

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

Construction Phase Monthly EM&A Report No.61 (For January 2021)

February 2021

Airport Authority Hong Kong

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This Monthly EM&A Report No. 61 has been reviewed and certified by

the Environmental Team Leader (ETL) in accordance with

Condition 3.5 of Environmental Permit No. EP-489/2014.

In Kory

Certified by:

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

Date

11 February 2021



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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

11 February 2021

Dear Sir,

Contract No. 3102 **3RS Independent Environmental Checker Consultancy Services**

Submission of Monthly EM&A Report No. 61 (January 2021)

Reference is made to the Environmental Team's submission of the Monthly EM&A Report No. 61 under Condition 3.5 of the Environmental Permit No. EP-489/2014 certified by the ET Leader on 11 February 2021.

We write to verify the captioned submission in accordance with the requirement stipulated in Condition 3.5 of EP-489/2014.

Should you have any query, please feel free to contact the undersigned at 3922 9376.

Yours faithfully, AECOM Asia Co. Ltd.

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Jackel Law Independent Environmental Checker

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Abbreviations

200	Three Dunway System		
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		
BMP	Brothers Marine Park		
C&D	Construction and Demolition		
CAP	Contamination Assessment Plan		
CAR	Contamination Assessment Report		
CNP	Construction Noise Permit		
CWD	Chinese White Dolphin		
DCM	Deep Cement Mixing		
DEZ	Dolphin Exclusion Zone		
DO	Dissolved Oxygen		
EAR	Ecological Acoustic Recorder		
EIA	Environmental Impact Assessment		
EM&A	Environmental Monitoring & Audit		
EP	Environmental Permit		
EPD	Environmental Protection Department		
ET	Environmental Team		
FCZ	Fish Culture Zone		
HDD	Horizontal Directional Drilling		
HKBCF	Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary		
	Crossing Facilities		
HKIA	Hong Kong International Airport		
HOKLAS	Hong Kong Laboratory Accreditation Scheme		
HSF	High Speed Ferry		
HVS	High Volume Sampler		
IEC	Independent Environmental Checker		
LKC	Lung Kwu Chau		
MTCC	Marine Traffic Control Centre		
ММНК	Mathe Tranc Control Centre 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		
1 / \\VI			

PM	Project Manager	
SC	Sha Chau	
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 61st Construction Phase Monthly EM&A Report for the Project which summarises the monitoring results and audit findings of the EM&A programme during the reporting period from 1 to 31 January 2021.

Key Activities in the Reporting Period

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

EM&A Activities Conducted in the Reporting Period

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

Monitoring Activities	Number of Sessions
1-hour Total Suspended Particulates (TSP) air quality monitoring	30
Noise monitoring	16
Water quality monitoring	13
Vessel line-transect surveys for Chinese White Dolphin (CWD) monitoring	2
Land-based theodolite tracking survey effort for CWD monitoring	2

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

Snapshots of EM&A Activities in the Reporting Period



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 chromium, obtained during the reporting period were within the corresponding Action and Limit Levels stipulated in the EM&A programme. Relevant investigation and follow-up actions will be conducted according to the EM&A programme if the corresponding Action and Limit Levels are triggered. For chromium, one of the testing results triggered the relevant Action Level, and the corresponding investigation was conducted accordingly. The investigation findings concluded that the case was not related to the Project. To conclude, the construction activities in the reporting period did not introduce adverse impact to all water quality sensitive receivers.

Summary of Upcoming Key Issues

Reclamation Works:

Contract 3206 Main Reclamation Works

- Land-based ground improvement works;
- Seawall construction;
- Marine filling; and
- Sorting and reuse of inert waste from other 3RS contracts.

Airfield Works:

Contract 3301 North Runway Crossover Taxiway

- Cable ducting works; and
- Subgrade compaction and paving works.

Contract 3302 Eastern Vehicular Tunnel Advance Works

- Cable laying and ducting works;
- Trench excavation works;
- Backfilling and reinstatement works; and
- Piling and structure works.

Contract 3303 Third Runway and Associated Works

- Footing and utilities work;
- Pilling work;
- Construction of approach light; and
- Cable laying and ducting works.

Contract 3307 Fire Training Facility

- Excavation; and
- Drainage works.

Third Runway Concourse:

Contract 3403 New Integrated Airport Centres Building and Civil Works

- Architectural, Builder's Work and Finishing works;
- Temporary work for roof lifting; and
- Underground utilities construction.

Contract 3405 Third Runway Concourse Foundation and Substructure Works

- Plant mobilisation;
- Pre-drilling; and
- Pilling work.

Terminal 2 Expansion:

Contract 3503 Terminal 2 Foundation and Substructure Works

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

Contract 3508 Terminal 2 Expansion Works

- Excavation and footing construction;
- Temporary road construction;
- Pilling work;
- Pre-drilling; and
- Builders' works.

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

Contract 3601 New Automated People Mover System (TRC Line)

• Concreting work and rebar fixing.

Contract 3602 Existing APM System Modification Works

- Modification works at APM depot; and
- Concreting work.

Construction Support (Facilities):

Contract 3721 Construction Support Infrastructure Works

- Excavation and backfilling;
- Laying of drainage pipes and ducts; and
- Road works.

Contract 3722 Construction Support Facilities

- Foundation works;
- Erection of superstructure; and
- Site establishment.

Airport Support Infrastructure:

Contract 3801 APM and BHS Tunnels on Existing Airport Island

- Construction of box culvert, working platform and ventilation ducts;
- Cofferdam for shaft; and
- Site clearance.

Contract 3802 APM and BHS Tunnels and Related Works

- Installation of storm drain pipes;
- Pre-drilling;
- Foundation works; and
- Site establishment.

Construction Support (Services / Licences):

Contract 3901A/ B Concrete Batching Facility

- Installation of plant equipment; and
- Plant operation.

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^		\checkmark	No breach of Limit Level was recorded.	Nil
Breach of Action Level^		\checkmark	No breach of Action Level was recorded.	Nil
Complaint Received	\checkmark		A complaint regarding dust issue was received on 25 Jan 2021.	The complaint is under investigation. Findings will be reported in the next Monthly EM&A Report.
			A complaint regarding dust issue was received on 25 Jan 2021.	The complaint is under investigation. Findings will be reported in the next Monthly EM&A Report.
			A complaint regarding refuelling was received on 25 Jan 2021.	The complaint is under investigation. Findings will be reported in the next Monthly EM&A Report.
Notification of any summons and status of prosecutions		\checkmark	No notification of summons or prosecution was received.	Nil
Change that affect the EM&A		\checkmark	There was no change to the construction works that may affect the EM&A.	Nil

Note:

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

1 Introduction

1.1 Background

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

Airport Authority Hong Kong (AAHK) commissioned Mott MacDonald Hong Kong Limited (MMHK) to undertake the role of Environmental Team (ET) for carrying out the Environmental Monitoring & Audit (EM&A) works during the construction phase of the Project in accordance with the Updated EM&A Manual (the Manual) submitted under EP Condition 3.1¹. AECOM Asia Company Limited (AECOM) was employed by AAHK as the Independent Environmental Checker (IEC) for the Project.

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

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

The updated overall phasing programme of all construction works was presented in Appendix A of the Construction Phase Monthly EM&A Report No. 7 and the contract information was presented in Appendix A of Construction Phase Monthly EM&A Report No. 58.

1.2 Scope of this Report

This is the 61st Construction Phase Monthly EM&A Report for the Project which summarises the key findings of the EM&A programme during the reporting period from 1 to 31 January 2021.

1.3 **Project Organisation**

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

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

Table 1.1: Contact Information of Key Personnel

Party	Position	Name	Telephone
Project Manager's Representative (Airport Authority Hong Kong)	Principal Manager, Environmental Compliance, Sustainability	Lawrence Tsui	2183 2734
Environmental Team (ET) (Mott MacDonald Hong Kong Limited)	Environmental Team Leader	Terence Kong	2828 5919
	Deputy Environmental Team Leader	Heidi Yu	2828 5704
	Deputy Environmental Team Leader	Daniel Sum	2585 8495
Independent Environmental Checker (IEC) (AECOM Asia Company Limited)	Independent Environmental Checker	Jackel Law	3922 9376
	Deputy Independent Environmental Checker	Roy Man	3922 9141
Reclamation Works:			
Party	Position	Name	Telephone
Contract 3206 Main Reclamation Works	Project Manager	Alan Mong	3763 1352
(ZHEC-CCCC-CDC Joint Venture)	Environmental Officer	Kwai Fung Wong	3763 1452

Party Position Name Telephone Contract 3301 North **Deputy Project Director** Kin Hang Chung 9800 0048 Runway Crossover Taxiway (FJT-CHEC-ZHEC Joint **Environmental Officer** Joe Wong 6182 0351 Venture) Dickey Yau 5699 4503 **Project Manager** Contract 3302 Eastern Vehicular Tunnel Advance Works **Environmental Officer** Dennis Ho 5645 0563 (China Road and Bridge Corporation) Contract 3303 Third **Project Manager** Andrew Keung 6277 6628 Runway and Associated Works **Environmental Officer** Max Chin 6447 5707 (SAPR Joint Venture) Contract 3307 Fire Training Steven Meredith Project Manager 6109 1813 Facility **Environmental Officer** Albert Chan 9700 1083 (Paul Y. Construction Company Limited)

Third Runway Concourse:

Party	Position	Name	Telephone
Contract 3403 New	Project Manager	Alice Leung	9220 3162
Integrated Airport Centres Building and Civil Works (Sun Fook Kong Construction Limited)	Environmental Officer	Alpha Chia	9626 1114
Contract 3405 Third Runway Concourse Foundation and	Project Manager	Francis Choi	9423 3469
Substructure Works (China Road and Bridge Corporation – Bachy Soletanche Group Limited – LT Sambo Co., Ltd. Joint Venture)	Environmental Officer	Jacky Lai	9028 8975

Terminal 2 (T2) Expansion:

Party	Position	Name	Telephone	
Contract 3503 Terminal 2 Foundation and	Project Manager	Eric Wu	3973 1718	
Substructure Works (Leighton – Chun Wo Joint Venture)	Environmental Officer	Gomez Yuen	9098 7807	
Contract 3508 Terminal 2 Expansion Works	Project Director	Richard Ellis	6201 5637	
(Gammon Engineering & Construction Company Limited)	Environmental Officer	Gena Tsang	9511 2283	

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

Party	Position	Name	Telephone
Contract 3601 New Automated People Mover System (TRC Line)	Project Manager	Hongdan Wei	158 6180 9450
(CRRC Puzhen Bombardier Transportation Systems Limited and CRRC Nanjing Puzhen Co., Ltd. Joint Venture)	Environmental Officer	Jasmine Tso	5968 6926
Contract 3602 Existing APM System Modification Works	Project Manager	Kunihiro Tatecho	9755 0351
(Niigata Transys Co., Ltd.)	Environmental Officer	Yolanda Gao	5399 3509
Contract 3603 3RS Baggage	Project Manager	К С Но	9272 9626
Handling System (VISH Consortium)	Environmental Officer	Eric Ha	9215 3432

Construction Support (Facilities):

Party	Position	Name	Telephone
Contract 3721 Construction Support Infrastructure Works	Site Agent	Thomas Lui	9011 5340
(China State Construction Engineering (Hong Kong) Ltd.)	Environmental Officer	Xavier Lam	9493 2944
Contract 3722 Western Support Area – Construction Support Facilities (Tapbo Construction Company Limited and Konwo Modular House Limited Joint Venture)	Deputy Project Director	Philip Kong	9049 3161
	Environmental Officer	Sampson Lo	9752 9118

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	Tony Wong	9642 8672
	Environmental Officer	Federick Wong	9842 2703
Contract 3802 APM and BHS Tunnels and Related Works (Gammon Engineering & Construction Company Limited)	Project Director	John Adams	6111 6989
	Environmental Officer	Andy Leung	9489 0035

Construction Support (Services / Licences):

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

1.4 Summary of Construction Works

The key activities of the Project carried out in the reporting period included reclamation works and land-based works. Works in the reclamation areas included marine filling, seawall and facilities construction, together with runway and associated works. Land-based works on existing airport island involved mainly airfield works, foundation and substructure work for Terminal 2 expansion, modification and tunnel work for APM and BHS systems, and preparation work for utilities, with activities include site establishment, site office construction, road and drainage works, cable ducting, demolition of existing facilities, piling, and excavation works.

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

1.5 Summary of EM&A Programme Requirements

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

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

Parameters	Status
Air Quality	
Baseline Monitoring	The baseline air quality monitoring result has been reported in Baseline Monitoring Report and submitted to EPD under EP Condition 3.4.
Impact Monitoring	On-going
Noise	
Baseline Monitoring	The baseline noise monitoring result has been reported in Baseline Monitoring Report and submitted to EPD under EP Condition 3.4.
Impact Monitoring	On-going
Water Quality	
General Baseline Water Quality Monitoring for reclamation, water etting and field joint works	The baseline water quality monitoring result has been reported in Baseline Water Quality Monitoring Report and submitted to EPD under EP Condition 3.4.
General Impact Water Quality Monitoring for reclamation, water etting and field joint works	On-going
Initial Intensive Deep Cement Mixing (DCM) Water Quality Monitoring	The Initial Intensive DCM Monitoring Report was submitted and approved by EPD in accordance with the Detailed Plan on DCM.
Regular DCM Water Quality Monitoring	Due to the completion of all marine-based DCM works within December 2020, regular DCM monitoring is ceased at all monitoring stations starting from 14 January 2021 and would be resumed if there are marine-based DCM works in the coming future.
Sewerage and Sewage Treatment	
Methodology for carrying out annual sewage flow monitoring for concerned gravity sewer	The proposed methodology of the annual sewage flow monitoring will be prepared and submitted to EPD at least one year before commencement of operation of 3RS.
Details of the routine H ₂ S monitoring system for the sewerage system of 3RS	The details of the routine H_2S monitoring system will be prepared and submitted to EPD at least one year before commencement of operation of 3RS.
Waste Management	
Waste Monitoring	On-going
Land Contamination	
Supplementary Contamination Assessment Plan (CAP)	The Supplementary CAP was submitted to EPD pursuant to EP Condition 2.20.
Contamination Assessment Report (CAR) for Golf Course	The CAR for Golf Course was submitted to EPD.
	s The CARs for Terminal 2 Emergency Power Supply System Nos.1 (Volumes 1 and 2), 2, 3, 4 and 5 were submitted to EPD.
Terrestrial Ecology	
Pre-construction Egretry Survey Plan	The Egretry Survey Plan was submitted and approved by EPD under EP Condition 2.14.
Ecological Monitoring	The terrestrial ecological monitoring at Sheung Sha Chau was completed in January 2019.
Marine Ecology	
Pre-Construction Phase Coral Dive Survey	The Coral Translocation Plan was submitted and approved by EPD under EP Condition 2.12.
Coral Translocation	The coral translocation was completed.

Parameters	Status
Post-Translocation Coral Monitoring	The post-translocation monitoring programme according to the Coral Translocation Plan was completed in April 2018.
Chinese White Dolphins (CWD)	
Vessel Survey, Land-based Theodolite Tracking and Passive Acoustic Monitoring (PAM)	
Baseline Monitoring	Baseline CWD results were reported in the CWD Baseline Monitoring Report and submitted to EPD in accordance with EP Condition 3.4.
Impact Monitoring	On-going
Landscape & Visual	
Landscape & Visual Plan	The Landscape & Visual Plan was submitted to EPD under EP Condition 2.18
Baseline Monitoring	The baseline landscape & visual monitoring result has been reported in Baseline Monitoring Report and submitted to EPD under EP Condition 3.4.
Impact Monitoring	On-going
Environmental Auditing	
Regular site inspection	On-going
Marine Mammal Watching Plan (MMWP) implementation measures	On-going
Dolphin Exclusion Zone (DEZ) Plan implementation measures	On-going
SkyPier High Speed Ferries (HSF) implementation measures	On-going
Construction and Associated Vessels Implementation measures	On-going
Complaint Hotline and Email channel	On-going
Environmental Log Book	On-going

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

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

- Two skipper training session provided by ET: 6 and 20 January 2021;
- Sixteen environmental management meetings for EM&A review with works contracts: 7, 8, 12, 15, 18, 20, 21, 26, 27, 28 and 29 January 2021.

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

2 Air Quality Monitoring

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

Table 2.1: Locations of Impact Air Quality Monitoring Stations

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

2.1 Action and Limit Levels

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

Table 2.2: Action and Limit Levels of Air Quality Monitoring

Monitoring Station	Action Level (µg/m ³)	Limit Level (µg/m³)
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**.

Equipment	Brand and Model	Last Calibration Date	Calibration Certificate Provided in
Portable direct reading dust meter (Laser dust monitor)	SIBATA LD-3B-2 (Serial No. 296098)	20 Oct 2020	Monthly EM&A Report No. 58, Appendix E
	SIBATA LD-3B-1 (Serial No. 597337)	27 May 2020	Monthly EM&A Report No. 57, Appendix D

2.3 Monitoring Methodology

2.3.1 Measuring Procedure

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

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

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

2.3.2 Maintenance and Calibration

The portable direct reading dust meter is calibrated every year against high volume sampler (HVS) to check the validity and accuracy of the results measured by direct reading method. The calibration record of the HVS provided in Appendix E of Construction Phase Monthly EM&A Report No. 58, and the calibration certificates of portable direct reading dust meters listed in **Table 2.3** are valid in the reporting period.

2.4 Summary of Monitoring Results

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

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

Table 2.4: Summary of Air Quality Monitoring Results

Monitoring Station	1-hr TSP Concentration Range (μg/m ³)	Action Level (μg/m³)	Limit Level (µg/m³)
AR1A	16 - 78	306	500
AR2	16 - 78	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.

Noise Monitoring 3

Noise monitoring in the form of 30-minute measurements of Leq, L10, and L90 levels was conducted once per week between 0700 and 1900 on normal weekdays at four representative monitoring stations in the vicinity of noise sensitive receivers in Tung Chung and villages in North Lantau in accordance with the Manual. Table 3.1 describes the details of the monitoring stations. Figure 2.1 shows the locations of the monitoring stations.

Table 3.1: Locations of Impact Noise Monitoring Stations

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

Note

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

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

3.1 **Action and Limit Levels**

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

Table 3.2: Action and Limit Levels for Noise Monitoring

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

Note:

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

3.2 **Monitoring Equipment**

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

Table 3.3: Noise Monitoring Equipment

Equipment	Brand and Model	Last Calibration Date	Calibration Certificate Provided in
Integrated Sound Level Meter	Rion NL-52 (Serial No. 00998505)	24 Mar 2020	Monthly EM&A Report No. 52, Appendix D
	Rion NL-52 (Serial No. 01287679)	21 Jun 2020	Monthly EM&A Report No. 54, Appendix E
Acoustic Calibrator	Casella CEL-120/1 (Serial No. 2383737)	12 Sep 2020	Monthly EM&A Report No. 57, Appendix D
	Castle GA607 (Serial No. 040162)	4 Jul 2020	Monthly EM&A Report No. 55, Appendix D

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 were corrected with reference to the baseline monitoring levels.
- g. Observations were recorded when high intrusive noise (e.g. dog barking, helicopter noise) was observed during the monitoring.

3.3.2 Maintenance and Calibration

The maintenance and calibration procedures are summarised below:

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

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

3.4 Summary of Monitoring Results

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

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

Noise Level Range, dB(A)	Limit Level, dB(A)	
Leq (30mins)	Leq (30mins)	
64 - 73	75	
60 - 61	70 ⁽²⁾	
53 - 67	75	
62 - 68	75	
•	Leq (30mins) 64 - 73 60 - 61 53 - 67	Leq (30mins) Leq (30mins) 64 - 73 75 60 - 61 70 ⁽²⁾ 53 - 67 75

Table 3.4: Summary of Construction Noise Monitoring Results

Notes:

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

(2) Reduced to 65dB(A) during school examination periods at NM4. No school examination took place during this reporting period.

No complaints were received from any sensitive receiver that triggered the Action Level. All monitoring results were also within the corresponding Limit Levels at all monitoring stations in the reporting period.

3.5 Conclusion

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

4 Water Quality Monitoring

Water quality monitoring of DO, pH, temperature, salinity, turbidity, suspended solids (SS), total alkalinity, chromium, and nickel was conducted three days per week, at mid-ebb and mid-flood tides, at a total of 23 water quality monitoring stations, comprising 12 impact (IM) stations, 8 sensitive receiver (SR) stations and 3 control (C) stations in the vicinity of water quality sensitive receivers around the airport island in accordance with the Manual. The purpose of water quality monitoring at the IM stations is to promptly capture any potential water quality impact from the Project before it could become apparent at sensitive receivers (represented by the SR stations). **Table 4.1** describes the details of the monitoring stations. **Figure 4.1** shows the locations of the monitoring stations.

Due to the completion of all marine-based DCM works within December 2020, regular DCM monitoring was ceased at all monitoring stations starting from 14 January 2021 and would be resumed if there are marine-based DCM works in the coming future.

Monitoring Station			Coordinates	Parameters		
		Easting	Northing			
C1	Control Station	804247	815620	General Parameters		
C2	Control Station	806945	825682	DO, pH, Temperature,		
C3 ⁽³⁾	Control Station	817803	822109	Salinity, Turbidity, SS		
IM1	Impact Station	807132	817949	DCM Parameters		
IM2	Impact Station	806166	818163	Total Alkalinity, Heavy		
IM3	Impact Station	805594	818784	Metals ⁽²⁾		
IM4	Impact Station	804607	819725			
IM5	Impact Station	804867	820735			
IM6	Impact Station	805828	821060			
IM7	Impact Station	806835	821349			
IM8	Impact Station	808140	821830			
IM9	Impact Station	808811	822094			
IM10	Impact Station	809794	822385			
IM11	Impact Station	811460	822057			
IM12	Impact Station	812046	821459			
SR1A ⁽¹⁾	Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities (HKBCF) Seawater Intake for cooling	812660	819977	<u>General Parameters</u> DO, pH, Temperature, Salinity, Turbidity, SS		
SR2 ⁽³⁾	Planned marine park / hard corals at The Brothers / Tai Mo To	814166	821463	<u>General Parameters</u> DO, pH, Temperature, Salinity, Turbidity, SS		
				<u>DCM Parameters</u> Total Alkalinity, Heavy Metals ⁽²⁾⁽⁴⁾		

Table 4.1: Monitoring Locations and Parameters of Impact Water Quality Monitoring

Monitoring Station	Description		Coordinates	Parameters		
SR3	Sha Chau and Lung Kwu Chau Marine Park / fishing and spawning grounds in North Lantau	807571	822147	<u>General Parameters</u> DO, pH, Temperature, Salinity, Turbidity, SS		
SR4A	Sha Lo Wan	807810	817189			
SR5A	San Tau Beach SSSI	810696	816593			
SR6A ⁽⁵⁾	Tai Ho Bay, Near Tai Ho Stream SSSI	814739	817963	General Parameters DO, pH, Temperature,		
SR7	Ma Wan Fish Culture Zone (FCZ)	823742	823636	Salinity, Turbidity, SS		
SR8 ⁽⁶⁾	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) Details of selection criteria for the two heavy metals for regular DCM monitoring refer to the Detailed Plan on Deep Cement Mixing available on the dedicated 3RS website (http://env.threerunwaysystem.com/en/epsubmissions.html). DCM specific water quality monitoring parameters (total alkalinity and heavy metals) were only conducted at C1 to C3, SR2, and IM1 to IM12.
- (3) According to the Baseline Water Quality Monitoring Report, C3 station is not adequately representative as a control station of impact/ SR stations during the flood tide. The control reference has been changed from C3 to SR2 from 1 September 2016 onwards.
- (4) Total alkalinity and heavy metals results are collected at SR2 as a control station for regular DCM monitoring.
 (5) As the access to SR6 was obstructed by the construction activities and temporary structures for Tung Chung
- New Town Extension, the monitoring location has been relocated to SR6A starting from 8 August 2019.
 (6) The monitoring location for SR8 is subject to further changes due to silt curtain arrangements and the progressive relocation of this seawater intake.

4.1 Action and Limit Levels

In accordance with the Manual, baseline water quality levels at the above-mentioned representative water quality monitoring stations were established as presented in the Baseline Water Quality Monitoring Report. The Action and Limit Levels of general water quality monitoring and regular DCM monitoring stipulated in the EM&A programme for triggering the relevant investigation and follow-up procedures under the programme are provided in **Table 4.2**. The control and impact stations during ebb tide and flood tide for general water quality monitoring and regular DCM monitoring are presented in **Table 4.3**.

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

Parameters		Action Level (Al	_)	Limit Level (LL)		
	Limit Levels for genera	I water quality mor	itoring and regular	r DCM monitorii	ng	
General DO in mg/l (Surface, Water Middle & Bottom) Quality Monitoring	Surface and Middle 4.5mg/l		Surface and Middle 4.1mg/l 5mg/l for Fish Culture Zone (SR7) only			
		Bottom 3.4mg/l		Bottom 2.7mg/l		
	Suspended Solids 23 or 120% of (SS) in mg/l upstream control	37	or 130% of upstream control			
	Turbidity in NTU	22.6	station at the same tide of the	36.1	station at the same tide of the	
Regular	Total Alkalinity in ppm	95	same day,	99	same day,	
DCM Monitoring ⁽⁶⁾ Representative Heavy Metals for regular DCM monitoring (Chromium) in µg/l Representative Heavy Metals for regular DCM monitoring (Nickel) in µg/l	Heavy Metals for regular DCM monitoring	0.2	whichever is higher	0.2	whichever is higher	
	Heavy Metals for regular DCM monitoring (Nickel) in	3.2	_	3.6		
Action and I	imit Levels SR1A					
SS (mg/l))		33		42		
Action and L	imit Levels SR8					
SS (mg/l)		52		60		

Notes:

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

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

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

(4) Details of selection criteria for the two heavy metals for regular DCM monitoring refer to the Detailed Plan on Deep Cement Mixing available on the dedicated 3RS website (<u>http://env.threerunwaysystem.com/en/ep-submissions.html</u>)

(5) The Action and Limit Levels for the two representative heavy metals chosen will be the same as that for the intensive DCM monitoring.

(6) Due to the completion of all marine-based DCM works within December 2020, regular DCM monitoring was ceased at all monitoring stations starting from 14 January 2021 and would be resumed if there are marinebased DCM works in the coming future.

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

Control Station Impact Stations

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

Note:

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

4.2 Monitoring Equipment

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

Table 4.4: Water Quality Monitoring Equipment

Equipment	Brand and Model	Last Calibration Date	Calibration Certificate Provided in
Multifunctional Meter (measurement of DO, pH, temperature, salinity and turbidity)	YSI 6920V2 (Serial No. 0001C6A7)	22 Oct 2020 (1)	Monthly EM&A Report No. 58, Appendix E
	YSI ProDSS (Serial No. 17E100747)	22 Oct 2020 (1)	Monthly EM&A Report No. 58, Appendix E
	YSI ProDSS (Serial No. 17H105557)	2 Dec 2020	Monthly EM&A Report No. 60, Appendix D
	YSI ProDSS (Serial No. 18A104824)	2 Dec 2020	Monthly EM&A Report No. 60, Appendix D
	YSI ProDSS (Serial No. 15M100005)	18 Jan 2021	Appendix D
	YSI ProDSS (Serial No. 16H104234)	18 Jan 2021	Appendix D
Digital Titrator (measurement of total alkalinity)	Titrette Bottle-top Burette, 50ml (Serial No. 10N64701)	30 Nov 2020	Monthly EM&A Report No. 60, Appendix D

Note:

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

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

Table 4.5: Other Monitoring Equipment

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

4.3 Monitoring Methodology

4.3.1 Measuring Procedure

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

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

4.3.2 Maintenance and Calibration

Calibration of In-situ Instruments

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

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

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

4.3.3 Laboratory Measurement / Analysis

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

Parameters	Instrumentation	Analytical Method	Reporting Limit
SS	S Analytical Balance		2mg/l
Heavy Metals			
Chromium (Cr)	ICP-MS	USEPA 6020A	0.2µg/l
Nickel (Ni)	ICP-MS	USEPA 6020A	0.2µg/l

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

4.4 Summary of Monitoring Results

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

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

For chromium, one of the testing results triggered the corresponding Action Level, and investigation was conducted accordingly.

Table 4.7 presents the summary of the chromium compliance status at IM stations during midflood for the reporting period.

	IM1	IM2	IM3	IM4	IM5	IM6	IM7	IM8	IM9	IM10	IM11	IM12
02/01/2021												
05/01/2021												
07/01/2021												
09/01/2021												
12/01/2021												
14/01/2021												
16/01/2021												
19/01/2021												
21/01/2021												
23/01/2021												
26/01/2021												
28/01/2021												
30/01/2021												
No. of result												
triggering Action	0	0	0	0	0	0	0	0	0	0	1	0
or Limit Level												

Table 4.7: Summary of Chromium Compliance Status (Mid-Flood Tide)

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					
	Upstream station with respect to the Project during the respective tide based on dominant tidal flow					

One of the monitoring results triggered the corresponding Action Level on 2 January 2021. In accordance with Event and Action Plan stipulated in the Manual, IEC and Contractor were informed when the corresponding Action Level was triggered.

The case occurred at a monitoring station upstream of the Project during flood tide. Chromium is one of the DCM regular monitoring parameters. However, no DCM work was conducted when monitoring was carried out at this monitoring station. Therefore, the case was considered unlikely due to the Project.

4.5 Conclusion

During the reporting period, it is noted that the vast majority of monitoring results were within their corresponding Action and Limit Levels, while only one result triggered the corresponding Action Level, and investigation was conducted accordingly.

Based on the investigation findings, the result that triggered the corresponding Action Level was 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 case appeared to be due to natural fluctuation or other sources not related to the Project.

Nevertheless, as part of the EM&A programme, the construction methods and mitigation measures for water quality will continue to be monitored and opportunities for further enhancement will continue to be explored and implemented where possible, to strive for better protection of water quality and the marine environment.

In the meantime, the contractors were reminded to implement and maintain all mitigation measures during weekly site inspection and regular environmental management meetings. These include maintaining mitigation measures properly for reclamation works including marine filling and seawall construction as recommended in the Manual.

5 Waste Management

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

5.1 Action and Limit Levels

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

Table 5.1: Action and Limit Levels for Construction Waste)
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Monitoring Stations	Action Level	Limit Level		
Construction Area	When one valid documented complaint is received	Non-compliance of the WMP, contract-specific WMPs, any statutory and contractual requirements		

5.2 Waste Management Status

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

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

Based on updated information provided by contractors, construction waste generated in the reporting period is summarised in **Table 5.2**. Proactive measures have been undertaken during the re-configuration of T2 building. The contractor has established the recycling strategy for C&D materials with proper planning and design to maximize recycling and reuse. Dedicated recyclers were employed for different kinds of recyclable materials by the contractor, and ET and IEC have carried out site visit to recyclers' facilities to review recycling process. Recycling materials before leaving the site are weighted by a weight bridge and monitored by CCTV system. Dedicated areas for sorting of materials are established on site. Recyclable materials such as steel, reinforcement bar, structural steel, aluminum, copper, other metals and glass are sorted on-site and transported off-site for recycling. ET and IEC have carried out site audits regularly and reviewed the trip ticket system.

Table 5.2: Construction Waste Statistics

	C&D ⁽¹⁾ Material Stockpiled for Reuse or Recycle (m ³)	Reused in the Project	Reused in other Projects	Transferred to	Chemical Waste (kg)	Chemical Waste (I)	General Refuse (tonne)
January 2021 ⁽²⁾⁽³⁾	10,125	29,692	0	5,780	0	0	1,696

Notes:

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

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

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

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

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

5.3 Marine Sediment Management

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

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

Chinese White Dolphin Monitoring 6

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.

Vaypoint	Easting	Northing	Waypoint	Easting	Northing
		NE			
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
		NV	VL		
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
		A	N		
1W	804733	818205	2W	805045	816912
1E	806708	818017	2E	805960	816633
		W	Ľ		
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			
		SV	VL		
1S	802494	803961	6S	807467	801137
10 1N	802494	806174	6N	807467	808458
2S	803489	803280	75	808553	800329
20 2N	803489	806720	70 7N	808553	807377
3S	804484	802509	85	809547	800338
30 3N	804484	807048	8N	809547	807396
4S	805478	802105	95	810542	800423
4N	805478	807556	9N	810542	807462

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

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

6.2.2 Land-based Theodolite Tracking Survey

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

Table 6.3: Land-based Theodolite Survey Station Details

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

6.3 CWD Monitoring Methodology

6.3.1 Small Vessel Line-transect Survey

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

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

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

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

All data collected on both primary and secondary transect lines were used for analysis of sighting distribution, group size, activities including association with fishing boat, and mother-calf pairs. Only on-effort data collected under 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 11, 12, 15, 18, 19, 20, 26 and 27 January 2021, covering all transects in NEL, NWL, AW, WL and SWL survey areas for twice.

A total of around 441.35km of survey effort was collected from these surveys and around 97.4% of the survey effort was being conducted under favourable weather condition (i.e. Beaufort Sea State 3 or below with favourable visibility). Details of the survey effort are given in **Appendix C**.

Sighting Distribution

In January 2021, 18 sightings with 75 dolphins were sighted. All these sightings are on-effort records under favourable weather condition (i.e. Beaufort Sea State 3 or below with favourable visibility). Details of cetacean sightings are presented in **Appendix C**.

Distribution of all CWD sightings recorded in January 2021 is illustrated in **Figure 6.3**. In NWL including AW transects, the majority of the sightings was around Sha Chau and Lung Kwu Chau Marine Park. In WL, CWD sightings were clustered at the waters around Tai O and Fan Lau. In SWL, most CWD sightings were recorded at the relatively off-shore waters of the central and western part of the survey area. No sightings of CWD were recorded in NEL.

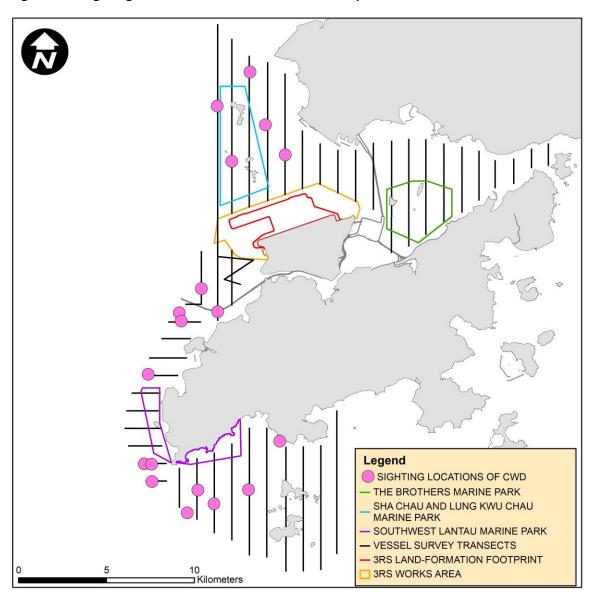


Figure 6.3: Sightings Distribution of Chinese White Dolphins

Remarks: (1) Please note that there are 18 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 data from December 2020. They included the number of dolphin sightings per 100 km survey effort (STG) and total number of dolphins per 100 km survey effort (ANI) in the whole survey area (i.e. NEL, NWL, AW, WL and SWL). In the calculation of dolphin encounter rates, only survey data collected under favourable weather condition (i.e. Beaufort Sea State 3 or below with favourable visibility) were used. The formulae used for calculation of the encounter rates are shown below:

Encounter Rate by Number of Dolphin Sightings (STG)

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

Encounter Rate by Number of Dolphins (ANI)

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

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

In January 2021, a total of around 429.99 km of survey effort were conducted under Beaufort Sea State 3 or below with favourable visibility, whilst a total number of 18 on-effort sightings with 75 dolphins were sighted under such condition. Calculation of the encounter rates for the month are shown in **Appendix C**.

For the running quarter of the reporting period (i.e., from November 2020 to January 2021), a total of around 1229.77 km of survey effort were conducted under Beaufort Sea State 3 or below with favourable visibility, whilst a total number of 47 on-effort sightings and a total number of 146 dolphins from on-effort sightings were obtained under such condition. Calculation of the running quarterly encounter rates are shown in **Appendix C**.

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

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

	Encounter Rate (STG)	Encounter Rate (ANI)
January 2021	4.19	17.44
Running Quarter from November 2020 to January 2021 ⁽¹⁾	3.82	11.87
Action Level	Running quarterly ⁽¹⁾ ST	⁻ G < 1.86 & ANI < 9.35

Note: (1) Running quarterly encounter rates STG & ANI were calculated from data collected in the reporting period and the two preceding survey months, i.e. the data from November 2020 to January 2021, containing six sets of transect surveys for all monitoring areas. Action Level will be triggered if both STG and ANI fall below the criteria.

Group Size

In January 2021, 18 groups of 75 dolphins in total were sighted, and the average group size of CWDs was 4.2 dolphins per group. Sightings with medium group size (i.e. 3-9 dolphins) are dominant. There was one CWD sighting with large group size (i.e. 10 or more dolphins) recorded which was spotted in NWL.

Activities and Association with Fishing Boats

Three sightings of CWDs were recorded engaging in feeding activities in January 2021. One of these sightings was observed in association with operating gillnetter in SWL during the reporting period.

Mother-calf Pair

In January 2021, four CWD sightings were recorded with the presence of mother-and-unspotted juvenile pair(s).

6.4.2 Photo Identification

In January 2021, a total number of 41 different CWD individuals were identified for totally 60 times. A summary of photo identification works is presented in **Table 6.5**. Representative photos of these individuals are given in **Appendix C**.

Individual ID	Date of Sighting (dd-mmm-yy)	Sighting Group No.	Area	Individual ID	Date of Sighting (dd-mmm-yy)	Sighting Group No.	Area
NLMM001	19-Jan-21	1	NWL	SLMM066	26-Jan-21	8	SWL
NLMM009	19-Jan-21	2	NWL	WLMM001	20-Jan-21	1	NWL
		3	NWL		27-Jan-21	1	WL
		4	NWL			3	WL
NLMM020	20-Jan-21	2	NWL	WLMM006	18-Jan-21	2	WL
NLMM021	19-Jan-21	2	NWL	WLMM008	27-Jan-21	5	WL
		3	NWL	WLMM028	18-Jan-21	2	WL
NLMM023	19-Jan-21	1	NWL	WLMM029	18-Jan-21	2	WL
	20-Jan-21	2	NWL	WLMM040	27-Jan-21	5	WL
NLMM027	19-Jan-21	1	NWL	WLMM052	20-Jan-21	2	NWL
NLMM039	20-Jan-21	2	NWL	WLMM055	27-Jan-21	1	WL
NLMM052	19-Jan-21	1	NWL			3	WL
	20-Jan-21	2	NWL	WLMM067	20-Jan-21	1	NWL
NLMM055	19-Jan-21	1	NWL	WLMM071	19-Jan-21	1	NWL
NLMM063	19-Jan-21	1	NWL		20-Jan-21	1	NWL
NLMM075	19-Jan-21	1	NWL	WLMM079	20-Jan-21	1	NWL
NLMM076	20-Jan-21	1	NWL	WLMM107	20-Jan-21	1	NWL
SLMM012	15-Jan-21	2	SWL		27-Jan-21	1	WL
SLMM014	15-Jan-21	3	SWL			3	WL
SLMM022	27-Jan-21	5	WL	WLMM114	15-Jan-21	2	SWL
SLMM031	18-Jan-21	2	WL		27-Jan-21	5	WL
	26-Jan-21	8	SWL	WLMM131	26-Jan-21	8	SWL
SLMM035	27-Jan-21	5	WL		27-Jan-21	4	WL
SLMM037	15-Jan-21	2	SWL	WLMM136	20-Jan-21	2	NWL
SLMM049	27-Jan-21	5	WL	WLMM141	20-Jan-21	1	NWL
SLMM052	27-Jan-21	5	WL	WLMM147	20-Jan-21	1	NWL
SLMM058	20-Jan-21	1	NWL	WLMM149	20-Jan-21	1	NWL
	27-Jan-21	1	WL		27-Jan-21	1	WL
		3	WL			3	WL
SLMM060	26-Jan-21	2	SWL		•		
		7	SWL				

Table 6.5: Summar	y of Photo	Identification
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6.4.3 Land-based Theodolite Tracking Survey

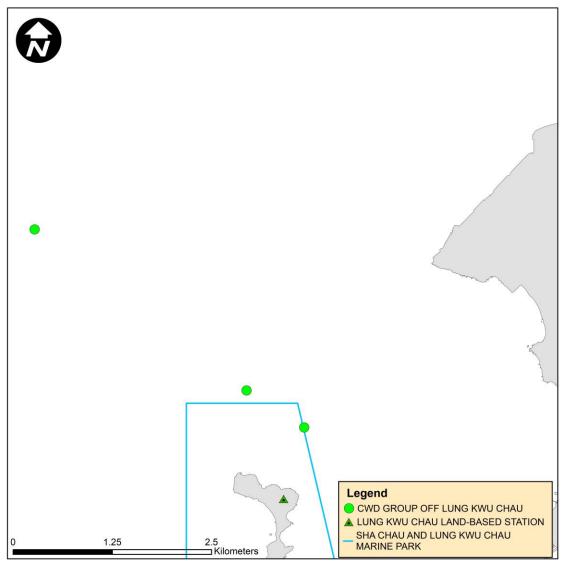
Survey Effort

Land-based theodolite tracking surveys were conducted at LKC on 15 January 2021 and at SC on 27 January 2021, with a total of two days of land-based theodolite tracking survey effort accomplished in this reporting period. Three CWD groups were tracked from Lung Kwu Chau station during the survey. 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 group tracked at LKC station during land-based theodolite tracking survey in January 2021 were depicted in **Figure 6.4**. No CWD group was sighted from SC station in this reporting month.

Land-based Station	No. of Survey Sessions	Survey Effort (hh:mm)	No. of CWD Groups Sighted	CWD Group Sighting per Survey Hour
Lung Kwu Chau	1	6:00	3	0.5
Sha Chau	1	6:00	0	0
TOTAL	2	12:00	3	0.25

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

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



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

6.5 Progress Update on Passive Acoustic Monitoring

Underwater acoustic monitoring using Passive Acoustic Monitoring (PAM) should be undertaken during land formation related construction works. In this reporting period, the Ecological Acoustic Recorder (EAR) was retrieved on 14 January 2021 for annual data analysis. Acoustic data would be reviewed to give an indication of CWDs occurrence patterns and to obtain anthropogenic noise information simultaneously. To improve the length of deployments, speed of data gathering, and

efficiency in data analysis, the C-POD and its successor the F-POD which can record the click trains of cetaceans automatically has been proposed in replacement of the previous EAR at the same location. The C-POD has also been adopted by the AFCD for data collection on night-time usage of dolphins at the SCLKCMP and the BMP. The F-POD has been deployed on 30 December 2020 and positioned at south of Sha Chau Island inside the SCLKCMP (**Figure 6.5**). Analysis would involve use of proprietary software for objective automated data analyses and experienced analysts to perform visual validation for assessment of dolphin detection. As the period of data collection and analysis takes about four months, PAM results could not be reported in monthly intervals but report for supplementing the annual CWD monitoring analysis.

6.6 Site Audit for CWD-related Mitigation Measures

During the reporting period, silt curtains were in place by the contractor for marine filling and bored piling, in which dolphin observers were deployed by contractor in accordance with the MMWP. Overall, 2 to 4 dolphin observation stations and teams of at least two dolphin observers were deployed by the contractors for continuous monitoring of the DEZ for bored piling and seawall construction works in accordance with the DEZ Plan. Trainings for the proposed dolphin observers on the implementation of MMWP and DEZ monitoring were provided by the ET prior to the aforementioned works, with a cumulative total of 703 individuals being trained and the training records kept by the ET. From the contractors' MMWP observation records, no dolphin or other marine mammals were observed within or around the silt curtains. As for DEZ monitoring records, no dolphin or other marine mammals were 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 7.2** and **Section 7.3** respectively.

