331-01	Completion of Registration on 4 Jan 2019
	Discharge License under WPCO	Works area of 3302	WT00034539-2019	Valid from 11 Mar 2020 to 31 Mar 2025
		Works area of 3302	WT00034541-2019	Valid from 14 Oct 2019 to 31 Oct 2024
	Bill Account for disposal	Works area of 3302	A/C 7032881	Approval granted from EPD on 8 Jan 2019
	Construction Noise Permit (General Works)	Works area of 3302	GW-RS0301-23	Valid from 20 Apr 2023 to 19 Oct 2023
		Works area of 3302	GW-RS0336-23	Valid from 3 May 2023 to 2 Nov 2023
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
	Construction Noise Permit (General Works)	Works area of 3305	GW-RS0423-23	Valid from 1 Jun 2023 to 30 Nov 2023

Contract No.	Description	Location	Permit/ Reference No.	Status
3306	Registration as Chemical Waste Producer	Works area of 3306	8335-951-C4434-01	Completion of Registration on 1 Apr 2020
	Bill Account for disposal	Works area of 3306	A/C 7035868	Approval granted from EPD on 27 Nov 2019
3307	Registration as Chemical Waste Producer	Works area of 3307	5211-951-P3379-01	Completion of Registration on 8 Jun 2020
	Bill Account for disposal	Works area of 3307	A/C 7037129	Approval granted from EPD on 5 May 2020
3308	Bill Account for disposal	Works area of 3308	A/C 7038988	Approval granted from EPD on 24 Nov 2020
	Construction Noise Permit (General Works)	Works area of 3308	GW-RS0305-23	Valid from 17 Apr 2023 to 16 Oct 2023
3310	Notification of Construction Work under APCO	Works area of 3310	485057	Receipt acknowledged by EPD on 10 Dec 2021
	Registration as Chemical Waste Producer	Works area of 3310	5213-951-C4682-01	Completion of Registration on 21 Dec 2021
		Works area of 3310	5213-000-C3317-27	Completion of Registration on 31 Aug 2022
	Discharge License under WPCO	Works area of 3310	WT00039654-2021	Valid from 31 Dec 2021 to 31 Dec 2026
	Bill Account for disposal	Works area of 3310	A/C 7042793	Approval granted from EPD on 4 Jan 2022
	Construction Noise Permit (General Works)	Works area of 3310 (Existing airport)	GW-RS0421-23	Valid from 24 May 2023 to 21 Nov 2023
		Works area of 3310 (Reclamation area)	GW-RS0502-23	Valid from 19 Jun 2023 to 15 Dec 2023
		Tsing Chau Wan	GW-RW0340-23	Valid from 26 May 2023 to 25 Nov 2023
3402	Bill Account for disposal	Works area of 3402	A/C 7032577	Approval granted from EPD on 11 Jan 2019
3403	Notification of Construction Work under APCO	Works area of 3403	485039	Receipt acknowledged by EPD on 06 Oct 2022
		Works area of 3403 (with Area 17 and Area 15)	475369	Receipt acknowledged by EPD on 28 Dec 2021
	Registration as Chemical Waste Producer	Works area of 3403	WPN 5213-951-S4218-01	Completion of Registration on 9 Jan 2020
	Discharge License under WPCO	Works area of 3403	WT00035841-2020	Valid from 5 Jun 2020 to 30 Jun 2025 Approved variation on 9 Jun 2022
	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-RS0136-23	Valid from 1 Mar 2023 to 31 Aug 2023

Contract No.	Description	Location	Permit/ Reference No.	Status
3404	Bill Account for disposal	Works area of 3404	A/C 7035158	Approval granted from EPD on 12 Sep 2019
3405	Notification of Construction Work under APCO	Works area of 3405	484926	Receipt acknowledged by EPD on 30 Sep 2022
	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-RS0438-23	Valid from 1 Jun 2023 to 29 Nov 2023
3408	Notification of Construction Work under APCO	Works area of 3408	461958	Receipt acknowledged by EPD on 17 Nov 2020
		3408 CSA-CBP	488443	Receipt acknowledged by EPD on 13 Jan 2023
	Specified Process Licence (Cement Works)	3408 CSA-CBP	L-3-268(1)	Valid from 22 May 2023 to 21 May 2025
	Registration as Chemical Waste Producer	Works area of 3408	WPN 5218-951-B2621-01	Completion of Registration on 16 Jul 2021
	Discharge License under WPCO	Works area of 3408	WT00038836-2021	Valid from 27 Sep 2021 to 30 Sep 2026
	Bill Account for disposal	Works area of 3408	A/C 7039063	Approval granted from EPD on 2 Dec 2020
	Construction Noise Permit (General Works)	Works area of 3408	GW-RS0107-23	Valid from 16 Feb 2023 to 31 Jul 2023 Cancelled on 1 Jun 2023
		Works area of 3408	GW-RS0448-23	Valid from 1 Jun 2023 to 29 Nov 2023
	Construction Noise Permit (Special Case)	Works area of 3408	GW-RS0332-23	Valid from 23 Apr 2023 to 16 Oct 2023
3508	Notification of Construction Work under APCO	Works area of 3508	459017	Receipt acknowledged by EPD on 27 Aug 2020
			459469	Receipt acknowledged by EPD on 4 Sep 2020
			493055	Receipt acknowledged by EPD on 30 May 2023
	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