6.7 Timing of Reporting CWD Monitoring Results

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

6.8 Summary of CWD Monitoring

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

7 Environmental Site Inspection and Audit

7.1 Environmental Site Inspection

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

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

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

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

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

7.2 Landscape and Visual Mitigation Measures

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

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

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

Table 7.1: Landscape and Visual – Construction Phase Audit Summary

Landscape and Visual Mitigation Measures during Construction	Implementation Status	Relevant Contract(s) in the Reporting Period
CM1- The construction area and contractor's temporary works areas shall be minimised to avoid impacts on adjacent landscape.	The implementation of mitigation measures were checked by ET during weekly site inspection and clarified by the Contractors during the monthly Environmental Management Meetings. Implementation of the measures CM5, CM6 and CM7 by	
CM2 – Reduction of construction period to practical minimum.	Contractors was observed.	
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	Tree Protection Specifications have been provided in the relevant Contract Specifications respectively for implementation by the Contractors under the Project.	3302, 3503, 3602, 3801
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	The Contractors' performance on the implementation of the trees maintenance and protection measures were observed and checked by the ET weekly during construction period.	3508, 3802 (To be implemented)

Landscape and Visual Mitigation Measures during Construction	Implementation Status	Relevant Contract(s) in the Reporting Period
CM9 – Trees unavoidably affected by the works shall be transplanted where practical. A detailed Tree Transplanting Specification shall be provided in the Contract Specification, if applicable. Sufficient time for necessary tree root and crown preparation periods shall be allowed in the project programme	Tree Transplanting Specifications have been provided in the relevant Contract Specifications respectively for implementation by the Contractors under the Project where trees will unavoidably be affected by the construction works. The Contractors were required to submit Method Statements for tree transplanting prior to the transplanting works. Tree inspections were conducted by ET to check the tree transplanting works implemented by the Contractors on site. The Contractors' performance on the implementation of trees maintenance and protection measures on transplanted trees were observed and checked by the ET bi-monthly during the 12-month establishment period after the completion of each batch of transplanting works.	3503, 3801 3508, 3802 (To be implemented)
CM 10 – Land formation works shall be followed with advanced hydroseeding around taxiways and runways as soon as practical	To be implemented around taxiways and runways as soon as practicable.	To be implemented

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

Erection of site hoardings around works area in unobtrusive colors (CM5)	Avoidance of excessive height and bulk of site buildings (CM6)	Control of night-time lighting by hooding and minimisation of night working period (CM7)
General view of Tree	General view of a	
Protection Zone for retained tree (CM8)	transplanted tree (CM9)	

In accordance with the EM&A Manual, all existing trees shall be protected carefully during construction. Trees unavoidably affected by the works shall be transplanted where practical. In this reporting period, the updated cumulative total number of retained and transplanted trees under the Project were 118 and 11, respectively. Details of the retained trees, transplanted trees and to-be-transplanted trees under the Project are summarized in **Table 7.5** and respectively. Photos of transplanted trees are presented in **Table 7.7**.

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

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 the construction 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 the construction 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 if design necessary.		
Non-conformity on one occasion	Identify source. Inform IEC and AAHK / PM.	Check report. Check Contractor's working method.	Notify Contractor. Ensure remedial measures are	Amend working methods to prevent recurrence of non-	
	Discuss remedial actions with IEC, AAHK / PM and Contractor.	Discuss with ET and Contractor on possible remedial measures.	properly implemented.	conformity.	

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

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

Existing					
Contract	Retain (nos.)	Transplant	Transplanted (nos.)		
		Establishment Period	Maintenance Period	(nos.)	
3302	9	0	0	0	
3503	19	9	0	0	
3602	2	0	0	0	
3801	88	0	5	0	
Sub-total	118	9	5	0	
Provisional					
Contract	Retain (nos.)	Transplant	ted (nos.)	To-be-transplanted (nos.)	
3508(1)	155	0	I	22	
Sub-total	155	0	I	22	
Grand Total	273	14	4	22	
Notes:					

Notes:

(1) Actual tree number is subject to confirmation after initial tree survey is conducted by the Contractor.

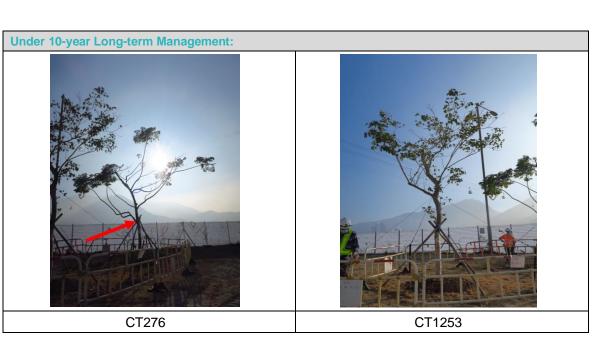
Summary of the updated transplanted trees and photos are presented in **Table 7.6** and **Table 7.7** respectively.

Tree ID	Transplant Date	Management Stage	Management Agency	Remarks
CT276	3 May 2018	<u>Establishment period</u> 4 May 2018 – May 2019	Contract 3801	NA
		<u>Maintenance period</u> Jun 2019 – May 2028	Southern Landside Petrol Filling Station	_
CT1253	4 May 2018	<u>Establishment period</u> 5 May 2018 – May 2019	Contract 3801	—
		<u>Maintenance period</u> Jun 2019 – May 2028	Southern Landside Petrol Filling Station	_
T835	22 Jan 2020	<u>Establishment period</u> 23 Jan 2020 – Jan 2021	Contract 3503	NA
T836	13 Dec 2019	<u>Establishment period</u> 14 Dec 2020 – Jan 2021	Contract 3503	_
T838	22 Jan 2020	<u>Establishment period</u> 23 Jan 2020 – Jan 2021	Contract 3503	_
T812	21 Dec 2020	Establishment period 22 Dec 2020 – Dec 2021	Contract 3503	_
T814	20 Dec 2020	<u>Establishment period</u> 21 Dec 2020 – Dec 2021	Contract 3503	_
T815	15 Dec 2020	Establishment period 16 Dec 2020 – Dec 2021	Contract 3503	_
T829	18 Dec 2020	Establishment period 19 Dec 2020 – Dec 2021	Contract 3503	_
T830	14 Dec 2020	<u>Establishment period</u> 15 Dec 2020 – Dec 2021	Contract 3503	_
T831	19 Dec 2020	<u>Establishment period</u> 20 Dec 2020 – Dec 2021	Contract 3503	_
CT1194	4 May 2018	<u>Establishment period</u> 5 May 2018 – May 2019	Contract 3801	Uprooted and collapsed due to damage by Typhoon Higos on 18 Aug 2020. Tree
		<u>Maintenance period</u> Jun 2019 – May 2028	Southern Landside Petrol Filling Station	 removal was conducted as recommended by Contractor's tree specialist.
CT1794	3 May 2018	<u>Establishment period</u> 4 May 2018 – May 2019	Contract 3801	The tree within the land parcel was acquired by the government for construction of emergency hospital to
		<u>Maintenance period</u> Jun 2019 – May 2028	AsiaWorld-Expo	handle COVID19 pandemic at AsiaWorld- Expo. The tree was felled.
CT1795	3 May 2018	<u>Establishment period</u> 4 May 2018 – May 2019	Contract 3801	The tree within the land parcel was acquired by the government for
		<u>Maintenance period</u> Jun 2019 – May 2028	AsiaWorld-Expo	—construction of emergency hospital to handle COVID19 pandemic at AsiaWorld- Expo E. The tree was felled.

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



Table 7.7: Photos of the Existing Transplanted Trees in the Reporting Period



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 System Nos.1 (Volumes 1 and 2), 2, 3, 4 and 5 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 all the CARs and required ET to submit additional photos for sides and bottom of some of sampling points after the removal of pipelines to reaffirm no leakage from the pipelines concerned. Afterwards, the potential land contamination concern of two concerned systems will be closed.

7.4 Audit of SkyPier High Speed Ferries

The Marine Travel Routes and Management Plan for High Speed Ferries of SkyPier (the SkyPier Plan) was submitted to the Advisory Council on the Environment for comment and subsequently submitted to and approved by EPD in November 2015 under EP Condition 2.10. The approved SkyPier Plan is available on the dedicated website of the Project. In the SkyPier Plan, AAHK has committed to implement the mitigation measure of requiring HSFs of SkyPier travelling between HKIA and Zhuhai / Macau to start diverting the route with associated speed control across the area, i.e. Speed Control Zone (SCZ), with high CWD abundance. The route diversion and speed restriction at the SCZ have been implemented since 28 December 2015.

Due to the COVID-19 pandemic, all SkyPier HSF services to/from Zhuhai and Macau have been suspended from 25 March 2020 until further notice. No ferry movement between HKIA SkyPier and Zhuhai and Macau was recorded in January 2021. Key audit findings for the SkyPier HSFs travelling to/from Zhuhai and Macau against the requirements of the SkyPier Plan during the reporting period are summarised in **Table 7.8**.

The daily movement of all SkyPier HSFs, including those not using the diverted route, in this reporting period (i.e., 2 to 3 daily movements) were within the maximum daily cap of 125 daily movements. Status of compliance with the annual daily average of 99 movements will be further reviewed in the Annual EM&A Report.

As informed by CLP Power, the construction works of the Hong Kong Offshore LNG Terminal Project may affect the route diversion operation of the SkyPier HSFs in Q1 2021. The captains were informed on the issue and ET will continue to closely monitor the implementation of the SkyPier Plan in the period.

Requirements in the SkyPier Plan	1 to 31 January 2021
Total number of ferry movements recorded and audited	0
Use diverted route and enter / leave SCZ through Gate Access Points	0 deviation
Daily Cap (including all SkyPier HSFs)	2 to 3 daily movement (within the maximum daily cap - 125 daily movements)

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

7.5 Audit of Construction and Associated Vessels

The updated Marine Travel Routes and Management Plan for Construction and Associated Vessel (MTRMP-CAV) was submitted and approved in May 2020 by EPD under EP Condition 2.9. The approved Plan is available on the dedicated website of the Project.

ET carried out the following actions during the reporting period:

- Two skipper training sessions were held for contractors' concerned skippers of relevant construction vessels to familiarize them with the predefined routes; general education on local cetaceans; guidelines for avoiding adverse water quality impact; the required environmental practices / measures while operating construction and associated vessels under the Project; and guidelines for operating vessels safely in the presence of CWDs. The list of all trained skippers was properly recorded and maintained by ET.
- Five skipper training sessions were held by contractors' Environmental Officers. Competency tests were subsequently conducted with the trained skippers by ET. The list of all trained skippers was properly recorded and maintained by ET.
- In this reporting period, 19 skippers were trained by ET and 6 skippers was trained by contractors' Environmental Officers. In total, 1691 skippers were trained from August 2016 to January 2021.
- The MSS automatically recorded deviation cases such as speeding, entering no entry zone and not travelling through the designated gate. ET conducted checking to ensure the MSS records deviation cases accurately.
- Deviations such as speeding in the works area, entered no entry zone, and entering from non-designated gates were identified. All the concerned contractors were reminded to comply with the requirements of the MTRMP-CAV during the bi-weekly MTCC audit.
- Three-month rolling programmes (one month record and three months forecast) for construction vessel activities were received from the contractors in order to help maintain the number of construction and associated vessels on site to a practicable minimal level.

7.6 Implementation of Dolphin Exclusion Zone

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

During the reporting period, ET was notified that no dolphin sightings were recorded within the DEZ by the contractors. The ET checked the dolphin sighting record and relevant records by the contractors to audit the implementation of DEZ.

7.7 Status of Submissions under Environmental Permits

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

EP Condition	Submission	Status
2.1	Complaint Management Plan	
2.4	Management Organizations	
2.5	Construction Works Schedule and Location Plans	
2.7	Marine Park Proposal	
2.8	Marine Ecology Conservation Plan	
2.9	Marine Travel Routes and Management Plan for Construction and Associated Vessels	_
2.10	Marine Travel Routes and Management Plan for High Speed Ferries of SkyPier	Accepted / approved
2.11	Marine Mammal Watching Plan	by EPD
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	Submitted to EPD
2.19	Waste Management Plan	
2.20	Supplementary Contamination Assessment Plan	Accepted / approved
3.1	Updated EM&A Manual	by EPD
3.4	Baseline Monitoring Reports	_

7.8 Compliance with Other Statutory Environmental Requirements

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

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

7.9.1 Complaints

Two complaints were received on 25 January 2021 regarding dust issue and both were being investigated by ET in accordance with the Manual and the Complaint Management Plan of the Project. Findings of investigation will be reported in the next Monthly EM&A Report.

A complaint was received on 25 January 2021 regarding refuelling and was being investigated by ET in accordance with the Manual and the Complaint Management Plan of the Project. Findings of investigation will be reported in the next Monthly EM&A Report.

7.9.2 Notifications of Summons or Status of Prosecution

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

7.9.3 Cumulative Statistics

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

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

8.1 Construction Programme for the Coming Reporting Period

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

Reclamation Works:

Contract 3206 Main Reclamation Works

- Land-based ground improvement works;
- Seawall construction;
- Marine filling; and
- Sorting and reuse of inert waste from other 3RS contracts.

Airfield Works:

Contract 3301 North Runway Crossover Taxiway

- Cable ducting works; and
- Subgrade compaction and paving works.

Contract 3302 Eastern Vehicular Tunnel Advance Works

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

Contract 3303 Third Runway and Associated Works

- Footing and utilities work;
- Pilling work;
- Construction of approach light; and
- Cable laying and ducting works.

Contract 3307 Fire Training Facility

- Excavation; and
- Drainage works.

Third Runway Concourse:

Contract 3403 New Integrated Airport Centres Building and Civil Works

- Architectural, Builder's Work and Finishing works;
- Temporary work for roof lifting; and
- Underground utilities construction.

Contract 3405 Third Runway Concourse Foundation and Substructure Works

Plant mobilisation;

- Pre-drilling; and
- Pilling work.

Terminal 2 Expansion:

Contract 3503 Terminal 2 Foundation and Substructure Works

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

Contract 3508 Terminal 2 Expansion Works

- Excavation and footing construction;
- Temporary road construction;
- Pilling work;
- Pre-drilling; and
- Builders' works.

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

Contract 3601 New Automated People Mover System (TRC Line)

• Concreting work and rebar fixing.

Contract 3602 Existing APM System Modification Works

- Modification works at APM depot; and
- Concreting work.

Construction Support (Facilities):

Contract 3721 Construction Support Infrastructure Works

- Excavation and backfilling; and
- Laying of drainage pipes and ducts; and
- Road works.

Contract 3722 Construction Support Facilities

- Foundation works;
- Erection of superstructure; and
- Site Establishment.

Airport Support Infrastructure:

Contract 3801 APM and BHS Tunnels on Existing Airport Island

- Construction of box culvert, working platform and ventilation ducts;
- Cofferdam for shaft; and
- Site clearance.

Contract 3802 APM and BHS Tunnels and Related Works

- Installation of storm drain pipes;
- Pre-drilling;
- Foundation works; and
- Site establishment.

Construction Support (Services / Licenses):

Contract 3901A/ B Concrete Batching Facility

- Installation of plant equipment; and
- Plant operation.

8.2 Key Environmental Issues for the Coming Reporting Period

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

- Generation of dust from construction works and stockpiles;
- Noise from operating equipment and machinery on-site;
- Generation of site surface runoffs and wastewater from activities on-site;
- Water quality from DCM works and marine filling;
- DEZ monitoring for ground improvement works (DCM works), seawall construction and bored pilling for approach lights;
- Implementation of MMWP for silt curtain deployment;
- Sorting, recycling, storage and disposal of general refuse and construction waste;
- Reuse of treated marine sediments from piling and excavation works;
- Management of chemicals and avoidance of oil spillage on-site; and
- Acoustic decoupling measures for equipment on marine vessels.

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

8.3 Monitoring Schedule for the Coming Reporting Period

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

8.4 Review of the Key Assumptions Adopted in the EIA Report

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

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9 Conclusion and Recommendation

The key activities of the Project carried out in the reporting period included reclamation works and land-based works. Works in the reclamation areas included DCM works, marine filling, seawall and facilities construction, together with runway and associated works. Land-based works on existing airport island involved mainly airfield works, foundation and substructure work for Terminal 2 expansion, modification and tunnel work for APM and BHS systems, and preparation work for utilities, with activities include site establishment, site office construction, road and drainage works, cable ducting, demolition of existing facilities, piling, and excavation works.

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

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

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

Weekly site inspections of the construction works were carried out by the ET to audit the implementation of proper environmental pollution control and mitigation measures for the Project. Bi-weekly site inspections were also conducted by the IEC. Site inspection findings were recorded in the site inspection checklists and provided to the contractors to follow up.

On the implementation of the SkyPier Plan, due to the COVID-19 pandemic, all SkyPier HSF services to/from Zhuhai and Macau have been suspended from 25 March 2020 until further notice. No HSF movement between HKIA SkyPier and Zhuhai and Macau was recorded during the reporting period. Therefore, no deviation was recorded in the HSF monitoring in the reporting period. The daily movements of all SkyPier HSFs in the reporting period, including those not using the diverted route, were in the range of 2 to 3 daily movements, which are within the maximum daily cap of 125 daily movements.

On the implementation of MTRMP-CAV, the MSS automatically recorded the deviation case such as speeding, entering no entry zone and not travelling through the designated gates. ET conducted checking to ensure the MSS records all deviation cases accurately. Training has been provided for the concerned skippers to facilitate them in familiarising with the requirements of the MTRMP-CAV. Deviations including speeding in the works area, entered no entry zone, and entry from non-designated gates were reviewed by ET. All the concerned captains were reminded by the contractor's MTCC representative to comply with the requirements of the MTRMP-CAV. 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.

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

Figures

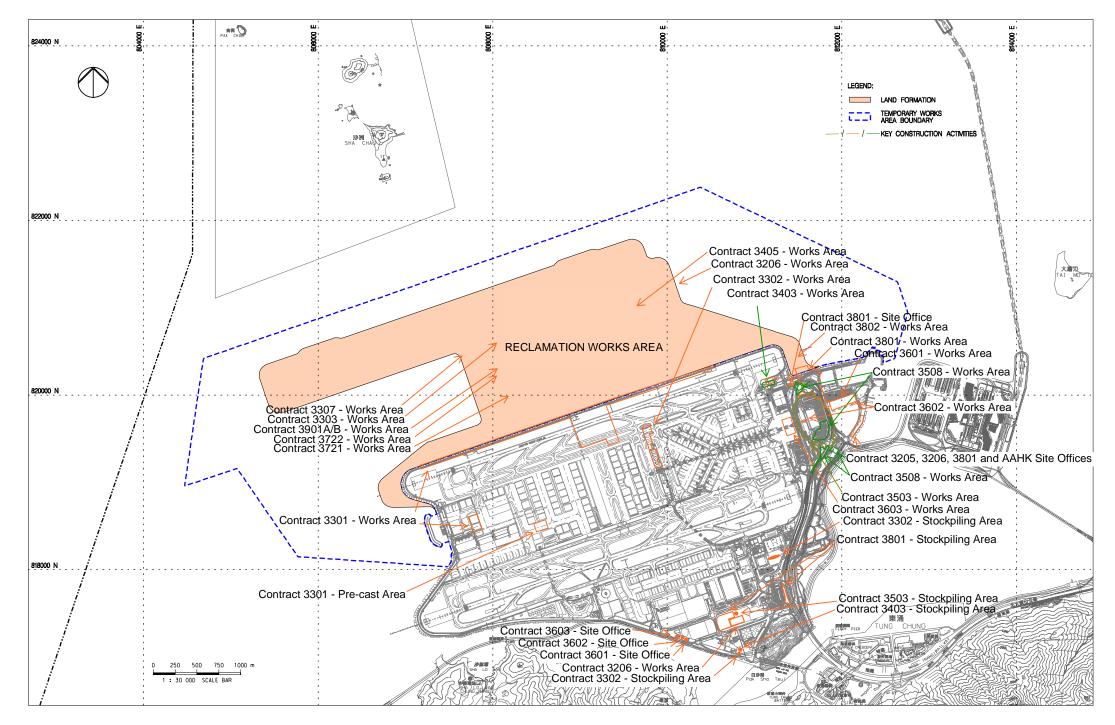
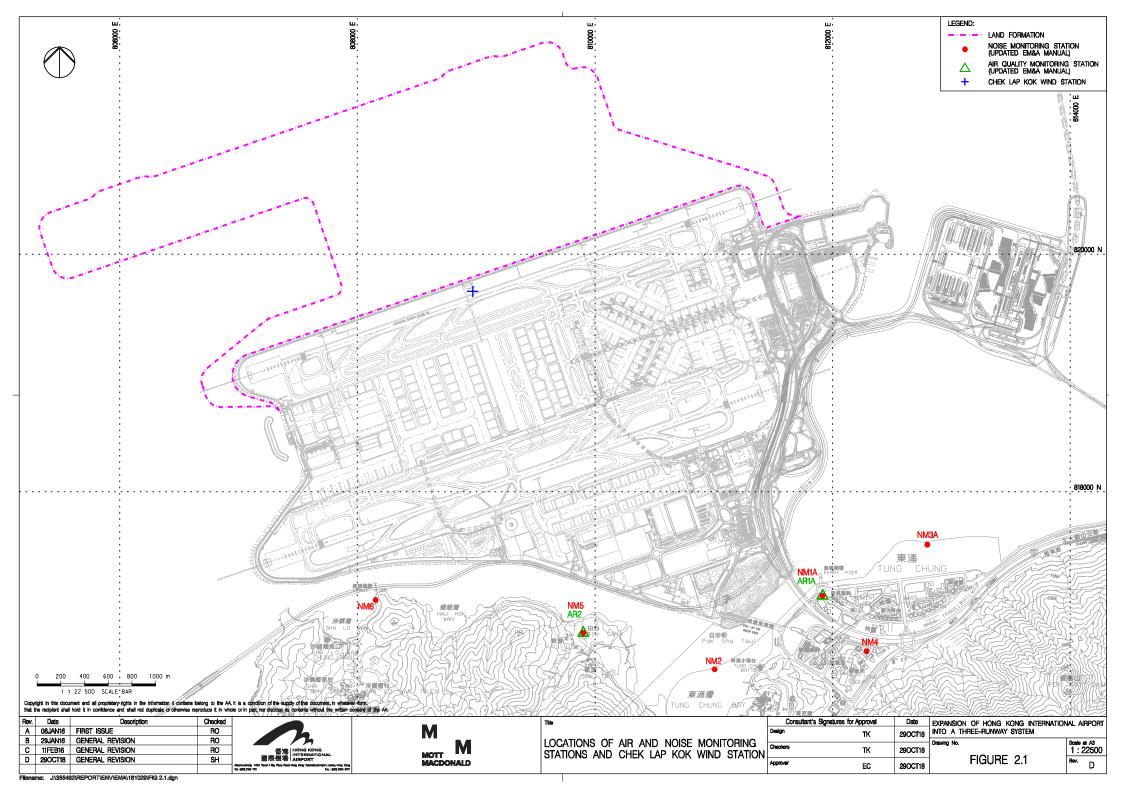
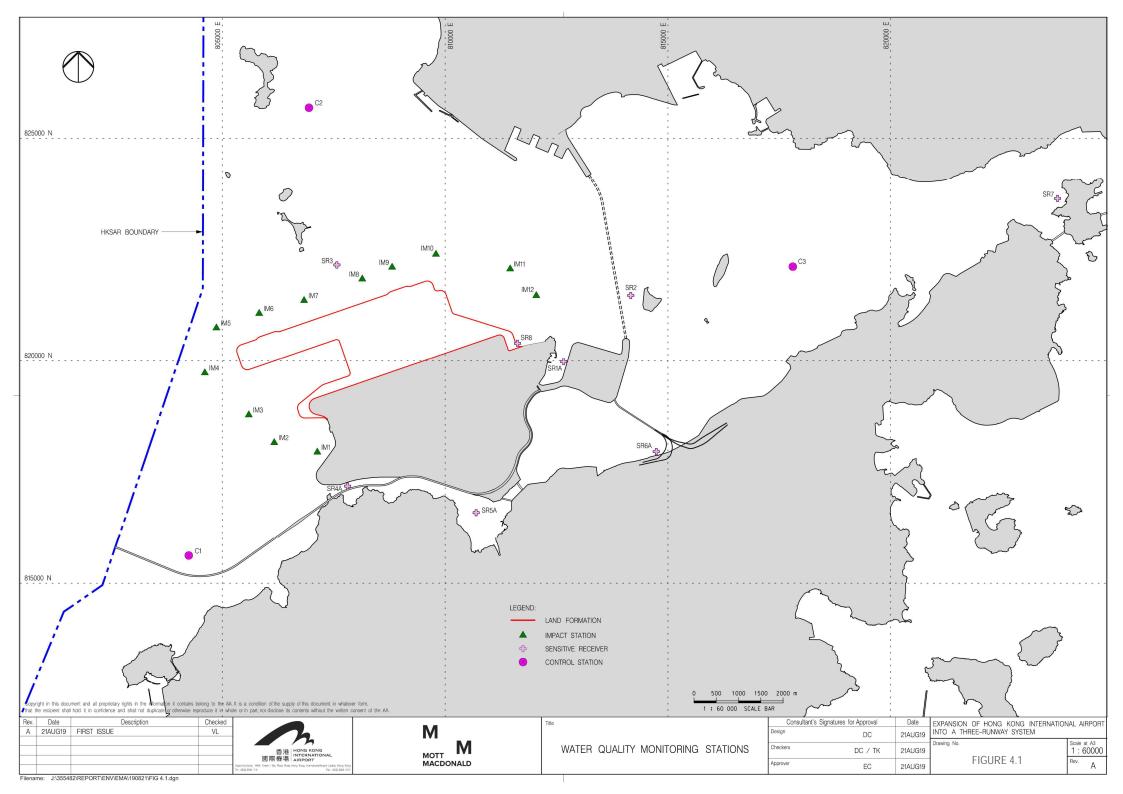
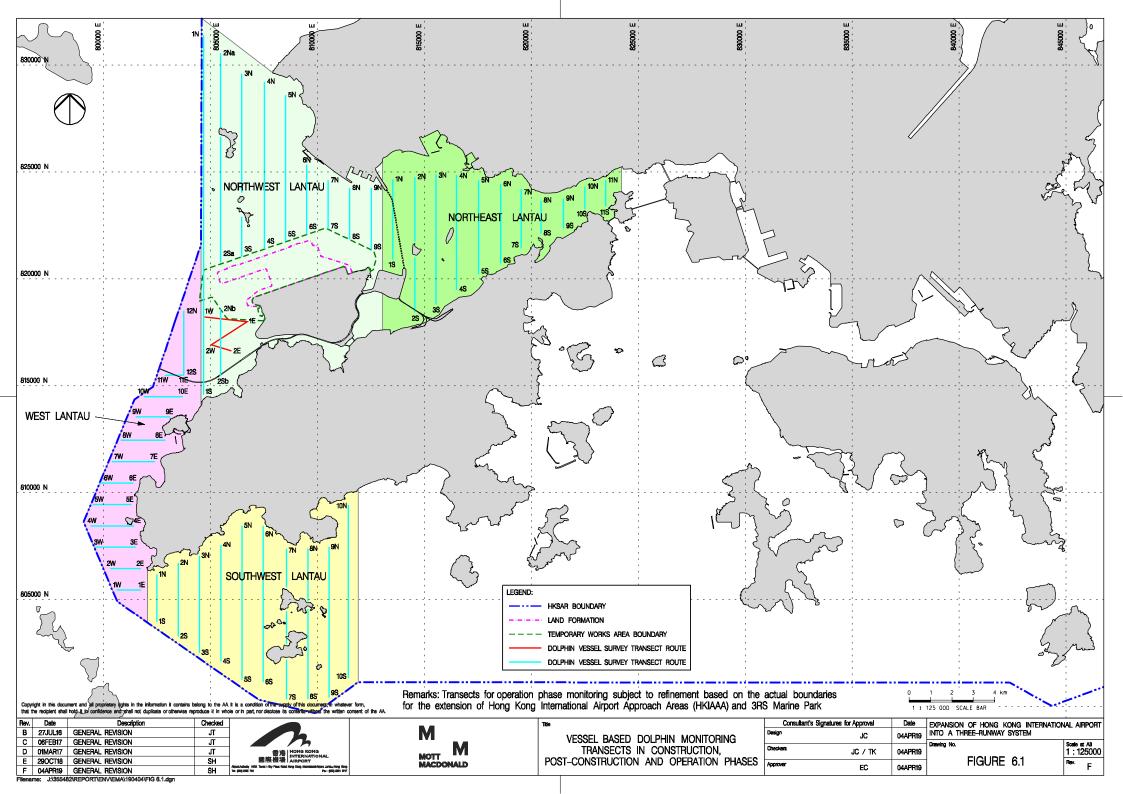
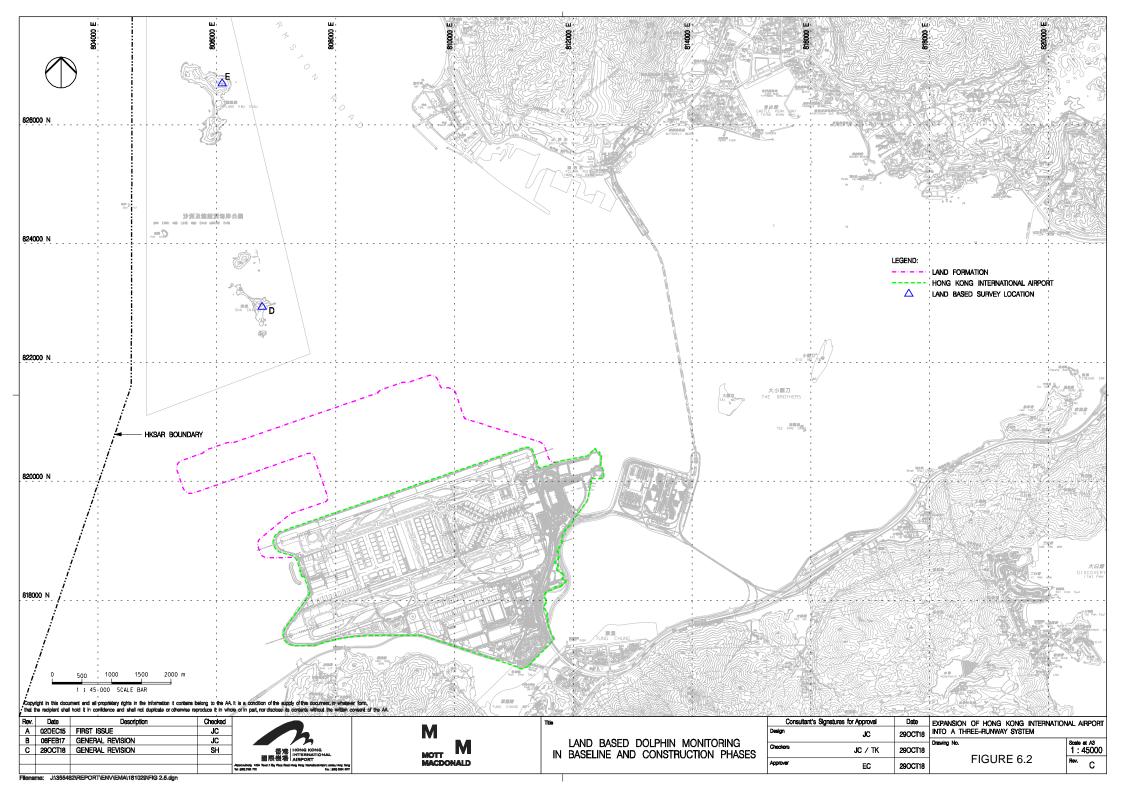


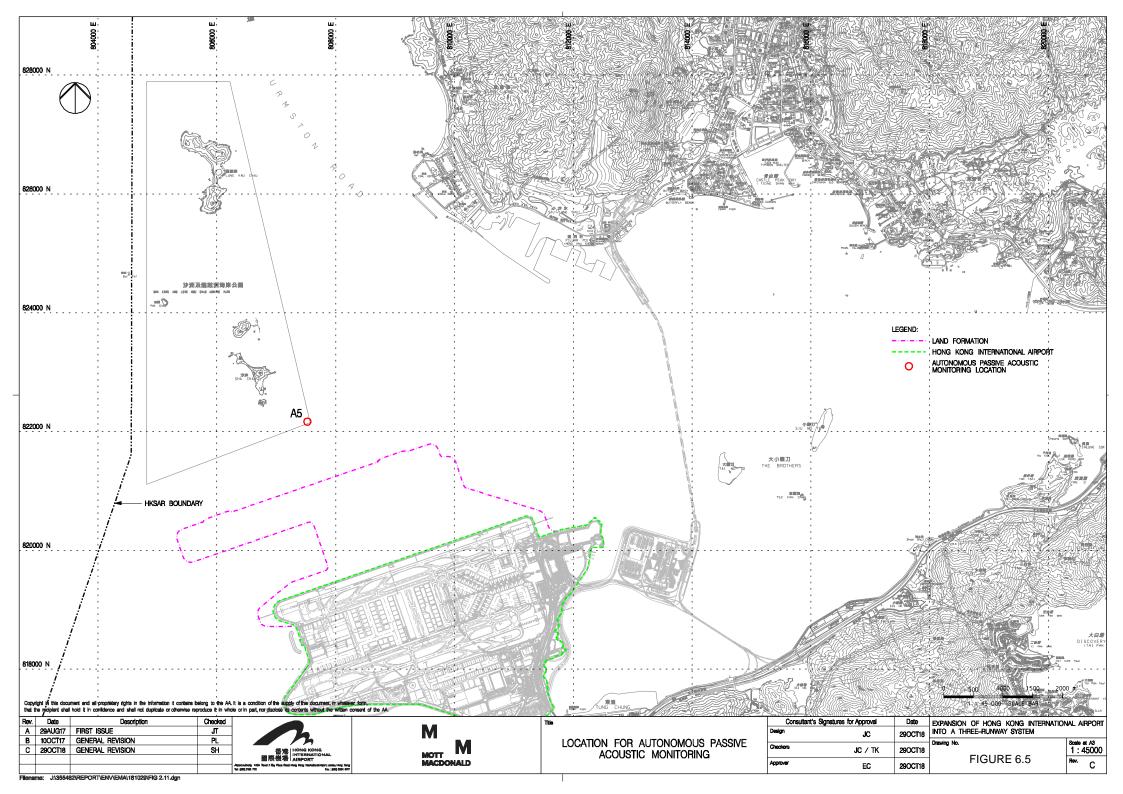
FIGURE 1.1 LOCATIONS OF KEY CONSTRUCTION ACTIVITIES











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 MeasuresWater 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	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. 	rea. site / Duration of the construction phase uring Within construction of the construction phase be Within construction site / Duration of the construction phase be Within construction of the construction phase ble Within construction of the construction phase ble Within construction of the construction phase ble Within construction phase ble Within construction phase ep Within construction of the site / Duration of the phase ing site / Duration of the phase	1
			 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. 		1
			 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. 	site / Duration of the	1



EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures	Mitigation Measures Implemented?
			Timing of completion of 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; 	Within construction site / Duration of the construction phase	I
		 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. 		
		Site hoarding	Within construction	I
		 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. 	site / Duration of the construction phase	
2.1	-	Best Practices for Concrete Batching Plant	Within Concrete	1
		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:	Batching Plant / Duration of the construction phase	
	Ref.	Ref. Condition	Ref. Condition 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. 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. 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. 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. 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, every vehicle should be washed to remove any dusty materials from its body and wheels; and • Where a site boundary adjoins a road, street, service lane or other area accessible to the public, hoarding of not leas thro 2.4m high from ground level should be provided	Ref. Condition of measures Timing of completion of measures 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 Debris Handling • All dusty materials should be covered entirely by impervious sheeting or stored in a debris collection area shellered 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 Transport of Dusty Materials • Vehicle used for transporting dusty materials/spoils should be covered with tarpaulin or similar material. • Vehicle watching Within construction site / Duration of the construction phase Whene washing • Vehicle 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 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



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented? ⁷
			 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	Within Concrete	I
			 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; 	Batching Plant / Duration of the construction phase	
			 The materials shall be adequately wetted prior to and during the loading, unloading and handling operations. Manual or automatic water spraying system shall be provided at all unloading areas, stock piles and material discharge points; 		
			 All receiving hoppers for unloading relevant materials shall be enclosed on three sides up to 3 m above the unloading point. In no case shall these hoppers be used as the material storage devices; 		
			 The belt conveyor for handling materials shall be enclosed on top and two sides with a metal board at the bottom to eliminate any dust emission due to wind-whipping effect. Other type of enclosure will also be accepted by EPD if it can be demonstrated that the proposed enclosure can achieve same performance; 		
			 All conveyor transfer points shall be totally enclosed. Openings for the passage of conveyors shall be fitted with adequate flexible seals; 		
			 Scrapers shall be provided at the turning points of all conveyors to remove dust adhered to the belt surface; 		
			 Conveyors discharged to stockpiles of relevant materials shall be arranged to minimize free fall as far as practicable. All free falling transfer points from conveyors to stockpiles shall be enclosed with chute(s) and water sprayed; 		
			 Aggregates with a nominal size less than or equal to 5 mm should be stored in totally enclosed structure such as storage bin and should not be handled in open area. Where there is sufficient buffer area surrounding the concrete batching plant, ground stockpiling may be used; 		



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented? ⁷
			 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	Within Concrete	I
			 Concrete truck shall be loaded in such a way as to minimise airborne dust emissions. The following control measures shall be implemented: 	Batching Plant / Duration of the	
			(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	construction phase	
			(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.		
			 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	Within Concrete	1
			 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. 	Batching Plant / Duration of the construction phase	
5.2.6.6	2.1	-	Best Practices for Asphaltic Concrete Plant	Within Concrete	N/A
			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:	Batching Plant / Duration of the construction phase	
			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;		



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion	Mitigation Measures Implemented?1	
				of measures		
			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	Within Concrete	N/A	
			 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; 	Batching Plant / Duration of the construction phase	Duration of the	
			 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. 			
			Hot feed side	Within Concrete	N/A	
			 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; 	Batching Plant / Duration of the construction phase		
			 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; 			



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			 All hot bins shall be totally enclosed and dust tight with close-fitted access inspection opening. Gaskets shall be installed to seal off any cracks and edges of any inspection openings. The air shall be extracted and ducted to a dust collection system to meet the required particulates limiting value; and 		
			 Appropriate control measures shall be adopted in order to meet the required bitumen emission limit as well as the ambient odour level (2 odour units). 		
			Material transportation	Within Concrete	N/A
			 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; 	Batching Plant / Duration of the construction phase	
			 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. 		
			Control of emissions from bitumen decanting	Within Concrete	N/A
			 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; 	Batching Plant / Duration of the	
			 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; 	construction phase	
			 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.		
			Liquid fuel	Within Concrete	N/A
			 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. 	Batching Plant / Duration of the construction phase	
			Housekeeping	Within Concrete Batching Plant / Duration of the construction phase	N/A
			 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. 		
5.2.6.7	2.1	-	Best Practices for Rock Crushing Plants	Within Concrete	N/A
			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:	Batching Plant / Duration of the construction phase	



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?/
			Crushers		
			 The outlet of all primary crushers, and both inlet and outlet of all secondary and tertiary crushers, if not installed inside a reasonably dust tight housing, shall be enclosed and ducted to a dust extraction and collection system such as a fabric filter; 		
			 The inlet hopper of the primary crushers shall be enclosed on top and 3 sides to contain the emissions during dumping of rocks from trucks. The rock while still on the trucks shall be wetted before dumping; 		
			 Water sprayers shall be installed and operated in strategic locations at the feeding inlet of crushers; and 		
			 Crusher enclosures shall be rigid and be fitted with self-closing doors and close-fitting entrances and exits. Where conveyors pass through the crusher enclosures, flexible covers shall be installed at entries and exits of the conveyors to the enclosure. 		
			Vibratory screens and grizzlies	Within Concrete	N/A
			 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 	Batching Plant / Duration of the construction phase	
			 All grizzlies shall be enclosed on top and 3 sides and sufficient water sprayers shall be installed at their feeding and outlet areas. 		
			Belt conveyors	Within Concrete	N/A
			 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; 	Batching Plant / Duration of the construction phase	
			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. 		



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



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



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
8.8.1.2 and 8.8.1.3	5.1	2.26	Marine Construction Activities General Measures to be Applied to All Works Areas	Within construction site / Duration of the	Ι
			 Barges or hoppers shall not be filled to a level which will cause overflow of materials or pollution of water during loading or transportation; 	construction phase	
			 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; 	I	
			 Adequate freeboard shall be maintained on barges to reduce the likelihood of decks being washed by wave action; 		
			 All vessels shall be sized such that adequate clearance is maintained between vessels and the sea bed at all states of the tide to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash; 		
			 The works shall not cause foam, oil, grease, litter or other objectionable matter to be present in the water within and adjacent to the works site; and 		
			 For ground improvement activities including DCM, the wash water from cleaning of the drilling shaft should be appropriately treated before discharge. The Contractor should ensure the waste water meets the WPCO/TM requirements before discharge. No direct discharge of contaminated water is permitted. 		
			Specific Measures to be Applied to All Works Areas	Within construction	
			 The daily maximum production rates shall not exceed those assumed in the water quality assessment in the EIA report; 	site / Duration of the construction phase	I
			 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; 		
			 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; 		1
			 Closed grab dredger shall be used to excavate marine sediment; 		N/A
			 Silt curtains surrounding the closed grab dredger shall be deployed in accordance with the Silt Curtain Deployment Plan; and 		*(The arrangement silt curtain has bee modified. The deta can be referred to Curtain Deployment Plan)
			 The Silt Curtain Deployment Plan shall be implemented. 		



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



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures	Mitigation Measures
			Timing of compl of measures	Timing of completion of measures	Implemented?^
			Specific Measures to be Applied to the Field Joint Excavation Works for the Submarine Cable Diversion	Within construction	N/A
			 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 	site / Duration of the construction phase	
			Silt curtains surrounding the closed grab dredger to be deployed as a precautionary measure.		
8.8.1.4	5.1	-	Modification of the Existing Seawall	At the existing	N/A
			 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. 	northern seawall / Duration of the construction phase	
8.8.1.5	5.1	-	Construction of New Stormwater Outfalls and Modifications to Existing Outfalls	Within construction	N/A
			 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. 	site / Duration of the construction phase	
8.8.1.6	5.1	2.27	Piling Activities for Construction of New Runway Approach Lights and HKIAAA Marker Beacons	Within construction	Ι
8.8.1.7			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.	site / Duration of the construction phase	
			For construction of the eastern approach lights at the CMPs		I
			 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. 		
8.8.1.8	5.1	-	Construction of Site Runoff and Drainage The site practices outlined in ProPECC Note PN 1/94 should be followed as far as practicable in order to minimise surface runoff and the chance of erosion. The following measures are recommended:	Within construction site / Duration of the construction phase	
			 Install perimeter cut-off drains to direct off-site water around the site and implement internal drainage, erosion and sedimentation control facilities. Channels, earth bunds or sand bag barriers should be provided on site to direct storm water to silt removal facilities. The design of the temporary on-site 	-	I



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			drainage system should be undertaken by the Contractors prior to the commencement of construction (for works areas located on the existing Airport island) or as soon as the new land is completed (for works areas located on the new landform);		
			 Sand/silt removal facilities such as sand/silt traps and sediment basins should be provided to remove sand/silt particles from runoff to meet the requirements of the TM-DSS standards under the WPCO. The design of efficient silt removal facilities should make reference to the guidelines in Appendix A1 of ProPECC Note PN 1/94. Sizes may vary depending upon the flow rate. The detailed design of the sand/silt traps should be undertaken by the Contractors prior to the commencement of construction; 	_	1
			 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; 		1
			 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; 	_	1
			 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 		1
			 All vehicles and plant should be cleaned before leaving a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. An adequately designed and sited wheel washing facility should be provided at construction site exits. Wash-water should have sand and silt settled out and removed regularly to ensure the continued efficiency of the process. The section of access road leading to, and exiting from, the wheel-wash bay to the public road should be paved with sufficient backfall toward the wheel-wash bay to prevent vehicle tracking of soil and silty water to public roads and drains. All washwater should be treated according to the requirements of the TM-DSS standards under the WPCO prior to discharge. 		I
8.8.1.9	5.1	-	Sewage Effluent from Construction Workforce	Within construction	I
			 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. 	site / During construction phase	
8.8.1.10	5.1		General Construction Activities	Within construction	
8.8.1.11			 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 	site / During construction phase	



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			 Oils and fuels should only be stored in designated areas which have pollution prevention facilities. To prevent spillage of fuels and solvents to any nearby storm water drain, all fuel tanks and storage areas should be provided with locks and be sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank. The bund should be drained of rainwater after a rain event. 		
8.8.1.12	5.1	2.28 Drilling Act	Drilling Activities for the Submarine Aviation Fuel Pipelines	Within construction	I
8.8.1.13			To prevent potential water quality impacts at Sha Chau, the following measures shall be applied:	site / During	
			 A 'zero-discharge' policy shall be applied for all activities to be conducted at Sha Chau; 	construction phase	
			 No bulk storage of chemicals shall be permitted; and 		
			 A containment pit shall be constructed around the drill holes. This containment pit shall be lined with impermeable lining and bunded on the outside to prevent inflow from off-site areas. 		
			At the airport island side of the drilling works, the following measures shall be applied for treatment of wastewater:	Within construction site / During	I
			 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 	construction phase	
			 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. 		
			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; 		Ι
			 Only non-dredged ground improvement methods should be adopted in order to completely avoid the need for dredging and disposal of marine sediment for the proposed land formation work; 	-	I
		 Excavation work for constructing the APM tunnels, BHS tunnels and airside tunnels will not be down to the CMPs beneath the fill materials in order to avoid excavating any sediments; and 		I	



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?/
			 For the marine sediments expected to be excavated from the piling works of TRC, APM & BHS tunnels, airside tunnels and other facilities on the proposed land formation area, piling work of marine sections of the approach lights and HKIAAA beacons, basement works for some of T2 expansion area and excavation works for the proposed APM depot should be treated and reused on-site as backfilling materials, although required treatment level / detail and the specific re-use mode are under development. 		I
10.5.1.1	7.1	-	The following good site practices should be performed during the construction activities include:	Project Site Area /	I
		arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site;	Construction Phase		
			 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:	Project Site Area /	T
			 Use of steel or aluminium formworks and falseworks for temporary works as far as practicable; 	Construction Phase	
			 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; 		



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			 Encourage collection of aluminium cans, PET bottles and paper by providing separate labelled bins to enable these wastes to be segregated from other general refuse generated by the work force; 		
			 Any unused chemicals or those with remaining functional capacity should be collected for reused as far as practicable; 		
			 Proper storage and site practices to minimise the potential for damage or contamination of construction materials; and 		
			 Plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste. 		
10.5.1.5	7.1		 Inert and non-inert C&D materials should be handled and stored separately to avoid mixing the two types of materials. 	Project Site Area / Construction Phase	
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	Ι
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	 Treated and untreated sediment should be clearly separated and stored separately; and 	-	I
			 Surface runoff from the enclosed area should be properly collected and stored separately, and then properly treated to levels in compliance with the relevant effluent standards as required by the Water Pollution Control Ordinance before final discharge. 	-	I
10.5.1.18	7.1	-	The marine sediments to be removed from the cable field joint area would be disposed of at the designated disposal sites to be allocated by the MFC. The following mitigation measures should be strictly	Project Site Area / Construction Phase	N/A



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures	Mitigation Measures Implemented?^
				Timing of completion of measures	
			followed to minimise potential impacts on water quality during transportation of the sediments requiring Type 1 disposal:		
			 Bottom opening of barges shall be fitted with tight fitting seals to prevent leakage of material; 		
			 Monitoring of the barge loading shall be conducted to ensure that loss of material does not take place during transportation. Transport barges or vessels shall be equipped with automatic self-monitoring devices as specified by EPD; and 		
			 Barges or hopper barges shall not be filled to a level that would cause the overflow of materials or sediment laden water during loading or transportation. 		
10.5.1.19	7.1	-	Contractor should register with the EPD as a chemical waste producer and to follow the relevant guidelines. The following measures should be implemented:	Project Site Area / Construction Phase	I
			 Good quality containers compatible with the chemical wastes should be used; 		
			 Incompatible chemicals should be stored separately; 		
			 Appropriate labels must be securely attached on each chemical waste container indicating the corresponding chemical characteristics of the chemical waste, such as explosive, flammable, oxidizing, irritant, toxic, harmful, corrosive, etc.; and 		
			 The contractor will use a licensed collector to transport and dispose of the chemical wastes at the approved Chemical Waste Treatment Centre or other licensed recycling facilities, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation. 		
10.5.1.20	7.1	-	 General refuse should be stored in enclosed bins or compaction units separated from inert C&D material. A reputable waste collector should be employed by the contractor to remove general refuse from the site for disposal at designated landfill sites. An enclosed and covered area should be provided to reduce the occurrence of 'wind blown' light material. 	Project Site Area / Construction Phase	I
10.5.1.21	7.1	-	 The construction contractors will be required to regularly check and clean any refuse trapped or accumulated along the newly constructed seawall. Such refuse will then be stored and disposed of together with the general refuse. 	Project Site Area / Construction Phase	I
			Land Contamination – Construction Phase		
1.10.1.2	8.1	2.32	For areas inaccessible during site reconnaissance survey	Project Site Area	
o 11.10.1.3			 Further site reconnaissance would be conducted once the areas are accessible in order to identify any land contamination concern for the areas. 	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. 	-	1



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			 After completion of SI, the Contamination Assessment Report (CAR) will be prepared and submitted to EPD for approval prior to start of the proposed construction works at the golf course, the underground and above-ground fuel storage tank areas, emergency power generation units, airside petrol filling station and fuel tank room. 		I *(CAR for golf course and Terminal 2 Emergency Power Supply System Nos.1, 2, 3, 4 and 5)
			 Should remediation be required, Remediation Action Plan (RAP) and Remediation Report (RR) will be prepared for EPD's approval prior to commencement of the proposed remediation and any construction works respectively. 		N/A
11.8.1.2	8.1	-	If contaminated soil is identified, the following mitigation measures are for the excavation and transportation of contaminated materials (if any):	Project Site Area / Construction Phase	N/A
			 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	Breeding season (April	
			 Conduct ecological survey for Sha Chau egretry to update the latest boundary of the egretry. 	- July) prior to commencement of	

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion	Mitigation Measures Implemented?^
				of measures HDD drilling works at HKIA	
12.7.2.3 9.1 2 and 12.7.2.6		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; 	During construction phase at Sheung Sha Chau Island	I
			 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. 		
12.7.2.5	9.1	2.30	 Preservation of Nesting Vegetation The proposed daylighting location and the arrangement of connecting pipeline will avoid the need of tree cutting, therefore the trees that are used by ardeids for nesting will be preserved. 	During construction phase at Sheung Sha Chau Island	I
12.7.2.4 and 12.7.2.6	9.1	2.30	 Timing the Pipe Connection Works outside Ardeid's Breeding Season All HDD and related construction works on Sheung Sha Chau Island will be scheduled outside the ardeids' breeding season (between April and July). No night-time construction work will be allowed on Sheung Sha Chau Island during all seasons. 	During construction phase at Sheung Sha Chau Island	I
12.10.1.1	9.3	-	 Ecological Monitoring During the HDD construction works period from August to March, ecological monitoring will be undertaken monthly at the HDD daylighting location on Sheung Sha Chau Island to identify and evaluate any impacts with appropriate actions taken as required to address and minimise any adverse impact found. 	at Sheung Sha Chau Island	I
			Marine Ecological Impact – Pre-construction Phase		
13.11.4.1	10.2.2	-	 Pre-construction phase Coral Dive Survey. 	HKIAAA artificial seawall	I
			Marine Ecological Impact – Construction Phase		
13.11.1.3 to 13.11.1.6	-	-	 Minimisation of Land Formation Area Minimise the overall size of the land formation needed for the additional facilities to minimise the overall loss of habitat for marine resources, especially the CWD population. 	Land formation footprint / during detailed design phase to completion of construction	I
13.11.1.7 to 13.11.1.10	-	2.31	 Use of Construction Methods with Minimal Risk/Disturbance Use of non-dredge method for the main land formation and ancillary works including the diversion of the aviation fuel pipeline to the AFRF; 	During construction phase at marine works area	1



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			 Use of Deep Cement Mixing (DCM) method instead of conventional seabed dredging for the land formation works to reduce the risk of negative impacts through the elevation of suspended solids and contaminants on CWDs, fisheries and the marine environment; 		I
			 Use of bored piling in short duration to form the new approach lights and marker beacons for the new runway; 		I
			 Avoid bored piling during CWD peak calving season (Mar to Jun); 		1
			 Prohibition of underwater percussive piling; and 	_	1
			 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. 		Ι
13.11.2.1 - to 13.11.2.7	-	Mitigation for Indirect Disturbance due to Deterioration of Water Quality	All works area during		
			 Water quality mitigation measures during construction phases include consideration of alternative construction methods, deployment of silt curtain and good site practices; 	the construction phase	1
			 Alternative construction methods including use of non-dredge methods for ground improvement (e.g. Deep Cement Mixing (DCM), prefabricated vertical drains (PVD), sand compaction piles, steel cells, stone columns and vertical sand drains); 		I
			 Use of bored piling in short duration to form the new approach lights and marker beacons for the new runway; and 	_	I
			Use of horizontal directional drilling (HDD) method and water jetting methods for placement of undersea cables and pipelines to minimise the disturbance to the CWDs and other marine ecological resources.		I
13.11.1.12	-	-	Strict Enforcement of No-Dumping Policy	All works area during	I
			 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; 	the construction phase	
			 Mandatory educational programme of the no-dumpling policy be made available to all construction site personnel for all project-related works; 		
			 Fines for infractions should be implemented; and 		
			 Unscheduled, on-site audits shall be implemented. 		
13.11.1.13	-	-	 Good Construction Site Practices Regular inspection of the integrity and effectiveness of all silt curtains and monitoring of effluents to ensure that any discharge meets effluent discharge guidelines; Keep the number of working or stationary vessels present on-site to the minimum anytime; and Unscheduled, on-site audits for all good site practice restrictions should be conducted, and fines or penalties sufficient to be an effective deterrent need to be levied against violators. 	All works area during the construction phase	I



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures	Mitigation Measures	
				Timing of completion of 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	1	
13.11.5.4 10.3.1 - to 13.11.5.13		-	 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	1	
13.11.5.14 to 13.11.5.18	10.3.1	2.31	 Dolphin Exclusion Zone Establishment of a 24 hr Dolphin Exclusion Zone (DEZ) with a 250 m radius around the land formation works areas; 	Marine waters around land formation works area during construction phase	I	
			 A DEZ would also be implemented during ground improvement works (e.g. DCM), water jetting works for submarine cables diversion, open trench dredging at the field joint locations and seawall construction; and 		I	
			A DEZ would also be implemented during bored piling work but as a precautionary measure only.		I	
13.11.5.19	10.4	2.31	 Acoustic Decoupling of Construction Equipment Air compressors and other noisy equipment that must be mounted on steel barges should be acoustically-decoupled to the greatest extent feasible, for instance by using rubber or air-filled tyres; and Specific acoustic decoupling measures shall be specified during the detailed design of the project for use during the land formation works. 	Around coastal works area during construction phase	I	



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			 An oil and hazardous chemical spill response plan is proposed to be established during the construction phase as a precautionary measure so that appropriate actions to prevent or reduce risks to CWDs can be undertaken in the event of an accidental spillage. 		
13.11.5.21	10.6.1	-	Construction Vessel Speed Limits and Skipper Training	All areas north and	I
to 13.11.5.23			 A speed limit of 10 knots should be strictly observed for construction vessels at areas with the highest CWD densities; and 	west of Lantau Island during construction	
			 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. 	phase	
			Fisheries Impact – Construction Phase		
14.9.1.2 to - 14.9.1.5	-		Minimisation of Land Formation Area	Land formation	I
			 Minimise the overall size of the land formation needed for the additional facilities to minimise the overall loss of habitat for fisheries resources. 	footprint / during detailed design phase to completion of construction	
14.9.1.6	-	-	Use of Construction Methods with Minimal Risk/Disturbance	During construction	
			 Use of non-dredge method for the main land formation and ancillary works including the diversion of the aviation fuel pipeline to the AFRF; 	phase at marine works area	1
			 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; 		1
			 Use of bored piling in short duration to form the new approach lights and marker beacons for the new runway; and 	_	I
			 Use of horizontal directional drilling (HDD) method and water jetting methods for placement of undersea cables and pipelines to minimise the disturbance to fisheries resources. 	-	I
14.9.1.11	-		Strict Enforcement of No-Dumping Policy	All works area during	I
			 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; 	the construction phase	
			 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.		



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion	Mitigation Measures Implemented?1
				of measures	
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	1
14.9.1.13	-		Mitigation for Indirect Disturbance due to Deterioration of Water Quality	All works area during	
to 14.9.1.18			 Water quality mitigation measures during construction phases include consideration of alternative construction methods, deployment of silt curtain and good site practices; 	the construction phase	1
			 Alternative construction methods including use of non-dredge methods for ground improvement (e.g. Deep Cement Mixing (DCM), prefabricated vertical drains (PVD), sand compaction piles, steel cells, stone columns and vertical sand drains); 		I
			 Use of bored piling in short duration to form the new approach lights and marker beacons for the new runway; and 		I
			 Use of horizontal directional drilling (HDD) method and water jetting methods for placement of undersea cables and pipelines to minimise the disturbance to fisheries resources. 		I
			Landscape and Visual Impact – Construction Phase		
Table 15.6	12.3	-	CM1 - The construction area and contractor's temporary works areas should be minimised to avoid impacts on adjacent landscape.	All works areas for duration of works;	I
				Upon handover and completion of works.	
Table 15.6	12.3	-	CM2 - Reduction of construction period to practical minimum.	All works areas for duration of works;	I
				Upon handover and completion of works.	
Table 15.6	12.3	-	CM3 - Phasing of the construction stage to reduce visual impacts during the construction phase.	All works areas for duration of works;	1
				Upon handover and completion of works.	
Table 15.6	12.3	-	CM4 - Construction traffic (land and sea) including construction plants, construction vessels and barges should be kept to a practical minimum.	All works areas for duration of works;	
				Upon handover and completion of works.	



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures	Mitigation Measures
				Timing of completion of measures	Implemented?^
Table 15.6	12.3	-	CM5 - Erection of decorative mesh screens or construction hoardings around works areas in visually unobtrusive colours.	All works areas for duration of works;	I
				Upon handover and completion of works. – may be disassembled in phases	
Table 15.6	12.3	-	CM6 - Avoidance of excessive height and bulk of site buildings and structures.	New passenger concourse, terminal 2 expansion and other proposed airport related buildings and structures under the project;	I
				Upon handover and completion of works.	
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;	I
				Upon handover and completion of works. – 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;	N/A



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

Notes:

I= implemented where applicable;

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

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

Appendix B. Monitoring Schedule

Monitoring Schedule of This Reporting Period

Jan-21

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Sunday	Monday	Tuesuay	Wednesday	Thursday	1	2
						2
						WQ General & Regular DCM
						mid-ebb: 15:13
2				7		mid-flood: 10:08 9
3	4 Site Inspection	5 Site Inspection	6 Site Inspection	7 Site Inspection	8 Site Inspection	9
	Site inspection	Site inspection	Site Inspection	Site inspection	Site inspection	
		AR1A, AR2				
	NM4, NM6	NM1A, NM5				
		WQ General & Regular DCM		WQ General & Regular DCM		WQ General & Regular DCM
		mid-ebb: 17:52		mid-ebb: 6:44		mid-ebb: 9:42
		mid-flood: 12:2		mid-flood: 13:56		mid-flood: 15:25
10	11	12 Site lease sting	13	14 Otto Incorrection	15	16
	Site Inspection	Site Inspection		Site Inspection	Site Inspection	
	CWD Survey (Vessel)	CWD Survey (Vessel)	CWD Survey (Vessel)			
	AR1A, AR2					AR1A, AR2
	NM1A, NM5	NM4, NM6				
		WQ General & Regular DCM		WQ General & Regular DCM		WQ General & Regular DCM
		mid-ebb: 12:43		mid-ebb: 14:08		mid-ebb: 15:29
		mid-flood: 7:20		mid-flood: 8:56		mid-flood: 10:13
17	18	19	20	21	22	23
	Site Inspection CWD Survey (Vessel, Land-baed)	Site Inspection CWD Survey (Vessel)	CWD Survey (Vessel)	Site Inspection	Site Inspection AR1A, AR2	
				NM4, NM6	NM1A, NM5	
		WQ General & Regular DCM mid-ebb: 17:44	8	WQ General & Regular DCM mid-ebb: 5:49		WQ General & Regular DCM mid-ebb: 8:25
		mid-flood: 12:00		mid-flood: 13:13	3	mid-flood: 14:21
24	25	26	27	28	29	30
	Site Inspection	Site Inspection		Site Inspection	Site Inspection	
	CWD Survey (Vessel, Land-baed)	CWD Survey (Vessel)			1	
				AR1A, AR2 NM1A, NM5	NM4, NM6	
		WQ General & Regular DCM		WQ General & Regular DCM		WQ General & Regular DCM
		mid-ebb: 11:30 mid-flood: 6:4		mid-ebb: 13:00 mid-flood: 7:56		mid-ebb: 14:18 mid-flood: 9:03
31		Notes:	· · · · · · · · · · · · · · · · · · ·	mu-nood. 7.50		mid-100d. 9.05
51						
		CWD - Chinese White Dolphin				
			NM1A/AR1A - Man Tung Road Park			
		Air quality and Noise Monitoring Station	NM4 - Ching Chung Hau Po Woon Prim NM5/AR2 - Village House, Tin Sum	ary School		
			NM6 - House No. 1, Sha Lo Wan			
		WQ - Water Quality				
		DCM - Deep Cement Mixing				

Tentative Monitoring Schedule of Next Reporting Period

Feb-21

Sunday	Monday	Tuesday		Wednesday	Thursday		Friday	Saturday
	1	2		3	4		5	6
	Site Inspection	Site Inspection		Site Inspection	Site Inspection		Site Inspection	
							CWD Survey (Vessel)	
		AR1A, AR2						AR1A, AR2
		NM1A, NM5		NM4, NM6				
		WQ General & Regular DCM			WQ General & Regular DCM			WQ General & Regular DCM
			16:24 10:43		mid-ebb: mid-flood:	18:21 12:00		mid-ebb: 8:02 mid-flood: 13:40
7	8	9	10.40	10	11	12.00	12	13
	Site Inspection	Site Inspection			Site Inspection			
	CWD Survey (Vessel)	CWD Survey (Vessel, Land-based)	n					
		, (,,	· ·		AR1A, AR2			
				NM4, NM6	NM1A, NM5			
		WQ General & Regular DCM			WQ General & Regular DCM			WQ General & Regular DCM
			11:55 16:43		mid-ebb: mid-flood:	13:18 7:59		mid-ebb: 14:28 mid-flood: 9:02
14	15	16	10.45	17	18	1.55	19	20
		Site Inspection		Site Inspection	Site Inspection		Site Inspection	
		CWD Survey (Vessel)		CWD Survey (Vessel)				
				AR1A, AR2				
		NM4, NM6		NM1A, NM5				
		WQ General & Regular DCM			WQ General & Regular DCM			WQ General & Regular DCM
			16:00 10:07		mid-ebb: mid-flood:	17:20 10:49		mid-ebb: 19:41 mid-flood: 11:43
21	22	23	10.07	24	25	10.43	26	27
	Site Inspection	Site Inspection			Site Inspection		Site Inspection	
	CWD Survey (Vessel, Land-based)	CWD Survey (Vessel)		CWD Survey (Vessel)				
	CWD Survey (Vessel, Land-based)	CWD Survey (Vessel) AR1A, AR2		CWD Survey (Vessel)				
	CWD Survey (Vessel, Land-based)			CWD Survey (Vessel) NM4, NM6				
	CWD Survey (Vessel, Land-based)	AR1A, AR2 NM1A, NM5 WQ General & Regular DCM			WQ General & Regular DCM			WQ General & Regular DCM
	CWD Survey (Vessel, Land-based)	AR1A, AR2 NM1A, NM5 WQ General & Regular DCM mid-ebb:	22:54		mid-ebb:	12:08		mid-ebb: 13:21
28	CWD Survey (Vessel, Land-based)	AR1A, AR2 NM1A, NM5 WQ General & Regular DCM mid-ebb:	22:54 10:32			12:08 6:57		
28	CWD Survey (Vessel, Land-based)	AR1A, AR2 NM1A, NM5 WQ General & Regular DCM mid-ebb:			mid-ebb:			mid-ebb: 13:21
28	CWD Survey (Vessel, Land-based)	AR1A, AR2 NM1A, NM5 WQ General & Regular DCM mid-ebb:			mid-ebb:			mid-ebb: 13:21
28	CWD Survey (Vessel, Land-based)	AR1A, AR2 NM1A, NM5 WQ General & Regular DCM mid-ebb:			mid-ebb:			mid-ebb: 13:21
28	CWD Survey (Vessel, Land-based)	AR1A, AR2 NM1A, NM5 WQ General & Regular DCM mid-ebb:			mid-ebb:			mid-ebb: 13:21
28	CWD Survey (Vessel, Land-based)	AR1A, AR2 NM1A, NM5 WQ General & Regular DCM mid-ebb:			mid-ebb:			mid-ebb: 13:21
28	CWD Survey (Vessel, Land-based)	AR1A, AR2 NM1A, NM5 WQ General & Regular DCM mid-ebb:			mid-ebb:			mid-ebb: 13:21
28	CWD Survey (Vessel, Land-based)	AR1A, AR2 NM1A, NM5 WQ General & Regular DCM mid-ebb:			mid-ebb:			mid-ebb: 13:21
28	CWD Survey (Vessel, Land-based)	AR1A, AR2 NM1A, NM5 WQ General & Regular DCM mid-ebb: mid-flood:			mid-ebb:			mid-ebb: 13:21
28	CWD Survey (Vessel, Land-based)	AR1A, AR2 NM1A, NM5 WQ General & Regular DCM mid-ebb: mid-flood:	10:32	NM4, NM6	mid-ebb:			mid-ebb: 13:21
28	CWD Survey (Vessel, Land-based)	AR1A, AR2 NM1A, NM5 WQ General & Regular DCM mid-ebb: mid-flood:	10:32 N	NM4, NM6	mid-ebb: mid-flood:			mid-ebb: 13:21
28	CWD Survey (Vessel, Land-based)	AR1A, AR2 NM1A, NM5 WQ General & Regular DCM mid-ebb: mid-flood:	10:32 N	NM4, NM6 SM1A/AR1A - Man Tung Road Park M4 - Ching Chung Hau Po Woon Prima M5/AR2 - Village House, Tin Sum	mid-ebb: mid-flood:			mid-ebb: 13:21
28	CWD Survey (Vessel, Land-based)	AR1A, AR2 NM1A, NM5 WQ General & Regular DCM mid-ebb: mid-flood:	10:32 N	NM4, NM6	mid-ebb: mid-flood:			mid-ebb: 13:21
28	CWD Survey (Vessel, Land-based)	AR1A, AR2 NM1A, NM5 WQ General & Regular DCM mid-ebb: mid-flood:	10:32 N	NM4, NM6 SM1A/AR1A - Man Tung Road Park M4 - Ching Chung Hau Po Woon Prima M5/AR2 - Village House, Tin Sum	mid-ebb: mid-flood:			mid-ebb: 13:21

Appendix C. Monitoring Results

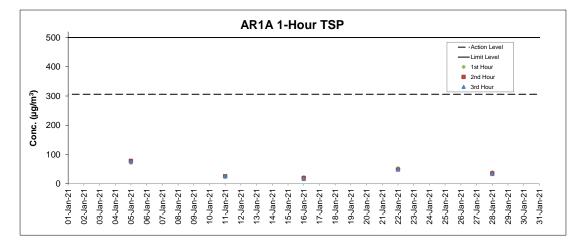
Air Quality Monitoring Results

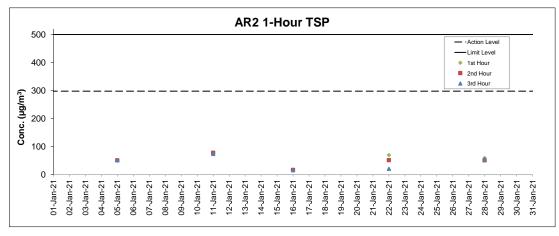
1-hour TSP Results Station: AR1A- Man Tung Road Park

				Wind Direction	2	Action Level	Limit Level
Date	Time	Weather	Wind Speed (m/s)	(deg)	1-hr TSP (μg/m³)	$(\mu g/m^3)$	(µg/m ³)
5-Jan-21	13:06	Cloudy	4.2	303	71	306	500
5-Jan-21	14:06	Cloudy	4.2	298	78	306	500
5-Jan-21	15:06	Cloudy	3.3	284	75	306	500
11-Jan-21	10:00	Cloudy	6.9	357	23	306	500
11-Jan-21	11:00	Cloudy	5.8	351	25	306	500
11-Jan-21	12:00	Cloudy	6.4	2	26	306	500
16-Jan-21	9:27	Sunny	3.3	65	22	306	500
16-Jan-21	10:27	Sunny	5.3	87	19	306	500
16-Jan-21	11:27	Sunny	5.0	89	16	306	500
22-Jan-21	13:22	Cloudy	4.2	313	53	306	500
22-Jan-21	14:22	Cloudy	1.4	Variable	48	306	500
22-Jan-21	15:22	Cloudy	4.2	274	49	306	500
28-Jan-21	13:31	Cloudy	5.0	303	39	306	500
28-Jan-21	14:31	Cloudy	8.1	313	35	306	500
28-Jan-21	15:31	Cloudy	7.5	314	33	306	500

1-hour TSP Results Station: AR2- Village House Tin Sum

Station: AKZ- VIIIa	ge nouse, mi	3um					
Date	Time	Weather	Wind Speed (m/s)	Wind Direction	1-hr TSP (μg/m³)	Action Level	Limit Level
Date	Time	weather	wind speed (iii/s)	(deg)	1-m 15P (µg/m)	(µg/m³)	(µg/m³)
5-Jan-21	13:35	Sunny	3.9	307	51	298	500
5-Jan-21	14:35	Sunny	3.3	291	51	298	500
5-Jan-21	15:35	Sunny	3.3	262	51	298	500
11-Jan-21	13:08	Cloudy	6.9	7	77	298	500
11-Jan-21	14:08	Cloudy	7.8	11	78	298	500
11-Jan-21	15:08	Cloudy	6.7	9	74	298	500
16-Jan-21	13:13	Sunny	9.2	94	18	298	500
16-Jan-21	14:13	Sunny	8.9	90	17	298	500
16-Jan-21	15:13	Sunny	9.4	94	16	298	500
22-Jan-21	12:26	Sunny	3.1	297	70	298	500
22-Jan-21	13:26	Sunny	4.4	309	52	298	500
22-Jan-21	14:26	Sunny	1.7	86	21	298	500
28-Jan-21	9:39	Cloudy	1.4	Variable	60	298	500
28-Jan-21	10:39	Cloudy	3.3	55	51	298	500
28-Jan-21	11:39	Cloudy	1.7	356	55	298	500





Notes 1. Major sta 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

Date	Weather	Time	Measured	Measured	
Date	weather	Time	L ₁₀ dB(A)	L ₉₀ dB(A)	L _{eq(30mins)} dB(A)
5-Jan-21	Cloudy	13:33	67.3	59.0	
5-Jan-21	Cloudy	13:38	69.3	58.1]
5-Jan-21	Cloudy	13:43	63.3	57.9	68
5-Jan-21	Cloudy	13:48	66.4	59.3	60
5-Jan-21	Cloudy	13:53	65.4	61.0	1
5-Jan-21	Cloudy	13:58	68.4	59.3	
11-Jan-21	Cloudy	10:29	74.0	55.4	
11-Jan-21	Cloudy	10:34	72.4	55.7	1
11-Jan-21	Cloudy	10:39	72.8	54.9	73
11-Jan-21	Cloudy	10:44	74.5	53.5	/3
11-Jan-21	Cloudy	10:49	72.9	53.2	1
11-Jan-21	Cloudy	10:54	73.2	54.6	1
22-Jan-21	Cloudy	8:35	67.2	56.0	
22-Jan-21	Cloudy	8:40	67.0	56.4	
22-Jan-21	Cloudy	8:45	65.3	57.6	67
22-Jan-21	Cloudy	8:50	65.3	57.1	67
22-Jan-21	Cloudy	8:55	65.2	57.2	1
22-Jan-21	Cloudy	9:00	60.2	56.8	
28-Jan-21	Cloudy	13:29	62.3	54.9	
28-Jan-21	Cloudy	13:34	61.6	54.8	1
28-Jan-21	Cloudy	13:39	63.3	54.9	64
28-Jan-21	Cloudy	13:44	67.1	58.5	04
28-Jan-21	Cloudy	13:49	58.1	51.3	7
28-Jan-21	Cloudy	13:54	60.1	52.8	

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

Noise Measurement Results

Station: NM4- Ching Chung Hau Po Woon Primary School

Date	Weather	Time	Measured	Measured	I 1=(+)
Date	weather	Time	L ₁₀ dB(A)	L ₉₀ dB(A)	L _{eq(30mins)} dB(A)
4-Jan-21	Cloudy	13:09	60.6	53.2	
4-Jan-21	Cloudy	13:14	60.9	54.3	
4-Jan-21	Cloudy	13:19	59.0	53.1	61
4-Jan-21	Cloudy	13:24	60.2	54.8	01
4-Jan-21	Cloudy	13:29	60.0	53.1	
4-Jan-21	Cloudy	13:34	59.7	53.6	
12-Jan-21	Cloudy	13:17	59.1	53.8	
12-Jan-21	Cloudy	13:22	60.1	53.6	
12-Jan-21	Cloudy	13:27	61.2	53.6	60
12-Jan-21	Cloudy	13:32	59.5	53.2	00
12-Jan-21	Cloudy	13:37	59.7	53.1	
12-Jan-21	Cloudy	13:42	58.6	51.9	
21-Jan-21	Cloudy	13:08	58.9	48.5	
21-Jan-21	Cloudy	13:13	55.5	48.3	
21-Jan-21	Cloudy	13:18	56.5	47.4	60
21-Jan-21	Cloudy	13:23	53.5	48.5	60
21-Jan-21	Cloudy	13:28	55.2	47.9]
21-Jan-21	Cloudy	13:33	59.7	47.4	
29-Jan-21	Sunny	13:15	61.7	55.8	
29-Jan-21	Sunny	13:20	58.9	54.5	
29-Jan-21	Sunny	13:25	60.9	54.4	61
29-Jan-21	Sunny	13:30	59.7	53.8	01
29-Jan-21	Sunny	13:35	61.1	54.5	
29-Jan-21	Sunny	13:40	61.3	54.7	

Remarks:

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

Noise Measurement Results Station: NM5- Village House, Tin Sum

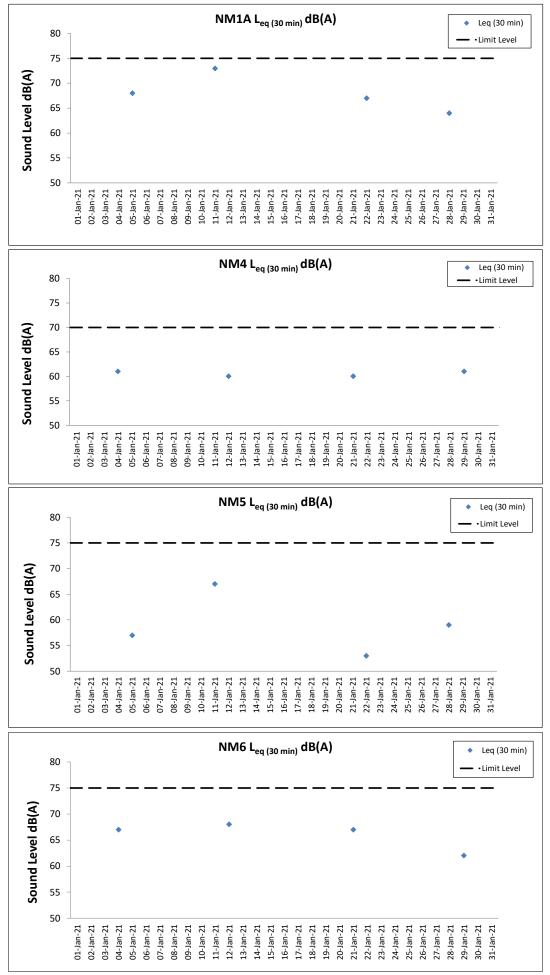
Data	Marathan	Time	Measured	Measured	• • • • •
Date	Weather	Time	L ₁₀ dB(A)	L ₉₀ dB(A)	L _{eq(30mins)} dB(A)
5-Jan-21	Sunny	13:35	51.3	43.5	
5-Jan-21	Sunny	13:40	48.6	44.1]
5-Jan-21	Sunny	13:45	52.0	43.7	57
5-Jan-21	Sunny	13:50	51.6	45.1	57
5-Jan-21	Sunny	13:55	52.9	44.9]
5-Jan-21	Sunny	14:00	60.0	44.7	
11-Jan-21	Cloudy	13:11	56.3	49.0	
11-Jan-21	Cloudy	13:16	58.2	49.9]
11-Jan-21	Cloudy	13:21	56.9	49.4	67
11-Jan-21	Cloudy	13:26	57.8	46.9	07
11-Jan-21	Cloudy	13:31	66.9	48.2	
11-Jan-21	Cloudy	13:36	58.7	48.5	
22-Jan-21	Sunny	12:26	50.6	43.5	
22-Jan-21	Sunny	12:31	61.4	44.6	
22-Jan-21	Sunny	12:36	47.4	43.7	53
22-Jan-21	Sunny	12:41	47.6	44.4	55
22-Jan-21	Sunny	12:46	60.4	44.1	
22-Jan-21	Sunny	12:51	46.4	43.5	
28-Jan-21	Cloudy	10:00	54.3	51.0	
28-Jan-21	Cloudy	10:05	59.3	51.6]
28-Jan-21	Cloudy	10:10	55.9	47.0	59
28-Jan-21	Cloudy	10:15	54.7	46.1	
28-Jan-21	Cloudy	10:20	60.8	44.8]
28-Jan-21	Cloudy	10:25	50.5	46.1	1

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

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

Data	Maathar	Time	Measured	Measured	
Date	Weather	Time	L ₁₀ dB(A)	L ₉₀ dB(A)	L _{eq(30mins)} dB(A)
4-Jan-21	Cloudy	15:46	59.8	54.3	
4-Jan-21	Cloudy	15:51	59.6	54.3	
4-Jan-21	Cloudy	15:56	66.1	54.1	67
4-Jan-21	Cloudy	16:01	70.6	59.6	67
4-Jan-21	Cloudy	16:06	69.3	59.6	
4-Jan-21	Cloudy	16:11	65.0	54.7	
12-Jan-21	Cloudy	15:49	68.3	56.9	
12-Jan-21	Cloudy	15:54	67.1	57.2	1
12-Jan-21	Cloudy	15:59	71.0	56.8	68
12-Jan-21	Cloudy	16:04	67.9	58.5	80
12-Jan-21	Cloudy	16:09	67.8	56.1	1
12-Jan-21	Cloudy	16:14	64.6	56.8	1
21-Jan-21	Cloudy	15:46	65.4	57.0	
21-Jan-21	Cloudy	15:51	69.2	61.0	
21-Jan-21	Cloudy	15:56	68.8	57.4	67
21-Jan-21	Cloudy	16:01	64.4	54.6	67
21-Jan-21	Cloudy	16:06	64.3	55.4	1
21-Jan-21	Cloudy	16:11	63.6	55.4	
29-Jan-21	Sunny	15:38	59.5	49.7	
29-Jan-21	Sunny	15:43	76.0	58.5	1
29-Jan-21	Sunny	15:48	71.4	46.5	62
29-Jan-21	Sunny	15:53	53.7	43.6	02
29-Jan-21	Sunny	15:58	61.4	45.3]
29-Jan-21	Sunny	16:03	64.2	52.2	

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



Notes

1. Major site activities carried out during the reporting period are summarized in Section 1.4 of the monthly EM&A report.

2. Weather conditions during monitoring are presented in the data tables above.

3. QA/QC requirements as stipulated in the EM&A Manual were carried out during measurement.

Water Quality Monitoring Results

Expansion of Hong Kong International Airport into a Three-Runway System Water Quality Monitoring Water Quality Monitoring Results on 02 January 21 during M 02 January 21 during Mid-Ebb Tide

Water Qua	lity Moni	toring Res	uits on		02 January 21	during Mid		e																				
Monitoring Station	Weather	Sea	Sampling	Water	Sampling Dep	th (m)	Current Speed	Current Direction	Water Ter	mperature (°C)		pН	Salin	ity (ppt)	DO S	aturation (%)	Dissolved Oxygen	Turbidi	y(NTU)	Suspende (mg		Total Alka (ppm)	. 00	ordinate IK Grid	Coordinate HK Grid	Chromi (µg/L		kel (µg/L)
Station	Condition	Condition	Time	Depth (m)			(m/s)		Value	Average	Value	Average	Value	Average	Value	Average	Value DA	Value	DA	Value	DA	Value I	DA (N	lorthing)	(Easting)	Value	DA Valu	lue DA
					Surface	1.0	0.4	296 304	17.7	17.7	8.1 8.1	8.1	31.7 31.7	31.7	102.0	102.0	8.0 8.0	15.1 15.1	-	12 12		87 88				<0.2	0.5	
C1	Fine	Moderate	14:38	8.6	Middle	4.3	0.4	290	17.6	17.6	8.1	8.1	31.6	31.6	102.5	102.5	8.1 8.1	16.0	16.0	11	11	91	8 06	15636	804259	<0.2	.0.2 0.5	5 0.5
01	1110	Moderate	14.50	0.0	WIGGIE	4.3	0.4	316 293	17.6 17.6		8.1 8.1	0.1	31.6 31.6		102.5 105.0		8.1 8.3	16.0 16.8	10.0	11 11		91 92		13030	004200	<0.2	0.2	4
					Bottom	7.6	0.3	316	17.6	17.6	8.1	8.1	31.6	31.6	105.0	105.0	8.3 8.3	16.8		11		92			, j	<0.2	0.0	
					Surface	1.0	0.2	135 147	16.7 16.7	16.7	8.2 8.2	8.2	30.3 30.3	30.3	99.7 99.7	99.7	8.1 8.1	8.1 8.1	-	8		87 86				0.2	1.3	
C2	Fine	Moderate	13:29	12.3	Middle	6.2	0.5	154	16.6	16.6	8.2	8.2	30.4	30.4	99.2	99.2	8.1	8.7	8.5	8	9	89	39 8	25702	806938	<0.2	0.2 1.2	2 1 2
02	1110	Moderate	13.23	12.5	WIGGIE	6.2 11.3	0.5	158 144	16.6 16.6		8.2 8.2	0.2	30.4 30.4	50.4	99.2 99.9		8.1 8.1	8.7 8.8	0.0	8 10		89 91		25702	000330	<0.2 <0.2	1.3	3
					Bottom	11.3	0.5	148	16.6	16.6	8.2	8.2	30.4	30.4	99.9	99.9	8.1 8.1	8.9		10		90			, j	<0.2	1.2	2
					Surface	1.0	0.4	286 288	17.7 17.7	17.7	8.1 8.1	8.1	30.4 30.4	30.4	95.1 95.1	95.1	7.6	4.6	-	4		87 87				<0.2	0.5	
C3	Fine	Moderate	15:39	11.8	Middle	5.9	0.2	257	17.8	17.8	8.1	8.1	30.5	30.5	93.4	93.4	7.4	5.2	5.2	5	5	89	39 8	22086	817793	<0.2	.0.2 0.6	6 0.6
00	1 110	moderate	10.00	11.0		5.9 10.8	0.2	282 120	17.8 17.8		8.1 8.1		30.5 30.5		93.4 93.0		7.4	5.2 5.9	- 0.2	5	Ŭ	90 91		22000		<0.2	0.2	5
					Bottom	10.8	0.1	121	17.8	17.8	8.1	8.1	30.5	30.5	93.0	93.0	7.4	5.9		6		91				<0.2	0.5	5
					Surface	1.0	0.1	134 143	17.4 17.4	17.4	8.1 8.1	8.1	31.3 31.3		105.9 105.9	105.9	8.4 8.4	6.9 6.9	-	8		86 87			, J	<0.2	0.7	
IM1	Fine	Moderate	14:16	4.9	Middle	-	-	-	-		-		-		-		- 8.4	-	7.0	-	9	-	38 8	17956	807134	-	<0.2	0.6
	1 110	modorato		1.0		- 3.9	- 0.1	- 311	- 17.3		- 8.1		- 31.3		- 107.1		8.5	- 7.0		- 10	Ŭ	- 89				- <0.2	0.6	
					Bottom	3.9	0.1	330	17.3	17.3	8.1	8.1	31.3	31.3	107.1	107.1	8.5	7.0		10		90				<0.2	0.5	5
					Surface	1.0	0.5	273 294	17.3 17.3	17.3	8.1 8.1	8.1	31.3 31.3	31.3	102.7	102.7	8.2	9.8 9.8	-	11 11	-	89 90			, J	<0.2	0.6	
IM2	Fine	Moderate	14:09	6.8	Middle	3.4	0.4	275	17.3	17.3	8.1	8.1	31.3	31.3	102.9	102.9	8.2 8.2	9.8	9.8	11	11	90	8 06	18184	806177	<0.2	<0.2 0.6	6 0.6
						3.4 5.8	0.4	296 272	17.3 17.3		8.1 8.1		31.3 31.4		102.9 103.9		8.2	9.8 9.7		11 12		90 91				<0.2	0.5	5
					Bottom	5.8	0.4	286	17.3	17.3	8.1	8.1	31.4		103.9	103.9	8.3 8.3	9.7		12		91				<0.2	0.7	7
					Surface	1.0	0.4	301 301	17.3 17.3	17.3	8.1 8.1	8.1	31.3 31.3		102.5	102.5	8.2	10.5	-	15 14		88 88			, }	<0.2	0.5	
IM3	Fine	Moderate	14:01	7.1	Middle	3.6	0.4	292	17.2	17.2	8.1	8.1	31.4	31.4	103.0	103.0	8.2 8.2	11.4	10.8	12	12	90	8 06	18778	805597	<0.2	<0.2 0.5	5 0.5
						3.6	0.4	305 296	17.2 17.2		8.1 8.1		31.4 31.4		103.0 104.9		8.2 8.4	11.4	-	13 10		91 91			, }	<0.2	0.5	
					Bottom	6.1	0.3	305	17.2	17.2	8.1	8.1	31.4		105.1	105.0	8.4 0.4	10.7		10		91			i	<0.2	0.5	5
					Surface	1.0	0.3	262 264	17.3 17.3	17.3	8.1 8.1	8.1	31.3 31.3		101.9	101.9	8.1	10.9	-	13 13	ł	87 87			, }	<0.2	0.5	
IM4	Fine	Moderate	13:52	7.5	Middle	3.8	0.3	255	17.2	17.2	8.1	8.1	31.3	31.3	102.2	102.2	8.2 8.2	11.0	11.1	12	12	89	39 8	19725	804623	<0.2	<0.2	
					D. #	3.8 6.5	0.3	263 252	17.2 17.2	17.0	8.1 8.1		31.3 31.4		102.2 104.3		8.2 8.3	11.0 11.5	-	12 11		90 91			, ł	<0.2	0.2	
					Bottom	6.5	0.3	274	17.2	17.2	8.1	8.1	31.4	31.4	104.3	104.3	8.3 0.3	11.5		10	İ	91			Ī	<0.2	0.6	
					Surface	1.0	0.2	255 279	17.3 17.3	17.3	8.1 8.1	8.1	31.4 31.4	31.4	101.6 101.6	101.6	8.1 8.1 8.1	14.1 14.1	+	14 13	ł	87 87			, ł	<0.2 <0.2	0.6	
IM5	Fine	Moderate	13:43	7.4	Middle	3.7	0.2	247 264	17.3 17.3	17.3	8.1 8.1	8.1	31.4 31.4	31.4	102.1 102.1	102.1	8.1 8.1	15.9 16.0	15.7	12 12	12	90 90	8 06	20753	804885	<0.2	<0.2	
					Bottom	6.4	0.2	232	17.2	17.2	8.1	8.1	31.4	31.4	103.1	103.1	8.2 8.2	16.9		11	İ	91			, t	<0.2	0.5	5
						6.4	0.2	232 258	17.2		8.1 8.1		31.4 31.3		103.1		8.2 0.2	16.9 10.3	+	11 10		92 86				<0.2	0.6	
					Surface	1.0	0.2	259	17.2	17.2	8.1	8.1	31.3	31.3	102.4	102.4	8.2 8.2	10.3	1	10	İ	88			, †	<0.2	0.6	6
IM6	Fine	Moderate	13:35	7.3	Middle	3.7	0.2	258 259	17.2 17.2	17.2	8.1 8.1	8.1	31.3 31.3	31.3	102.5 102.5	102.5	8.2 8.2	11.4	11.7	10 10	10	90 90	39 8	21052	805838	<0.2	<0.2	
					Bottom	6.3	0.1	238	17.2	17.2	8.1	8.1	31.3	31.3	103.8	103.8	8.3 8.3	13.5		9	İ	90			, t	<0.2	0.6	6
						6.3	0.1	249 275	17.2 17.2		8.1 8.1		31.3 31.3		103.8		8.3	13.5 9.9		9 11		91 86			ł	<0.2	0.5	
					Surface	1.0	0.2	297	17.2	17.2	8.1	8.1	31.3	31.3	101.4	101.4	8.1 8.1	9.9	1	11	İ	87			, †	<0.2	0.6	6
IM7	Fine	Moderate	13:28	8.6	Middle	4.3	0.2	216 216	17.2 17.2	17.2	8.1 8.1	8.1	31.3 31.3		101.7	101.7	8.1	10.4	10.8	10 10	10	89 90	39 8	21366	806856	<0.2	<0.2 0.6	
					Bottom	7.6	0.3	163	17.2	17.2	8.0	8.0	31.3	31.3	101.6	101.6	8.1 8.1	12.1	1	9	İ	91			, †	<0.2	0.5	5
						7.6	0.3	176 57	17.2 17.0		8.0 8.1		31.3 30.1		101.6 99.4		8.1	12.1	+	9		91 86			<u> </u>	<0.2	0.6	
					Surface	1.0	0.3	61	17.0	17.0	8.1	8.1	30.1	30.1	99.4	99.4	8.0 8.1	7.3	1	7	İ	85			, †	<0.2	0.7	7
IM8	Fine	Moderate	13:51	7.6	Middle	3.8	0.2	66 70	16.9 16.9	16.9	8.1 8.1	8.1	30.2 30.2	30.2	99.7 99.7	99.7	8.1	7.5	7.4	8	8	88 85	37 8	21838	808156	<0.2	<0.2 0.8	
					Bottom	6.6	0.2	64	16.7	16.7	8.1	8.1	30.3	30.3	99.7	99.8	8.1	7.4	1	9	ţ	90			, †	<0.2	0.8	8
DA: Depth-Aver						6.6	0.2	65	16.7		8.1		30.3		99.8		8.1	7.5		9		90				<0.2	0.8	3