Contract No.	Description	Location	Permit/ Reference No.	Status
			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-RS1127-22	Valid from 2 Jan 2023 to 27 Jun 2023
		Works area of 3508	GW-RS0513-23	Valid from 28 Jun 2023 to 27 Dec 2023
		Works area of 3508	GW-RS1133-22	Valid from 6 Jan 2023 to 5 Jun 2023
		Works area of 3508	GW-RS0437-23	Valid from 6 Jun 2023 to 5 Dec 2023
		Works area of 3508	GW-RS0229-23	Valid from 24 Mar 2023 to 21 Sep 2023
	Construction Noise Permit (Special Case)	Works area of 3508	GW-RS0379-23	Valid from 14 May 2023 to 30 Jun 2023
		Works area of 3508	GW-RS0361-23	Valid from 11 May 2023 to 17 Oct 2023
		Works area of 3508	GW-RS0390-23	Valid from 14 May 2023 to 24 Jun 2023
		Works area of 3508	GW-RS0286-23	Valid from 8 Apr 2023 to 30 Jun 2023
		Works area of 3508	GW-RS0373-23	Valid from 14 May 2023 to 17 Oct 2023
		Works area of 3508	GW-RS0376-23	Valid from 14 May 2023 to 31 Jul 2023
3601	Notification of Construction Work under APCO	Works area of 3601	451762	Receipt acknowledged by EPD on 10 Dec 2019
	Registration as Chemical Waste Producer	Works area of 3601	WPN 7119-951-C4421-01	Completion of Registration on 9 Jan 2020
	Bill Account for disposal	Works area of 3601	A/C 7029991	Approval granted from EPD on 1 Feb 2018
	Construction Noise Permit (General Works)	Works area of 3601	GW-RS0356-23	Valid from 8 May 2023 to 7 Nov 2023
3602	Notification of Construction Work under APCO	Works area of 3602	421278	Receipt acknowledged by EPD on 18 Sep 2017
	Registration as Chemical Waste Producer	Works area of 3602	WPN 5296-951-N2673-01	Completion of Registration on 9 Oct 2017
		Site office of 3602	WPN 5296-951-N2673-02	Completion of Registration on 11 Dec 2017
	Bill Account for disposal	Works area of 3602	A/C 7028942	Approval granted from EPD on 6 Oct 2017
3603	Notification of Construction Work under APCO	Site office of 3603	433604	Receipt acknowledged by EPD on 16 May 2018

Contract No.	Description	Location	Permit/ Reference No.	Status
	Registration as Chemical Waste Producer	Site office of 3603	5296-951-S4069-01	Completion of Registration on 22 Jan 2018
	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-RS0357-23	Valid from 23 May 2023 to 22 Nov 2023
3721	Notification of Construction Work under APCO	Works area of 3721	448657	Receipt acknowledged by EPD on 02 Sep 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-RS0048-23	Valid from 30 Jan 2023 to 30 Jun 2023
		Works area of 3721	GW-RS0491-23	Valid from 19 Jun 2023 to 15 Dec 2023
3728	Registration as Chemical Waste Producer	Works area of 3728	WPN 5111-951-S3467-03	Completion of Registration on 7 May 2021
	Discharge License under WPCO	Works area of 3728	WT00037809-2021	Valid from 27 Jul 2021 to 31 Jul 2026
	Bill Account for disposal	Works area of 3728	A/C 7039409	Approval granted from EPD on 22 Jan 2021
3733	Notification of Construction Work under APCO	Works area of 3733	472772	Receipt acknowledged by EPD on 18 Oct 2021
	Registration as Chemical Waste Producer	Works area of 3733	474728	Receipt acknowledged by EPD on 9 Dec 2021
	Bill Account for disposal	Works area of 3733	7041945	Approval granted from EPD on 21 Oct 2021
	Construction Noise Permit (General Works)	Works area of 3733	GW-RS0395-23	Valid from 18 May 2023 to 15 Nov 2023
3801	Notification of Construction Work under APCO	Works area of 3801	488993	Receipt acknowledged by EPD on 2 Feb 2023
		Stockpiling area of 3801	454269	Receipt acknowledged by EPD on 12 Mar 2020
			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 area of 3801	WT00041429-2022	Valid from 16 Aug 2022 to 31 Aug 2027
		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

Contract No.	Description	Location	Permit/ Reference No.	Status
	Construction Noise Permit (General Works)	Works area of 3801	GW-RS0096-23	Valid from 5 Feb 2023 to 2 Aug 2023
3802	Notification of Construction Work under APCO	Works area of 3802	458122	Receipt acknowledged by EPD on 14 Jul 2020
	Registration as Chemical Waste Producer	Works area of 3802	WPN 5218-951-G2895-01	Completion of Registration on 28 Aug 2020
		Works area of 3802 (Existing airport)	WPN 5218-951-G2945-01	Completion of Registration on 29 Sep 2020
	Discharge License under WPCO	Works area of 3802	WT00037032-2020	Valid from 25 May 2021 to 31 May 2026
		Works area of 3802 (Existing airport)	WT00039092-2021	Valid from 30 Nov 2021 to 31 Nov 2026
			WT00043143-2023	Valid from 17 Mar 2023 to 31 Mar 2028
			WT00041807-2022	Valid from 3 Oct 2022 to 31 Oct 2027
	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-RS0253-23	Valid from 30 Mar 2023 to 27 Sep 2023 Superseded by GW-RS0503-23
		Works area of 3802	GW-RS0503-23	Valid from 19 Jun 2023 to 15 Dec 2023
		Works area of 3802 (Existing airport)	GW-RS1061-22	Valid from 5 Dec 2022 to 4 Jun 2023 Superseded by GW-RS0432-23
		Works area of 3802 (Existing airport)	GW-RS0432-23	Valid from 5 Jun 2023 to 4 Dec 2023
		Works area of 3802 (Ventilation building)	GW-RS0072-23	Valid from 1 Feb 2023 to 26 Jul 2023
3804	Notification of Construction Work under APCO	Works area of 3804	487452	Receipt acknowledged by EPD on 14 Dec 2022
	Construction Noise Permit (General Works)	Works area of 3804 (3804/1A)	GW-RS0363-23	Valid from 11 May 2023 to 05 Nov 2023
	Registration as Chemical Waste Producer	Works area of 3804	WPN 5213-951-B2686-01	Completion of Registration on 4 Jan 2023
	Bill Account for disposal	Works area of 3804	A/C 7046121	Approval granted from EPD on 3 Jan 2023
3805	Notification of Construction Work under APCO	Works area of 3805	490065	Receipt acknowledged by EPD on 2 Mar 2023
	Registration as Chemical Waste Producer	Works area of 3805	WPN 5218-951-C4788-01	Completion of Registration on 31 Mar 2023