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

Expansion of Hong Kong International Airport into a Three-Runway System Water Quality Monitoring Water Quality Monitoring Results on 02 January 21 during M 02 January 21 during Mid-Ebb Tide

Water Qua	ity Moni	toring Res	ults on		02 January 21	during Mid		e			-									1		1			1		
Monitoring	Weather	Sea	Sampling	Water	Sampling De	oth (m)	Current Speed	Current Direction	Water Te	mperature (°C)		pН	Salin	ity (ppt)	DO S	aturation (%)	Dissolved Oxygen	Turbid	ity(NTU)	Suspende (mg		Total Alkali (ppm)	Coordina HK Grid	HK Grid	(µg		Nickel (µg/L)
Station	Condition	Condition	Time	Depth (m)			(m/s)		Value	Average	Value	Average		Average		Average	Value DA		DA		DA	Value D	A (Northing) (Easting)			Value DA
					Surface	1.0	0.3	90 98	17.1 17.1	17.1	8.1 8.1	8.1	30.1 30.1	30.1	97.5 97.5	97.5	7.8	7.5	-	9		85 85			<0.2	+ 1	0.8
IM9	Fine	Moderate	13:58	7.2	Middle	3.6	0.3	81	17.0	17.0	8.1	8.1	30.1	30.1	99.1	00.1	8.0 7.9	7.8		9	9	88	822095	808826	<0.2	<0.2	0.7
						3.6	0.3	86 79	17.0 16.9		8.1 8.1		30.1 30.2		99.1 101.1		8.0 8.2	7.8	-	9		88 90			<0.2 <0.2		0.7 0.8
					Bottom	6.2	0.3	85	16.9 17.2	16.9	8.0	8.0	30.2	30.2	101.2	101.2	8.2 0.2	7.7		8	İ	90		_	<0.2		0.8
					Surface	1.0	0.2	95 103	17.2	17.2	8.1 8.1	8.1	30.0 30.0	30.0	97.2 97.2	97.2	7.8 7.8 7.8	7.6	_	10 10	ł	85 84			<0.2	r F	0.6
IM10	Fine	Moderate	14:05	7.6	Middle	3.8	0.2	85 90	17.1 17.1	17.1	8.1 8.1	8.1	30.1 30.1	30.1	97.2 97.2	97.2	7.8	7.4		8	8	89 89 8	8 822400	809794	<0.2 <0.2		0.8 0.7
					Bottom	6.6	0.2	47	17.0	17.0	8.1	8.1	30.1	30.1	97.6	07.6	7.9 7.0	6.9		7	Į	90			<0.2	I D	0.7
			-			6.6	0.2	51 73	17.0 17.2		8.1 8.1		30.1 30.2		97.6 98.1		7.9	7.0	-	7		90 85			<0.2		0.6
					Surface	1.0	0.0	73	17.2	17.2	8.1	8.1	30.2	30.2	98.1		7.9 7.9	6.7		4	ļ	85			<0.2		0.7
IM11	Fine	Moderate	14:16	8.9	Middle	4.5	0.0	74 77	17.1 17.1	17.1	8.1 8.1	8.1	30.2 30.2	30.2	98.2 98.3		7.9	7.0 6.9	6.9	6 7	6	88 89 8	822035	811445	<0.2 <0.2	<0.2	0.7 0.6
					Bottom	7.9	0.0	38 38	17.1 17.1	17.1	8.2 8.2	8.2	30.2 30.2	30.2	99.5 99.5		8.0 8.0	6.9 6.9	7	8 9	ļ	90 90			<0.2 <0.2	+	0.6
					Surface	1.0	0.0	132	17.3	17.3	8.1	8.1	30.2	30.2	98.3	083	7.9	6.0		6		85			<0.2		0.6
						1.0 4.3	0.2	142 140	17.3 17.2		8.1 8.1		30.2 30.2		98.3 97.9		7.9 7.9 7.9	6.0 6.0		6 8		85 88			<0.2 <0.2	t F	0.7
IM12	Fine	Moderate	14:23	8.6	Middle	4.3	0.1	144	17.2	17.2	8.1	8.1	30.2	30.2	97.9	97.9	7.9	6.0	5.9	7	7	89 ^o	8 821474	812055	<0.2	<0.2	0.7
					Bottom	7.6	0.1	160 167	17.1 17.1	17.1	8.1 8.1	8.1	30.2 30.2	30.2	98.4 98.4	98.4	7.9 7.9 7.9	5.8 5.8	-	8		90 90			<0.2	1 1	0.7
					Surface	1.0 1.0	-	-	16.9 16.9	16.9	8.1 8.1	8.1	30.0 30.0	30.0	98.9 98.9		8.0 8.0	5.3 5.3		4 4					-	ł	<u> </u>
SR1A	Fine	Calm	15:01	5.0	Middle	2.5			-		-		-		-		- 8.0	-	5.3	-	5	· ·	819983	812655		í.t	<u> </u>
U.I.I.I	1 110	ouin	10.01	0.0		2.5			- 16.9		- 8.1		- 30.0		- 99.3		8.0	- 5.3		- 6	Ŭ	-	010000	012000		1 -	-
-					Bottom	4.0			16.9	16.9	8.1	8.1	30.0	30.0	99.3	99.3	8.0 8.0	5.3	1	6		-				ĹШ	
					Surface	1.0	0.0	132 137	17.2 17.2	17.2	8.1 8.1	8.1	30.2 30.2	30.2	98.9 98.9		7.9 7.9 7.9	5.8 5.8	-	8	-	87 87			<0.2	1 1	0.7
SR2	Fine	Moderate	15:18	4.5	Middle	-	-	-	-	-	-		-		-	-	- 7.8	-	5.8	-	7	- 8	8 821441	814182	-	<0.2	- 0.7
					Bottom	3.5	0.1	151	17.2	17.2	8.1	8.1	30.2	30.2	99.6		8.0 8.0	5.8		7		89			<0.2		0.7
					Surface	3.5	0.1	161 115	17.2 17.1	17.1	8.1 8.1		30.2 30.0	30.0	99.7 96.7		8.0 7.8	5.8		6 9		- 89			<0.2	$ \rightarrow $	0.7
					Sunace	1.0 4.4	0.3	116 109	17.1 17.0	17.1	8.1 8.1	8.1	30.0 30.1	30.0	96.7 94.8		7.8 7.7	8.0 8.6	7	9 8	ļ	-			-	+ F	-
SR3	Fine	Moderate	13:47	8.7	Middle	4.4	0.3	112	17.0	17.0	8.1	8.1	30.1	30.1	94.8	94.8	7.6	8.6	9.4	8	8		822162	807558	-	í - F	-
					Bottom	7.7	0.3	83 85	16.8 16.8	16.8	8.1 8.1	8.1	30.1 30.1	30.1	81.8 81.5		6.6 6.6	11.5		8		-			-	1 1	-
					Surface	1.0	0.5	254	17.3	17.3	8.1	8.1	31.4	31.4	103.5	103.5	8.2	10.9		7		-			-	i i	-
SR4A	Fine	Moderate	15:00	9.0	Middle	1.0 4.5	0.5	269 250	17.3 17.3	17.3	8.1 8.1	8.1	31.4 31.4	24.4	103.5 103.1		8.2 8.2	10.9 12.5		8	10	-	817199	807830	-	1	-
SK4A	Fille	Moderate	15.00	9.0	Widdle	4.5 8.0	0.2	270 233	17.3 17.2		8.1 8.1		31.4 31.4	31.4	103.1 104.3		8.2 8.3	12.5 12.2	_	10	10	· ·	01/199	607630		+	
					Bottom	8.0	0.0	239	17.2	17.2	8.1	8.1	31.4	31.4	104.3	104.3	8.3 0.3	12.2		12					-	Ĺ	-
					Surface	1.0	0.2	122 126	17.6 17.6	17.6	8.1 8.1	8.1	31.0 31.0	31.0	106.2 106.2		8.4	10.7		9	+	<u> -</u>			-	11	<u> </u>
SR5A	Fine	Moderate	15:16	3.8	Middle	- ·	•	-		-	<u> </u>				-		- 8.4	-	10.3		11	<u> </u>	816603	810682	-	+ - F	
					Bottom	2.8	0.3	- 125	- 17.3	17.3	- 8.1	8.1	- 31.1		- 106.9		8.5 8.5	9.9		12	t	-			-	í t	
						2.8	0.3	134 41	17.3 17.6		8.1 8.1		31.1 30.9		106.9		8.5 8.3	9.9 11.6		12		-			-	Ь	-
					Surface	1.0	0.1	44	17.6	17.6	8.1	8.1	30.9	30.9	104.3		8.3 8.3	11.6		9	İ	-			-	i t	-
SR6A	Fine	Moderate	15:43	4.7	Middle	-	-	-		-	-	- I	-	-	-	-	· ["	-	11.5		10	-	817970	814731	-	r -	
					Bottom	3.7	0.1	277 291	17.5 17.5	17.5	8.1 8.1	8.1	30.9 30.9	30.9	105.6		8.4 8.4	11.4		10 10	Į	-			-	łł	
					Surface	1.0	0.6	61	17.8	17.8	8.1	8.1	30.5	30.5	94.6	94.6	7.5	4.8		6	l	-			-	r – t	
	_					1.0 8.2	0.7	62 14	17.8 17.8		8.1 8.1		30.5 30.5		94.6 94.0		7.5 7.4 7.5	4.8	+	6	+ _	-			-	1	-
SR7	Fine	Moderate	16:14	16.4	Middle	8.2	0.2	14	17.8	17.8	8.1	8.1	30.5	30.5	94.0	54.0	7.4	4.7	5.0	6	5	· ·	823633	823733	-	i - I	
					Bottom	15.4 15.4	0.2	55 59	17.8 17.8	17.8	8.1 8.1	8.1	30.5 30.5	30.5	94.7 94.7	94.7	7.5 7.5	5.6 5.6		4	<u> </u>	-			-		-
					Surface	1.0 1.0	-	-	17.1 17.1	17.1	8.1 8.1	8.1	30.2 30.2		100.6 100.6		8.1 8.1	6.1 6.1	_	8		-			-	t T	
SR8	Fine	Moderate	14:34	4.9	Middle	-	-	-	-		-		-		-		- 8.1	-	6.2		9	· .	820397	811635	-	i . t	
Cito				1.0		- 3.9	-	-	- 16.9		- 8.2		- 30.2		- 101.5		8.2	- 6.4	_	- 10	Ť	-	020001	0000	-	1 1	
					Bottom	3.9	-	-	16.9	16.9	8.2	8.2	30.2	30.2	101.5	101.5	8.2 8.2	6.4		9	t	-			-	i t	-

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

Expansion of Hong Kong International Airport into a Three-Runway System Water Quality Monitoring Water Quality Monitoring Results on 02 January 21 during M 02 January 21 during Mid-Flood Tide

Water Qua	ity Moni	toring Resi	ults on		02 January 21	during Mid-		Ide																					
Monitoring Station	Weather	Sea	Sampling	Water	Sampling Dep	th (m)	Current Speed	Current Direction	Water Te	emperature (°C)		pН	Salin	ity (ppt)	DO S	aturation (%)	Disso Oxy		Turbidity(NTU)	Suspende (mg/		Total Al (pp		Coordinate HK Grid	Coordinate HK Grid	(hð		el (µg/L)
Station	Condition	Condition	Time	Depth (m)			(m/s)		Value	Average	Value	Average		Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)		DA Value	
					Surface	1.0	0.1	141 141	17.0	17.0	8.2 8.2	8.2	30.4 30.4	30.4	100.0	100.0	8.1 8.0	-	13.0 13.0	-	9		86 86				<0.2	0.9	
	-					4.0	0.1	141	17.0		8.2		30.4		99.7		8.0	8.0	13.6		9		89				<0.2	0.6	
C1	Fine	Moderate	10:40	8.0	Middle	4.0	0.1	112	17.0	17.0	8.2	8.2	30.6	30.6	99.7	99.7	8.0		13.8	15.5	14	14	90	89	815632	804243	<0.2	<0.2 0.8	
					Bottom	7.0	0.0	41 42	16.9 16.9	16.9	8.1 8.1	8.1	30.8 30.8	30.8	100.6	100.6	8.1 8.1	8.1	20.0 19.6	-	19 18		90 90				<0.2	0.8	
					Surface	1.0	0.3	350	17.0	17.0	8.1	8.1	29.8	29.8	95.8	95.8	7.7		7.7		12		87				<0.2	0.6	i
						1.0 6.1	0.3	322 28	17.0 16.9		8.1 8.1		29.8 29.8		95.8 96.1		7.7	7.8	7.8 7.5	-	12 11		87 89				<0.2	0.6	
C2	Fine	Moderate	11:45	12.1	Middle	6.1	0.4	28	16.9	16.9	8.1	8.1	29.8	29.8	96.1	96.1	7.8		7.8	8.7	11	11	89	89	825695	806967	<0.2	<0.2 0.7	0.6
					Bottom	11.1	0.4	346 318	16.8 16.8	16.8	8.1 8.1	8.1	29.9 29.9	29.9	96.2 96.3	96.3	7.8	7.8	10.7 10.5	-	10 10		90 90				<0.2	0.6	
					Surface	1.0	0.4	241	17.0	17.0	8.1	8.1	30.3	30.3	96.1	96.1	7.7		6.7		9		88				<0.2	0.6	i
					Sunace	1.0	0.3	256 252	17.0 17.0		8.1 8.1	0.1	30.3 30.3	30.3	96.1		7.7	7.7	6.6 6.9	_	8 10		88 90				<0.2	0.8	
C3	Fine	Rough	09:21	11.4	Middle	5.7	0.4	252	17.0	17.0	8.1	8.1	30.3	30.3	95.9 95.9	95.9	7.7	F	6.8	7.7	10	10	90	90	822116	817815	<0.2 <0.2	<0.2 0.8	
					Bottom	10.4	0.4	266	17.0	17.0	8.1	8.1	30.3	30.3	97.5	97.7	7.9	7.9	9.8	F	10		92				<0.2	0.7	
					Surface	10.4	0.4	271	17.0 17.1	47.0	8.1 8.2		30.3 30.7	00.7	97.8 101.1	101.1	7.9 8.1		9.6 3.9		10 7		91 85				<0.2	0.8	
					Surrace	1.0	0.2	4	17.2	17.2	8.2	8.2	30.7	30.7	101.1	101.1	8.1	8.1	4.0	F	7		86				<0.2	1.1	1
IM1	Fine	Moderate	11:00	4.8	Middle	-	-	-	-	-	-	-	-	-	-	-	-	F	-	4.6	-	8	-	88	817966	807112	-	<0.2 -	1.2
					Bottom	3.8	0.1	345	17.1	17.1	8.2	8.2	30.8	30.8	101.1	101.1	8.1	8.1	5.3	F	8		89				<0.2	1.3	
					Surface	3.8	0.1	356 136	17.1 17.3	47.0	8.2 8.2		30.8 30.6	00.0	101.1 99.6	00.0	8.1 8.0		5.3 10.5		5		90 86				<0.2	1.2	
					Surrace	1.0	0.2	146	17.3	17.3	8.2	8.2	30.6	30.6	99.6	99.6	8.0	8.0	10.6	F	5		86				<0.2	0.8	
IM2	Fine	Moderate	11:08	6.7	Middle	3.4	0.2	122 132	17.2 17.2	17.2	8.2 8.2	8.2	30.6 30.6	30.6	99.5 99.5	99.5	8.0 8.0	F	11.9 11.0	11.5	6	6	89 90	89	818165	806171	0.3	0.2 0.9	
					Bottom	5.7	0.1	113	17.2	17.2	8.1	8.1	30.7	30.7	99.8	99.9	8.0	8.0	12.5	F	7		90				<0.2	0.9	1
					Surface	5.7	0.2	121 137	17.2	47.0	8.1 8.1		30.7 30.6	00.0	99.9 99.7	00.7	8.0 8.0		12.5 12.1		6 9		91 87				<0.2	0.9	
					Surrace	1.0	0.2	146	17.3	17.3	8.1	8.1	30.6	30.6	99.7	99.7	8.0	8.0	12.3	F	9		87				<0.2	1.2	
IM3	Fine	Moderate	11:16	7.0	Middle	3.5	0.2	136 144	17.1 17.1	17.1	8.1 8.1	8.1	30.6 30.6	30.6	100.1	100.2	8.0 8.0	F	12.5 12.3	13.4	12 12	12	90 90	90	818798	805615	<0.2	<0.2 1.4	
					Bottom	6.0	0.2	121 126	17.1 17.1	17.1	8.1 8.1	8.1	30.7 30.7	30.7	100.7 100.8	100.8	8.1 8.1	8.1	15.7 15.4	F	14 14		91 92				<0.2	1.3	
					Surface	1.0	0.2	62	17.1	47.0	8.1 8.1	0.4	30.7	30.5	99.3	99.3	8.1		15.4		14		92 87		1		<0.2	1.2	
					Sunace	1.0	0.0	63	17.2	17.2	8.1	8.1	30.5	30.5	99.3	99.3	8.0	8.0	12.3	F	17		88				<0.2	1.1	
IM4	Fine	Moderate	11:25	8.0	Middle	4.0	0.1	69 73	17.1 17.1	17.1	8.1 8.1	8.1	30.5 30.5	30.5	99.4 99.4	99.4	8.0 8.0	F	16.3 16.4	15.4	16 16	16	90 90	90	819747	804590	<0.2	0.2 1.2	
					Bottom	7.0	0.1	84 88	17.1 17.1	17.1	8.1 8.1	8.1	30.6 30.6	30.6	99.9 99.9	99.9	8.0 8.0	8.0	17.7 17.8	F	15 15		91 91				0.2	1.3	
					Surface	1.0	0.1	107	17.1	17.2	8.1	8.1	30.5	30.5	99.9	99.7	8.0		17.6		15		86				0.2	1.2	
					Sunace	1.0	0.1	117	17.2	17.2	8.1	0.1	30.5	30.5	99.7	99.7	8.0	8.1	15.7	F	18		86				0.3	1.1	
IM5	Fine	Moderate	11:32	7.4	Middle	3.7	0.0	107 112	17.1 17.1	17.1	8.1 8.1	8.1	30.5 30.5	30.5	101.1 101.2	101.2	8.1 8.1	F	17.9 17.9	17.3	16 17	16	90 90	89	820753	804848	<0.2	0.2 1.1	
					Bottom	6.4	0.1	82 83	17.1	17.1	8.1 8.1	8.1	30.5 30.5	30.5	102.5 102.6	102.6	8.2 8.2	8.2	18.4 18.5	F	14 14		91 91				<0.2 <0.2	1.3	
					Surface	6.4 1.0	0.1	196	17.2	17.2	8.2	8.2	30.5	30.7	101.6	101.6	8.2		18.5 4.6		14		86				<0.2	1.1	
					Sunace	1.0 3.7	0.1	213 177	17.2	17.2	8.2	0.2	30.7	30.7	101.6	101.6	8.1	8.1	4.6	F	10 9		86 89				<0.2	1.1	
IM6	Fine	Moderate	11:39	7.4	Middle	3.7	0.1	193	17.2 17.2	17.2	8.2 8.2	8.2	30.7 30.7	30.7	101.7 101.7	101.7	8.1 8.2	-	4.6 4.6	4.8	9	9	89 89	89	821070	805810	0.2	0.2 1.2	
					Bottom	6.4	0.1	138 141	17.0 17.0	17.0	8.1 8.1	8.1	30.7 30.7	30.7	102.0	102.0	8.2 8.2	8.2	5.1 5.5	F	7		91 91				<0.2	0.9	
					Surface	1.0	0.1	237	17.0	17.1	8.2	8.2	30.7	30.7	99.8	99.9	8.1		9.3		8		88		1		<0.2	1.1	
					Sunace	1.0	0.4	249	17.1	17.1	8.2	0.2	30.7	30.7	99.9	99.9	8.1	8.2	9.2	F	8		88				0.2	1.0	
IM7	Fine	Moderate	11:50	8.3	Middle	4.2	0.2	209 222	17.1 17.1	17.1	8.2 8.2	8.2	30.7 30.7	30.7	101.1 101.1	101.1	8.2 8.2	⊢	9.4 9.7	9.5	8	9	89 90	90	821341	806812	<0.2 <0.2	0.2 1.0	
					Bottom	7.3	0.2	141	17.1	17.1	8.2	8.2	30.7	30.7	101.1	101.1	8.2	8.2	9.6	F	9		91				<0.2	1.0	
					Curtana	7.3	0.2	152 55	17.1 17.1		8.2 8.1		30.7 30.1	20.4	101.1 95.7	05.7	8.2 7.7		9.6 7.9	-	9 5		92 86				<0.2	0.9	
					Surface	1.0	0.2	58	17.2	17.2	8.1	8.1	30.1	30.1	95.7	95.7	7.7	7.7	7.9	F	5		86				<0.2	0.6	;
IM8	Fine	Moderate	11:16	7.5	Middle	3.8 3.8	0.2	54 55	17.0 17.0	17.0	8.1 8.1	8.1	30.1 30.1	30.1	96.0 96.0	96.0	7.7	┝	8.3 8.3	8.1	8	8	89 88	88	821853	808123	<0.2 <0.2	<0.2 0.6	
					Bottom	6.5	0.1	44	16.8	16.8	8.0	8.0	30.1	30.1	96.7	96.8	7.8	7.8	8.2	ļ	10		90				<0.2	0.7	
DA: Depth-Aver						6.5	0.1	45	16.8		8.0		30.1	l	96.8		7.8		8.2		10		90		1	I	<0.2	0.6	

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

Expansion of Hong Kong International Airport into a Three-Runway System Water Quality Monitoring Water Quality Monitoring Results on 02 January 21 during M 02 January 21 during Mid-Flood Tide

Water Qua	lity Moni	toring Res	ults on		02 January 21	during Mid-	-Flood T	ide																				
Monitoring Station	Weather	Sea	Sampling	Water	Sampling Dep	th (m)	Current Speed	Current		mperature (°C)		pН		ity (ppt)		aturation (%)	Dissolv Oxyge	n	Turbidity(NIU) (nded Solid ng/L)	(pp	m) [']	Coordinate HK Grid	Coordinate HK Grid	Chron (µg	/L)	Nickel (µg/L)
	Condition	Condition	Time	Depth (m)	1	1.0	(m/s)		Value	Average	Value	Average		Average		Average		DA	Value	DA Valu	DA	Value	DA	(Northing)	(Easting)	Value		Value DA
					Surface	1.0	0.2	81 88	16.7 16.7	16.7	8.1 8.1	8.1	30.2 30.2	30.2	97.4 97.4	97.4	7.9 7.9	7.9	6.6 6.5	8		87 86				<0.2 <0.2		0.7
IM9	Fine	Moderate	11:09	6.8	Middle	3.4	0.2	92 98	16.6 16.6	16.6	8.1 8.1	8.1	30.2 30.2	30.2	97.3 97.3	97.3	7.9	/.s	7.2	7.0 7	7	89 88	88	822106	808805	<0.2		0.8 0.7
					Bottom	5.8	0.2	88	16.6	16.6	8.1	8.1	30.2	30.2	98.9	99.1	8.0	8.1	7.2	7		90				<0.2	. [0.7
						5.8	0.2	92 317	16.6 16.8		8.1 8.2		30.2 30.2		99.2 97.4		8.1 7.9	0.1	7.3 7.9	7	-	90 86				<0.2		0.8
					Surface	1.0	0.4	328	16.8	16.8	8.2	8.2	30.2	30.2	97.4	97.4	7.9	7.9	7.9	10		87				<0.2		0.7
IM10	Fine	Moderate	11:01	7.7	Middle	3.9	0.4	323 349	16.7 16.7	16.7	8.1 8.1	8.1	30.2 30.2	30.2	97.4 97.4	97.4	7.9 7.9		9.4 9.6	9.6 9	9	89 88	88	822377	809803	<0.2		0.8 0.8
					Bottom	6.7	0.4	318	16.7	16.7	8.2	8.2	30.2	30.2	97.8	97.9	7.0	7.9	11.5	7		89				<0.2		0.8
					Surface	6.7	0.4	329 318	16.7 16.9	16.9	8.2 8.1	8.1	30.2 30.3	30.3	97.9 97.3	97.3	7.9		11.4 9.6	9		90 86				<0.2 0.4		0.7
						1.0 4.2	0.5	328 317	16.9 16.8		8.1 8.1	0.1	30.3 30.3		97.3 97.6		7.9	7.9	9.5 10.6	9	7	87 88				0.3 <0.2		0.7
IM11	Fine	Moderate	10:50	8.3	Middle	4.2	0.5	327	16.8	16.8	8.1	8.1	30.3	30.3	97.7	97.7	7.9	-	10.5	10.8 13	12	89	88	822044	811459	<0.2	0.3	0.7
					Bottom	7.3	0.4	323 344	16.8 16.8	16.8	8.1 8.1	8.1	30.3	30.3	100.4	100.5	8.1	8.1	12.2 12.2	14	_	89 89				<0.2		0.6
					Surface	1.0	0.4	288	16.9	16.9	8.2	8.2	30.3	30.3	96.9	96.9	7.8		11.2	18		87				<0.2		0.6
	-					1.0	0.5	309 288	16.9 16.8		8.2 8.1		30.3 30.3		96.9 97.0		7.8	7.8	11.3 13.7	18	-	86 89				<0.2 <0.2		0.6
IM12	Fine	Moderate	10:45	8.4	Middle	4.2	0.4	301	16.8	16.8	8.1	8.1	30.3	30.3	97.0	97.0	7.8		13.7	13.2 16	16	88	89	821477	812047	<0.2	<0.2	0.7
					Bottom	7.4	0.4	294 314	16.8 16.8	16.8	8.2 8.2	8.2	30.3 30.3	30.3	97.3 97.4	97.4	7.9	7.9	14.6 14.6	13 13		91 90				<0.2 <0.2		0.6
					Surface	1.0	-	-	16.7 16.7	16.7	8.1 8.1	8.1	30.1 30.1	30.1	95.4 95.4	95.4	7.7	-	5.5 5.5	9	_	-				· ·	-	
SR1A	Fine	Moderate	10:05	4.7	Middle	2.4	-		-		-		-		-		-	7.7	-	5.7 -	7	-		819979	812654	-	E	
						2.4	-	-	- 16.7		- 8.1		- 30.1		- 96.7		- 7.8		- 5.9	6	-	-				-	F	-
					Bottom	3.7			16.7	16.7	8.1	8.1	30.1	30.1	96.9	96.8	7.9	7.9	5.9	6		-				-		-
					Surface	1.0	0.2	95 99	16.7 16.7	16.7	8.1 8.1	8.1	30.3 30.3	30.3	97.3 97.3	97.3	7.9 7.9	7.9	11.6 11.5	17	-	88 88				<0.2 <0.2		0.6
SR2	Fine	Moderate	09:46	3.8	Middle		-	-	-		-		-	-	-	-	-	1.5	-	13.2	15	-	89	821475	814144	· ·	<0.2	- 0.6
					Bottom	2.8	0.2	102	16.7	16.7	8.2	8.2	30.3	30.3	98.4	98.5	8.0	8.0	14.7	13		91				<0.2		0.5
						2.8	0.2	104 51	16.7 17.3		8.2 8.1		30.3 30.0		98.5 96.1		8.0		15.0 8.4	13	_	90				<0.2	\rightarrow	0.6
					Surface	1.0	0.1	53	17.3	17.3	8.1	8.1	30.0	30.0	96.1	96.1	7.7	7.7	8.4	10	1	-				-	F	-
SR3	Fine	Moderate	11:23	8.6	Middle	4.3	0.1	47 49	17.1 17.1	17.1	8.1 8.1	8.1	30.0 30.0	30.0	95.5 95.6	95.6	7.7 7.7	-	9.2 9.3	9.1 10	9	-	-	822137	807569	-		-
					Bottom	7.6	0.1	35 36	17.1 17.1	17.1	8.0 8.0	8.0	30.0 30.0	30.0	97.5 97.7	97.6	7.8	7.9	9.6 9.6	8	-	-				•	F	-
					Surface	1.0	0.1	221	17.0	17.0	8.2	8.2	30.4	30.4	98.4	98.4	7.9		3.4	7		-				-		-
	-					1.0	0.1	234 63	17.0 16.9		8.2 8.2		30.4 30.4		98.4 98.4		7.9	7.9	3.4 4.2	6	-	-				-	F	-
SR4A	Fine	Moderate	10:14	8.9	Middle	4.5 7.9	0.2	64 69	16.9 16.8	16.9	8.2 8.1	8.2	30.4 30.6	30.4	98.4 98.9	98.4	7.9		4.2 4.3	4.0 8	8	-	-	817209	807809	-		· ·
					Bottom	7.9	0.1	73	16.8	16.8	8.1 8.1	8.1	30.6	30.6	98.9 98.9	98.9	8.0 8.0	8.0	4.3	9		-				-	-	-
					Surface	1.0	0.1	26 26	17.1 17.1	17.1	8.2 8.2	8.2	30.3 30.3	30.3	98.6 98.6	98.6	7.9 7.9	-	11.2 11.2	9 10	_	-				-	-	-
SR5A	Fine	Moderate	09:56	3.2	Middle	-	-	-	-		-		-		-		-	7.9	-	11.2 -	11	-		816608	810706	-		· .
				-		- 2.2	- 0.1	- 34	- 17.1		- 8.2		- 30.4	30.4	- 98.7	98.7	7.9	7.9	- 11.1	13	-	-				-	-	-
					Bottom	2.2	0.1	35 201	17.0 17.2	17.1	8.2	8.2	30.4 30.3	30.4	98.7	98.7	7.9	7.9	11.5 4.7	13		-				-		-
					Surface	1.0	0.1	201 219	17.2	17.2	8.1 8.1	8.1	30.3	30.3	97.3 97.3	97.3	7.8	7.8	4.7	9		-				-	-	-
SR6A	Fine	Moderate	09:24	4.7	Middle	-	-	-	•			-	-	-	-		-	/.o	-	4.7	9	-	-	817976	814735	-		
					Bottom	3.7	0.1	223	17.2	17.2	8.1	8.1	30.3	30.3	97.3	97.3	7.8	7.8	4.6	10		-				•	. t	-
						3.7	0.1	240 116	17.2 17.6		8.1 8.0		30.3 30.5		97.3 93.5		7.8 7.4		4.6	10	-	-				-		
					Surface	1.0	0.0	116	17.6	17.6	8.0	8.0	30.5	30.5	93.5	93.5	7.4	7.4	10.4	12	1	-				-	F	-
SR7	Fine	Moderate	08:50	15.6	Middle	7.8	0.1	184 191	17.6 17.6	17.6	8.0 8.0	8.0	30.6 30.6	30.6	93.5 93.5	93.5	7.4 7.4		9.9 10.0	10.2 11	11	-	-	823659	823725	-	- -	
					Bottom	14.6 14.6	0.1	76 77	17.6 17.6	17.6	8.0 8.0	8.0	30.6 30.6	30.6	93.5 93.5	93.5	7.4	7.4	10.3 10.4	9	1	-				-	F	
					Surface	1.0	-	-	16.7	16.7	8.1	8.1	30.2	30.2	97.7	97.7	7.9		6.8	9		-				-		-
	-					1.0	-	-	16.7	10.1	8.1	0.1	30.2	00.2	97.7		7.9	7.9	6.8	9	-	-				-	┝	-
SR8	Fine	Moderate	10:34	4.6	Middle	- 3.6	-		- 16.6		-	-	-	-	-	<u> </u>	-		-	8.0	9	-	-	820401	811609	-		
					Bottom	3.6	-	-	16.6 16.6	16.6	8.2 8.2	8.2	30.2 30.2	30.2	99.3 99.5	99.4	8.1 8.1	8.1	9.2 9.3	8		-				-	_	-

Expansion of Hong Kong International Airport into a Three-Runway System Water Quality Monitoring Water Quality Monitoring Results on 05 January 21 during M 05 January 21 during Mid-Ebb Tide

Water Qual	ity Monit	toring Res	ults on		05 January 21	during Mid-		9	-		-		-																
Monitoring	Weather	Sea	Sampling	Water	Sampling Dep	th (m)	Current Speed	Current	Water Ten	nperature (°C)		pН	Salin	ity (ppt)	DO S	aturation (%)	Disso Oxyg		Turbidity(NTU)	Suspende (mg	ed Solids /L)		Alkalinity pm)	Coordinate HK Grid	Coordinate HK Grid	Chron (µg/		el (µg/L)
Station	Condition	Condition	Time	Depth (m)			(m/s)	Direction	Value	Average	Value	Average		Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)	Value	DA Value	DA
					Surface	1.0	0.2	42 46	17.2	17.2	8.1 8.1	8.1	29.4 29.4	29.4	101.8	101.8	8.2 8.2		6.0 6.1	-	9	ł	84 84	-			<0.2 <0.2	1.0	+
C1	Sunny	Calm	18:01	8.6	Middle	4.3	0.0	108	17.3	17.3	8.1	8.1	30.3	30.3	100.7	100.8	8.1	8.2	8.3	8.2	8	8	88	88	815640	804246	<0.2	<0.2 1.0	1
						4.3	0.0	114 140	17.3 17.3		8.1 8.1		30.3 30.4		100.8		8.1 8.1		8.3 10.4		8	-	88 93				<0.2 <0.2	0.9	-
					Bottom	7.6	0.0	152	17.3	17.3	8.1	8.1	30.4	30.4	100.7	100.7	8.1	8.1	10.4		6		93				<0.2	0.9	1
					Surface	1.0	0.3	3	17.8 17.8	17.8	8.3 8.3	8.3	31.5 31.5	31.5	103.5 103.5	103.5	8.2 8.2		4.2 4.2	-	7	ł	87 87	-			<0.2 <0.2	0.8	ł
C2	Fine	Moderate	16:08	11.6	Middle	5.8	0.3	13	17.8	17.8	8.3	8.3	31.7	31.7	102.5	102.5	8.1	8.2	5.5	5.0	6	6	89	90	825669	806930	<0.2	<0.2 0.8	0.9
÷-						5.8 10.6	0.3	13 51	17.8 17.8		8.3 8.3		31.7 31.8		102.5		8.1 8.0		5.5 5.3		6	-	90 93				<0.2	0.8	
					Bottom	10.6	0.2	54	17.8	17.8	8.3	8.3	31.8	31.8	101.5	101.5	8.0	8.0	5.3		4		94				<0.2	0.9	<u>1</u>
					Surface	1.0	0.3	88 95	18.0 18.0	18.0	8.3 8.3	8.3	31.9 31.9	31.9	96.6 96.6	96.6	7.6		2.0 2.0	ŀ	5		86 86	-			<0.2	1.1	+
C3	Fine	Moderate	18:12	12.6	Middle	6.3	0.3	89	18.1	18.1	8.2	8.2	32.0	32.0	96.0	96.0	7.5	7.6	2.3	2.2	5	5	89	89	822121	817804	<0.2	<0.2 1.0	
						6.3 11.6	0.3	91 88	18.1 18.1		8.2 8.2		32.0 32.1		96.0 96.9		7.5 7.6		2.3 2.2	ŀ	5		89 90	-			<0.2	1.0	-
					Bottom	11.6	0.2	95	18.1	18.1	8.2	8.2	32.1	32.1	96.9	96.9	7.6	7.6	2.2		4		91				<0.2	0.9	<u> </u>
					Surface	1.0	0.0	357 328	17.5 17.5	17.5	8.1 8.1	8.1	29.5 29.5	29.5	106.7	106.7	8.6 8.6		7.6 7.7	ŀ	5		84 84	-			<0.2 <0.2	0.9	+
IM1	Sunny	Calm	17:39	5.1	Middle	-	-	-	-	-			-	-	-	-	-	8.6	-	6.5		6	-	88	817936	807111	-	<0.2 -	0.9
				-		- 4.1	- 0.0	- 216	- 17.3		- 8.1		- 29.6		- 106.6		- 8.6		- 5.4	-	- 6		- 91	-			- <0.2	0.9	+
					Bottom	4.1	0.0	218	17.3	17.3	8.1	8.1	29.6	29.6	106.6	106.6	8.6	8.6	5.5		6		91				<0.2	0.9	
					Surface	1.0	0.1	358 329	17.2 17.2	17.2	8.1 8.1	8.1	29.6 29.6	29.6	102.9	102.9	8.3 8.3		7.4	ŀ	5		85 85	-			<0.2 <0.2	1.0	
IM2	Sunny	Calm	17:31	7.1	Middle	3.6	0.1	291	17.1	17.1	8.1	8.1	29.7	29.7	102.6	102.6	8.3	8.3	8.6	7.9	6	6	89	89	818182	806158	<0.2	<0.2 0.8	0.8
						3.6	0.1	316 259	17.1 17.1		8.1 8.1		29.7 29.9		102.6 103.0		8.3 8.3		8.6 7.8	ŀ	6	ł	89 92	-			<0.2 <0.2	0.8	+
					Bottom	6.1	0.1	275	17.1	17.1	8.1	8.1	29.9	29.9	103.1	103.1	8.3	8.3	7.8		7	İ	92				<0.2	0.8	1
					Surface	1.0	0.2	23 25	17.3 17.3	17.3	8.1 8.1	8.1	29.5 29.5	29.5	103.1	103.1	8.3 8.3		6.4 6.4	ŀ	4 4	ł	85 84	-			<0.2	1.0	
IM3	Sunny	Calm	17:25	7.3	Middle	3.7	0.1	36	17.2	17.2	8.1	8.1	29.5	29.5	102.6	102.6	8.3	8.3	6.6	7.1	5	5	89	89	818786	805608	<0.2	<0.2 0.9	0.9
					Darra	3.7 6.3	0.1	38 297	17.2 17.1		8.1 8.1		29.5 30.0		102.6	400.4	8.3 8.2		6.6 8.3	ŀ	5		89 93	-			<0.2 <0.2	0.9	1
					Bottom	6.3	0.1	318	17.1	17.1	8.1	8.1	30.0	30.0	102.1	102.1	8.2	8.2	8.3		6	İ	93				<0.2	1.0	1
					Surface	1.0	0.2	8	17.1 17.1	17.1	8.1 8.1	8.1	29.3 29.3	29.3	101.6	101.6	8.2 8.2		6.6 6.6	ŀ	4 4		82 82				<0.2	0.9	1
IM4	Sunny	Calm	17:15	8.2	Middle	4.1	0.1	332 339	17.0 17.0	17.0	8.1 8.1	8.1	29.7 29.7	29.7	100.4 100.4	100.4	8.1 8.1	8.2	7.2 7.3	7.2	5 5	5	89 89	88	819716	804586	<0.2 <0.2	<0.2 0.9	0.9
					Bottom	7.2	0.1	303	17.0	17.0	8.1	8.1	29.7	29.9	100.4	100.8	8.1	8.1	7.7		5		93				<0.2	0.9	ł
					Bollom	7.2	0.1	330 3	17.0 17.1	17.0	8.1 8.1	0.1	29.9 29.7	29.9	100.8	100.8	8.1 8.2	0.1	7.8 7.9		5 5	ļ	93 84				<0.2 <0.2	0.9	<u> </u>
					Surface	1.0	0.3	3	17.1	17.1	8.1	8.1	29.7	29.7	101.1	101.1	8.2	8.2	8.5		5		84				<0.2	0.8	
IM5	Sunny	Calm	17:02	7.2	Middle	3.6	0.3	4	17.0 17.0	17.0	8.1 8.1	8.1	29.7 29.7	29.7	100.9	100.9	8.1 8.1	0.2	8.8 8.8	8.6	5 5	5	88 88	88	820734	804848	<0.2 <0.2	<0.2 0.9	
					Bottom	6.2	0.3	4	17.0	17.0	8.1	8.1	29.7	29.7	101.2	101.2	8.2	8.2	9.0	Ŀ	5	Ì	93	1			<0.2	0.9	
						6.2	0.3	1 281	17.0 17.3		8.1 8.1		29.7 29.6		101.2		8.2 8.3	0.2	8.9 5.2		6		92 85	-			<0.2	0.9	-
					Surface	1.0	0.1	293	17.3	17.3	8.1	8.1	29.6	29.6	103.7	103.7	8.3	8.3	5.2	E	6	Į	86	1			<0.2	0.9	1
IM6	Sunny	Calm	16:54	7.6	Middle	3.8	0.0	329 339	17.1 17.1	17.1	8.1 8.1	8.1	29.8 29.8	29.8	102.9 102.9	102.9	8.3 8.3	0.0	5.4 5.5	5.7	6	6	88 88	89	821043	805835	<0.2 <0.2	<0.2 0.8	0.9
					Bottom	6.6	0.1	1	17.1	17.1	8.1	8.1	30.0	30.0	102.5	102.5	8.3	8.3	6.1	Ē	6	İ	93				<0.2	0.9	
						6.6	0.1	1 169	17.1 17.3		8.1 8.1		30.0 29.7		102.5		8.3 8.3	0.0	6.7 5.7		6		93 85				<0.2 <0.2	1.0	
					Surface	1.0	0.1	184	17.3	17.3	8.1	8.1	29.7	29.7	103.1	103.2	8.3	8.3	5.7		6	İ	84	1			<0.2	0.9]
IM7	Sunny	Calm	16:46	9.6	Middle	4.8	0.1	197 199	17.1 17.1	17.1	8.1 8.1	8.1	29.9 29.9	29.9	101.9	101.9	8.2 8.2		6.1 6.1	6.8	7	7	89 89	89	821326	806843	<0.2	<0.2 0.9	
					Bottom	8.6	0.1	234	17.1	17.1	8.1	8.1	30.0	30.0	101.1	101.2	8.1	8.1	8.5	Ē	7	İ	93	1			<0.2	0.9	1
						8.6	0.1	247 88	17.1 17.8		8.1 8.3		30.0 30.9		101.2		8.1 8.2		8.8 2.5		7		93 84				<0.2 <0.2	0.8	+
					Surface	1.0	0.3	88	17.8	17.8	8.3	8.3	30.9	30.9	103.9	104.0	8.2	8.2	2.4	E	2	İ	85	1			<0.2	0.8	1
IM8	Fine	Moderate	16:35	7.6	Middle	3.8	0.2	89 90	17.8 17.8	17.8	8.3 8.3	8.3	31.0 31.0	31.0	103.6	103.6	8.2 8.2		2.8 2.8	2.9	4 4	3	88 88	88	821848	808120	<0.2	<0.2 0.8	0.8
					Bottom	6.6	0.2	65	17.8	17.8	8.3	8.3	31.3	31.3	102.4	102.4	8.1	8.1	3.3	E	4	ţ	93	1			<0.2	0.8	1
DA: Depth-Aver						6.6	0.3	65	17.8		8.3		31.3		102.4		8.1		3.3		4		90	1	1		<0.2	0.8	

Expansion of Hong Kong International Airport into a Three-Runway System Water Quality Monitoring Water Quality Monitoring Results on 05 January 21 during M 05 January 21 during Mid-Ebb Tide