Contract No.	Description	Location	Permit/ Reference No.	Status
	Bill Account for disposal	Works area of 3805	A/C 7046828	Approval granted from EPD on 10 Mar 2023
	Discharge License under WPCO	Works area of 3805	WT00043804-2023	Valid from 15 Jun 2023 to 30 Jun 2028
	Construction Noise Permit (General Works)	Works area of 3805	GW-RS0359-23	Valid from 2 May 2023 to 1 Nov 2023 Superseded by GW-RS0509-23
		Works area of 3805	GW-RS0509-23	Valid from 22 Jun 2023 to 20 Dec 2023
3901A	Notification of Construction Work under APCO	Works area of 3901A	466883	Receipt acknowledged by EPD on 26 Apr 2021
	Air Pollution Control (Furnaces, Ovens and Chimneys) (Installation and Alteration) Regulations	Works area of 3901A	EP/RS/00004430 53	Approval granted on 11 Dec 2020
	Specified Process license under APCO	Works area of 3901A	L-3-261(1)	Valid from 14 Sep 2020 to 13 Sep 2024
	Landfill Disposal of Waste Concrete from Batching Plant	Works area of 3901A	EP195/01/18	Valid from 10 Feb 2023 to 9 Nov 2023
	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/C 7037889	Approval granted from EPD on 20 Jul 2020
	Construction Noise Permit (General Works)	Works area of 3901A	GW-RS0050-23	Valid from 5 Feb 2023 to 4 Aug 2023
3901B	Air Pollution Control (Furnaces, Ovens and Chimneys) (Installation and Alteration) Regulations	Works area of 3901B	EP/RS/00004384 88	Approval granted on 26 Jun 2020
	Specified Process license under APCO	Works area of 3901B	L-3-262(1)	Valid from 17 Nov 2020 to 16 Nov 2024
	Registration as Chemical Waste Producer	Works area of 3901B	WPN 5218-951-G2880-01	Completion of Registration on 17 Jan 2020
	Bill Account for disposal	Works area of 3901B	A/C 7032417	Approval granted from EPD on 13 Nov 2018
	Construction Noise Permit (General Works)	Works area of 3901B	GW-RS0070-23	Valid from 5 Feb 2023 to 4 Aug 2023
3913	Specified Process license under APCO	Works area of 3913	L-15-040 (1)	Valid from 29 Mar 2021 to 28 Mar 2025

Contract No.	Description	Location	Permit/ Reference No.	Status
	Registration as Chemical Waste Producer	Works area of 3913	5213-951-S4405-01	Completion of Registration on 22 Jul 2022, updated on 29 Mar 2023
	Bill Account for disposal	Works area of 3913	A/C 7044632	Approval granted from EPD on 18 Aug 2022
	Construction Noise Permit (General Works)	Works area of 3913	GW-RS0181-23	Valid from 20 Mar 2023 to 19 Sep 2023

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	1
	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	59	2	2

Appendix G. Data of SkyPier HSF Movements to/from Macau (between 1 and 30 June 2023)

Data of SkyPier HSF Movements to/from Macau (between 1 and 30 June 2023)

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [YFT – Macao (Taipa)]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
02-Jun	12:05	8S912	YFT	Arrival	11.6	-	-
02-Jun	12:40	8S193	YFT	Departure	10.9	-	-
06-Jun	11:59	8S912	YFT	Arrival	12.7	-	-
06-Jun	12:42	8S193	YFT	Departure	12.3	-	-
07-Jun	11:55	8S912	YFT	Arrival	12.6	-	-
07-Jun	12:45	8S193	YFT	Departure	12.7	-	-
09-Jun	11:59	8S912	YFT	Arrival	12.3	-	-
09-Jun	12:44	8S193	YFT	Departure	13.6	-	-
13-Jun	11:54	8S912	YFT	Arrival	13.1	-	-
13-Jun	12:44	8S193	YFT	Departure	12.8	-	-
14-Jun	12:05	8S912	YFT	Arrival	11.7	-	-
14-Jun	12:44	8S193	YFT	Departure	12	-	-
16-Jun	12:03	8S912	YFT	Arrival	13.7	-	-
16-Jun	12:43	8S193	YFT	Departure	12.4	-	-
20-Jun	12:03	8S912	YFT	Arrival	12	-	-
20-Jun	12:45	8S193	YFT	Departure	11.8	-	-
21-Jun	12:05	8S912	YFT	Arrival	11.9	-	-
21-Jun	12:42	8S193	YFT	Departure	11.6	-	-
23-Jun	12:01	8S912	YFT	Arrival	12	-	-
23-Jun	12:45	8S193	YFT	Departure	12.5	-	-
27-Jun	11:57	8S912	YFT	Arrival	11.8	-	-
27-Jun	12:42	8S193	YFT	Departure	11.5	-	-
28-Jun	11:58	8S912	YFT	Arrival	0 **	-	-
28-Jun	12:43	8S193	YFT	Departure	12.1**	-	-
30-Jun	12:04	8S912	YFT	Arrival	11.6	-	-
30-Jun	12:44	8S193	YFT	Departure	11.7	-	-

** Insufficient or no AIS data for speed calculation.

Follow-up on instantaneous speeding

Referring to the data of SkyPier HSF movements in June 2023, no instantaneous speeding (i.e. a sudden change in speed at over 15 knots for a short period of time) within the SCZ was recorded.

Two HSFs with insufficient transmission of AIS data were received in June 2023. Vessel captains were requested to provide the AIS plots to indicate the vessels entered the SCZ though the gate access points with no speeding in the SCZ.