Water Qua	lity Moni	toring Res	ults on		05 January 21	during Mid		е					-											-	1		
Monitoring	Weather	Sea	Sampling	Water	Sampling Dep	oth (m)	Current Speed	Current	Water Te	mperature (°C)		рН	Salir	ity (ppt)	DO S	aturation (%)	Dissolved Oxygen	Turbidity	/(NTU)	Suspende (mg		Total Alkalir (ppm)	ity Coordinat HK Grid	HK Grid	Chron (µg		Nickel (µg/L)
Station	Condition	Condition	Time	Depth (m)			(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average V	alue DA	Value	DA	Value	DA	Value D			Value		Value DA
					Surface	1.0	0.2	70	17.7 17.7	17.7	8.2 8.2	8.2	30.9 30.9	30.9	101.7	101.7	8.0	3.0 3.0	+ +	5		86 86			<0.2 <0.2		0.8
IM9	Fine	Moderate	16:43	7.0	Middle	3.5	0.2	56	17.6	17.6	8.2	8.2	31.0	31.0	101.4	101.4	8.0	2.9	3.0	4	4	88	822082	808826	<0.2		0.9
					Bottom	3.5 6.0	0.2	57 43	17.6 17.7	17.7	8.2 8.2	8.2	31.0 31.0	31.0	101.4 101.1		8.0 8.0 8.0	2.9 3.0	1 1	4 3		87 89			<0.2 <0.2		0.8
						6.0	0.3	43	17.7		8.2 8.3		31.0		101.1		8.0	3.0		3		90 85			<0.2		0.9
					Surface	1.0	0.3	69	17.8	17.8	8.3	8.3	31.0	31.0	103.7	103.7	8.2 8.2	2.4	1 1	2		86			<0.2		0.9
IM10	Fine	Moderate	16:49	8.4	Middle	4.2	0.2	62 64	17.7 17.7	17.7	8.3 8.3	8.3	31.2 31.2	31.2	102.9 102.9		8.1 8.1	2.9 2.9	2.7	3	3	89 8 90 8	822385	809813	<0.2 <0.2		0.8 0.9
					Bottom	7.4	0.1	46 48	17.7	17.7	8.3 8.3	8.3	31.5 31.5		101.6 101.6		8.0 8.0	2.8	7 6	4		93 92			<0.2 <0.2		0.8
					Surface	1.0	0.1	153	17.8	17.8	8.3	8.3	31.6	21.6	103.0	103.0	8.1	2.3		3		87			<0.2		1.1
IM11	Fine	Moderate	17:00	7.7	Middle	1.0 3.9	0.1	162 92	17.8 17.8	17.8	8.3 8.3	8.3	31.6 31.6		103.0 102.0		8.1 8.0	2.3 2.5	2.5	4	3	87 90 8	822042	811469	<0.2 <0.2	-0.2	1.1 1.0 1.0
IIVITT	Fille	Moderate	17.00	1.1		3.9 6.7	0.1	100 87	17.8 17.8		8.3 8.3		31.6 31.6		102.0 101.8		8.0	2.5 2.6	2.5	3 2		89 92	622042	611409	<0.2 <0.2		1.0 1.0
					Bottom	6.7	0.1	89	17.8	17.8	8.3	8.3	31.6	31.6	101.8	101.8	8.0	2.6		2		90			<0.2		0.9
					Surface	1.0	0.1	140 147	17.8 17.8	17.8	8.3 8.3	8.3	31.6 31.6	31.6	103.2 103.2		8.1 8.1 8.1	2.9 2.9	┥┝	4 4		85 85			<0.2 <0.2		0.9
IM12	Fine	Moderate	17:07	8.3	Middle	4.2	0.1	151 159	17.8 17.8	17.8	8.3 8.3	8.3	31.6	31.6	102.2 102.2		8.0 8.0	2.4	2.6	5 4	5	86 8 88	821447	812031	<0.2 <0.2		1.0 1.1 1.0
					Bottom	7.3	0.1	139	17.7	17.7	8.3	8.3	31.6	31.6	101.4	101.4	8.0	2.5	1	5		90			<0.2		1.0
					Surface	7.3	0.1	145 -	17.7 17.8	17.8	8.3 8.3	8.3	31.6 31.7		101.4 102.9	102.0	8.0 8.1	2.5 2.9		5 6		90 -			<0.2		1.1 -
	_					1.0 2.5	-	-	17.8	11.0	8.3	0.0	31.7	01.1	102.9	102.0	8.1 8.1	2.9	+	-		-			-	-	-
SR1A	Fine	Moderate	17:37	4.9	Middle	2.5 3.9	· ·	-	- 17.9	-	-	-	-	-	-		-	- 3.1	3.0	- 5	6	· ·	819980	812663			-
					Bottom	3.9	-	-	17.9	17.9	8.3 8.3	8.3	31.8 31.8	31.8	102.4 102.4	102.4	8.0 8.0	3.1		5					-		-
					Surface	1.0	0.1	59 61	17.7 17.7	17.7	8.3 8.3	8.3	31.7 31.7		101.4 101.4		8.0	2.6	┥┝	5 5		89 88			<0.2	-	1.0
SR2	Fine	Moderate	17:51	4.2	Middle		-	-	-	-	-	-	-	-	-		- 8.0	-	2.6	-	4	- 9	821484	814149	-	<0.2	- 1.0
					Bottom	3.2	0.1	68 71	17.7	17.7	8.3	8.3	31.7		101.0		8.0 8.0	2.6	1	3		91			<0.2		0.8
					Surface	3.2	0.1	71	17.7 17.9	17.9	8.3 8.3	8.3	31.7 30.9		101.0 103.6	103.5	8.0 8.2	2.6 2.8		3		90 -			<0.2		1.0 -
	_					1.0	0.6	73 64	17.9 17.8		8.3 8.3		30.9 31.0		103.4		8.2 8.1 8.2	2.8	+ +	6		-			-	-	-
SR3	Fine	Moderate	16:28	8.4	Middle	4.2	0.5	68 69	17.8 17.7	17.8	8.3 8.3	8.3	31.0	31.0	103.0 102.5	1 1	8.1	3.5 4.7	3.7	4	4	-	822166	807590	-	· -	· ·
					Bottom	7.4	0.5	74	17.7	17.7	8.3	8.3	31.2	31.2	102.5	102.5	8.1 8.1	4.7		3		-			-		-
					Surface	1.0	0.3	69 75	17.3 17.3	17.3	8.1 8.1	8.1	29.4 29.4	29.4	105.4 105.4		8.5 8.5	5.6 5.6	+ +	4		-			-	_	-
SR4A	Sunny	Calm	18:23	9.2	Middle	4.6	0.2	62 67	17.2 17.2	17.2	8.1 8.1	8.1	29.6 29.6	29.6	103.9 104.0		8.4 8.4	5.7 5.7	5.7	5 5	5	· ·	817182	807801	÷	- F	<u>.</u>
					Bottom	8.2	0.2	50	17.2	17.2	8.1	8.1	29.6	20.6	103.9	102.0	8.4	5.9		5		-			-	E	-
					Surface	8.2	0.2	53 45	17.2 17.3	17.3	8.1 8.1	8.1	29.6 30.3	30.3	103.9 104.0		8.4 8.3	5.9 7.7		6 4		-			-		-
						1.0	0.0	45	17.3	17.5	8.1	0.1	30.3	50.5	104.0	104.0	8.3 8.3	7.6	╉ _{╺╺} ┡	4	_	-			-	F	-
SR5A	Sunny	Calm	18:39	4.1	Middle	-	-	-	-	-	-	-	-	-	-		-		7.7	-	6	-	816611	810708	-	· F	
					Bottom	3.1 3.1	0.1	318 333	17.3 17.3	17.3	8.1 8.1	8.1	30.3 30.3	30.3	103.6 103.5	103.6	8.3 8.3	7.7		7 7					-		-
					Surface	1.0	0.0	28 28	17.6 17.6	17.6	8.2 8.2	8.2	30.2 30.2	30.2	104.1 104.1		8.3	12.1 12.1	┨╴┠	8	. –	-			-	F	-
SR6A	Sunny	Calm	19:07	4.3	Middle		•	-	<u>·</u>	-	-		-	-	-		- 8.3	-	12.3		7	<u> </u>	817986	814722	-	- -	<u> </u>
					Bottom	3.3	0.0	117	17.6	17.6	8.2	8.2	30.2	30.2	- 103.7		8.3 8.3	12.5	1	6		-			É	.	-
L				[3.3	0.0	125 50	17.6 18.2		8.2 8.2		30.2 32.1	32.1	103.7 95.6		8.3 7.5	12.4 3.3		6	1	-	+		-	\rightarrow	-
					Surface	1.0 8.4	0.2	54 50	18.2 18.2	18.2	8.2 8.2	8.2	32.1 32.1		95.6 94.5		7.5 7.4 7.5	3.3 2.7	+ . F	4		-			-	F	-
SR7	Fine	Moderate	18:44	16.8	Middle	8.4 15.8	0.3	50	18.2	18.2	8.2	8.2	32.1	32.1	94.5	54.5	7.4	2.7	2.9	4 3	4	· ·	823619	823762	-	- -	-
					Bottom	15.8	0.3	28 28	18.2	18.2	8.2 8.2	8.2	32.1 32.1	32.1	94.1 94.1	94.1	7.3 7.3 7.3	2.6 2.6		3	<u> </u>	-			-		-
					Surface	1.0	-	-	17.8 17.8	17.8	8.3 8.3	8.3	31.6 31.6		104.3 104.2		8.2	10.4	┨╷╷	5 5						F	-
SR8	Fine	Moderate	17:16	4.8	Middle	-	-	-		-	-	-	-	-	-	- -	- 8.2	-	10.9	-	5	· .	820382	811641	-	- -	<u> </u>
					Bottom	- 3.8	•	-	- 17.8	17.8	8.3	8.3	31.6	31.6	- 102.6		- 8.1 8.1	- 11.2	1	5		-			-	Ŀ	-
					Dottom	3.8		-	17.8	17.0	8.3	0.0	31.6	51.0	102.6	102.0	8.1 0.1	11.2		6		-			-		-

Expansion of Hong Kong International Airport into a Three-Runway System Water Quality Monitoring Water Quality Monitoring Results on 05 January 21 during M 05 January 21 during Mid-Flood Tide

Water Qua	ity Moni	toring Res	ults on		05 January 21	during Mid-		ide	-						-														
Monitoring Station	Weather	Sea	Sampling	Water	Sampling Dep	th (m)	Current Speed	Current Direction	Water Te	emperature (°C)		pН	Salin	ity (ppt)	DO S	aturation (%)	Disso Oxy		Turbidity(NTU)	Suspende (mg.		Total Al (pp		Coordinate HK Grid	Coordinate HK Grid	Chron (µg		(µg/L
Station	Condition	Condition	Time	Depth (m)			(m/s)		Value	Average	Value	Average		Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)	Value	DA Value	DA
					Surface	1.0	0.3	41 44	17.0 17.0	17.0	8.1 8.1	8.1	29.3 29.3	29.3	100.0	100.0	8.1 8.1		6.9 6.9	-	7 6		86 86				<0.2 <0.2	0.7	ł
C1	Cloudy	Calm	12:28	8.2	Middle	4.1	0.3	35	17.0	17.0	8.1	8.1	29.3	29.7	99.2	99.2	8.0	8.1	9.8	8.9	6	6	88	89	815629	804260	<0.2	.0.2 0.7	0.1
C1	Cloudy	Call	12.20	0.2	widdle	4.1	0.3	36 30	17.0 17.0	17.0	8.1 8.1	0.1	29.7	23.1	99.2	35.2	8.0		9.2 9.8	0.9	6		87 93	09	813029	804200	<0.2 <0.2	0.7	0.1
					Bottom	7.2	0.3	30	17.0	17.0	8.1	8.1	29.9 29.9	29.9	98.9 98.9	98.9	8.0 8.0	8.0	9.8	F	6		93				<0.2	0.7	ł
					Surface	1.0	0.2	12	17.8 17.8	17.8	8.2 8.2	8.2	30.8 30.8	30.8	100.8 100.8	100.8	8.0 8.0	-	2.7	-	3		87 86				<0.2	0.8	-
C2	Fine	Moderate	13:19	12.0	Middle	6.0	0.2	23	17.6	17.7	8.2	8.2	30.8	30.9	100.8	100.6	8.0	8.0	4.4	4.4	4		88	89	825658	806955	<0.2	<0.2 0.8	0.8
02	FILE	wouerate	13.19	12.0	widdle	6.0 11.0	0.3	23 35	17.7	17.7	8.2 8.2	0.2	30.9 31.2		100.6 99.8		8.0 7.9		4.4 6.0	4.4	4	4	89 91	09	823038	800955	<0.2 <0.2	0.9	0.0
					Bottom	11.0	0.2	35	17.7	17.7	8.2	8.2	31.2	31.2	99.8	99.8	7.9	7.9	6.0		5		91				<0.2	0.8	ł
					Surface	1.0	0.3	264 270	17.6 17.6	17.6	8.2 8.2	8.2	31.5 31.5	31.5	100.0	100.0	7.9	-	2.7	-	4		86 87				<0.2	1.0	-
C3	Fine	Moderate	11:10	11.4	Middle	5.7	0.4	271	17.6	17.6	8.3	8.3	31.7	31.7	99.4	99.4	7.9	7.9	4.6	4.6	5	5	91	90	822090	817816	<0.2	.0.2 0.9	0.9
03	1110	Woderate	11.10	11.4		5.7 10.4	0.4	275 278	17.6 17.6		8.3 8.3		31.7 31.7		99.4 99.6		7.9 7.9		4.6 6.4	4.0	5 5		91 93		022030	01/010	<0.2 <0.2	<0.2 1.0	- 0.0
					Bottom	10.4	0.3	280	17.6	17.6	8.3	8.3	31.7	31.7	99.6	99.6	7.9	7.9	6.4		6		93				<0.2	0.9	1
					Surface	1.0	0.1	326 341	17.2 17.2	17.2	8.1 8.1	8.1	30.1 30.1	30.1	102.8	102.8	8.3 8.3	-	6.0 6.0	F	6		85 85				<0.2	0.8	ł
IM1	Cloudy	Calm	12:47	4.1	Middle	-	-		-	-	-		-		-		-	8.3	-	6.0	-	7		89	817966	807117	-	-0.2 -	0.9
	,					- 3.1	- 0.1	- 299	- 17.2		- 8.1		- 30.1		- 102.8		- 8.3		- 6.1	-	- 8		- 94				- <0.2	0.8	1
					Bottom	3.1	0.1	324	17.2	17.2	8.1	8.1	30.1	30.1	102.8	102.8	8.3	8.3	6.1		8		93				<0.2	0.9	<u> </u>
					Surface	1.0	0.3	9	17.1 17.1	17.1	8.1 8.1	8.1	29.3 29.3	29.3	101.4 101.4	101.4	8.2 8.2		6.7 6.7	F	8 8		85 85				<0.2	1.0 0.9	ł
IM2	Cloudy	Calm	12:56	6.8	Middle	3.4	0.2	351	16.9	16.9	8.1 8.1	8.1	29.9	29.9	100.5 100.5	100.5	8.1 8.1	8.2	7.4	7.3	7	7	90	89	818182	806148	< 0.2	<0.2 0.9	0.
					Bottom	3.4 5.8	0.2	323 325	16.9 16.9	16.9	8.1	8.1	29.9 30.1	30.1	100.5	100.5	8.1	8.1	7.5 7.8	F	7		89 93				<0.2 <0.2	0.9	ł
					Bollom	5.8	0.2	353 350	16.9 17.0	10.9	8.1 8.1	0.1	30.1 29.6	30.1	100.5	100.5	8.1 8.1	0.1	7.7		6		93 86				<0.2 <0.2	1.0	<u>[</u>
					Surface	1.0	0.3	322	17.0	17.0	8.1	8.1	29.6	29.6	100.3	100.4	8.1	8.1	7.4		7		86				<0.2	1.0	1
IM3	Cloudy	Calm	13:04	7.2	Middle	3.6	0.3	319 321	16.9 16.9	16.9	8.1 8.1	8.1	29.9 29.9	29.9	99.7 99.7	99.7	8.1 8.1	0.1	8.9 9.0	8.7	7	7	89 89	89	818802	805587	0.2	0.2 1.0	
					Bottom	6.2	0.3	305	16.9	16.9	8.1	8.1	29.9	29.9	99.8	99.8	8.1	81	9.8	L	6		92				<0.2	0.9	
					1	6.2	0.3	330 353	16.9 17.0		8.1 8.1		29.9 29.3		99.8 100.2		8.1 8.1	0.1	9.8 7.1		6		92 86				<0.2	0.9	<u> </u>
					Surface	1.0	0.5	325	17.0	17.0	8.1	8.1	29.3	29.3	100.2	100.2	8.1	8.1	7.1	Ľ	7		86				<0.2	0.9	İ
IM4	Cloudy	Calm	13:13	8.3	Middle	4.2	0.4	340 313	16.9 16.9	16.9	8.1 8.1	8.1	29.9 29.9	29.9	99.9 99.9	99.9	8.1 8.1	-	7.5 7.6	7.3	6	6	89 89	89	819716	804628	<0.2	<0.2 0.8	0.9
					Bottom	7.3	0.3	337	16.9	16.9	8.1	8.1	29.9	29.9	100.0	100.0	8.1	8.1	7.4	Ľ	6		93				<0.2	1.0	ļ.
					Surface	7.3	0.4	337 12	16.9 17.0	17.0	8.1 8.1	8.1	29.9 29.6	29.6	100.0	101.1	8.1 8.2		7.3 7.6		6		93 85				<0.2	0.9	
					Sunace	1.0 3.8	0.6 0.5	12 11	17.0 17.0	17.0	8.1 8.1	0.1	29.6 29.7	29.0	101.1 100.8	101.1	8.2 8.1	8.2	7.6 8.4	F	6		86 88				<0.2 <0.2	1.0	
IM5	Cloudy	Calm	13:20	7.6	Middle	3.8	0.5	11	17.0	17.0	8.1	8.1	29.7	29.7	100.8	100.8	8.1		8.5	8.5	6	6	88	89	820711	804846	<0.2	<0.2 0.9	
					Bottom	6.6 6.6	0.4	11 11	17.0 17.0	17.0	8.1 8.1	8.1	29.8 29.8	29.8	101.7	101.7	8.2 8.2	8.2	9.4 9.3	F	7		93 94				<0.2	0.9	ł
					Surface	1.0	0.1	40	17.2	17.2	8.1	8.1	29.5	29.5	101.9	101.9	8.2		4.8		6		82				<0.2	0.9	
						1.0	0.1	40 67	17.2 17.1		8.1 8.1		29.5 29.9		101.9 101.8		8.2 8.2	8.2	4.8 6.3	-	6		83 90				<0.2	0.9	ł
IM6	Cloudy	Calm	13:28	7.3	Middle	3.7	0.1	69	17.1	17.1	8.1	8.1	29.9	29.9	101.8	101.8	8.2		6.4	5.8	5	5	89	88	821051	805807	<0.2	<0.2 0.9	0.8
					Bottom	6.3 6.3	0.1	48 49	17.1	17.1	8.1 8.1	8.1	30.0 30.0	30.0	101.9	101.9	8.2 8.2	8.2	6.1 6.1	-	4		91 91				<0.2	0.9	ł
					Surface	1.0	0.1	182	17.1	17.1	8.1	8.1	29.4	29.4	100.8	100.8	8.2		5.3		7		85				<0.2	0.8	
11.17	Claut	Calm	40.07		M dalla	1.0 4.2	0.1	188 161	17.1 17.1		8.1 8.1	0.4	29.4 29.5	20 F	100.8 101.2	404.0	8.2 8.2	8.2	5.3 5.9	64	7	_	85 89		004050	000040	<0.2 <0.2	0.9	1
IM7	Cloudy	Calm	13:37	8.4	Middle	4.2 7.4	0.1	173	17.1	17.1	8.1	8.1	29.5	29.5	101.2	101.2	8.2		5.9	0.4	5 3	5	89	89	821353	806846	<0.2	<0.2 0.9	
					Bottom	7.4	0.2	142 149	17.1 17.1	17.1	8.1 8.1	8.1	30.1 30.1	30.1	101.6 101.6	101.6	8.2 8.2	8.2	8.0 8.0		3		93 93				<0.2 <0.2	0.9	
					Surface	1.0	0.1	102	17.6	17.6	8.2 8.2	8.2	30.8 30.8	30.8	100.4 100.4	100.4	8.0		2.4		8		87 87				<0.2	0.9	-
IM8	Fine	Moderate	12:51	7.5	Middle	3.8	0.1	106 75	17.6 17.6	17.6	8.2	8.2	30.8	30.8	100.2	100.2	8.0 8.0	8.0	2.4 2.4	2.6	7	7	92	90	821843	808134	<0.2 <0.2	.0.2 0.8	
IIVIO	FILE	woderate	12:51	7.5	widdie	3.8 6.5	0.1	80 54	17.6 17.6		8.2 8.2	0.2	30.8 31.0		100.2 99.9		8.0 7.9		2.4 2.9	2.0	7 7	'	91 92	90	021043	000134	<0.2 <0.2	<0.2 0.8 0.9	0.0
					Bottom	6.5	0.0	54	17.6	17.6	8.2	8.2	31.0	31.0	99.9 99.9	99.9	7.9	7.9	2.9	-	7		92				<0.2	0.9	t
A: Depth-Aver	anad	-		-								-		-					· · · · · ·										-

Expansion of Hong Kong International Airport into a Three-Runway System Water Quality Monitoring Water Quality Monitoring Results on 05 January 21 during M 05 January 21 during Mid-Flood Tide

Water Qua	lity Moni	toring Res	ults on		05 January 21	during Mid-	-Flood T	ide																			
Monitoring Station	Weather	Sea	Sampling	Water	Sampling Dep	th (m)	Current Speed	Current		mperature (°C)	1	рН		ity (ppt)		aturation (%)	Dissolved Oxygen	Turbidit		Suspende (mg	/L)	(ppm)	HK Gri	HK Gri	ite (µg	omium g/L)	Nickel (µg/L)
Station	Condition	Condition	Time	Depth (m)			(m/s)		Value	Average	Value	Average	Value	Average		•	/alue DA		DA	Value	DA		A (Northin	g) (Easting			Value DA
					Surface	1.0	0.1	142 146	17.7 17.7	17.7	8.3 8.3	8.3	31.3 31.3	31.3	101.4		8.0	3.1 3.1	-	7		86 87			<0.2		0.9
IM9	Fine	Moderate	12:45	7.0	Middle	3.5	0.1	152	17.7	17.7	8.3	8.3	31.3	31.3	101.0	101.0	8.0	3.3	3.3	8	8	90	9 82210	80878	<0.2	1.02	0.9
					Datter	3.5 6.0	0.1	160 149	17.7 17.6	47.0	8.3 8.3		31.3 31.3	31.3	101.0 100.5		8.0 7.9 7.0	3.3 3.5	-	8		90 91			<0.2		0.9
					Bottom	6.0	0.1	150	17.6	17.6	8.3	8.3	31.3	31.3	100.5	100.5	7.9	3.5	1	8	İ	91		_	<0.2		0.8
					Surface	1.0 1.0	0.3	311 323	17.5 17.5	17.5	8.3 8.3	8.3	31.5 31.5	31.5	101.1 101.1		8.0 8.0 8.0	3.7		10 10		86 87			<0.2 <0.2		0.9
IM10	Fine	Moderate	12:37	7.8	Middle	3.9 3.9	0.3	299 300	17.5 17.5	17.5	8.3 8.3	8.3	31.5 31.5	31.5	100.8		8.0 8.0	4.0	3.8	9	9	90 90	9 82239	80980	<0.2		0.9 0.9
					Bottom	6.8	0.3	302	17.5	17.5	8.3	8.3	31.5	31.5	100.8	100.8	8.0 8.0	3.8	1	8	İ	89			<0.2		0.9
						6.8	0.3	311 288	17.5 17.6		8.3 8.3		31.5 31.6		100.8		8.0 7.9	3.8	-	8		90 86			<0.2	┢━┥	0.9
					Surface	1.0	0.5	289	17.6	17.6	8.3	8.3	31.6	31.6	100.4	100.4	7.9 7.9	6.5	1	10	Ì	86			<0.2		0.8
IM11	Fine	Moderate	12:27	7.6	Middle	3.8 3.8	0.3	288 311	17.6 17.6	17.6	8.3 8.3	8.3	31.7 31.7	31.7	99.9 99.9		7.9 7.9	7.3	7.2	8	9	89 89	8 82207	81146	<0.2		0.8 0.8
					Bottom	6.6 6.6	0.3	292 309	17.6 17.6	17.6	8.3 8.3	8.3	31.7 31.7	31.7	100.4 100.4		7.9 7.9	7.9 7.9	7	8	I	90 90			<0.2 <0.2		0.9
					Surface	1.0	0.5	311	17.6	17.6	8.3	8.3	31.6	31.6	101.2	101.2	8.0	6.9		9		87		-	<0.2		0.8
	_					1.0	0.5	315 309	17.6 17.6		8.3 8.3		31.6 31.6		101.2		8.0 8.0	6.9 9.8	4	9		87 89			<0.2	1 1	0.9
IM12	Fine	Moderate	12:20	8.1	Middle	4.1	0.5	316	17.6	17.6	8.3	8.3	31.6	31.6	100.9	100.9	8.0	9.8	9.1	8	8	90	0 82143	81206	+ <0.2	<0.2	0.8
					Bottom	7.1	0.4	302 303	17.6 17.6	17.6	8.3 8.3	8.3	31.6 31.6	31.6	100.2 100.2		7.9 7.9 7.9	10.6 10.7	-	6		92 93			<0.2	+ +	0.9
					Surface	1.0	-	-	17.8 17.8	17.8	8.3 8.3	8.3	31.8 31.8	31.8	100.7 100.7		7.9 7.9	6.2 6.2	-	8 8					-		-
SR1A	Fine	Moderate	11:49	5.3	Middle	2.7	-	-	-		-	-	-		-		- 7.9	-	7.4	-	7	-	81997	81266	, -	<u> </u>	
						2.7	-	-	- 17.8		- 8.3		- 31.8		- 100.5		7.9 7.0	- 8.5	-	- 6		-			, <u> </u>		-
					Bottom	4.3	-	-	17.8 17.6	17.8	8.3	8.3	31.8	31.8	100.5	100.5	7.9	8.5	1	6	ļ	-		_	-	\square	-
					Surface	1.0 1.0	0.0	119 129	17.6	17.6	8.3 8.3	8.3	31.5 31.5	31.5	100.9 100.9		8.0 8.0 8.0	5.0 5.1		6		90 90			<0.2 <0.2		0.9
SR2	Fine	Moderate	11:31	4.4	Middle	-	-	-	•		-	-	-	-	-		- 0.0		5.3	-	6		1 82147	81418		<0.2	- 0.9
					Bottom	3.4	0.0	78	17.5	17.5	8.3	8.3	31.5	31.5	100.7		8.0 8.0	5.6	1	5	ļ	91			<0.2		0.9
					Surface	3.4	0.0	84 68	17.5 17.8	17.8	8.3 8.2		31.5 30.8	30.8	100.7 100.3		8.0 8.0 7.9	5.6 2.8		5		92	-	-	<0.2	┢━─┤	0.9
					Sunace	1.0 4.3	0.0	74 23	17.8 17.6		8.2 8.2	8.2	30.8 30.8		100.3 98.9		7.9 7.8 7.9	2.8 4.8	7	8 6	ļ	-			-		-
SR3	Fine	Moderate	12:57	8.5	Middle	4.3	0.1	24	17.6	17.6	8.2	8.2	30.8	30.8	98.9	98.9	7.8	4.8	5.3	6	7	-	82214	80756	4 <u>-</u>	-	
					Bottom	7.5	0.1	42	17.6 17.6	17.6	8.2 8.2	8.2	30.8 30.8	30.8	99.1 99.1		7.9 7.9 7.9	8.4 8.4	-	6		-			-		-
					Surface	1.0	0.1	72	17.1	17.1	8.1	8.1	30.3	30.3	100.4	100.4	8.1	6.0	-	8		-			-		-
SR4A	Cloudy	Calm	12:03	9.1	Middle	1.0 4.6	0.1	74 49	17.1 17.1	17.1	8.1 8.1	8.1	30.3 30.3	30.3	100.4 100.3		8.1 8.1	6.0 6.0	6.0	8	7	-	81719	80782			-
SK4A	Cloudy	Caim	12.03	9.1	Wilddle	4.6 8.1	0.1	49 44	17.1 17.1		8.1 8.1	0.1	30.3 30.3		100.3 100.4		8.1 8.1	6.0 5.9	0.0	7 6	ĺ,	-	- 01/19	007620		1 ·	-
					Bottom	8.1	0.1	46	17.1	17.1	8.1	8.1	30.3	30.3	100.4	100.4	8.1 8.1	5.9		6							-
					Surface	1.0	0.0	127 136	17.2 17.2	17.2	8.1 8.1	8.1	30.3 30.3	30.3	100.6		8.1 8.1	8.1 8.4	-	7		-			-		-
SR5A	Cloudy	Calm	11:45	3.1	Middle		-		-	-	-	-	-	-	-	-	- 8.1	-	7.9	-	7	-	81661	81068	; -	_	
					Bottom	- 2.1	- 0.0	- 210	17.2	17.2	8.1	8.1	30.3	30.3	100.9		8.1 8.1	- 7.6		6		-			-	1	-
						2.1	0.0	224 237	17.2 17.3		8.1 8.0		30.3 30.3		100.9		8.1	7.6		6		-		-	-	\vdash	-
					Surface	1.0	0.1	256	17.3	17.3	8.0	8.0	30.3	30.3	100.5		8.0 8.0	7.0	1	8	ļ	-			-	1	-
SR6A	Cloudy	Calm	11:06	4.1	Middle	-	-	-	-	-	-	-	-	-	-		•	-	8.5	-	8	-	81797	81473	1 -	+ - +	
					Bottom	3.1 3.1	0.1	231	17.3 17.3	17.3	8.1	8.1	30.3 30.3	30.3	99.8 99.8		8.0 8.0	9.1 9.1	1	7	ļ	-			-		-
					Surface	1.0	0.2	238 67	18.0	18.0	8.1	8.1	32.0	32.0	95.5	05.5	7.5	4.4		6		-			-	╞──┤	-
	_					1.0 8.2	0.2	72 73	18.0 17.9		8.1 8.1		32.0 32.0		95.5 94.9		7.5 7.4 7.5	4.1 5.0	+	6	ł					† [-
SR7	Fine	Moderate	10:40	16.3	Middle	8.2	0.2	73	17.9	17.9	8.1	8.1	32.0	32.0	94.9	94.9	7.4	5.0	4.8	4	4	-	- 82361	82375	• -	1 - 1	<u> </u>
					Bottom	15.3 15.3	0.2	67 70	17.9 17.9	17.9	8.1 8.1	8.1	32.0 32.0	32.0	94.4 94.4		7.4 7.4 7.4	5.1 5.1		3		-			-		-
					Surface	1.0 1.0	-	-	17.8 17.8	17.8	8.3 8.3	8.3	31.4 31.4	31.4	102.9 102.9		8.1 8.1	4.2	-	8					-	T I	-
SR8	Fine	Moderate	12:10	4.4	Middle	1.0	-	-			-		- 31.4	-	- 102.9		- 8.1	4.2	4.3	-	7		82037	81162	, .	<u>†</u> _	-
2110						- 3.4	-	-	- 17.7		- 8.3		- 31.4		- 102.2		- 8.1	- 4.3	+	- 6	+ .	-	02007	51152	-		-
					Bottom	3.4	-		17.7	17.7	8.3	8.3	31.4	31.4	102.3		8.1 8.1	4.4	1	6	t	-			-		-

Expansion of Hong Kong International Airport into a Three-Runway System Water Quality Monitoring Water Quality Monitoring Results on 07 January 21 during M 07 January 21 during Mid-Ebb Tide

Water Qua	ity Moni	toring Res	uits on		07 January 21	during Mid-		e																			
Monitoring Station	Weather	Sea	Sampling	Water	Sampling Dep	th (m)	Current Speed	Current Direction	Water Ter	mperature (°C)		pН	Salin	ity (ppt)	DO S	aturation (%)	Dissolve Oxygen		irbidity(1	NTU) Suspende (mg		Total Alkalin (ppm)	ty Coordinate HK Grid	Coordinate HK Grid	Chron		lickel (µg/L)
Station	Condition	Condition	Time	Depth (m)			(m/s)		Value	Average	Value	Average	Value	Average	Value	Average	Value D	A V	alue	DA Value	DA	Value DA	(Northing)	(Easting)	Value	DA Va	alue DA
					Surface	1.0	0.2	243 251	17.6 17.6	17.6	7.8	7.8	31.2 31.1	31.1	103.9	103.7	8.2 8.2		5.4 5.4	5		87 88			<0.2		1.0 0.8
C1	Cloudy	Calm	07:05	8.3	Middle	4.2	0.2	230	17.6	17.6	7.8	7.8	31.2	31.2	104.0	103.8	8.2 8.	2	5.6	5.6 8	7	90 01	815599	804228	<0.2		0.8
01	Cloudy	Cam	07.00	0.5	WIGGIE	4.2	0.2	251 239	17.6 17.6		7.8 7.8		31.2 31.2		103.5		8.2 8.1		5.7 5.7	9	· '	90 94	015555	004220	<0.2 <0.2	(0.9
					Bottom	7.3	0.2	239	17.6	17.6	7.8	7.8	31.2	31.2	102.7	103.2	8.2 8.		5.8	8		94			<0.2		0.8
					Surface	1.0	3.1 3.2	317 325	16.9 16.9	16.9	8.1 8.1	8.1	29.1 29.1	29.1	99.0 99.0	99.0	8.1 8.1		4.4 4.4	4		85 85			<0.2		1.1 1.1
C2	Cloudy	Moderate	08:18	11.7	Middle	5.9	3.1	329	17.0	17.0	8.1	8.1	29.3	29.3	98.6	98.6	8.0 8.	1	7.9	7.5 5	6	88	825700	806950	<0.2	.0.2 1	1.1 1.1
02	Cloudy	Moderate	00.10	11.7	WIGGIE	5.9 10.7	3.2 3.2	331 333	17.0 17.0		8.1 8.1		29.3 29.3		98.6 98.6		8.0 8.0	1	B.1 0.1	7.5 6 8		88 93	025700	000330	<0.2 <0.2	1	1.2
					Bottom	10.7	3.4	335	17.0	17.0	8.0	8.0	29.3	29.3	98.6	98.6	8.0 0.	1	0.3	7	•	92			<0.2	1	1.1
					Surface	1.0	0.3	88 96	17.2	17.2	8.1 8.1	8.1	30.1 30.1	30.1	96.0 96.0	96.0	7.7		3.7 3.8	4		86 87			<0.2		0.9
C3	Cloudy	Moderate	05:55	12.1	Middle	6.1	0.3	73	17.4	17.4	8.1	8.1	30.2	30.2	95.7	95.7	7.7 /.	·	4.4	4.2 5	5	87	822097	817795	<0.2	.0.2	0.9
	,					6.1 11.1	0.3	73 77	17.4 17.4		8.1 8.2		30.2 30.2		95.7 96.8		7.7		4.5 4.5	4 5		88 93			<0.2		0.8
					Bottom	11.1	0.3	77	17.3	17.4	8.2	8.2	30.2	30.2	96.9	96.9	7.8	° .	4.5	5		93			<0.2	0	0.8
					Surface	1.0	0.1	200 206	17.6 17.6	17.6	7.8	7.8	31.0 31.0	31.0	104.7 103.8	104.3	8.3 8.2		2.6 2.4	6		88 89			<0.2		0.8
IM1	Cloudy	Calm	07:20	4.6	Middle		-	-	-		-	-	-	-	-	-	- 8.		-	4.1 -	6	- 90	817942	807153	-	<0.2	- 0.8
					Bottom	3.6	0.1	205	17.6	17.6	7.8	7.8	31.0	31.0	- 103.3	103.3	8.2 8.		- 5.7	- 6		90			< 0.2	-	0.8
					Bollom	3.6	0.1	225 192	17.6 17.4		7.8 7.8		31.0 30.8	31.0	103.3		8.2 ^{0.} 8.3		5.7 7.0	7		91 86	_		<0.2		0.8
					Surface	1.0	0.2	207	17.4	17.4	7.8	7.8	30.8	30.8	104.5	104.5	8.3	,	7.1	8		87			<0.2	0	0.8
IM2	Cloudy	Calm	07:25	6.6	Middle	3.3	0.2	189 195	17.4 17.4	17.4	7.8	7.8	30.8 30.8	30.8	103.5 103.6	103.6	8.2 8.3		7.3 7.5	8.1 7	7	92 93 91	818140	806182	<0.2		0.8 0.8
					Bottom	5.6	0.2	176	17.4	17.4	7.8	7.8	30.8	30.8	103.2	103.4	8.2	, !	9.7	6		95			<0.2	0	0.9
						5.6	0.2	178 166	17.4 17.5		7.8 7.8		30.8 30.7		103.5		8.3 ^{0.} 8.3		9.7 3.1	6		95 86			<0.2		0.8
					Surface	1.0	0.3	174	17.5	17.5	7.8	7.8	30.7	30.7	104.6	104.7	8.3	, 🗆	2.9	10		87			<0.2	0	0.8
IM3	Cloudy	Calm	07:40	6.7	Middle	3.4	0.2	160 165	17.5 17.5	17.5	7.8 7.8	7.8	30.7 30.7	30.7	103.8 104.5	104.2	8.3 8.3		2.9 3.0	3.6 10 9	9	90 91 91	818763	805581	<0.2		0.8 0.8
					Bottom	5.7 5.7	0.2	153 164	17.5 17.5	17.5	7.8	7.8	30.7 30.7	30.7	103.3	102.9	8.2 8.1 8.		4.7 4.8	8		95 95			<0.2 <0.2		0.8
					Surface	1.0	0.2	194	17.4	17.4	7.8	7.8	30.6		104.8	105.0	8.4		5.2	8		87			<0.2	0	0.8
						1.0	0.6	205 187	17.4 17.4		7.8 7.8		30.6 30.6		105.1		8.4 8.3		5.3 5.8	7		87 91			<0.2		0.8
IM4	Cloudy	Calm	07:50	7.9	Middle	4.0	0.5	191	17.4	17.4	7.8	7.8	30.6	30.6	103.1	103.7	8.2		6.6	5.7 6	7	91 91	819741	804602	<0.2	<0.2	0.8
					Bottom	6.9 6.9	0.4	198 208	17.4 17.4	17.4	7.8	7.8	30.6 30.6	30.6	102.7	103.4	8.2 8.3 8.		5.6 5.5	5		96 95			<0.2		0.8
					Surface	1.0	0.6	205	17.4	17.4	7.8	7.8	30.5	30.5	102.5	102.7	8.2		5.2	5		87			<0.2	0	0.8
IM5	01	Calm			Middle	1.0	0.6	213 200	17.4 17.4	17.4	7.8 7.8	7.8	30.5 30.5	30.5	102.9 103.2	103.0	8.2 8.2 8.		5.3 6.9	6 7	7	88 92 92	820737	804843	<0.2 <0.2		0.9
CIVII	Cloudy	Caim	08:01	7.4	Widdle	3.7 6.4	0.6	209 197	17.4 17.4	17.4	7.8 7.8	1.0	30.5 30.5	30.5	102.8 102.8	103.0	8.2 8.2		6.8 5.5	6.0 <u>6</u> 8	. /	92 95	620/3/	004043	<0.2 <0.2		0.8
					Bottom	6.4	0.5	209	17.4	17.4	7.8	7.8	30.5	30.5	102.8	102.8	8.2 8.	2	6.0	9		95			<0.2	0	0.8
					Surface	1.0	0.5	234 236	17.4 17.4	17.4	7.8	7.8	30.5 30.5	30.5	103.9 103.6	103.8	8.3 8.3		3.8 3.9	8		86 87			<0.2		0.9
IM6	Cloudy	Calm	08:05	6.9	Middle	3.5	0.5	242	17.4	17.4	7.8	7.8	30.5	30.5	103.9	103.9	8.3 0.	3	4.6	47 8	8	92 01	821066	805821	<0.2	_0.2	0.9
inio	cloudy	ouin	00.00	0.0		3.5 5.9	0.5	264 246	17.4 17.4		7.8 7.8		30.5 30.5		103.9 103.1		8.3 8.2		4.7 5.4	7		93 94	021000	000021	<0.2	(0.9
					Bottom	5.9	0.4	259	17.4	17.4	7.8	7.8	30.5	30.5	103.5	103.3	8.3 8.	3	5.9	8		95			<0.2	0	0.9
					Surface	1.0	0.3	254 267	17.4 17.4	17.4	7.8	7.8	30.4 30.4	30.4	103.8 104.0	103.9	8.3 8.3		5.3 5.1	8		88 89			<0.2		0.8
IM7	Cloudy	Calm	08:10	7.8	Middle	3.9	0.3	243	17.4	17.4	7.8	7.8	30.5 30.5	30.5	103.4	103.3	8.2 8.2	° :	5.2	5.3 7	7	92 92 91	821368	806842	<0.2	.0.2	0.8 0.9
					Bottom	3.9 6.8	0.3	245 260	17.5	17.5	7.8	7.8	30.5	30.5	101.5	102.2	8.1	2	5.0 5.3	7		93			<0.2 <0.2	0	0.9
					Bottom	6.8 1.0	0.2	282 143	17.5 16.9		7.8 8.1	1.0	30.5 29.4		102.8		8.2 8.2		5.7 5.1	6		93 89			<0.2 <0.2		0.9
					Surface	1.0	2.4	143	16.9	16.9	8.1	8.1	29.4	29.4	100.5	100.5	8.2 8	2	5.1	5		89			<0.2		1.0
IM8	Cloudy	Moderate	07:47	7.4	Middle	3.7	2.3 2.4	156 159	16.9 16.9	16.9	8.1 8.1	8.1	29.4 29.4	29.4	100.3 100.2	100.3	8.1 8.1		5.1 5.1	5.5 5	5	90 91 91	821848	808131	<0.2 <0.2		1.0 1.0
					Bottom	6.4	2.4	150	16.9	16.9	8.1	8.1	29.4	29.4	100.1	100.1	8.1	1	6.2	5		92			<0.2	1	1.0
DA: Depth-Aver						6.4	2.5	161	16.9		8.1		29.4	-	100.1		8.1 0.		6.2	5		93			<0.2		0.9

Expansion of Hong Kong International Airport into a Three-Runway System Water Quality Monitoring Water Quality Monitoring Results on 07 January 21 during M 07 January 21 during Mid-Ebb Tide

Water Qua	lity Moni	toring Res	ults on		07 January 21	during Mid-	-Ebb Tid	le																			
Monitoring Station	Weather	Sea	Sampling	Water	Sampling Dep	th (m)	Current Speed	Current	Water Te	mperature (°C)	F	н	Salin	ity (ppt)		aturation (%)	Dissolved Oxygen	Turbidity	· · ·	Suspende (mg	/L)	(ppm)	HK G	d HK	inate (j	romium µg/L)	Nickel (µg/L)
Station	Condition	Condition	Time	Depth (m)			(m/s)		Value	Average	Value	Average	Value	Average		Average	/alue DA	Value	DA	Value	DA		A (Northi	ig) (Eas			Value DA
					Surface	1.0	1.7	226 243	16.9 16.9	16.9	8.1 8.1	8.1	29.4 29.4	29.4	100.4	100.4	8.1	4.7		3		88 88			<0.2		1.0
IM9	Cloudy	Moderate	07:42	7.3	Middle	3.7	1.8	235	16.9	16.9	8.1	8.1	29.4	29.4	100.2	100.2	8.1	4.9	4.8	4	4	89	0 82210	9 808	<0.2	2 .0.2	1.1 1.0
	cloudy	modorato	01.12	1.0		3.7	1.9 1.6	246 237	16.9 16.9		8.1 8.1		29.4 29.4		100.2		8.1 8.1	4.9 4.8	1.0	5		90 91	02210	000	<0.2	2	1.0
					Bottom	6.3	1.8	256	16.9	16.9	8.1	8.1	29.4	29.4	100.1	100.1	8.1	4.9		5		92			<0.2	2	1.0
					Surface	1.0	1.4 1.6	22 22	16.9 16.9	16.9	8.1 8.1	8.1	29.4 29.4	29.4	100.1 100.1	100.1	8.1	4.9 4.9	+	6		87 87			<0.2		0.9
IM10	Cloudy	Moderate	07:35	7.7	Middle	3.9	1.5	13	16.9	16.9	8.1	8.1	29.4	29.4	99.9	00.0	8.1	4.9	5.7	5	6	91	1 8223	9 809	<0.2	2 _0 2	1.0 1.0
	-				Darra	3.9 6.7	1.7	13 18	16.9 16.9	16.9	8.1 8.1		29.4 29.4		99.8 99.9		8.1 8.1	5.0 7.2	+ +	6 5		92 93			<0.2		0.9
					Bottom	6.7 1.0	1.7	18 291	16.9 16.9	10.9	8.1 8.1	8.1	29.4 29.5	29.4	99.9 100.3	33.5	8.1 8.1 8.1	7.4		5 8		93 87			<0.2	2	1.1
					Surface	1.0	1.2	291	16.9	16.9	8.1	8.1	29.5	29.5	100.3		8.1 8.1	6.2	1 1	8		87			<0.2		0.9
IM11	Cloudy	Moderate	07:23	8.3	Middle	4.2	1.2 1.2	286 289	16.9 16.9	16.9	8.1 8.1	8.1	29.5 29.5	29.5	100.0		8.1 8.1	6.4 6.5	8.9	7 8	7	89 90	0 82204	1 811	456 <0.2		0.9 0.9
					Bottom	7.3	1.2	299	16.9	16.9	8.1	8.1	29.5	29.5	99.9	99.9	8.1 8.1	14.0		6		92			<0.2	2	0.9
			-			7.3	1.1	319 120	16.9 16.9		8.1 8.1		29.5 29.4		99.9		8.1	14.0 5.3		6		92 87			<0.2		0.9
					Surface	1.0	0.3	129	16.9	16.9	8.1	8.1	29.4	29.4	100.0	100.0	8.1	5.3	1 1	6		87			<0.2	2	0.9
IM12	Cloudy	Moderate	07:15	8.6	Middle	4.3	0.3	112 113	16.9 16.9	16.9	8.1 8.1	8.1	29.4 29.4	29.4	99.7 99.7	99.7	8.1 8.1	5.7 5.8	5.6	6	6	89 89	9 82143	6 812	<0.2		1.0 0.9
					Bottom	7.6	0.3	115	16.9	16.9	8.1	8.1	29.4	29.4	99.6		8.1 8.1	5.7	1	7		92			<0.2	2	0.9
			1			7.6	0.3	119	16.9 17.0		8.1 8.1	-	29.4 29.7		99.6 99.3		8.1 8.0	5.7 4.8		6		92			<0.2	<u> </u>	0.9
					Surface	1.0	-	-	17.0	17.0	8.1	8.1	29.7	29.7	99.2		8.0 8.0	4.8	1	6		-			-	7	-
SR1A	Cloudy	Calm	06:38	4.8	Middle	2.4	-		-	-	-	-	-		-		-	-	4.7		7	-	- 81997	6 812	556 -		
					Bottom	3.8 3.8	-	-	17.0 17.0	17.0	8.1	8.1	29.8 29.8	29.8	99.3 99.3		8.0 8.0	4.6	1	8		-			-	7	<u> </u>
					Surface	1.0	0.3	- 90	17.0	17.0	8.2	8.2	29.8	29.8	100.1		8.1	4.7		6		84			<0.2		0.9
						1.0	0.4	97	17.0	17.0	8.2	0.2	29.8	29.0	100.1	100.1	8.1 8.1	4.4]	5		85			<0.2	-	0.9
SR2	Cloudy	Moderate	06:22	4.4	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	4.4		5	-	8 8214	9 814		<0.2	- 1.0
					Bottom	3.4	0.3	90 92	17.0 17.0	17.0	8.2 8.2	8.2	29.8 29.8	29.8	100.0		8.1 8.1	4.5	4	4		91 91			<0.2		1.0
					Surface	1.0	2.9	154	16.8	16.8	8.1	8.1	29.3	29.3	99.9	99.9	8.1	5.8		7		-			-	1	
						1.0	3.0 2.8	160 143	16.8 16.8		8.1 8.1		29.3 29.3		99.9 99.8		8.1 8.1	5.9 6.2	4	8		-			-	4	-
SR3	Cloudy	Moderate	07:52	8.8	Middle	4.4	3.0	154	16.8	16.8	8.1	8.1	29.3	29.3	99.8		8.1	6.3	6.7	8	7	-	- 82216	2 807	- 559	1.	· ·
					Bottom	7.8	2.6 2.7	140 140	16.8 16.8	16.8	8.1 8.1	8.1	29.3 29.3	29.3	99.5 99.5		8.1 8.1	7.9 7.9		6 7		-			-	4	-
					Surface	1.0	0.2	65 67	17.6 17.6	17.6	7.8	7.8	31.1 31.1	31.1	100.9 100.5		8.0 8.0	3.8 3.8	4	5		-			· ·	-	-
SR4A	Cloudy	Calm	06:35	7.6	Middle	3.8	0.2	58	17.6	17.6	7.8	7.8	31.2	21.2	100.8	102.2	8.0	4.5	4.8	5	5	-	- 81720	5 807		-	-
31.44	Cibudy	Califi	00.35	7.0		3.8 6.6	0.1	59 80	17.6 17.8		7.8 7.8		31.1 31.3		105.6 100.2		8.4 7.9	4.7 5.9	4.0	5		-	- 01/20	5 007	-	7.	
					Bottom	6.6	0.1	81	17.8	17.8	7.8	7.8	31.3	31.3	105.1	102.7	8.3	5.8		6					-	<u>+</u>	-
					Surface	1.0	0.2	316 328	17.6 17.6	17.6	7.8	7.8	30.9 30.9	30.9	102.9 102.0		8.2 8.1	3.5 3.6	+ +	5		-			-	-	-
SR5A	Cloudy	Calm	06:12	3.2	Middle	-	-		-	-	-		-		-		- 8.2	-	3.5	-	6	-	- 8165	7 810	- 705		<u> </u>
	-				Darra	- 2.2	- 0.2	- 319	- 17.6	17.0	- 7.8	7.0	- 30.9		- 105.5	1017	8.4 0.0	- 3.6	+ +	- 6		-				-	-
					Bottom	2.2	0.2	323 21	17.6 17.7	17.6	7.8	7.8	30.9	30.9	103.8	104.7	8.2 8.3	3.3 6.5		7		-			-	<u> </u>	
					Surface	1.0	0.2	21	17.7	17.7	7.8 7.8	7.8	31.1 31.1	31.1	88.3 91.3	89.8	7.0 7.2 7.1	6.6	1	8		-			-	-	-
SR6A	Cloudy	Calm	05:27	5.1	Middle	-	-	-	•		-	-	-	-	-		- /.1	-	7.0	-	7	· ·	- 8179	9 814	740 -		· ·
					Bottom	4.1	0.1	20	17.7	17.6	7.8	7.8	31.1	31.1	106.5		8.4 8.1	6.9	1 1	6		-			-	1	-
			-			4.1	0.1	21 85	17.6 17.6		7.8		31.1 30.4		98.2 93.4		7.8	7.9		5		-				_	<u> </u>
			1		Surface	1.0	0.4	87	17.6	17.6	8.0	8.0	30.4	30.4	93.4	93.4	7.4 7.4	3.6	1	3		-			-	1	-
SR7	Cloudy	Moderate	05:11	15.6	Middle	7.8	0.4	86 86	17.6 17.6	17.6	8.0 8.0	8.0	30.4 30.4	30.4	93.3 93.3		7.4	3.6 3.6	3.6	5	5	-	- 82364	4 823	747 -		
			1		Bottom	14.6	0.3	95	17.6	17.6	8.0	8.0	30.4	30.4	93.2	03.2	7.4 7.4	3.6	1	6		-			-	1	-
					Surface	14.6 1.0	0.3	97	17.6 17.3	17.3	8.0 8.1		30.4 29.5	29.5	93.2 99.8		7.4 7.4 8.0	3.6 5.3	+	6	1		_			+	-
			1			1.0	-		17.3	17.3	8.1	8.1	29.6	29.5	99.8	99.8	8.0 8.0	5.4]	5		-			-	7	-
SR8	Cloudy	Moderate	07:01	5.2	Middle	-		-		-	-	-	-	-	-	-	-		5.5		6	-	- 82039	9 811	533 -	<u> -</u> -	- -
			1		Bottom	4.2	-	-	16.9 16.9	16.9	8.1 8.1	8.1	29.6 29.6	29.6	99.0 99.0		8.0 8.0	5.7 5.7		6	ŀ	H			-	4	H-
DA: Dopth Aver	·	t	1	t	1	4.4			10.9		0.1		29.0		33.0	i i	0.0	1 9.7	1	U							

Expansion of Hong Kong International Airport into a Three-Runway System Water Quality Monitoring Water Quality Monitoring Results on 07 January 21 during M 07 January 21 during Mid-Flood Tide

Water Qua	ity Moni	toring Resi	ults on		07 January 21	during Mid-		Ide					-																
Monitoring Station	Weather	Sea	Sampling	Water	Sampling Dep	th (m)	Current Speed	Current Direction	Water Te	emperature (°C)		pН	Salin	ity (ppt)	DO S	aturation (%)	Disso Oxy		Turbidity(NTU)	Suspende (mg.		Total Al (pp		Coordinate HK Grid	Coordinate HK Grid	Chron (µg		kel (µg/L
Station	Condition	Condition	Time	Depth (m)			(m/s)		Value	Average	Value	Average		Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)	Value	DA Valu	
					Surface	1.0	0.4	52 56	17.7 17.7	17.7	8.3 8.3	8.3	31.8 31.8	31.8	104.6 104.5	104.6	8.2 8.2	-	0.8	-	8		84 86				<0.2 <0.2	0.7	
C1	Cloudy	Calm	13:35	8.4	Middle	4.2	0.4	50	17.7	17.7	8.3	8.3	31.8	31.8	104.0	103.8	8.2	8.2	1.5	1.8	8	8	89	89	815631	804236	<0.2	.0.2 0.7	7 07
01	Cloudy	Call	13.35	0.4	Wildlie	4.2	0.4	50	17.7	17.7	8.3	0.5	31.8	31.0	103.5	103.8	8.2		1.6 3.1	1.0	7		90 93	09	815051	004230	<0.2	<0.2 0.7	3
					Bottom	7.4	0.3	42 45	17.6 17.6	17.6	8.3 8.3	8.3	31.8 31.8	31.8	103.1 103.3	103.2	8.1 8.1	8.1	3.1		9		93 94				<0.2 <0.2	0.7	
					Surface	1.0	0.2	203 213	17.0 17.0	17.0	8.1 8.1	8.1	28.7	28.7	100.7 100.7	100.7	8.2 8.2	_	3.9 3.9	-	5 5		87 87				<0.2	1.3	
C2	Cloudy	Moderate	12:12	11.5	Middle	5.8	0.2	213 281	17.0	17.0	8.1 8.1	0.4	28.7	29.4	99.0	99.0	8.2	8.1	3.9 4.3	4.2	5	6	87	89	825675	806963	<0.2	<0.2 1.4	
02	Cloudy	wouerate	12.12	11.5	Widdle	5.8 10.5	0.2	282 303	17.0 17.0	17.0	8.1 8.2	8.1	29.4 29.4		99.0 99.7		8.0 8.1		4.4 4.3	4.2	6	0	89 92	09	023073	800903	<0.2 <0.2	×0.2 1.3 1.3	3
					Bottom	10.5	0.2	323	17.0	17.0	8.2	8.2	29.4	29.4	99.7	99.7	8.1	8.1	4.3		7		92				<0.2	1.2	2
					Surface	1.0	0.4	255 260	17.5 17.5	17.5	8.1 8.1	8.1	30.3 30.3	30.3	95.3 95.2	95.3	7.6 7.6	-	4.8 4.8	-	6 5		89 89				<0.2	1.1	
C3	Cloudy	Moderate	14:32	12.1	Middle	6.1	0.4	251	17.5	17.5	8.1	8.1	30.3	30.3	95.3	95.3	7.6	7.6	8.8	7.5	6	5	88	90	822095	817784	<0.2	.0.2 0.8	3
05	Cloudy	Woderate	14.52	12.1		6.1 11.1	0.4	263 258	17.5 17.5		8.1 8.1		30.3 30.3		95.3 96.1		7.6 7.7		8.9 9.0	1.5	5		88 92	- 50	022033	011104	<0.2 <0.2	<0.2 0.7	3
					Bottom	11.1	0.3	280	17.5	17.5	8.1	8.1	30.3	30.3	96.2	96.2	7.7	7.7	8.5		4		92				<0.2	0.7	7
					Surface	1.0	0.1	354 326	17.8 17.8	17.8	8.3 8.3	8.3	31.6 31.6	31.6	105.7	105.7	8.3 8.3	.	0.6	-	7		89 89				<0.2	0.8	
IM1	Cloudy	Calm	13:11	4.7	Middle	-	-	-	-	-			-		-		-	8.3	-	1.3	-	6		91	817970	807135	-	-0.2 -	_ 08
	,					- 3.7	- 0.1	- 351	- 17.8		- 8.3		- 31.6		- 106.0		- 8.4		- 2.0		- 5		- 92				- <0.2	0.8	_
					Bottom	3.7	0.1	323	17.8	17.8	8.3	8.3	31.6	31.6	106.1	106.1	8.4	8.4	2.1		5		93				<0.2	0.8	3
					Surface	1.0	0.3	322 340	17.7 17.7	17.7	8.3 8.3	8.3	31.5 31.5	31.5	104.3 104.0	104.2	8.2 8.2		1.8 1.8	ŀ	6		84 85				<0.2	0.9	
IM2	Cloudy	Calm	13:02	6.8	Middle	3.4	0.2	323	17.7 17.7	17.7	8.3 8.3	8.3	31.6 31.6	31.6	103.9 103.8	103.9	8.2 8.2	8.2	4.7	5.2	8	8	88	89	818174	806186	< 0.2	<0.2 0.8	
					Bottom	3.4 5.8	0.3	335 321	17.7	17.8	8.3	8.3	31.6	31.6	103.8	103.2	8.2	8.1	4.8 9.0	ŀ	8		89 92				<0.2 <0.2	0.9	
					Bollom	5.8	0.3	333 17	17.8 17.5	17.0	8.3 8.3	0.3	31.6 31.3	31.0	103.2	103.2	8.1	0.1	8.9		9		93 88				<0.2 <0.2	0.8	
					Surface	1.0	0.2	17	17.5	17.5	8.3	8.3	31.3	31.3	103.6	103.4	8.2 8.2	8.2	3.6 3.8		8 9		88				<0.2	0.9	Э
IM3	Cloudy	Calm	12:54	6.8	Middle	3.4	0.2	36 37	17.5 17.5	17.5	8.3 8.3	8.3	31.3 31.3	31.3	103.3	103.4	8.2 8.2	0.2	4.6 4.6	5.1	9	9	92 92	91	818785	805578	<0.2	<0.2 0.8	
					Bottom	5.8	0.3	26	17.5	17.5	8.3	8.3	31.3	31.3	103.0	103.1	8.2	8.2	7.1		10		93				<0.2	0.8	3
						5.8	0.3	28 358	17.5 17.6		8.3 8.3		31.3 31.2		103.1 105.6		8.2 8.4	0.2	7.1		10 5		94 86				<0.2	0.9	
					Surface	1.0	0.5	329	17.6	17.6	8.3	8.3	31.2	31.2	105.6	105.6	8.4	8.4	-		6		87				<0.2	0.9	Э
IM4	Cloudy	Calm	12:44	7.8	Middle	3.9	0.4	357 328	17.6 17.6	17.6	8.3 8.3	8.3	31.3 31.3	31.3	105.1	105.2	8.3 8.3	-	0.1	0.2	8	7	90 91	90	819701	804601	<0.2	<0.2 1.0	
					Bottom	6.8	0.4	5	17.5	17.5	8.3	8.3	31.4	31.4	104.7	104.6	8.3	8.3	0.3	ļ	8		94				<0.2	0.9	Э
					Surface	6.8	0.4	5 290	17.5 17.6	17.6	8.3 8.3	8.3	31.4 31.4	31.4	104.5 105.4	405.4	8.3 8.3		0.3		8 11		93 85				<0.2	0.9	
					Surrace	1.0	0.2	291	17.6	17.6	8.3	8.3	31.4	31.4	105.3	105.4	8.3	8.3	5.8	ļ	10		86				<0.2	0.9	Э
IM5	Cloudy	Calm	12:33	7.5	Middle	3.8	0.1	294 299	17.6 17.6	17.6	8.3 8.3	8.3	31.4 31.4	31.4	105.4 105.4	105.4	8.3 8.3	F	6.2 6.2	6.2	12 13	12	89 90	89	820717	804873	<0.2 <0.2	<0.2 0.9	
					Bottom	6.5 6.5	0.1	234 234	17.6 17.6	17.6	8.3 8.3	8.3	31.4 31.4	31.4	104.7 104.8	104.8	8.3 8.3	8.3	6.7 6.7	-	13 13		92 93				<0.2	0.8	
					Surface	1.0	0.1	260	17.5	17.5	8.3	8.3	31.0	31.0	103.7	103.7	8.2		1.7		5		87		-		<0.2	1.0)
						1.0	0.2	262 249	17.5 17.5		8.3 8.3		31.0 31.0		103.6 103.7		8.2 8.2	8.2	1.7	-	6		86 89				<0.2	1.0	1
IM6	Cloudy	Calm	12:23	7.1	Middle	3.6	0.2	250	17.5	17.5	8.3	8.3	31.0	31.0	103.6	103.7	8.2		1.9	2.5	8	7	90	90	821075	805804	<0.2	<0.2) 1.0
					Bottom	6.1	0.3	236 243	17.5 17.5	17.5	8.3 8.3	8.3	31.1 31.0	31.0	103.1	103.3	8.2 8.2	8.2	3.9 4.0	-	8		92 94				<0.2	1.0	
					Surface	1.0	0.4	253	17.5	17.5	8.3	8.3	31.0	31.0	103.8	103.8	8.2	_	2.0		5		87				<0.2	1.0	D
						1.0	0.4	272 257	17.5 17.5		8.3 8.3		31.0 31.1		103.8 103.6		8.2 8.2	8.2	1.9 3.2		6 7	_	87 88				<0.2	1.0	
IM7	Cloudy	Calm	12:14	7.9	Middle	4.0	0.3	263	17.5	17.5	8.3	8.3	31.1	31.1	103.6	103.6	8.2		2.9	3.2	6	6	88	89	821333	806842	<0.2	<0.2	1.1
					Bottom	6.9 6.9	0.2	262 274	17.5 17.5	17.5	8.3 8.3	8.3	31.1 31.1	31.1	103.7 103.8	103.8	8.2 8.2	8.2	4.3 4.6	ŀ	7		91 91				<0.2 <0.2	1.1	
					Surface	1.0	0.2	240	17.0	17.0	8.1	8.1	29.4	29.4	102.4	102.4	8.3	-	5.0	-	5		88				<0.2	1.0)
IM8	Cloudy	Moderate	12:37	7.4	Middle	1.0 3.7	0.2	253 257	16.9 16.9	16.9	8.1 8.1	8.1	29.4 29.4	29.4	102.3 102.3	102.3	8.3 8.3	8.3	5.3 5.9	5.8	5	6	88 89	90	821839	808135	<0.2 <0.2	<0.2 1.0) 1.
IIVIO	Cioudy	woderate	12:37	1.4	Wildule	3.7 6.4	0.1	279 258	16.9 16.9		8.1 8.1	0.1	29.4 29.4		102.3 102.5		8.3 8.3		6.0 6.3	3.0	6 6	0	89 91	90	021039	000135	<0.2 <0.2	<0.2 1.1	
					Bottom	6.4	0.1	258	16.9	16.9	8.1 8.1	8.1	29.4 29.4	29.4	102.5	102.6	8.3	8.3	6.4		б 7		91 92				<0.2	1.0	
: Depth-Aver																													

Expansion of Hong Kong International Airport into a Three-Runway System Water Quality Monitoring Water Quality Monitoring Results on 07 January 21 during M 07 January 21 during Mid-Flood Tide

Water Qua	lity Moni	toring Res	ults on		07 January 21	during Mid-	-Flood T	ide																			
Monitoring Station	Weather	Sea	Sampling	Water	Sampling Dep	th (m)	Current Speed	Current		mperature (°C)		эΗ		ity (ppt)		(%)	Dissolved Oxygen	Turbidity	((NTO)	(mg		(ppm)	HK Gri	HK Grid	te (µç	omium g/L)	Nickel (µg/L)
Otation	Condition	Condition	Time	Depth (m)			(m/s)		Value	Average	Value	Average	Value	Average			alue DA	Value	DA	Value	DA	Value E	A (Northin	g) (Easting			Value DA
					Surface	1.0	0.2	253 260	17.0 17.0	17.0	8.1 8.1	8.1	29.4 29.4	29.4	102.5		8.3 8.3	6.0 6.0	┥┝	9		87 88			<0.2		1.1
IM9	Cloudy	Moderate	12:43	7.0	Middle	3.5	0.3	257 264	17.0 17.0	17.0	8.1 8.1	8.1	29.4 29.4	29.4	102.4	102.4	8.3 8.3	6.3	6.2	7	7	89	9 82209	808789	<0.2] .0.2	1.1 1.0
	-				Datter	3.5 6.0	0.3	264 258	17.0	10.0	8.1 8.1	0.4	29.4 29.4	29.4	102.4		0.2	6.3 6.2	+ -	6		89 91			<0.2		1.0 1.0
					Bottom	6.0	0.2	274	16.9	16.9	8.1	8.1	29.4	29.4	102.5		8.3	6.3		7		92		_	<0.2		1.0
					Surface	1.0	0.5	300 317	17.0 17.0	17.0	8.1 8.1	8.1	29.5 29.5	29.5	102.7		8.3 8.3 8.3	5.6 5.7	1 -	6		88 88			<0.2		1.1
IM10	Cloudy	Moderate	12:52	7.6	Middle	3.8 3.8	0.5	297 311	17.0 17.0	17.0	8.1 8.1	8.1	29.5 29.5	29.5	102.7		8.3 8.3	5.5 5.5	5.6	7 8	7	89 90	0 82240	809775	<0.2		1.0 1.0
					Bottom	6.6	0.4	296	17.0	17.0	8.1	8.1	29.5	29.5	104.0	104.0	8.4	5.6	t E	8		92			<0.2		1.1
			<u> </u>		Doutoni	6.6	0.4	306 293	16.9 17.1		8.1 8.1		29.5 29.7		104.0		8.4 8.3	5.6 4.3		8		93 88		_	<0.2	\vdash	1.1
					Surface	1.0	0.5	300	17.1	17.1	8.1	8.1	29.7	29.7	103.0	103.0	8.3 8.3	4.3	1 1	4		88			<0.2	1 1	1.0
IM11	Cloudy	Moderate	13:05	7.3	Middle	3.7	0.5	291 291	17.1 17.1	17.1	8.1 8.1	8.1	29.7 29.7	29.7	102.1		8.2 8.2	4.9 5.0	5.3	6	6	89 89	9 82207	811452	<0.2		1.0 0.9 1.0
					Bottom	6.3	0.4	300	17.1	17.1	8.1	8.1	29.7	29.7	102.2	102.3	8.2 8.3	6.8		7		90			<0.2	1 1	1.0
			-			6.3	0.4	319 271	17.1 17.1		8.1 8.1		29.7 29.8		102.3		8.3	6.7 5.5		8		91 88		_	<0.2		1.1 1.0
					Surface	1.0	0.4	274	17.1	17.1	8.1	8.1	29.8	29.8	102.2	102.2	8.2	5.5	1 1	6		89			<0.2	1 [1.0
IM12	Cloudy	Moderate	13:14	8.9	Middle	4.5	0.4	274 285	17.1	17.1	8.1 8.1	8.1	29.8 29.8	29.8	102.2		8.2	5.5 5.5	5.6	7 8	7	90 91	1 82145	812038	<0.2	<0.2	0.8 0.9
					Bottom	7.9	0.4	278	17.1	17.1	8.1	8.1	29.8	29.8	102.7	102.8	8.3 8.3	5.8	1 1	8		93			<0.2	1 1	0.9
			-			7.9	0.4	283	17.1 17.2		8.1 8.1		29.8 29.8		102.8		8.3 8.3	5.8		9 5		92		-	<0.2	\vdash	0.8
					Surface	1.0	-		17.2	17.2	8.1	8.1	29.8	29.8	103.6	103.0	8.3 8.3	4.2	1	6		-			-	1 1	-
SR1A	Cloudy	Calm	13:50	5.2	Middle	2.6	•		-	-	-	-	-	-	-		- 0.0	-	4.2	•	6	-	81998	812665		+ -	· ·
					Bottom	4.2	-	-	17.1	17.1	8.1	8.1	29.8	29.8	103.7		8.4 8.4	4.2	1 1	7		-			-	1 1	-
			1			4.2	- 0.1	- 84	17.1 17.2		8.1 8.1		29.8 29.9		103.8		8.4 8.4	4.2		7		- 89		-	- <0.2		- 0.8
					Surface	1.0	0.1	88	17.2	17.2	8.1	8.1	29.9	29.9	104.4		8.4 8.4	4.5	1	6		88			<0.2		0.9
SR2	Cloudy	Moderate	14:06	4.2	Middle	-	-	-	-	-	-	-	-	-	-		-	-	4.7	-	6	- 9	0 82147	814160	-	<0.2	- 0.9
					Bottom	3.2	0.1	73	17.2	17.2	8.1	8.1	29.9	29.9	104.5		8.4 8.4	4.9	1	4		91			<0.2		0.9
			1		0.1	3.2	0.1	75 243	17.2 17.1		8.1 8.1		29.9 29.5	00.5	104.5		8.4 8.2	4.9		6 9		91	_	-	<0.2	+	-
					Surface	1.0 4.5	0.2	256	17.1	17.1	8.1	8.1	29.5	29.5	101.7		8.2 8.2	4.2 4.5	1 [8		-			-	1 1	-
SR3	Cloudy	Moderate	12:30	8.9	Middle	4.5	0.1	227 228	17.1 17.1	17.1	8.1 8.1	8.1	29.5 29.5	29.5	101.4 101.4		8.2 0.2	4.5	4.5	6	6	-	82216	807590		+ - +	
					Bottom	7.9	0.2	215 216	17.1 17.1	17.1	8.1 8.1	8.1	29.5 29.5	29.5	101.8 101.8		8.2 8.2 8.2	4.8 4.8	1	4		-			-	4 [-
					Surface	1.0	0.2	327	17.8	17.8	8.3	8.3	31.5	31.5	104.0		8.2	4.8		5							-
						1.0 4.1	0.0	341 309	17.8 17.8		8.3 8.3		31.5 31.5		104.2		8.2 8.2 8.2	0.5	ĮĘ	5 6		-				[[-
SR4A	Cloudy	Calm	13:58	8.1	Middle	4.1	0.0	309	17.8	17.8	8.3	8.3	31.5	31.5	103.6		8.2	0.6	0.5	6	6	-	81719	807813	-	<u> </u> -	
					Bottom	7.1	0.0	253 253	17.8 17.8	17.8	8.3 8.3	8.3	31.5 31.5	31.5	103.6		8.2 8.1 8.2	0.5	┥┝	7 8		-				4 }	-
			1		Surface	1.0	0.4	253	17.8	17.8	8.3	8.3	31.5	31.5	104.5	104.6	8.2	2.3		9		-					-
						1.0	0.4	256	17.8		8.3		31.5		104.6		8.2 8.2	2.3	┥┝	9		-			-	+ +	-
SR5A	Cloudy	Calm	14:16	3.4	Middle	-	-		-	-	-	-	-	-	-	· ·	-	-	2.4	-	8	-	81657	810708	-	1 · 1	-
					Bottom	2.4	0.2	262 284	17.8 17.8	17.8	8.3 8.3	8.3	31.5 31.5	31.5	104.1		8.2 8.2	2.4	┥┝	7		-			-	+ +	-
					Surface	1.0	0.0	66	17.8	17.8	8.3	8.3	31.6	31.6	106.8	106.9	8.4	8.4		12		-				1	-
						1.0	0.0	69	17.8		8.3		31.6		106.8		8.4 8.4	8.5	┥╷┝	12		-			-	+ +	-
SR6A	Cloudy	Moderate	14:58	4.8	Middle	-	-	-	-	-	-	-	-	-	-	· ·	-	-	10.2	-	13	-	81797	81473	-	1 - 1	·
					Bottom	3.8	0.1	151 153	17.8 17.8	17.8	8.3 8.3	8.3	31.6 31.6	31.6	106.6	106.6	8.4 8.4	11.5	+ -	13 13		-			-	+ +	-
			İ		Surface	1.0	0.2	50	17.6	17.6	8.1	8.1	30.3	30.3	94.5	04.5	7.5	4.0	1	3		-		İ	•		-
0.07	0			45.0		1.0	0.2	51 52	17.6 17.6		8.1 8.1		30.3 30.3		94.5 94.6		7.5 7.5	4.0	╡┝	3 5	_	-	000		-	+ +	
SR7	Cloudy	Moderate	15:11	15.9	Middle	8.0	0.1	52	17.6	17.6	8.1	8.1	30.3	30.3	94.6	94.0	7.5	4.2	4.1	5	5	-	82362	823758	-	-	
			1		Bottom	14.9 14.9	0.1	21 21	17.6 17.6	17.6	8.0 8.0	8.0	30.3 30.3	30.3	95.6 95.8		7.6 7.6 7.6	4.2	┥┝	6 7		-			-	+ +	-
					Surface	1.0	-	-	17.4	17.4	8.1	8.1	29.4	29.4	104.1		8.4	8.4	ļļ	12		-					-
SR8	Cloudy	Moderate	13:24	5.0	Middle	1.0	-	-	17.4		8.1		- 29.4		104.1		8.4 8.4	8.3	7.0	- 11	11	-	82038	811631		† †	-
380	Cioudy	woderate	13:24	3.0		- 4.0	-	-	- 17.1	-	- 8.1		- 29.5	-	- 103.1		- 8.3	- 5.6	^{′.0}	- 10			02038	01103	-		
					Bottom	4.0			17.1	17.1	8.1	8.1	29.5 29.5	29.5	103.1		8.3 8.3	5.6		10		-					-

Expansion of Hong Kong International Airport into a Three-Runway System Water Quality Monitoring Water Quality Monitoring Results on 09 January 21 during M 09 January 21 during Mid-Ebb Tide

Water Qual	ity Moni	toring Res	uits on		09 January 21	during Mid-		le																				
Monitoring	Weather	Sea	Sampling	Water	Sampling Dep	th (m)	Current Speed	Current	Water Te	emperature (°C)		pН	Salir	nity (ppt)	DOS	aturation (%)	Dissolved Oxygen	Turbidi	y(NTU)	Suspende (mg		Total A (pp		Coordinate HK Grid	Coordinate HK Grid	Chromium (µg/L)	Nicke	el (µg/L
Station	Condition	Condition	Time	Depth (m)		()	(m/s)	Direction	Value	Average	Value	Average	e Value	Average	Value	Average	Value DA	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)	Value DA	Value	DA
					Surface	1.0	0.2	178 178	15.9 15.9	15.9	8.2 8.2	8.2	30.7 30.7	30.7	100.7	100.7	8.3 8.3	7.6	-	8	-	86 87		1		<0.2	0.6	
C1	Cloudy	Rough	09:18	8.4	Middle	4.2	0.2	169	15.9	15.9	8.2	8.2	30.7	30.7	100.8	100.8	8.3 8.3	7.5	7.6	10	10	89	89	815617	804269	<0.2	0.5	1
01	Cloudy	Rough	03.10	0.4		4.2	0.2	178 153	15.9 15.9		8.2 8.2		30.7 30.7		100.8		8.3 8.3	7.5	- 1.0	10 11	10	89 91	05	013017	004203	<0.2 <0.2	0.5	
					Bottom	7.4	0.1	154	15.9	15.9	8.2	8.2	30.7	30.7	101.6	101.6	8.3	7.6		11		92				<0.2	0.5	1
					Surface	1.0	0.2	135 138	16.8 16.8	16.8	8.2 8.2	8.2	31.8 31.8	31.8	100.1	100.1	8.0	5.2	+	3 4		88 88		ſ		<0.2	0.8	
C2	Fine	Moderate	11:18	10.8	Middle	5.4 5.4	0.5	154 160	16.7	16.7	8.2 8.2	8.2	31.8 31.8	31.8	99.6 99.6	99.6	8.0 8.0	5.3 5.3	5.4	5 5	5	92	92	825665	806950	<0.2 <0.2	0.8	
					Bottom	5.4 9.8	0.5	160	16.7 16.5	16.5	8.2	8.2	31.8	31.8	99.6 99.6	99.7	8.0 8.0	5.7	1	5		92 96		ſ		<0.2	0.8	
						9.8 1.0	0.5	146 286	16.5 17.6		8.2 8.2	1	31.8 32.5		99.7 100.9		8.0 0.c	5.7		6		95 84		ļļ		<0.2	0.9	
					Surface	1.0	0.4	295	17.6	17.6	8.2	8.2	32.5	32.5	100.9	100.9	7.9 7.0	5.5	1	7	Ì	84		ſ		<0.2	0.6	1
C3	Cloudy	Moderate	08:36	12.3	Middle	6.2	0.2	257 263	17.6 17.6	17.6	8.2 8.2	8.2	32.5 32.5	32.5	101.0	101.0	7.9	6.0 6.0	5.8	6	6	88 88	88	822092	817820	<0.2 <0.2	2 0.6	
					Bottom	11.3	0.1	120	17.6	17.6	8.2	8.2	32.5	32.5	100.7	100.7	7.9 7.0	5.9	1	6	1	91		ſ		<0.2	0.7]
					0	11.3 1.0	0.1	126 65	17.6 15.1		8.2 8.2		32.5 30.2		100.6	400.4	7.9	6.0 6.6		6 9		91 88				<0.2	0.7	
					Surface	1.0	0.0	66	15.1	15.1	8.2	8.2	30.2	30.2	100.1	100.1	8.4 8.4	6.6	1	9	ļ	87		ſ		<0.2	0.6	1
IM1	Cloudy	Rough	09:40	4.9	Middle					-	-	-	-	-	-		-		7.2	-	8	-	89	817972	807150	- <0.2	- 2	0.7
					Bottom	3.9	0.0	49 51	15.0 15.0	15.0	8.2	8.2	30.3 30.3	30.3	101.4	101.5	8.5 8.5	7.8	-	7		90 89		ſ		<0.2	0.7	
					Surface	1.0	0.1	186	15.5	15.5	8.2	8.2	30.4	30.4	100.1	100.1	8.3	6.9	1	10		85				<0.2	0.6	1
IM2	01	D			MC L II.	1.0	0.1	189 193	15.5 15.5		8.2 8.2		30.4 30.4		100.1 99.7	99.7	8.3 8.3	6.9 7.1	+	10 10	10	85 88	88			<0.2	0.7	
INIZ	Cloudy	Rough	09:49	6.8	Middle	3.4 5.8	0.1	210 175	15.5 15.5	15.5	8.2 8.2	8.2	30.4 30.4	30.4	99.7 99.6	99.7	8.3 8.3	7.2	7.5	10 9	10	88 90	88	818186	806149	<0.2 <0.2 <0.2 <0.2 <0.2	0.6	
					Bottom	5.8	0.1	175	15.5	15.5	8.2	8.2	30.4	30.4	99.6 99.6	99.6	8.3 8.3	8.5		9		90				<0.2	0.6	
					Surface	1.0	0.1	178 188	15.4 15.4	15.4	8.2 8.2	8.2	30.4 30.4	30.4	100.3	100.3	8.3 8.3	6.1 6.1	-	6		85 85		1		<0.2	0.6	
IM3	Cloudy	Rough	09:55	7.0	Middle	3.5	0.0	134	15.4	15.4	8.2	8.2	30.4	30.4	100.0	100.0	8.3	9.0	7.6	8	8	87	88	818785	805607	<0.2	0.6	1 00
	,					3.5	0.0	146 156	15.4 15.4		8.2 8.1		30.4 30.4		100.0		8.3 8.3	9.2	-	8		88 90		1		<0.2	0.6	
					Bottom	6.0	0.1	163	15.4	15.4	8.1	8.1	30.4	30.4	99.9	99.9	8.3 8.3	7.7	1	9	ļ	90				<0.2	0.6	1
					Surface	1.0	0.4	180 192	15.3 15.3	15.3	8.2 8.2	8.2	30.4 30.4	30.4	100.5 100.5	100.5	8.4 8.4 8.4	7.1	-	10 10		85 85		ſ		<0.2	0.6	
IM4	Cloudy	Rough	10:06	8.2	Middle	4.1	0.3	172 180	15.3 15.3	15.3	8.1 8.1	8.1	30.4 30.4	30.4	100.2	100.2	8.3 8.3	7.2	7.5	9 10	9	88 87	87	819726	804630	<0.2 <0.2	2 0.6	
					Bottom	7.2	0.4	167	15.3	15.3	8.1	8.1	30.5	30.5	102.3	102.4	8.5	8.1	1	8	Į	90		ſ		<0.2	0.6	1
						7.2	0.5	181 193	15.3 15.3		8.1 8.2		30.5 30.4		102.4		8.5 8.3	8.1 8.4		8		89 85				<0.2	0.6	
					Surface	1.0	0.3	210	15.3	15.3	8.2	8.2	30.4	30.4	100.0	100.0	8.3	8.4	1	9	ļ	85		ſ		<0.2	0.6	1
IM5	Cloudy	Moderate	10:16	7.5	Middle	3.8	0.3	201 220	15.3 15.3	15.3	8.2 8.2	8.2	30.4 30.4	30.4	99.8 99.8	99.8	8.3	8.5 8.5	8.6	9	9	88 87	87	820746	804890	<0.2 <0.2	2 0.6	
					Bottom	6.5 6.5	0.3	183 194	15.3 15.3	15.3	8.1 8.1	8.1	30.4 30.4	30.4	99.9 100.0	100.0	8.3 8.3	8.9 8.9	7	10 10	Į	89 90		ſ		<0.2	0.7	
					Surface	1.0	0.1	208	15.3	15.3	8.2	8.2	30.2	30.2	100.7	100.7	8.4	5.6		11		85				<0.2	0.6	1
						1.0 3.5	0.1	226 217	15.3 15.2		8.2 8.2		30.2 30.2		100.7		8.4 8.4	5.6	4	11 9		85 88		ſ		<0.2	0.6	1
IM6	Cloudy	Moderate	10:26	6.9	Middle	3.5	0.2	218	15.2	15.2	8.2	8.2	30.2	30.2	100.8	100.8	8.4	5.7	6.3	9	9	88	88	821067	805849	<0.2	0.6	0.
					Bottom	5.9 5.9	0.1	204 212	15.2 15.2	15.2	8.1 8.1	8.1	30.2 30.2	30.2	102.0	102.0	8.5 8.5	7.6	+	6		90 89		ſ		<0.2	0.7	
					Surface	1.0 1.0	0.1	192	15.2 15.2	15.2	8.2 8.2	8.2	30.3 30.3	30.3	100.2 100.2	100.2	8.4 8.4	9.5	1	5		86 86				<0.2 <0.2	0.6	1
IM7	Cloudy	Moderate	10:36	8.3	Middle	4.2	0.1	200 171	15.2	15.2	8.1	8.1	30.3	30.3	100.4	100.4	8.4 0.4	6.7	8.9	5	6	88	88	821339	806858	<0.2	0.7] <u> </u>
1117	Cloudy	Woderate	10.50	0.5		4.2	0.1	186 179	15.2 15.2		8.1 8.1		30.3 30.3		100.4		8.4 8.5	6.9	0.5	6	Ŭ	88 90	00	021333	000030	<0.2	0.7	
					Bottom	7.3	0.1	195	15.2	15.2	8.1	8.1	30.3	30.3	102.4	102.4	8.5	10.5	1	7	İ	90				<0.2	0.8	
					Surface	1.0	0.2	61 65	16.1 16.1	16.1	8.2 8.2	8.2	31.7 31.7	31.7	102.7	102.7	8.3	6.0 6.0	4	4 4	ł	88 88				<0.2	0.8	
IM8	Fine	Moderate	10:47	7.7	Middle	3.9	0.2	76	16.0	16.0	8.2	8.2	31.8	31.8	101.8	101.8	8.3	7.2	7.0	6	6	93	92	821833	808155	<0.2	0.7	Ι
					Bottom	3.9 6.7	0.2	81 161	16.0 16.0	16.0	8.2 8.2		31.8 31.8	31.8	101.8 102.2	102.2	8.3 8.3 8.3	7.3	+	6 8	ł	93 96	ł			<0.2	0.8	1
A: Depth-Aver					DOLLOITI	6.7	0.1	172	16.0	10.0	8.2	8.2	31.8	31.6	102.2	102.2	8.3	7.8	1	9	Ī	96				<0.2	0.8	

Expansion of Hong Kong International Airport into a Three-Runway System Water Quality Monitoring Water Quality Monitoring Results on 09 January 21 during N 09 January 21 during Mid-Ebb Tide

Water Qua	ity Moni	toring Res	ults on		09 January 21	during Mid		e																		
Monitoring	Weather	Sea	Sampling	Water	Sampling Dep	oth (m)	Current Speed	Current Direction	Water Te	mperature (°C)		pН	Salir	ity (ppt)	DOS	aturation (%)	Dissolved Oxygen	Turbidity	(NTU) Sus	ended S (mg/L)		Alkalinity opm)	Coordinate HK Grid	HK Grid	Chromiu (µg/L)	
Station	Condition	Condition	Time	Depth (m)			(m/s)		Value	Average	Value	Average		Average		Average	/alue DA	Value	DA Va	lue (DA Value	e DA	(Northing)	(Easting)		DA Value DA
					Surface	1.0	0.2	77 84	16.5 16.5	16.5	8.2 8.2	8.2	31.8 31.8	31.8	100.9	100.9	8.1	5.4 5.4		7	88	-			<0.2 <0.2	0.8
IM9	Fine	Moderate	10:40	7.1	Middle	3.6	0.3	79	16.5	16.5	8.2	8.2	31.8	31.8	101.0	101.1	8.1	5.4	54	6	93		822103	808792	<0.2	0.2 0.7 0.8
						3.6 6.1	0.3	79 118	16.5 16.7		8.2 8.2		31.8 31.9		101.2 101.5		8.2 8.2	5.4 5.3		6	92				<0.2	0.8 0.8
					Bottom	6.1	0.3	124 90	16.7 16.1	16.7	8.2	8.2	31.9	31.9	101.5	101.5	8.2 0.2	5.4		6	97				<0.2	0.8
					Surface	1.0	0.3	90	16.1	16.1	8.2 8.2	8.2	31.7 31.7	31.7	101.1	101.1	8.2 8.2 8.2	5.7	• •	4 4	89 88				<0.2	0.7
IM10	Fine	Moderate	10:17	8.3	Middle	4.2	0.3	93 98	16.1 16.1	16.1	8.2 8.2	8.2	31.7 31.7	31.7	101.1	101.2	8.2 8.2	6.2 6.1		6	6 <u>93</u> 92		822364	809789	<0.2 <	0.2 0.8 0.8
					Bottom	7.3	0.3	101	16.1	16.1	8.2	8.2	31.7	31.7	101.0	101.0	8.2 0.2	6.6		6	96				<0.2	0.8
						7.3	0.3	105 157	16.1 17.0		8.2 8.2		31.7		100.9		8.2 7.9	6.6 5.5		7	96 89				<0.2	0.8
					Surface	1.0	0.1	164	17.0	17.0	8.2	8.2	32.2	32.2	99.0	99.0	7.9 7.9	5.5		5	88				<0.2	0.7
IM11	Fine	Moderate	10:05	7.6	Middle	3.8 3.8	0.1	156 158	17.0 17.0	17.0	8.2 8.2	8.2	32.2 32.2	32.2	99.0 99.0		7.9	5.7 5.6		6 6	6 <u>93</u> 92		822049	811464	<0.2 <	0.2 0.6 0.7
					Bottom	6.6	0.3	159 174	17.0 17.0	17.0	8.2 8.2	8.2	32.2 32.2	32.2	100.0 99.9		8.0 8.0	5.7 5.7		7	97 96				<0.2 <0.2	0.7
					Surface	6.6 1.0	0.3	94	17.0	17.1	8.2	8.2	32.2	32.2	99.9		7.8	5.7		7	89				<0.2	0.7
						1.0 4.9	0.1	96 312	17.1 17.1		8.2 8.2		32.2 32.2		98.3 97.8		7.8 7.8 7.8	5.2 5.6		7 6	88				<0.2 <0.2	0.7
IM12	Fine	Moderate	09:57	9.7	Middle	4.9	0.0	341	17.1	17.1	8.2	8.2	32.2	32.2	97.9	97.9	7.8	5.6	5.4	6	92	92	821469	812031	<0.2	0.2 0.6 0.7
					Bottom	8.7	0.1	47 50	17.1 17.1	17.1	8.2 8.2	8.2	32.2	32.2	99.5 99.3	99.4	7.9 7.9	5.4 5.4		4	96 96				<0.2	0.7
					Surface	1.0	-	-	15.9	15.9	8.2	8.2	31.8	31.8	97.9		8.0	5.2	• –	6	-				-	-
SR1A	Fine	Calm	09:18	5.5	Middle	1.0 2.8	-	-	15.9		8.2		31.8 -	-	98.0		8.0 8.0	5.2	5.3	6 -	5 -		819970	812660	-	
OKIA	1110	Call	03.10	5.5		2.8	-	-	- 15.9	-	- 8.2	-	- 31.8	-	- 99.3	-	- 8.1	- 5.3			· ·	-	013370	012000		· · ·
					Bottom	4.5	-	-	15.9	15.9	8.2	8.2	31.8	31.8	99.1	99.2	8.1	5.4		1	-	_				-
					Surface	1.0	0.2	348 320	17.4 17.4	17.4	8.2 8.2	8.2	32.3 32.3	32.3	97.6 97.6		7.7	5.2 5.2		5	89 89	-			<0.2 <0.2	0.6
SR2	Fine	Moderate	08:59	4.8	Middle	•	-	-	-	-	-	-	-	-	-		- 7.7	-	5.5	-	6 -	91	821463	814156	- <	.0.2 - 0.6
					Bottom	3.8	0.1	347	17.4	17.4	8.2	8.2	32.3	32.3	97.6		7.7 7.7	5.7		7	93				<0.2	0.6
						3.8	0.1	354 172	17.4 16.6		8.2 8.2		32.3 31.9		97.7 100.5		7.7 ^{7.7} 8.1	5.8 5.9		6	92				<0.2	0.6
					Surface	1.0	0.1	177	16.6	16.6	8.2	8.2	31.9	31.9	100.5	100.5	8.1 8.1	5.9		6	-	1			-	-
SR3	Fine	Moderate	10:54	8.4	Middle	4.2	0.1	235 257	16.4 16.4	16.4	8.2 8.2	8.2	31.9 31.9	31.9	100.6 100.5	100.6	8.1 8.1	6.3 6.3		5	5 -	-	822143	807558	-	· · ·
					Bottom	7.4	0.1	86 88	16.0 16.0	16.0	8.2 8.2	8.2	31.9 31.9	31.9	99.8 99.8		8.1 8.1	6.8 6.8		4	-	-				-
					Surface	1.0	0.1	55	15.2	15.2	8.2	8.2	30.1	30.1	99.3	99.3	8.3	5.1		5	-	_			-	-
						1.0 4.6	0.1	56 69	15.2 15.0		8.2 8.2		30.1 30.2		99.3 98.9		8.3 8.3	5.2 6.1		5		-			-	-
SR4A	Cloudy	Calm	08:55	9.1	Middle	4.6	0.2	69	15.0	15.0	8.2	8.2	30.2	30.2	98.9		8.3	6.1		6	6 -		817177	807805	-	· · ·
					Bottom	8.1	0.1	233 237	14.9 14.9	14.9	8.2 8.2	8.2	30.3 30.3	30.3	98.8 98.8	90.0	8.3 8.3	7.2		6	-				-	-
					Surface	1.0	0.0	94 94	15.1 15.1	15.1	8.2 8.2	8.2	30.0 30.0	30.0	98.2 98.2		8.2	4.6	• •	7	-	-			-	-
SR5A	Cloudy	Calm	08:37	3.7	Middle	•	-	•		-	-	-	-	-	-		- 8.2	-	55	-	6 -	1.	816573	810709	-	
					Bottom	2.7	- 0.0	- 101	- 15.1	15.1	- 8.2	8.2	- 30.0	30.0	- 99.2	99.3	8.3 8.3	- 6.4	• •	5	-				-	-
					Bollom	2.7	0.0	107 128	15.1 15.2	15.1	8.2 8.1		30.0 30.3		99.3 97.2		8.3 8.1	6.6 5.1		5	-				-	-
					Surface	1.0	0.0	130	15.2	15.2	8.0	8.0	30.3	30.3	97.2		8.1 8.1	5.1		3	-				-	-
SR6A	Cloudy	Calm	08:01	4.5	Middle		-	-	-	-	-	-	-	-	-		-	-	5.1	-	6 -		817952	814762	-	· · ·
					Bottom	3.5	0.0	141	15.2	15.2	8.0	8.0	30.3	30.3	100.2		8.4 8.4	5.2		4	-	1			-	-
					Surface	3.5	0.0	154 61	15.2 17.6	17.6	8.0 8.3		30.3 32.6	22.6	100.3 103.5		8.4 8.1	5.2 5.0		5					-	
					Surface	1.0 7.3	0.7	63 14	17.6 17.6	17.6	8.3 8.2	8.3	32.6 32.5		103.5 101.9		8.1 8.0	5.0 5.5		5	-				-	-
SR7	Cloudy	Moderate	08:00	14.6	Middle	7.3	0.2	15	17.6	17.6	8.2	8.2	32.5	32.5	101.8	101.9	8.0	5.5	5.3	6	5 -		823628	823762	-	· · ·
					Bottom	13.6 13.6	0.2	55 60	17.6 17.6	17.6	8.2 8.2	8.2	32.5 32.5	32.5	101.5 101.5	101.5	8.0 8.0	5.4 5.4		4	-	-			-	-
					Surface	1.0	-	-	16.8	16.8	8.3	8.3	31.6		100.2		8.0	8.6	• •	7	-	_			-	-
SR8	Fine	Calm	09:42	4.2	Middle	1.0		-	16.8 -		8.3		31.6 -		100.1		8.0 8.0	8.6		3	6 -		820393	811610	-	
GNO	1 110	odim	00.42	7.2		- 3.2	-	-	- 16.5		- 8.2	-	- 31.9	-	- 100.1		- 8.1	- 7.3		4	Ŭ -	-	020393	011010	-	H-T
					Bottom	3.2	-	-	16.5	16.5	8.2	8.2	31.9	31.9	100.1		8.1 8.1	7.4		5	-					-

Expansion of Hong Kong International Airport into a Three-Runway System Water Quality Monitoring Water Quality Monitoring Results on 09 January 21 during M 09 January 21 during Mid-Flood Tide

Water Qua	ity Moni	toring Res	ults on		09 January 21	during Mid-		ide	-				_		-														
Monitoring Station	Weather	Sea	Sampling	Water	Sampling Dep	th (m)	Current Speed	Current Direction	Water Te	emperature (°C)		pН	Salin	ity (ppt)	DO S	aturation (%)	Disso Oxy		Turbidity(NTU)	Suspende (mg.		Total Al (pp		Coordinate HK Grid	Coordinate HK Grid	Chron (µg		(µg/L)
Station	Condition	Condition	Time	Depth (m)			(m/s)		Value	Average	Value	Average		Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)	Value	DA Value	DA
					Surface	1.0	0.4	31 32	15.9 15.9	15.9	8.2 8.2	8.2	30.7 30.7	30.7	104.5 104.5	104.5	8.6 8.6	-	5.7 5.7	-	10 10		86 86				<0.2 <0.2	0.5	
C1	Cloudy	Rough	14:50	8.2	Middle	4.1	0.4	34	16.0	16.0	8.2	8.2	30.7	30.7	104.4	104.4	8.6	8.6	6.5	7.0	7	8	89	89	815641	804249	<0.2	.0.2 0.5	0.5
C1	Cloudy	Rough	14.50	0.2	widdle	4.1	0.4	37 30	16.0	10.0	8.2	0.2	30.7 30.7	30.7	104.4	104.4	8.6		6.6 8.8	7.0	7		89 91	09	013041	004249	<0.2 <0.2	0.5	0.5
					Bottom	7.2	0.3	30	16.0 16.0	16.0	8.2 8.2	8.2	30.7	30.7	105.5 105.6	105.6	8.7 8.7	8.7	8.8	-	7		91				<0.2	0.4	
					Surface	1.0	0.3	350 322	16.6 16.6	16.6	8.2 8.2	8.2	31.9 31.9	31.9	100.9 100.9	100.9	8.1 8.1	_	5.4 5.4	-	8		83 83				<0.2	0.7	
C2	Cloudy	Moderate	13:41	10.5	Middle	5.3	0.4	28	16.6	16.6	8.2	8.2	31.9	31.9	100.3	100.3	8.1	8.1	5.4	5.4	6	6	87	87	825667	806953	<0.2	.0.2 0.8	0.8
	,					5.3 9.5	0.4	29 346	16.6 16.6		8.2 8.2		31.9 31.9		100.2 100.4		8.1 8.1		5.4 5.5	-	5 5		87 90				<0.2 <0.2	0.2 0.7	
					Bottom	9.5	0.4	347	16.6	16.6	8.2	8.2	31.9	31.9	100.4	100.4	8.1	8.1	5.5		5		90				<0.2	0.8	
					Surface	1.0	0.3	241 261	17.6 17.6	17.6	8.3 8.3	8.3	32.5 32.5	32.5	105.0 104.9	105.0	8.3 8.2		6.3 6.4	-	6		87 87				<0.2	0.5	
C3	Cloudy	Moderate	16:15	11.8	Middle	5.9	0.4	252	17.6	17.6	8.3	8.3	32.5 32.5	32.5	104.2	104.3	8.2	8.2	7.4	7.6	6	6	91	91	822122	817819	< 0.2	<0.2 0.5	0.5
	-				Bottom	5.9 10.8	0.4	269 266	17.6 17.6	17.6	8.3 8.3	8.3	32.5	32.5	104.3	104.3	8.2 8.2	8.2	7.5 8.9	E	6 7		91 94				<0.2 <0.2	0.6	
					Bottom	10.8	0.4	289 14	17.6 15.3	17.0	8.3 8.2	0.3	32.5 30.4	32.0	104.2		8.2 8.7	0.2	8.9 5.5		7		94 86				<0.2	0.6	
					Surface	1.0	0.2	14	15.3	15.3	8.2	8.2	30.4	30.4	103.9	103.9	8.7	8.7	5.6	Ŀ	7		87				<0.2	0.6	
IM1	Cloudy	Moderate	14:28	5.0	Middle		-		•	-	-	-	-	-	-	-	-	0	-	5.8	-	6	-	88	817965	807123	-	<0.2 -	0.6
					Bottom	4.0	0.1	15	15.2	15.2	8.1	8.1	30.4	30.4	103.6	103.7	8.6	8.7	6.0	Ľ	5		89				<0.2	0.6	
					0.1	4.0	0.1	16 351	15.2 15.4	15.1	8.1 8.2		30.4 30.3		103.7 106.0	400.0	8.7 8.8		6.0 4.9		5 5		89 85				<0.2	0.6	
					Surface	1.0 3.5	0.2	323 0	15.4	15.4	8.2	8.2	30.3	30.3	105.9	106.0	8.8	8.8	4.9	F	5		86				<0.2	0.7	
IM2	Cloudy	Moderate	14:20	6.9	Middle	3.5	0.2	0	15.5 15.5	15.5	8.2 8.2	8.2	30.3 30.3	30.3	104.9 104.9	104.9	8.7 8.7	-	5.2 5.2	5.5	7	7	87 88	87	818166	806175	<0.2 <0.2	<0.2 0.7	0.7
					Bottom	5.9 5.9	0.2	13 13	15.5 15.5	15.5	8.1 8.1	8.1	30.5 30.5	30.5	104.5 104.7	104.6	8.7 8.7	8.7	6.5 6.5	-	8 8		89 89				<0.2 <0.2	0.7	
					Surface	1.0	0.2	19	15.3	15.3	8.2	8.2	30.3	30.3	103.9	103.9	8.7		5.7		7		85				<0.2	0.7	
	a					1.0	0.2	19 0	15.3 15.3		8.2 8.2		30.3 30.3		103.9 103.4		8.7 8.6	8.7	5.7 5.8		7		85 88				<0.2 <0.2	0.7	
IM3	Cloudy	Moderate	14:13	7.1	Middle	3.6 6.1	0.1	0	15.3	15.3	8.2	8.2	30.3	30.3	103.4	103.4	8.6		5.8	6.2	8	8	87	87	818787	805586	<0.2	<0.2 0.6	0.7
					Bottom	6.1	0.1	0	15.3 15.3	15.3	8.2 8.2	8.2	30.3 30.3	30.3	103.2 103.2	103.2	8.6 8.6	8.6	6.9 7.1	-	8		89 90				<0.2 <0.2	0.7	
					Surface	1.0	0.3	17 18	15.3 15.3	15.3	8.2 8.2	8.2	30.2 30.2	30.2	104.4 104.4	104.4	8.7 8.7	-	5.6 5.6	-	5 5		85 84				<0.2 <0.2	0.7	
IM4	Cloudy	Moderate	14:04	7.4	Middle	3.7	0.3	18	15.3	15.3	8.2	8.2	30.2	30.2	104.2	104.2	8.7	8.7	5.7	5.9	6	6	87	87	819728	804588	<0.2	<0.2 0.7	0.7
	,					3.7	0.3	18 3	15.3 15.3		8.2 8.1		30.2 30.2		104.2 106.2		8.7 8.9		5.7 6.4	-	6		88 89				<0.2	0.8	-
					Bottom	6.4	0.2	3	15.3	15.3	8.1	8.1	30.2	30.2	106.2	106.2	8.9	8.9	6.4		8		89				<0.2	0.8	
					Surface	1.0	0.3	15 16	15.3 15.3	15.3	8.2 8.2	8.2	30.2 30.2	30.2	104.8 104.8	104.8	8.7 8.7	8.7	5.2 5.2	-	5		84 85				<0.2 <0.2	0.8	
IM5	Cloudy	Moderate	13:56	7.5	Middle	3.8	0.3	8	15.3 15.3	15.3	8.2 8.2	8.2	30.2 30.2	30.2	104.6 104.6	104.6	8.7 8.7	0.7	5.3 5.4	5.4	5	6	87 86	87	820727	804871	<0.2 <0.2	<0.2 0.8	0.8
					Bottom	6.5	0.2	29	15.3	15.3	8.2	8.2	30.2	30.2	105.1	105.2	8.8	8.8	5.7	E	6		89				<0.2	0.7	
						6.5	0.2	29 336	15.3 15.7		8.3 8.2		30.2 30.2		105.2 104.0		8.8 8.6		5.6 4.9		6 5		89 84				<0.2	0.7	
					Surface	1.0	0.0	358	15.7	15.7	8.2	8.2	30.2	30.2	104.0	104.0	8.6	8.6	4.9	Ē	5		85				<0.2	0.8	
IM6	Cloudy	Moderate	13:47	7.2	Middle	3.6	0.1	18 19	15.6 15.6	15.6	8.2 8.2	8.2	30.2 30.2	30.2	103.9 103.9	103.9	8.6 8.6	-	5.5 5.6	6.1	6	6	87 87	87	821057	805815	<0.2 <0.2	<0.2 0.8	0.8
					Bottom	6.2	0.1	26 27	15.5 15.5	15.5	8.1 8.1	8.1	30.2 30.2	30.2	105.7 105.8	105.8	8.8 8.8	8.8	7.7	-	6 6		89 88				<0.2	0.7	
					Surface	1.0	0.1	213	15.9	15.9	8.2	8.2	30.2	30.2	102.5	102.5	8.4		4.4		7		85				<0.2	0.7	
						1.0	0.1	230 205	15.9 15.8		8.2 8.2		30.2 30.2		102.5 102.2		8.4 8.4	8.4	4.4 4.9	-	8		85 88				<0.2	0.8	
IM7	Cloudy	Moderate	13:40	8.1	Middle	4.1	0.1	212	15.8	15.8	8.2	8.2	30.2	30.2	102.2	102.2	8.4		4.9	5.1	5	6	88	88	821330	806816	<0.2	<0.2 0.8	0.8
					Bottom	7.1	0.0	158 161	15.6 15.6	15.6	8.2 8.2	8.2	30.2 30.2	30.2	102.2 102.2	102.2	8.5 8.5	8.5	6.0 6.0	┝	4		90 90				<0.2 <0.2	0.7	
					Surface	1.0	0.1	275	16.3	16.3	8.3	8.3	31.8	31.8	105.9	105.9	8.6		5.3		6		87				<0.2	0.9	
IM8	Cloudy	Moderate	14-19	7.9		1.0 4.0	0.1	276 282	16.3 16.3		8.3 8.3		31.8 31.8	31.8	105.9 105.6	105.6	8.6 8.5	8.6	5.3 5.3		5 4	5	87 92	91	821844	808119	<0.2 <0.2	0.7	0.0
IIVIO	Cloudy	Moderate	14:18	1.9	Middle	4.0 6.9	0.2	292 329	16.3 16.1	16.3	8.3 8.2	8.3	31.8 31.8		105.5 104.5		8.5 8.5		5.3 8.0	6.2	4	5	91 95	91	021044	000119	<0.2 <0.2	<0.2 0.0 0.7 0.8	0.8
					Bottom	6.9	0.0	329 338	16.1	16.1	8.2	8.2	31.8	31.8	104.5	104.6	8.5	8.5	8.0 8.1		4		95 95				<0.2	0.8	
A: Depth-Aver	and								-					-			-	-					-						_

Expansion of Hong Kong International Airport into a Three-Runway System Water Quality Monitoring Water Quality Monitoring Results on 09 January 21 during N 09 January 21 during Mid-Flood Tide

Water Qua	lity Moni	toring Res	ults on		09 January 21	during Mid	-Flood T	ide																				
Monitoring Station	Weather	Sea	Sampling	Water	Sampling Dep	oth (m)	Current Speed	Current Direction	Water Te	mperature (°C)		pН	Salin	ity (ppt)		aturation (%)	Dissolved Oxygen	Turbidity	(NTU)	Suspende (mg/		Total Alk (ppm		Coordinate HK Grid	Coordinate HK Grid	Chromi (µg/L	um) Nickel	el (µg/L)
Station	Condition	Condition	Time	Depth (m)			(m/s)		Value	Average	Value	Average		Average	Value	-	Value DA	Value	DA	Value	DA		DA	(Northing)	(Easting)		DA Value	DA
					Surface	1.0	0.3	256 258	16.1 16.1	16.1	8.2 8.2	8.2	31.7 31.7	31.7	103.6 103.6		8.4	5.6 5.6	┥┝	4		88 87				<0.2	0.8	+
IM9	Cloudy	Moderate	14:27	7.3	Middle	3.7	0.3	252 261	16.2 16.2	16.2	8.2 8.2	8.2	31.7 31.7		102.8 102.8		8.3 8.3	5.9 5.9	6.0	5 5	5	91 91	91	822085	808808	<0.2	0.8	
					Bottom	6.3	0.3	262	16.1	16.1	8.2	8.2	31.7	317	103.5	102.5	8.4	6.4	1 1	5		95				<0.2	0.7	
						6.3 1.0	0.3	273 285	16.1 16.3		8.2 8.2	-	31.7 31.8		103.5 103.2		8.4 8.4	6.4 5.6		6		95 87				<0.2 <0.2	0.8	_
					Surface	1.0	0.5	307	16.3	16.3	8.2	8.2	31.8	31.8	103.3	103.3	8.4 8.4	5.6	1	5		87				<0.2	0.7	Ι
IM10	Cloudy	Moderate	14:36	7.5	Middle	3.8 3.8	0.5	293 315	16.3 16.3	16.3	8.2 8.2	8.2	31.8 31.8		102.7 102.8	102.8	8.3 8.3	5.3 5.3	5.6	7 7	6	91 91	91	822380	809799	<0.2	0.2 0.7	
					Bottom	6.5 6.5	0.3	281 307	16.3 16.3	16.3	8.2 8.2	8.2	31.8 31.8	31.8	103.1 103.0		8.3 8.3	6.0 6.0	Ŧ	7		94 95				<0.2 <0.2	0.7	
					Surface	1.0	0.4	306	17.1	17.1	8.2	8.2	32.2	22.2	103.7	102.7	8.2	5.3		8		87				<0.2	0.6	
IM11	0	Moderate	14:50		Middle	1.0 4.2	0.4	325 292	17.1 17.1		8.2 8.2		32.2 32.2		103.6 103.4		8.2 8.2 8.2	5.2 5.3		8		87 92	91	822035		<0.2 <0.2	0.7	
IM11	Cloudy	Moderate	14:50	8.3	Middle	4.2 7.3	0.5	318 275	17.1 17.1	17.1	8.2 8.2	8.2	32.2 32.2		103.3	103.4	8.2	5.3 6.0	5.5	6	6	91 95	91	822035	811448	<0.2	0.2 0.6	0.0
					Bottom	7.3	0.4	275	17.1	17.1	8.2	8.2	32.2	32.2	104.4		8.3 8.3	6.0		5		95				<0.2	0.7	
					Surface	1.0	0.4	289 303	17.2 17.2	17.2	8.2 8.2	8.2	32.2 32.2	32.2	106.0 106.0		8.4 8.4	5.3 5.3	+ +	4		87 87				<0.2 <0.2	0.7	
IM12	Cloudy	Moderate	14:59	7.8	Middle	3.9	0.4	296	17.3	17.3	8.2	8.2	32.3		106.1	106.1	8.4	5.3	5.3	5	5	92	91	821451	812042	<0.2	:0.2 0.6	
	-				Bottom	3.9 6.8	0.4	309 275	17.3 17.3	17.3	8.2 8.2	8.2	32.3 32.3	32.3	106.0 105.7	105.9	8.4 8.4 8.4	5.3 5.4	1 6	5 6		91 95				<0.2	0.7	
						6.8 1.0	0.4	285	17.3		8.2 8.2		32.3 31.8		105.8		8.4 ^{0.4} 8.3	5.4 5.1		6 5		95				<0.2	0.6	<u> </u>
					Surface	1.0	-	-	16.0	16.0	8.2	8.2	31.8		102.1		8.3 8.3	5.1	1	5		-				-	-	1
SR1A	Cloudy	Calm	15:34	5.6	Middle	2.8	-	-	-	-	-	-	-	-	-		-	-	5.1	-	6	-		819977	812655	-		+ -
					Bottom	4.6	· ·	-	16.0 16.0	16.0	8.2 8.2	8.2	31.8 31.8		104.5 104.7	104.6	8.5 8.5	5.0 5.0	7 F	7		-				-	-	4
					Surface	1.0	0.2	41	17.2	17.2	8.2	8.2	32.2	22.2	105.3	105.3	8.3	5.5		6		87				<0.2	0.7	
SR2	Cloudy	Moderate	15:50	5.0	Middle	1.0	0.2	41	17.2		8.2		32.2	-	105.3		8.4 8.4	5.6	5.8	6	_	87	89	821476	814189	<0.2	0.6	0.6
382	Cloudy	woderate	15.50	5.0	Widdle	- 4.0	- 0.2	- 46	- 17.2	-	- 8.2	-	- 32.2		- 106.3	-	- 8.4 o.4	- 5.9	3.0	- 4	. 5	- 91	09	621476	014109	<0.2	0.2	
					Bottom	4.0	0.2	46	17.2	17.2	8.2	8.2	32.2	32.2	106.3	106.3	8.4	6.0		4		91				<0.2	0.6	
					Surface	1.0	0.1	318 341	16.4 16.4	16.4	8.2 8.2	8.2	31.8 31.8	31.8	103.7		8.4 8.4	5.4 5.4	┥┝	3		-				-	-	ł
SR3	Cloudy	Moderate	14:11	8.8	Middle	4.4	0.1	261 266	16.4 16.4	16.4	8.2 8.2	8.2	31.8 31.8	31.8	103.0 103.1		8.3 8.3	6.4 6.4	8.7	4	4	-		822162	807553	-		1.
					Bottom	7.8	0.1	264	16.3	16.3	8.2	8.2	31.8	31.8	102.6		8.3 8.3	14.2	1 1	4		-				-	-	1
						7.8	0.1	278 228	16.3 15.4		8.2 8.2		31.8 30.0		102.4		8.3 0.5 8.7	14.3 4.4		4		-				-	-	
					Surface	1.0	0.1	230	15.4	15.4	8.2	8.2	30.0	30.0	104.3	104.4	8.7 8.6	4.4	1 F	4		-				-	-	1
SR4A	Cloudy	Calm	15:11	8.6	Middle	4.3 4.3	0.0	277 301	15.2 15.2	15.2	8.2 8.2	8.2	30.2 30.2	30.2	101.4 101.3		8.5 8.5	4.8 4.8	4.9	6 6	6	-		817195	807805	-		
					Bottom	7.6	0.1	86 90	15.1	15.1	8.2	8.2	30.3 30.3	30.3	102.8		8.6 8.6	5.4 5.4	┥┝	8		-				-	-	+
					Surface	1.0	0.0	266	15.3	15.3	8.2	8.2	30.0	30.0	102.4		8.5	4.3		6		-				-	-	-
SR5A	Cloudy	Calm	15:29	3.5	Middle	1.0	0.0	290	15.3		8.2		30.0		102.5		8.5 8.5	4.3	4.2	6		-		816581	810686	-	-	1
3K3A	Cibudy	Call	15.29	3.5		- 2.5	- 0.1	- 139	- 15.3	-	- 8.2	-	- 30.0	-	- 103.0		- 8.6 a.c	- 4.1		- 5	0	-		810381	810000	-		-
					Bottom	2.5	0.1	150	15.3	15.3	8.3	8.2	30.0	30.0	103.0	103.0	8.6	4.1		5							-	1
					Surface	1.0	0.1	234 255	16.1 16.1	16.1	8.3 8.3	8.3	30.5 30.5	30.5	105.6 105.6		8.7 8.7 8.7	5.7 5.7	┥┝	4 4		-				-	-	+
SR6A	Cloudy	Calm	15:57	4.8	Middle	•	-	-	-	-	-	-	-	-	-		- 0.7	-	5.2	-	5	-		817960	814746	-		
					Bottom	3.8	0.1	226	16.0	16.0	8.3	8.3	30.5	30.5	105.8	105.9	8.7 8.7	4.7	1 1	6							-	1
						3.8	0.1	233	16.0 17.6		8.3 8.3		30.5 32.6		105.9		8.7 8.3	4.8		6 8		-				-	-	
					Surface	1.0	0.0	120	17.6	17.6	8.3	8.3	32.6	32.b	105.4	105.4	8.3 8.3	5.2	1	8		-				-	-	1
SR7	Cloudy	Moderate	16:53	14.4	Middle	7.2	0.1	184 198	17.6 17.6	17.6	8.3 8.3	8.3	32.6 32.6	32.0	104.9 104.7	104.0	8.2 8.2	5.8 5.9	5.8	6 5	6	-	-	823655	823747	-	· ·	1 -
					Bottom	13.4	0.1	76	17.6 17.6	17.6	8.3 8.3	8.3	32.6 32.6	32.6	105.2	105.2	8.3 8.3	6.3 6.2	┥┡	5 5		-				-	-	+
					Surface	1.0	-	-	17.0	17.0	8.3	8.3	31.7		105.6		8.4	7.3		8		-				-	-	1
SR8	Cloudy	Calm	15:09	4.4	Middle	1.0	-		17.0		8.3		31.7		105.6		8.4 8.4	7.4	8.6	8	8	-		820407	811642	-		1
SNO	Cibuuy	Gain	13.08	4.4		- 3.4	-	-	- 16.6	-	- 8.3	-	- 31.9	-	- 106.1		- 8.5 0.5	- 9.8	0.0	- 7		-	-	320407	011042	-	-	+ -
					Bottom	3.4	-	-	16.6	16.6	8.3	8.3	31.9	31.9	106.2	106.2	8.5 8.5	9.9		7		-					-	†

Expansion of Hong Kong International Airport into a Three-Runway System Water Quality Monitoring Water Quality Monitoring Results on 12 January 21 during M 12 January 21 during Mid-Ebb Tide

Water Qual	ity wonit	toring Res	uits on		12 January 21	during Mid-		e					-														-		
Monitoring	Weather	Sea	Sampling	Water	Sampling Dep	th (m)	Current Speed	Current	Water Ter	nperature (°C)		pН	Salir	nity (ppt)	DO S	aturation (%)	Dissol Oxyg		Turbidity(NTU)	Suspende (mg	ed Solids /L)		Alkalinity pm)	Coordinate HK Grid	Coordinate HK Grid	Chrom (µg/l		(µg/L)
Station	Condition	Condition	Time	Depth (m)			(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)	Value	DA Value	DA
					Surface	1.0	0.2	200	15.8 15.8	15.8	8.4 8.4	8.4	32.5	32.5	104.6	104.6	8.5 8.5	-	3.1 3.2	-	9		86 86	-			<0.2 <0.2	0.6	ł
C1	Sunny	Moderate	12:12	7.8	Middle	3.9	0.2	192	15.8	15.8	8.4	8.4	32.5	32.5	104.7	104.6	8.5	8.5	3.4	3.3	10	10	90	89	815613	804247	<0.2	.0.2 0.7	0.7
					Darra	3.9 6.8	0.2	201 228	15.8 15.8		8.4 8.4		32.5 32.5		104.5 106.8		8.5 8.7		3.6 3.1	-	10 11		90 90	1			<0.2	0.7	ł
					Bottom	6.8 1.0	0.2	246 346	15.8 15.5	15.8	8.4 8.2	8.4	32.5	32.5	106.8	106.8	8.7 8.9	8.7	3.1 6.2		11	ļ	91	1			<0.2 <0.2	0.7	
					Surface	1.0	0.3	346	15.5	15.5	8.2	8.2	31.4 31.4	31.4	107.7	107.7	8.0	8.9	6.2	E	10 10	İ	85 85	1			<0.2	0.8	İ
C2	Fine	Moderate	10:58	12.0	Middle	6.0	0.3	0	15.4 15.4	15.4	8.2 8.2	8.2	31.4 31.4	31.4	107.7	107.7	8.9 8.9	0.5	5.9 5.9	5.9	9	9	88 89	88	825697	806965	<0.2	<0.2 0.7	0.7
					Bottom	11.0	0.3	29	15.4	15.4	8.2	8.2	31.3	31.3	107.6	107.6	8.9	8.9	5.6	Ľ	8	Ì	90	1			<0.2	0.6	1
					1	11.0	0.3	30 91	15.4 16.8		8.2 8.2		31.3 31.7		107.6		8.9 9.2		5.6 2.8		8		90 84				<0.2	0.7	<u> </u>
					Surface	1.0	0.2	99	16.8	16.8	8.2	8.2	31.7	31.7	114.3	114.3	9.2	9.2	2.8	F	6	ţ	85	1			<0.2	0.7	ļ
C3	Fine	Moderate	13:01	11.8	Middle	5.9 5.9	0.2	80 81	16.8 16.8	16.8	8.2 8.2	8.2	31.8 31.8	31.8	114.8 114.9	114.9	9.2 9.2	ŀ	2.6	2.5	5	5	88 89	88	822127	817782	<0.2	<0.2 0.6	0.7
					Bottom	10.8	0.2	77 79	16.7 16.7	16.7	8.1 8.1	8.1	31.7	31.7	118.6	118.7	9.5 9.5	9.5	2.2	F	3	Į	89 90]			<0.2	0.6	ļ
					Surface	1.0	0.2	154	16.2	16.2	8.4	8.4	32.5	32.5	104.2	104.2	8.4		1.8		4		85				<0.2	0.7	-
						1.0	0.2	156	16.2	10.2	8.4	0.4	32.5	52.5	104.1	104.2	8.4	8.4	1.8	F	3		86	-			<0.2	0.7	ł
IM1	Sunny	Calm	11:45	4.8	Middle		-		-	-		-		-	-	-	-			1.8	-	4	-	87	817944	807137	-	<0.2	0.7
					Bottom	3.8	0.2	181 181	16.1 16.1	16.1	8.4 8.4	8.4	32.5 32.5	32.5	104.2	104.1	8.4 8.4	8.4	1.7 1.9	-	5	-	88 89	-			<0.2	0.7	ł
					Surface	1.0	0.1	123	16.1	16.1	8.4	8.4	32.5	32.5	104.0	104.1	8.4	-	1.5	-	7		87	1			<0.2	0.8	
IM2	Sunny	Moderate	11:38	7.0	Middle	1.0 3.5	0.1	125 129	16.1 16.0	16.0	8.4 8.4	8.4	32.5 32.5	32.5	104.1 104.2	104.3	8.4 8.4	8.4	1.5 1.4	1.5	7 8	8	86 90	90	818141	806164	<0.2 <0.2	<0.2	0.7
IIVIZ	Sunny	Moderate	11.30	7.0	Wilddie	3.5 6.0	0.1	136 213	16.0 16.0	16.0	8.4 8.4	0.4	32.5 32.5	32.5	104.3 104.9	104.3	8.4 8.5		1.5 1.6	1.5	8 9	°	90 92	90	010141	000104	<0.2 <0.2	<0.2 0.7 0.7	0.7
					Bottom	6.0	0.1	224	16.0	16.0	8.4	8.4	32.5	32.5	105.1	105.0	8.5	8.5	1.6		9		93				<0.2	0.7	
					Surface	1.0	0.1	76 80	15.6 15.6	15.6	8.4 8.4	8.4	32.5	32.5	103.4	103.4	8.4 8.4	-	2.2	F	6	ł	85 86	-			<0.2	0.6	ł
IM3	Sunny	Moderate	11:30	7.3	Middle	3.7	0.1	42	15.6	15.6	8.4	8.4	32.5	32.5	103.0	103.0	8.4	8.4	5.0	4.7	6	6	88	88	818776	805600	<0.2	<0.2 0.6	0.6
						3.7 6.3	0.1	42 254	15.6 15.5		8.4 8.4		32.5 32.5		103.0 102.6		8.4 8.4		5.2 6.6	F	6 7		89 90	-			<0.2	0.6	+
					Bottom	6.3	0.1	278	15.5	15.5	8.4	8.4	32.5	32.5	103.0	102.8	8.4	8.4	6.7		7	ļ	90 87	1			<0.2	0.6	<u> </u>
					Surface	1.0	0.1	43 43	15.8 15.8	15.8	8.4 8.4	8.4	32.4 32.3	32.3	105.3 105.1	105.2	8.6 8.6	8.6	1.6 1.6	E	9 9		87				<0.2 <0.2	0.6	ł
IM4	Sunny	Moderate	11:22	7.2	Middle	3.6	0.0	69 71	15.8 15.8	15.8	8.4 8.4	8.4	32.3 32.3	32.3	105.1 105.1	105.1	8.6 8.6	0.0	1.3 1.3	1.4	7	7	88 89	89	819734	804630	<0.2	<0.2 0.7	0.6
					Bottom	6.2	0.0	70	15.8	15.8	8.4	8.4	32.4	32.4	105.3	105.6	8.6	8.6	1.3	Ľ	6	Į	91	1			<0.2	0.6	İ
						6.2	0.0	74 9	15.8 15.8		8.4 8.4		32.4		105.8		8.6 8.5		1.3 2.2		6 10		91 86				<0.2	0.5	
					Surface	1.0	0.2	9	15.8	15.8	8.4	8.4	32.4	32.4	104.4	104.4	8.5	8.5	2.3	þ	10	ļ	85	1			<0.2	0.6	ļ
IM5	Sunny	Moderate	11:15	6.9	Middle	3.5	0.2	10	15.7 15.7	15.7	8.4 8.4	8.4	32.4 32.4	32.4	104.1 104.1	104.1	8.5 8.5	-	2.7 2.9	3.3	9	9	88 89	88	820758	804881	<0.2	<0.2 0.7	0.6
					Bottom	5.9 5.9	0.1 0.2	21 22	15.0 15.0	15.0	8.4 8.4	8.4	32.5 32.4	32.4	102.9 102.9	102.9	8.5 8.5	8.5	4.8 4.8	F	9 9	Į	90 90]			<0.2 <0.2	0.6	ļ
					Surface	1.0	0.1	285	15.5	15.5	8.4	8.4	32.4	32.4	102.6	102.7	8.4		7.7		14		86	-			<0.2	0.6	-
						1.0	0.1	289 321	15.5 15.4		8.4 8.4		32.4 32.4		102.7 102.9		8.4 8.4	8.4	7.4 8.4	F	14 14	ł	87 92	-			<0.2	0.7	ł
IM6	Sunny	Moderate	11:07	7.8	Middle	3.9	0.2	340	15.4	15.4	8.4	8.4	32.4	32.4	103.3	103.1	8.5		8.6	8.1	14	13	91	90	821066	805836	<0.2	<0.2 0.6	0.7
					Bottom	6.8	0.0	300 309	15.2 15.2	15.2	8.4 8.4	8.4	32.4	32.4	103.4	103.4	8.5 8.5	8.5	8.6 7.9	F	12 12		93 93	1			<0.2	0.6	ł
					Surface	1.0	0.3	98	15.8	15.8	8.4	8.4	32.3	32.3	102.4	102.4	8.3		3.1	-	9		86	1			<0.2	0.6	
IM7	Commo	Madazata	10:59	7.2	Middle	1.0 3.6	0.4	103	15.8 15.5		8.4 8.4	8.4	32.3 32.4	32.3	102.3 102.3	102.4	8.3 8.4	8.4	3.2 3.5	3.5	9 10	11	87 91	90	821331	806840	<0.2 <0.2	<0.2	0.6
111/1	Sunny	Moderate	10.59	1.2		3.6 6.2	0.4	103 112	15.5 15.3	15.5	8.4 8.4		32.3 32.4		102.4 102.9		8.4 8.5		3.5 3.9	3.5	9 13		90 92	90	021331	300640	<0.2 <0.2	<0.2 0.7 0.6	0.0
					Bottom	6.2	0.3	121	15.3	15.3	8.4	8.4	32.4	32.4	102.8	102.9	8.5	8.5	3.9		13		93	1			<0.2	0.6	
					Surface	1.0	0.2	98 102	15.6 15.6	15.6	8.2 8.2	8.2	31.4 31.4	31.4	109.8 109.9	109.9	9.0 9.0	T	7.4 7.3	T	7	+	86 86	+			<0.2	0.6	+
IM8	Fine	Moderate	11:26	7.2	Middle	3.6	0.1	39	15.6	15.6	8.2	8.2	31.4	31.4	110.2	110.2	9.1	9.1	7.1	6.5	9	10	87	87	821808	808123	<0.2	.0.2 0.6	0.7
						3.6	0.1	41 94	15.6 15.5		8.2 8.2		31.4 31.5		110.2 110.3		9.1 9.1		7.1		9 15		87 89				<0.2	0.7	+
DA: Depth-Avera					Bottom	6.2	0.2	96	15.5	15.5	8.2	8.2	31.5	31.5	110.3	110.3	9.1	9.1	5.0		15	t	89	1			<0.2	0.6	<u> </u>

Expansion of Hong Kong International Airport into a Three-Runway System Water Quality Monitoring Water Quality Monitoring Results on 12 January 21 during M 12 January 21 during Mid-Ebb Tide

<table-container></table-container>	Water Qua	lity Moni	toring Res	ults on		12 January 21	during Mid-		le																		
○ 1000○ 10				Sampling		Sampling Dep	th (m)			- T							(%)	Oxygen	-	(NTU) (r	ng/L)	(ppm)	HK Grid	HK Grid	(µg	/L) ^r	
	Station	Condition	Condition	Time	Depth (m)						Average	Value	Average		Average		*			DA Value	DA		A (Northing)	(Easting)			
						Surface			÷.		15.4	8.2 8.2	8.2		31.5			9.0		7	-						
	IM9	Fine	Moderate	11:32	7.2	Middle	3.6	0.2	72	15.6	15.6	8.2	8.2		31.3	110.8	110.0	9.1	6.7		7	87	7 822102	808790	<0.2	-0.2	0.7
h H						Bottom					15.2		0.2		217			0.2									
<th< <<="" <th<="" td=""><td></td><td></td><td></td><td>ļ</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>9.3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>				ļ														9.3									
<th< th=""> <th< th=""></th<></th<>						Surface	1.0	0.3	83	15.4	15.4	8.2	8.2	31.6	31.6	109.4	109.4	9.0 9.1	7.4	7		85			<0.2		0.6
<td>IM10</td> <td>Fine</td> <td>Moderate</td> <td>11:39</td> <td>7.7</td> <td>Middle</td> <td></td> <td></td> <td></td> <td></td> <td>15.4</td> <td></td> <td>8.2</td> <td></td> <td>31.3</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>8</td> <td></td> <td>7 822372</td> <td>809786</td> <td></td> <td></td> <td></td>	IM10	Fine	Moderate	11:39	7.7	Middle					15.4		8.2		31.3						8		7 822372	809786			
h h						Bottom	6.7	0.2	110	15.4	15.4	8.1	8.1	31.5	31.5	110.8	110.8	9.1 0.2	4.4		1	90			<0.2		0.6
Image Matrix Part Matrix Part Matrix <						Surface	1.0	0.1	142	15.9	15.0	8.2	82	31.5	21 E	109.5	100.5	8.9	8.4	7		86			<0.2		0.6
Image Image <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>8</td><td>-</td><td>07</td><td></td><td></td><td></td><td></td><td>0.5</td></th<>																				8	-	07					0.5
	IM11	Fine	Moderate	11:50	7.5	Middle	3.8	0.0	114	16.0	16.0	8.2	8.2	31.6	31.6	109.7	109.7	8.9	6.7	6.6 8	8	87 8	7 822043	811467	<0.2	<0.2	0.6
						Bottom					16.1		8.2		31.5						-						
						Surface					16.0		8.2		31.6						-						
	IM12	Fine	Moderate	11:56	8.3	Middle	4.2	0.1	178	16.1	16.1	8.2	8.2	31.6	31.6	109.6	109.6	8.9 8.9	4.4	48 7	7	87 8	7 821443	812033	<0.2	~0 2 L	0.6
i i																		8.0		6	-	88					0.6
						Bottom		0.2	185		16.2		8.2		31.5		110.3	9.0									0.6
State Preprint State						Surface	1.0	-	-	14.6	14.6		8.1		31.4		111.7	9.4 9.4	3.3	5		-			-		-
Image: bit imag	SR1A	Fine	Moderate	12:26	5.2	Middle		-		-	-	-	-	-	-	-		- 3.4		38	6		819982	812660			
Bre Anderse An						Bottom	4.2		-		14.6		8.1		31.2						1	-					-
Fine Noderate 1/2						Surface	1.0	0.1		16.0	16.0	8.1	81	31.5		111.4	111.4	9.1	5.0	6		- 88			<0.2		
SR2 File Moderate C 238 A.8 Moderate C - <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0.1</td> <td>54</td> <td>16.0</td> <td>10.0</td> <td>8.1</td> <td>0.1</td> <td>31.5</td> <td>51.5</td> <td>111.4</td> <td>111.4</td> <td>9.1 9.1</td> <td>5.0</td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td><0.2</td> <td></td> <td></td>								0.1	54	16.0	10.0	8.1	0.1	31.5	51.5	111.4	111.4	9.1 9.1	5.0		-				<0.2		
Image: biase intermant	SR2	Fine	Moderate	12:38	4.8	Middle	-	-	-	-	-	-	-	-	-	-		-	-		6	-	9 821439	814173	-		-
Amplian Fine Amplian Amplian Image						Bottom					16.0		8.1		31.6		114.1	9.3 9.3			-						
SR3 Fine Modente 11:9 8.4 Modente 4.2 0.2 0.6 15.2						Surface					15.2		8.2		31.5			0.0			-	-					
Image: bord biase in the state in	SR3	Fine	Moderate	11:19	8.4	Middle	4.2	0.2	95	15.2	15.2	8.2	8.2	31.5	31.5	108.5	109.5	9.0	8.7	0.0 16	16	-	822148	807553	-		<u> </u>
SR4 Num A L <thl< th=""> L L <thl< th=""></thl<></thl<>					-	Datter												0.0			-	-			-	-	-
SRA Sum Adde A A A A <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td>9.0</td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td>-</td> <td>-</td> <td></td> <td></td>															-			9.0				-		-	-		
Shark Sump Moderale 12:35 8.7 Model 4.4 0.2 91 168 168 8.4 3.27 2.7 104 10.4 8.3 0 0.5 0						Surface	1.0	0.2	93	16.9	16.9	8.4	8.4	32.7	32.7	105.4	105.3	8.4 8.4	0.5	12	1	-			-		<u> </u>
Image: bolic	SR4A	Sunny	Moderate	12:35	8.7	Middle					16.8		8.4		32.7						10	-	817193	807813	-		<u>·</u> ·
SR5A Sunny Calm 13.0 A.1 Sundace 1.0 0.1 12 16.8 16.8 6.4 2.7 32.7 104.7						Bottom					16.8		8.4	32.7	32.7						7	-					<u> </u>
SR5A Suny Calm 1.00 0.10 1.00						Surface	1.0	0.1	12	16.8	16.8	8.4	8.4	32.7	32.7	104.7	104.7	8.4	0.5	10		-			-		
Normation Normation <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>1.0</td><td></td><td>12</td><td>16.8</td><td></td><td>8.4</td><td>***</td><td>32.7</td><td></td><td>104.7</td><td></td><td>8.4 8.4</td><td></td><td></td><td>-</td><td>-</td><td></td><td></td><td></td><td>-</td><td>-</td></t<>							1.0		12	16.8		8.4	***	32.7		104.7		8.4 8.4			-	-				-	-
Image: bolic	SR5A	Sunny	Calm	13:00	3.1	Middle	-		-	-	-	-	-	-	-	-		-		-	11	-	816596	810678		. –	
$ SR6A \\ Sunny \\ Sunny \\ Sunny \\ Sunny \\ Sec \\ $						Bottom					16.7	8.4	8.4		32.7							-					
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $						Surface		-			16.8		8.4		32.7			0.2			-	-				-	-
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	SR6A	Sunny	Calm	13:33	4.3	Middle		-		-		-	-	-	-	-		- 8.3	-		10		817943	814750	-		<u> </u>
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $						Bottom	3.3	0.1	261	- 16.8	16.9	- 8.4	0.4	32.7	22.7	- 103.8	102.9	- 8.3 0.2		- 11		-			-		-
SR7 Fine Fine Fine Fine Fine Fine Fine Fine																		8.3				-			-		-
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $						Surface	1.0	0.3	63	16.6	16.6	8.2	8.2	31.8	31.8	109.4	109.4	8.8 8.8	5.8	6	1	-				F	
SR8 Fine Moderate 12:06 Middle 15.4 0.2 62 16.8 16.8 16.8 11.0 110.7 110.7 110.7 10.7	SR7	Fine	Moderate	13:32	16.4	Middle	8.2	0.2	59	16.7	16.7		8.2	31.7	31.7				5.9	5.3 4	5		823636	823745			
SR8 Fine Moderate 12:06 A.5						Bottom					16.8		8.2		31.9						1	-			E.	F	ㅋ
SR8 Fine Moderate 12:06 4.5 1.0 - - 15.4 4.2 31.6 11:08 9.1 4.6 7 - <t< td=""><td></td><td></td><td></td><td></td><td></td><td>Surface</td><td>1.0</td><td>-</td><td>-</td><td>15.4</td><td>15.4</td><td>8.2</td><td>8.2</td><td>31.6</td><td></td><td>110.8</td><td>110.8</td><td>9.1</td><td>4.6</td><td>7</td><td>1</td><td>-</td><td></td><td></td><td></td><td></td><td>_</td></t<>						Surface	1.0	-	-	15.4	15.4	8.2	8.2	31.6		110.8	110.8	9.1	4.6	7	1	-					_
SR8 Fine Moderate 12:06 4.5 Middle - <td>0.50</td> <td></td> <td></td> <td>10.00</td> <td></td> <td></td> <td></td> <td>-</td> <td>-</td> <td>15.4</td> <td></td> <td>8.2</td> <td></td> <td>31.6</td> <td></td> <td>110.8</td> <td></td> <td>9.1 9.1</td> <td></td> <td></td> <td>-</td> <td>-</td> <td>0000</td> <td>04405-</td> <td>-</td> <td>⊢</td> <td>-</td>	0.50			10.00				-	-	15.4		8.2		31.6		110.8		9.1 9.1			-	-	0000	04405-	-	⊢	-
	588	rine	woderate	12:06	4.5	widdle	-	-	-	-	-	-	-	-	-	-		-	-	-	8	-	820376	811635	-	-	<u> </u>
						Bottom		_			15.4		8.2		31.6		111.1	9.2 9.2				-			-		-

Expansion of Hong Kong International Airport into a Three-Runway System Water Quality Monitoring Water Quality Monitoring Results on 12 January 21 during M 12 January 21 during Mid-Flood Tide

Water Qua	ity Monit	toring Resi	ults on		12 January 21	during Mid-		Ide					-																
Monitoring Station	Weather	Sea	Sampling	Water	Sampling Dep	th (m)	Current Speed	Current Direction	Water Te	emperature (°C)		pН	Salin	ity (ppt)	DO Si	aturation (%)	Disso Oxyo		Turbidity(NTU)	Suspende (mg.		Total Al (ppi		Coordinate HK Grid	Coordinate HK Grid	Chron (µg		µg/L)
Station	Condition	Condition	Time	Depth (m)			(m/s)		Value	Average	Value	Average		Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)	Value		DA
					Surface	1.0	0.6	43 45	15.1 15.1	15.1	8.4 8.4	8.4	32.3 32.3	32.3	99.8 99.8	99.8	8.2 8.2	-	1.7	-	10 10		85 86				<0.2	0.6	
	-					4.0	0.6	45	15.1		0.4 8.4		32.3		99.8 99.7		8.2	8.2	3.3		10		89				<0.2	0.5	
C1	Fine	Rough	08:15	8.0	Middle	4.0	0.5	24	15.1	15.1	8.4	8.4	32.4	32.4	99.5	99.6	8.2		3.4	3.3	11	11	89	88	815638	804236	<0.2	<0.2 0.5	0.5
					Bottom	7.0	0.4	24 24	15.2 15.2	15.2	8.4 8.4	8.4	32.4 32.4	32.4	99.6 99.6	99.6	8.2 8.2	8.2	4.7 4.8	F	13 13		89 89				<0.2	0.5	
					Surface	1.0	0.4	354	14.8	14.8	8.1	8.1	31.3	31.3	108.5	108.6	9.1		8.0		16		85				<0.2	0.6	
						1.0	0.4	326 346	14.8 15.5		8.1 8.1		31.3 31.1		108.6 108.9		9.1 9.0	9.1	7.9	F	16 14		86 89				<0.2	0.6	
C2	Fine	Moderate	09:00	11.6	Middle	5.8	0.3	318	15.5	15.5	8.1	8.1	31.1	31.1	108.9	108.9	9.0		7.5	7.6	13	13	89	88	825676	806957	<0.2	<0.2 0.6	0.6
					Bottom	10.6	0.3	2	14.2 14.2	14.2	8.1 8.1	8.1	31.3 31.3	31.3	107.9	107.9	9.1 9.1	9.1	7.4	F	10 10		89 90				<0.2	0.7	
					Surface	1.0	0.3	266	14.2	15.8	8.2	8.2	31.0	31.0	100.1	100.1	8.2		3.5		9		84				<0.2	0.6	_
					Suilace	1.0	0.3	286 268	15.8 15.8		8.2	0.2	31.0 31.0	31.0	100.1		8.2 8.2	8.2	3.5 6.8	-	9		85 89				<0.2	0.6	
C3	Fine	Moderate	06:33	11.0	Middle	5.5	0.3	285	15.8	15.8	8.2 8.2	8.2	31.0	31.0	99.8 99.8	99.8	8.2	F	6.8	6.1	8	8	89	88	822107	817821	<0.2 <0.2	<0.2 0.5	0.6
					Bottom	10.0	0.3	269	15.8	15.8	8.2	8.2	31.0	31.0	100.0	100.1	8.2	8.2	8.0	F	6		89				<0.2	0.6	
					Surface	10.0	0.3	283 321	15.8 15.8	45.0	8.2 8.4	8.4	31.0 32.5	00.5	100.1	102.3	8.2 8.3		8.0 4.7		7 8		90 84			1	<0.2	0.7	_
					Sunace	1.0	0.1	344	15.8	15.8	8.4	0.4	32.5	32.5	102.1	102.3	8.3	8.3	4.8	F	8		85				<0.2	0.6	
IM1	Fine	Calm	08:37	4.6	Middle	-	-	-	-	-	-	-	-	-	-	-	-	F	-	5.3		7	-	87	817968	807119	-	<0.2 -	0.6
					Bottom	3.6	0.1	310	15.8	15.8	8.4	8.4	32.5	32.5	102.0	102.0	8.3	8.3	5.7	F	6		89				<0.2	0.6	
					Surface	3.6	0.1	320 20	15.8 15.9	45.0	8.4 8.4		32.5 32.2	00.0	101.9	100.1	8.3 8.3		6.1 4.7		12		89 83			1	<0.2	0.6	_
					Surrace	1.0	0.3	21	15.9	15.9	8.4	8.4	32.2	32.2	102.5	102.4	8.3	8.4	5.0	F	12		83				<0.2	0.7	
IM2	Fine	Moderate	08:42	7.0	Middle	3.5	0.3	14 14	15.9 15.8	15.8	8.4 8.4	8.4	32.2 32.2	32.2	102.7	102.7	8.4 8.4	F	3.8 3.8	4.1	13 13	13	86 87	87	818144	806158	<0.2 <0.2	<0.2 0.6	0.7
					Bottom	6.0	0.2	16	15.8	15.8	8.4	8.4	32.2	32.2	103.1	102.9	8.4	8.4	3.8	F	13		90				<0.2	0.7	
					Surface	6.0	0.2	17 350	15.8 15.8	45.0	8.4 8.4		32.2 32.2	00.0	102.7	400.0	8.4 8.3		3.7 3.3		14 11		90 85			1	<0.2	0.7	
					Surrace	1.0	0.4	322	15.8	15.8	8.4	8.4	32.2	32.2	102.3	102.2	8.3	8.3	3.3	F	11		85				<0.2	0.8	
IM3	Fine	Moderate	08:50	7.1	Middle	3.6	0.5	2	15.9 15.9	15.9	8.4 8.4	8.4	32.2 32.2	32.2	101.8 101.8	101.8	8.3 8.3	F	3.4 3.5	3.5	11 11	11	88 88	88	818781	805585	<0.2	<0.2 0.7	0.7
					Bottom	6.1 6.1	0.4	359 332	15.9 15.9	15.9	8.4 8.4	8.4	32.2 32.2	32.2	101.5 101.3	101.4	8.3 8.2	8.3	3.7 3.6	F	12 12		91 91				<0.2	0.7	
					Surface	1.0	0.4	11	15.9	15.8	0.4 8.4	0.4	32.2	32.2	101.3	102.5	8.3		3.0		6		85				<0.2	0.6	
					Sunace	1.0 3.7	0.7	11 7	15.8 15.8	15.6	8.4	8.4	32.2	32.2	102.7		8.4	8.3	3.1 3.5	F	5		85				<0.2	0.8	
IM4	Fine	Moderate	08:55	7.3	Middle	3.7	0.6	7	15.8	15.8	8.4 8.4	8.4	32.2 32.2	32.2	101.8 102.0	101.9	8.3 8.3	F	3.5	3.5	9 9	9	88 89	88	819707	804601	<0.2 <0.2	<0.2 0.7	0.7
					Bottom	6.3 6.3	0.5	10 10	15.9 15.9	15.9	8.4 8.4	8.4	32.2 32.2	32.2	101.5	101.5	8.3 8.3	8.3	3.9 3.9		11 11		91 92				<0.2	0.7	
					Surface	1.0	0.5	33	15.9	15.8	8.4	8.4	32.2	32.2	102.6	102.7	8.4		2.8		14		9 <u>2</u> 85				<0.2	0.7	
					Sunace	1.0 3.6	0.8	33 29	15.8 15.8	15.6	8.4 8.4	0.4	32.2 32.2	32.2	102.7 102.2	102.7	8.4 8.3	8.4	2.8 2.8	F	14 11		85 88				<0.2 <0.2	0.7	
IM5	Fine	Moderate	09:02	7.2	Middle	3.6	0.8	31	15.8	15.8	8.4	8.4	32.2	32.2	102.2	102.3	8.3	-	3.0	2.9	11	11	88	88	820740	804856	<0.2	<0.2 0.7	0.7
					Bottom	6.2	0.7	25 25	15.8 15.8	15.8	8.4 8.4	8.4	32.2 32.2	32.2	102.4	102.4	8.3 8.3	8.3	3.1 3.1	F	8		91 91				<0.2	0.7	
					Surface	1.0	0.2	43	15.8	15.8	8.4	8.4	32.2	32.2	102.3	102.4	8.3		2.2		7		84				<0.2	0.7	
					Suilace	1.0 3.5	0.3	46 32	15.8 15.8	15.6	8.4 8.4	0.4	32.2 32.2	32.2	102.5 102.5	102.4	8.4 8.4	8.4	2.2	F	7		85 88				<0.2 <0.2	0.8	
IM6	Fine	Moderate	09:07	7.0	Middle	3.5	0.3	32	15.8	15.8	8.4	8.4	32.2	32.2	102.5	102.5	8.4	-	2.2	2.2	7	7	88	88	821055	805814	<0.2	<0.2 0.7	0.7
					Bottom	6.0 6.0	0.3	28 29	15.8 15.8	15.8	8.4 8.4	8.4	32.2 32.2	32.2	103.1	103.3	8.4 8.4	8.4	2.1	F	8		92 91				<0.2	0.7	
					Surface	1.0	0.3	89	15.8	15.8	8.4	8.4	32.2	32.2	102.8	102.7	8.4		2.1		7		83				<0.2	0.7	
					Suilace	1.0 3.9	0.2	92 154	15.8 15.8	15.6	8.4 8.4	0.4	32.2 32.2	32.2	102.6 102.4	102.7	8.4 8.3	8.4	2.3 2.6	F	7		84 89				<0.2 <0.2	0.8	
IM7	Fine	Moderate	09:11	7.7	Middle	3.9	0.2	168	15.8	15.8	8.4	8.4	32.2	32.2	102.6	102.5	8.4		2.7	2.4	7	7	90	88	821331	806831	<0.2	<0.2 0.6	0.7
					Bottom	6.7 6.7	0.1	170 179	15.8 15.8	15.8	8.4 8.4	8.4	32.2 32.2	32.2	102.4 102.3	102.4	8.4 8.3	8.4	2.3 2.4	F	8		91 92				<0.2 <0.2	0.7	
					Surface	6.7	0.1	179	15.8 15.9	15.9	8.4 8.1	0.1	32.2	31.7	102.3	112.6	8.3 9.2		2.4 6.2		8		86				<0.2	0.5	
					Surface	1.0 3.8	0.1	134	15.9 15.8	15.9	8.1	8.1	31.7	31.7	112.6	112.0	9.2 10.3	9.8	6.2 6.5	F	12 12		86 87				<0.2	0.6	
IM8	Fine	Moderate	08:26	7.5	Middle	3.8	0.2	92 94	15.8 15.8	15.8	8.1 8.1	8.1	31.8 31.8	31.8	125.6 125.6	125.6	10.3		6.5	6.8	12	12	88	88	821823	808121	<0.2 <0.2	<0.2 0.6	0.6
					Bottom	6.5	0.1	105	15.6 15.6	15.6	8.1 8.1	8.1	31.7 31.7	31.7	107.5	107.5	8.8 8.8	8.8	7.7 7.7	F	13 13		89 89				<0.2	0.6	
DA: Depth-Aver			I	1		6.5	0.2	110	15.6	1	ð.1		31./	I	107.5		8.8		1.1		13		89		1	I	<0.2	0.6	

Expansion of Hong Kong International Airport into a Three-Runway System Water Quality Monitoring Water Quality Monitoring Results on 12 January 21 during M 12 January 21 during Mid-Flood Tide

Water Qua	lity Moni	toring Res	ults on		12 January 21	during Mid-		ide																				
Monitoring Station	Weather	Sea	Sampling	Water	Sampling Dep	th (m)	Current Speed	Current		mperature (°C)	t i	рН		ity (ppt)		aturation (%)	Dissolved Oxygen		dity(NTI	(ing)	/L)	(ppm	ר) ⁽	Coordinate HK Grid	Coordinate HK Grid	Chrom (µg/L	L) NIC	ckel (µg/L)
otation	Condition	Condition	Time	Depth (m)			(m/s)		Value	Average	Value	Average	Value	Average		Average	Value D/				DA		DA	(Northing)	(Easting)		DA Vali	
					Surface	1.0	0.3	58 61	15.3 15.3	15.3	8.1 8.1	8.1	31.7 31.7	31.7	110.4 110.4	110.4	9.1	9.3 9.3		8		86 86				<0.2 <0.2	0.0	
IM9	Fine	Moderate	08:18	7.2	Middle	3.6	0.2	42	15.3	15.3	8.1	8.1	31.7	31.7	110.8	110.9	9.1 9.1	9.0		8 11	10	88	88	822075	808812	<0.2	-0.2 0.6	.6
		modorato	00.10	1.2		3.6	0.2	44 22	15.3 15.3		8.1 8.2		31.7 31.7		110.8 101.3		9.1 8.4	9.0		.0 <u>11</u> 12		87 89	00	022010	000012	<0.2 <0.2	0.0	.6
					Bottom	6.2	0.3	22	15.3	15.3	8.2	8.2	31.7	31.7	101.3	101.3	8.4 8.4	8.0		12		89				<0.2	0.6	.6
					Surface	1.0	0.6	305 312	15.3 15.3	15.3	8.1 8.1	8.1	31.8 31.8	31.8	101.5 101.3	101.4	8.4 8.4	8.1		9		85 86				<0.2 <0.2	0.0	
IM10	Fine	Moderate	08:09	7.0	Middle	3.5	0.6	309	15.3	15.3	8.1	8.1	31.8	31.8	98.0		8.1 8.3	20.0		9	. 9	88	88	822374	809799	<0.2	<0.2	
INTO	1 116	Moderate	00.03	7.0	WILCOLO	3.5 6.0	0.6	319 307	15.3 15.3		8.1 8.0		31.8 31.8		98.0 110.0		8.1 9.1	20.0		. 9		88 89	00	022014	003/33	<0.2 <0.2	0.0	.6
					Bottom	6.0	0.4	330	15.3	15.3	8.0	8.0	31.8	31.8	110.0		9.1 9.1	24.0		8		91				<0.2	0.6	
					Surface	1.0	0.3	285 295	15.2 15.2	15.2	8.2 8.2	8.2	30.8 30.8	30.8	102.4 102.5		8.5 8.5	6.0		7		85 85				<0.2 <0.2	0.0	
IM11	Fine	Moderate	07:52	7.0	Middle	3.5	0.3	295	15.2	15.2	0.2 8.1	8.1	30.8		102.5		8.6 8.6	6.4		6	6	87	87	822037	811439	-0.2	-0.2 0.6	.6 0.6
IIVITT	Fille	woderate	07.52	7.0	Widdle	3.5	0.4	315	15.2	15.2	8.1	0.1	30.8	30.8	103.7		8.6	6.4		6	. 0	87	0/	622037	611439	<0.2	0.	./
					Bottom	6.0 6.0	0.4	286 299	15.0 15.0	15.0	8.2 8.2	8.2	30.8 30.8	30.8	107.3 107.6		9.0 9.0	5.9		6		89 89				<0.2 <0.2	0.6	
					Surface	1.0	0.5	262	15.2	15.2	8.2	8.2	30.9	30.9	100.2	100.2	8.3	4.5		13		85				<0.2	0.6	.6
						1.0	0.5	284 264	15.2 15.1		8.2 8.2		30.9 30.9		100.2 99.8		8.3 8.3	5.1		13	10	85 88		004 470	040005	<0.2 <0.2	0	.6
IM12	Fine	Moderate	07:44	8.7	Middle	4.4	0.5	270	15.1	15.1	8.2	8.2	30.9	30.9	99.8	99.8	8.3	5.4		.3 11	10	89	88	821470	812035	<0.2		.6 0.6
					Bottom	7.7	0.3	261 275	15.1 15.1	15.1	8.2 8.2	8.2	30.9 30.9	30.9	99.6 99.6		8.3 8.3	5.3		7		90 91				<0.2 <0.2	0.0	.6
					Surface	1.0	-	-	14.4	14.4	8.1	8.1	30.7	30.7	98.2	00.2	8.3	5.7		8		-				-	-	-
					-	1.0	-	-	- 14.4		8.1		30.7		98.2		8.3 8.3	5.8		8		-				-	-	
SR1A	Fine	Moderate	07:12	5.3	Middle	2.7	-	-	-	-	-	-	-	-	-		-	-	6	-	9	-	-	819977	812665	-	-	<u> </u>
					Bottom	4.3	-	-	14.4 14.4	14.4	8.2 8.2	8.2	30.7 30.7	30.7	98.3 98.3		8.3 8.3	6.6		9		-				-		-
					Surface	1.0	0.3	27	15.0	15.0	8.2	8.2	30.9	30.9	99.5	99.5	8.3	3.2		10		88				<0.2	0.6	
						1.0	0.3	27	15.0		8.2		30.9		99.5		8.3 8.3	3.2		10		- 88				<0.2	0.6	
SR2	Fine	Moderate	06:55	4.8	Middle	-	-	-	-	-	-	-	-	-	-		-	-	3.	-	10	-	89	821472	814159	-	<0.2	- 0.6
					Bottom	3.8	0.2	37 40	14.9 14.9	14.9	8.2 8.2	8.2	30.9 30.9	30.9	99.3 99.3		8.3 8.3	3.4		10		89 90				<0.2	0.0	.6
					Surface	1.0	0.1	78	15.7	15.7	8.1	8.1	32.3	32.3	102.1		8.3	3.0		9		-				-	-	
						1.0	0.1	79 78	15.7 15.7		8.1 8.1		32.3 32.3		102.1 102.2		8.3 8.3	3.0		9		-				-	-	<u>-</u>
SR3	Fine	Moderate	08:35	8.4	Middle	4.2	0.2	83	15.7	15.7	8.1	8.1	32.3	32.3	102.2	102.2	8.3	3.4	3.	.3 11	11	-	-	822124	807553	-		
					Bottom	7.4	0.1	66 68	15.7 15.7	15.7	8.1 8.1	8.1	32.3 32.3		102.2		8.3 8.3	3.5		12		-				-	-	-
					Surface	1.0	0.1	99	15.3	15.3	8.4	8.4	32.4	32.4	101.3	101.3	8.3	4.2		10		-				-	-	
						1.0	0.1	103 87	15.3 15.4		8.4 8.4		32.4 32.4		101.3		8.3 8.3	4.3		10		-				-	-	
SR4A	Fine	Moderate	07:50	9.0	Middle	4.5	0.1	90	15.4	15.4	8.4	8.4	32.4		101.1	101.1	8.3	5.5	5.	.0 11	11	-	-	817181	807795	-	-	<u> </u>
					Bottom	8.0	0.1	104 108	15.4 15.4	15.4	8.4 8.4	8.4	32.4 32.4		101.3 101.6		8.3 8.3	5.4		12 12		-				-	-	<u>-</u>
					Surface	1.0	0.2	300	16.4	16.4	8.4	8.4	32.6		105.2	105.4	8.5	2.1		9		-				-	-	
						1.0	0.2	329	- 16.4		8.4		32.6		105.5		8.5 8.5	2.1		9		-				-	-	-
SR5A	Fine	Calm	07:18	3.5	Middle	-	-		-	-	-	-	-	-	-	-	-	-	2.	.6 -	9	-	•	816611	810692	-	· ·	-
					Bottom	2.5	0.2	294 322	16.4 16.4	16.4	8.4 8.4	8.4	32.6 32.6	32.6	108.7	109.3	8.7 8.8	3.0		9		-				-	-	<u> </u>
					Surface	1.0	0.1	267	16.6	16.6	8.3	8.3	32.6	32.6	103.4		8.3	2.2		11		-				-		
						1.0	0.1	267	16.6	10.0	8.3	0.0	32.6	02.0	103.4	100.1	8.3 8.3	2.2		11						-	-	
SR6A	Fine	Calm	06:46	4.2	Middle	-	-	-	-		-		-	-	-	-	-	-	_	.5 -	11	-	-	817941	814757	-	-	
					Bottom	3.2	0.1	270 271	16.6 16.6	16.6	8.3	8.3	32.6 32.6	32.6	105.2	105.3	8.4 8.4	2.6		10 10		-				-	-	-
					Surface	1.0	0.1	7	16.1	16.1	8.2	8.2	31.1	21.1	100.6	100.6	8.2	6.0		9		-				-	-	
						1.0 8.2	0.2	7	16.1 16.1		8.2 8.2		31.1 31.1	-	100.6 100.5		8.2 8.2	6.0 6.4		9		\vdash				-	_	-
SR7	Fine	Moderate	06:03	16.4	Middle	8.2	0.2	18	16.1	16.1	8.2	8.2	31.1		100.5	100.5	8.2	6.4	<u>ь</u>	.1 8	8	-	-	823624	823744	-		<u> </u>
					Bottom	15.4 15.4	0.2	8	16.0 16.0	16.0	8.2 8.2	8.2	31.2 31.2		100.5		8.2 8.2	5.9		8		-				•	-	4
					Surface	15.4	- 0.2	-	16.0	14.7	8.2	0.2	31.2 30.9	30.9	99.6		8.2	4.5		8						-		
					Sunace	1.0	-	•	14.7	14.7	8.3	8.3	30.9	30.9	99.6	99.0	8.4 8.4	4.4	\neg	7		-				-	-	4
SR8	Fine	Moderate	07:31	4.0	Middle	-	-	-		•	-	-	-	-	-	-	-	-	4.	.7 -	9	-	-	820403	811640	-		
					Bottom	3.0	-		14.7	14.7	8.2	8.2	30.8	30.8	97.8		8.2 8.2	4.7		10		-				-	-	4
L	L				L	3.0	-		14.7		8.2		30.8		97.8		8.2	5.2		10						-		<u> </u>

Expansion of Hong Kong International Airport into a Three-Runway System Water Quality Monitoring Water Quality Monitoring Results on 14 January 21 during M 14 January 21 during Mid-Ebb Tide

water Quar	ity wonn	toring Resu	lits on		14 January 21	during Mid-		e																					
Monitoring Station	Weather	Sea	Sampling	Water	Sampling Dep	h (m)	Current Speed	Current Direction	Water Te	mperature (°C)		pН	Salir	ity (ppt)	DO S	aturation (%)	Dissolv Oxyge		urbidity(N	ITU) S	ispende (mg/	d Solids 'L)	Total A (pp		Coordinate HK Grid	Coordinate HK Grid	Chron (µg/		ickel (µg/L
Station	Condition	Condition	Time	Depth (m)			(m/s)		Value	Average	Value	Average		Average	Value	Average			Value	DA	/alue	DA	Value	DA	(Northing)	(Easting)	Value	DA Va	alue DA
					Surface	1.0	0.1	46	16.8 16.8	16.8	8.0 8.0	8.0	30.7	30.7	115.4	115.4	9.3 9.3		4.6 4.6	-	6 7	-	•				<u> </u>	-	-
C1	Fine	Moderate	13:34	8.2	Middle	4.1	0.0	314	15.4	15.4	8.0	8.0	30.8	30.8	115.2	115.2	9.6	9.4	4.7	4.7	7	7	-		815630	804228	-		· .
						4.1	0.0	326 219	15.4 15.1		8.0 8.0		30.8 31.1		115.1 112.7		9.5 9.4		4.7 4.8	-	6 8		-					-	-
					Bottom	7.2	0.0	232	15.1	15.1	8.0	8.0	31.1	31.1	112.7	112.7	9.4	9.4	4.7		7		-				· ·		-
					Surface	1.0	0.3	13 13	15.7 15.7	15.7	8.1 8.1	8.1	31.6 31.6	31.6	108.7	108.6	8.9 8.9		2.4 2.4	-	7	ŀ	•	-			-		-
C2	Cloudy	Moderate	12:24	12.8	Middle	6.4	0.3	21	15.3	15.3	8.1	8.1	32.3	32.3	106.1	106.1	8.7	8.8	4.2	3.4	7	8		1.	825663	806963	-		· .
						6.4 11.8	0.3	22 22	15.3 15.3		8.1 8.1		32.3 32.3		106.1 105.8		8.7 8.7		4.3 3.6	_	8 9		•				-	-	-
					Bottom	11.8	0.3	23	15.3	15.3	8.1	8.1	32.3	32.3	106.0	105.9	8.7	8.7	3.5		10	-					-		-
					Surface	1.0	0.3	94 101	16.0 16.0	16.0	8.1 8.1	8.1	32.5 32.5	32.5	105.4 105.3	105.4	8.5 8.5		2.1 2.1	-	6	ł	-				-		-
C3	Cloudy	Moderate	14:23	12.0	Middle	6.0	0.3	91	16.2	16.2	8.1	8.1	32.7	32.7	103.3	103.3	8.3	0.4	4.1	3.3	6	7			822109	817812	•		
						6.0 11.0	0.3	93 89	16.2 16.2		8.1 8.1		32.7 32.7		103.2 103.7		8.3 8.4		4.1 3.7	_	7	ŀ	•	-			-		-
					Bottom	11.0	0.3	94	16.2	16.2	8.1	8.1	32.7	32.7	103.8	103.8	8.4	8.4	3.6		8						-		-
					Surface	1.0	0.1	213 214	15.6 15.6	15.6	8.1 8.1	8.1	31.2 31.2	31.2	118.6 118.5	118.6	9.8 9.8		4.2 4.2	-	11 10	ŀ	•	-			-		-
IM1	Fine	Moderate	13:11	4.7	Middle	-	-	-	-		-		-		-		-	9.8	-	4.2	-	10			817937	807125	-	. 🗆	Ξ.
						- 3.7	- 0.1	- 225	- 15.6		- 8.1		- 31.2		- 118.0		- 9.7		- 4.2	-	- 9		-				-		<u>.</u>
					Bottom	3.7	0.1	231	15.6	15.6	8.1	8.1	31.2	31.2	117.9	118.0	9.7		4.2		10								-
					Surface	1.0	0.0	79 81	15.7 15.7	15.7	8.1 8.1	8.1	30.6 30.6	30.6	118.4 118.3	118.4	9.8 9.8		4.6 4.5	-	10 11	ŀ	-	-			-		-
IM2	Fine	Moderate	13:04	6.8	Middle	3.4	0.0	159	15.8	15.8	8.1	8.1	30.7	30.7	116.4	116.4	9.6	9.7	4.8	5.1	10	10		1.	818147	806170	-		· .
						3.4 5.8	0.0	166 273	15.8 15.1		8.1 8.1		30.7 31.3		116.4 113.5		9.6 9.4		4.8 6.0	-	9		•	-			-		-
					Bottom	5.8	0.1	273	15.1	15.1	8.1	8.1	31.3	31.3	113.5	113.5	9.4		5.9		10		-				-		-
					Surface	1.0	0.1	333 349	15.7 15.7	15.7	8.1 8.1	8.1	31.0 31.0	31.0	116.2 116.2	116.2	9.6 9.6		5.1 5.1		10 9	ŀ	•	-			-		-
IM3	Fine	Moderate	12:57	7.0	Middle	3.5	0.1	309	15.2	15.2	8.1	8.1	31.0	31.0	115.0	115.0	9.6	9.6	5.7	5.6	10	9	-	I .	818791	805609	-		· .
						3.5 6.0	0.1	328 278	15.2 15.1		8.1 8.0		31.0 31.2		115.0 114.2		9.6 9.5		5.7 5.9	-	9 8	ŀ	•	-			-		-
					Bottom	6.0	0.1	288	15.1	15.1	8.0	8.0	31.2	31.2	114.2	114.2	9.5		5.9		9						-		-
					Surface	1.0	0.2	8	15.2 15.2	15.2	8.0 8.0	8.0	31.1	31.1	113.5 113.6	113.6	9.4 9.4		5.4 5.4	-	11 10	ł	•	-			-		-
IM4	Fine	Moderate	12:47	8.2	Middle	4.1	0.1	315	15.1	15.1	8.0	8.0	31.0	31.0	113.6	113.6	9.5		5.6	5.8	11	11	-	I .	819719	804615	-		÷ .
					D. #	4.1	0.1	329 325	15.1 15.0		8.0 8.0		31.0 31.1		113.5 112.0		9.5 9.3		5.6 6.3	-	10 10	ł	•				-		-
					Bottom	7.2	0.1	338	15.0	15.0	8.0	8.0	31.1	31.1	112.1	112.1	9.3	9.3	6.4		11		-				-		-
					Surface	1.0	0.2	9	15.3 15.3	15.3	8.0 8.0	8.0	31.2 31.2	31.2	113.8 113.9	113.9	9.4 9.4		5.2 5.2	-	10 10	ł	-	-			-		-
IM5	Fine	Moderate	12:39	7.5	Middle	3.8	0.2	356	15.2	15.2	8.0	8.0	31.1	31.1	114.5	114.5	9.5 9.5		5.9	5.9	9	9	-		820736	804850	-		
					Bottom	3.8 6.5	0.2	328 3	15.2 15.2	15.2	8.0 8.0	8.0	31.1 31.1	31.1	114.4	113.6	0.4		6.0 6.6	-	10 8	-					-		-
					Bollom	6.5 1.0	0.2	3 263	15.2 15.3	15.2	8.0 8.0	0.0	31.1	31.1	113.6 115.5		9.4 9.6		6.6 3.1		7		-				•		-
					Surface	1.0	0.1	263	15.3	15.3	8.0	8.0	31.3	31.3	115.5	115.5	9.6		3.1		6	-					-		-
IM6	Fine	Moderate	12:30	7.4	Middle	3.7 3.7	0.1	289 291	15.2 15.2	15.2	8.0 8.0	8.0	31.2 31.2	31.2	114.9 114.9	114.9	9.5 9.5		3.2	3.6	8 9	8	•		821065	805819	•		· ·
					Bottom	6.4	0.0	70	15.2	15.8	8.0	8.0	31.2	31.3	114.9	114.5	0.4		3.2 4.4		8	-					-		-
					Bollom	6.4 1.0	0.0	72 123	15.8 15.2	13.8	8.0	0.0	31.4	31.3	114.5	114.5	9.4 9.6		4.4 3.1		9		-				-		-
					Surface	1.0	0.1	123	15.2	15.2	8.0 8.0	8.0	31.3 31.3	31.3	115.3 115.2	115.3	9.6		3.1		5 6		•				-		-
IM7	Fine	Moderate	12:24	8.6	Middle	4.3	0.1	159	15.1	15.1	8.0	8.0	31.3 31.3	31.3	114.4 114.3	114.4	9.5 9.5		3.1	3.3	7	7	-	-	821329	806824	-		
					Bottom	4.3 7.6	0.1	170 177	15.1 15.2	15.2	8.0 8.0	8.0	31.6	31.6	113.2	113.2	9.4	94	3.1 3.5		7	ŀ					-		-
					BOILOTTI	7.6 1.0	0.1	177	15.2 15.4	10.2	8.0	0.0	31.6	31.0	113.1		9.4		3.8		7 9		-		1		-		-
					Surface	1.0	0.3	63 68	15.4	15.4	8.1 8.1	8.1	32.1 32.1	32.1	109.1 108.9	109.0	9.0 8.9		2.6 2.6		9 10	ł					-		-
IM8	Cloudy	Moderate	12:46	7.5	Middle	3.8 3.8	0.3	59 62	15.2 15.2	15.2	8.1 8.1	8.1	32.3 32.3	32.3	106.9 106.8	106.9	8.8 8.8		3.6 3.6	3.3	10 9	9	-		821826	808132	-	. –	
					Bottom	3.8 6.5	0.3	55	15.2	15.2	8.1	8.1	32.3	32.3	105.7	105.7	8.7	87	3.7		8	ł					-		-
DA: Depth-Aver					Bollom	6.5	0.2	59	15.2	10.2	8.1	0.1	32.3	32.3	105.7	105.7	8.7	0.7	3.7		7		-				-		<u> </u>

Expansion of Hong Kong International Airport into a Three-Runway System Water Quality Monitoring Water Quality Monitoring Results on 14 January 21 during M 14 January 21 during Mid-Ebb Tide

Water Qua	lity Moni	toring Resu	ults on		14 January 21	during Mid-	Ebb Tid	e																				
Monitoring	Weather	Sea	Sampling	Water			Current Speed	Current	Water Te	mperature (°C)		pН	Salir	iity (ppt)	DO S		solved ygen	Turbidity	(NTU)	Suspende (mg/		Total A (pp		Coordinate		Chron (µg/		Nickel (µg/L)
Station	Condition	Condition	Time	Depth (m)	Sampling Dept	h (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value		T	Value	DA	Value	DA	Value		HK Grid (Northing)	HK Grid (Easting)	Value		Value DA
	Condition	Condition	Time	Deptil (III)		1.0	0.2	45	15.9		8.1		31.9	÷	109.8			1.7	DA	8	DA	value	DA	(Horthing)	(Edding)	value		Value DA
					Surface	1.0	0.2	45	15.9	15.9	8.1	8.1	31.9	31.9	109.9	109.9 9.0	8.9	1.7		9		-				-		-
IM9	Cloudy	Moderate	12:52	7.3	Middle	3.7	0.3	64	15.3	15.3	8.1	8.1	32.2	32.2	106.9	106.9 8.8	0.9	2.6	2.2	7	7	-	-	822095	808805	-	. [· .
					_	3.7 6.3	0.3	68 59	15.3 15.1		8.1 8.1		32.2 32.3		106.8	100.0 8.8 100.0 8.8		2.6 2.1		7		-				-	-	-
					Bottom	6.3	0.3	60	15.1	15.1	8.1	8.1	32.3	32.3	106.2	106.2 8.8	8.8	2.2		6						-		-
					Surface	1.0	0.3	76 79	15.7 15.7	15.7	8.1 8.1	8.1	31.9 31.9	31.9	107.7	107.7 8.8	-	1.9 1.9		6 5		-				-	-	<u> </u>
IM10	Cloudy	Moderate	12:58	7.8	Middle	3.9	0.3	74	15.5	15.5	8.1	8.1	32.0	32.0	106.5	106.6 8.7	8.8	2.1	1.9	5	8	-		822408	809784	-	. t	-
INTO	Cloudy	wouerate	12.30	7.0	Wildule	3.9	0.3	77	15.5	13.5	8.1	0.1	32.0	32.0	106.6	8.8		2.1	1.5	6	°	-		022400	009704	•		-
					Bottom	6.8 6.8	0.3	67 69	15.4 15.4	15.4	8.1 8.1	8.1	32.2 32.2	32.2	106.2	106.1 8.7	8.7	1.7 1.8		12 11						-	F	-
					Surface	1.0	0.2	99	15.4	15.4	8.1	8.1	32.4	32.4	108.4	108.3 8.9		1.1		7		-				-		-
						1.0 3.9	0.2	104 94	15.4 15.4		8.1 8.1		32.4 32.4		108.2 107.1	8.9	8.9	1.1 1.1		7		•				-	-	· ·
IM11	Cloudy	Moderate	13:08	7.8	Middle	3.9	0.2	94	15.4	15.4	8.1	8.1	32.4	32.4	107.0	107.1 8.8	-	1.1	1.1	7	7		-	822063	811449			
					Bottom	6.8	0.2	82	15.3	15.3	8.1	8.1	32.4	32.4	105.6	105.6 8.7	8.7	1.0		6		•				•	F	·
						6.8 1.0	0.2	82 98	15.3 15.5		8.1 8.1		32.4		105.6	8.7	-	1.0 1.2		5 6		-				-		-
					Surface	1.0	0.3	107	15.5	15.5	8.1	8.1	32.4	32.4	109.3	109.3 9.0	8.9	1.2		6			1			-	. [-
IM12	Cloudy	Moderate	13:16	9.6	Middle	4.8	0.2	107 113	15.4 15.4	15.4	8.1 8.1	8.1	32.4 32.4	32.4	107.3	107.4 8.8	0.5	1.2 1.2	1.2	6	7	•	-	821441	812069	•		· .
					D. #	4.6	0.2	122	15.4		8.1		32.4	00.4	107.4	07	0.7	1.2		8						-	F	-
					Bottom	8.6	0.1	122	15.4	15.4	8.1	8.1	32.4	32.4	106.3	106.3 8.7	8.7	1.1		8		-				-		
					Surface	1.0	-		15.6 15.6	15.6	8.1 8.1	8.1	32.4 32.4	32.4	110.1	110.1 9.0	-	2.3 2.3		3						-	F	<u>·</u>
SR1A	Cloudy	Calm	13:49	5.2	Middle	2.6	-	-	-		-		-		-	-	9.0	-	3.0	-	4			819975	812659	-	[-
SKIA	Cioudy	Gain	13.45	5.2	Middle	2.6 4.2	•	-	-		-	-	-	_	-			3.7		- 4	-	-		013375	012000	-	- L	-
					Bottom	4.2	-		15.6 15.6	15.6	8.1 8.1	8.1	32.4	32.4	108.2	108.2 8.8	8.8	3.8		5						-	F	-
					Surface	1.0	0.2	22	15.5	15.5	8.1	8.1	32.4	32.4	108.6	108.5 8.9		3.9		7						-	-i	-
						1.0	0.2	24	15.5		8.1		32.4	-	108.4	8.9	8.9	3.9		6		-				-	F	-
SR2	Cloudy	Moderate	14:04	4.1	Middle	-	-	-	-	-	-	-	-	-	-			-	3.9	-	6	-	•	821450	814172	-		-
					Bottom	3.1 3.1	0.2	17	15.5 15.5	15.5	8.1 8.1	8.1	32.4	32.4	107.4	107.4 8.8	8.8	3.8 3.8		6 5		-				-	F	-
					Surface	1.0	0.2	18 127	15.5	45.0	8.1		31.9	31.9	107.4	108.4 8.9		2.1		5						-		-
					Surrace	1.0	0.5	137	15.6	15.6	8.1	8.1	31.9	31.9	108.2	106.4 8.9	8.9	2.2		8						-	Ę	-
SR3	Cloudy	Moderate	12:41	8.9	Middle	4.5	0.3	115 124	15.4 15.4	15.4	8.1 8.1	8.1	32.0	32.0	107.3	107.3 8.8	-	3.7 3.8	3.4	7	8	-	-	822154	807547	-		· ·
					Bottom	7.9	0.4	93	15.4	15.4	8.1	8.1	32.2	32.2	106.3	106.1 8.7	8.7	4.3		9						-	. [-
					Bottom	7.9	0.4	94 81	15.4 15.7	10.1	8.1 8.0	0.1	32.1 31.1	02.12	105.9 119.9	8.7	0.1	4.1 3.8		10 6						•		-
					Surface	1.0	0.3	82	15.7	15.7	8.0	8.0	31.1	31.1	119.9	119.9 9.9		3.8		7						-	F	-
SR4A	Fine	Calm	13:57	9.1	Middle	4.6	0.3	73	15.9	15.9	8.0	8.0	31.1	31.1	117.2	117.3 9.6	9.8	3.9	3.9	6	6	-		817179	807813	-	. [-
						4.6	0.3	73 58	15.9 15.6		8.0 8.0		31.1 31.2		117.3	9.6		3.9 4.0		7		-				-	ŀ	-
					Bottom	8.1	0.2	62	15.6	15.6	8.1	8.0	31.2	31.2	118.5	9.8	9.8	4.0		6						•		-
					Surface	1.0	0.0	277 285	15.7 15.7	15.7	8.1 8.1	8.1	31.4 31.4	31.4	131.7 131.7	131.7 10.8	-	3.5 3.5		7		-				-	-	
CDEA	Fire	Calm	14.12	2.0	Middle	-	-	-	-		-		-		-	-	10.8		2.4	-				040000	04.0004		F	-
SR5A	Fine	Calm	14:13	3.2	Middle	-	-	-	-		-	-	-	-	-	-		-	3.4	-	8	-	-	816602	810691	-		-
					Bottom	2.2 2.2	0.2	311 323	15.6 15.6	15.6	8.1 8.1	8.1	31.4 31.4	31.4	128.6 128.5	128.6 10.6	10.6	3.5 3.4		8		-				-	ŀ	-
					Surface	1.0	0.0	2	16.1	16.1	8.1	8.1	31.6	31.6	122.4	122.4 10.0		6.1		8						-		-
					Guilade	1.0	0.0	2	16.1	10.1	8.1	0.1	31.6	51.0	122.4	122.4 10.0	10.0	6.1		9	-	•				•	F	-
SR6A	Fine	Calm	14:58	4.1	Middle	-	-	-	-	-	-	-	-	-	-		-	-	6.4	-	10		-	817981	814757	-		-
					Bottom	3.1	0.1	19	16.0	16.1	8.1	8.1	31.5	31.5	122.1	122.1 9.9	9.9	6.4		11		-				-	Ę	-
						3.1 1.0	0.1	20	16.1 16.2		8.1 8.1		31.5 32.6		122.1 104.4	9.9		6.8 1.3		10 4						-	-	-
					Surface	1.0	0.4	36	16.2	16.2	8.1	8.1	32.6	32.6	104.4	104.4 8.4	8.4	1.3		3	ł					-	. t	-
SR7	Cloudy	Moderate	14:54	15.9	Middle	8.0 8.0	0.4	35 35	16.2 16.2	16.2	8.1 8.1	8.1	32.7	32.7	103.2	103.3 8.3	0.4	1.3 1.4	1.3	3	3	•	-	823619	823761	-		<u>.</u> .
					Dettern	8.0	0.4	28	16.2	40.0	8.1	0.4	32.7	20.7	103.4	0.4		1.4		3	}	-				-	ŀ	-
					Bottom	14.9	0.3	30	16.2	16.2	8.1	8.1	32.7	32.7	103.7	103.7 8.4	8.4	1.2		2						-		·
					Surface	1.0	-	-	15.5 15.5	15.5	8.1 8.1	8.1	32.4 32.4	32.4	111.8	111.9 9.2 9.2	-	0.8		6	}	-				-	┝	<u> </u>
SR8	Cloudy	Moderate	13:26	4.5	Middle	-	-	-	-		-		-		-	-	9.2	-	0.7	-	6	-		820392	811637	-	t	
0110	Cioudy	mousiale	13.20	7.5	WIGGIG	- 3.5	-	-	-	-	-	-	-		-	-			0.7	- 6	Ŭ	-		320032	51105/	-		-
					Bottom	3.5	-	-	15.4 15.4	15.4	8.1 8.1	8.1	32.4 32.4	32.4	109.7 109.6	109.7 9.0	9.0	0.6		6		-				-	F	-
C																												

Expansion of Hong Kong International Airport into a Three-Runway System Water Quality Monitoring Water Quality Monitoring Results on 14 January 21 during M 14 January 21 during Mid-Flood Tide

Water Qua	ity Moni	toring Res	ults on		14 January 21	during Mid		ide																				
Monitoring Station	Weather	Sea	Sampling	Water	Sampling Dep	th (m)	Current Speed	Current Direction	Water Te	emperature (°C)		pН	Sali	nity (ppt)	DO S	aturation (%)	Dissolved Oxygen	Turbidity	/(NTU)	Suspende (mg			Alkalinity pm)	Coordinate HK Grid	Coordinate HK Grid	Chromi (µg/L		kel (µg/
Station	Condition	Condition	Time	Depth (m)			(m/s)		Value	Average	Value	Average		Average	Value	Average \	alue DA		DA	Value	DA	Value	DA	(Northing)	(Easting)	Value	DA Val	lue D/
					Surface	1.0	0.5	41	14.6 14.6	14.6	8.0 8.0	8.0	30.6 30.6	30.6	111.5	1115	9.4 9.4	7.9	4	12 11		-	-			•	-	_
C1	Cloudy	Moderate	09:15	7.6	Middle	3.8	0.4	34	14.7	14.7	8.0	8.0	30.6	30.6	112.0	112.0	9.4	8.3	8.8	9	9	-	1.	815620	804247	•	-	
0.	cloudy	modorato	00.10	1.0		3.8	0.5	34 26	14.7 14.7		8.0 8.0		30.6 30.8		111.9		9.4	8.3 10.3	0.0	8		-	-	010020	001211	•	· -	
					Bottom	6.6	0.4	28	14.7	14.7	8.0	8.0	30.8	30.8	110.7	110.6	9.3	10.3	1	8		-	-			-	-	_
					Surface	1.0	0.3	356 328	15.5 15.5	15.5	8.1 8.1	8.1	31.3 31.3	31.3	104.6 104.6		8.6 8.6	2.5	+	7		-	-			-	-	
C2	Cloudy	Moderate	09:44	11.5	Middle	5.8	0.4	17	15.4	15.4	8.1	8.1	31.6	31.6	103.9	103.0	8.6 8.6	5.0	4.5	7	7	-	1.	825669	806955	•		
					During	5.8 10.5	0.4	18 52	15.4 15.4		8.1 8.1		31.6 31.9		103.9		8.6 8.5 o.5	5.1 6.0	+	6 7		-	-			-	-	
					Bottom	10.5	0.4	52	15.4	15.4	8.1	8.1	31.8	31.8	103.8	103.0	8.5 8.5	5.9	1	6		-	1			· -	-	<u> </u>
					Surface	1.0	0.5	287 299	15.3 15.3	15.3	8.1 8.1	8.1	32.3 32.3	32.3	104.8 105.0		8.6 8.6 8.6	4.3	1	9		-	1			-	-	
C3	Cloudy	Moderate	07:39	10.5	Middle	5.3 5.3	0.5	289 314	15.4 15.4	15.4	8.1 8.1	8.1	32.3	32.3	104.4		8.6 8.6	7.8	9.0	10 9	9	-		822087	817785	-		
					Bottom	9.5	0.4	292	15.4	15.4	8.1	8.1	32.3	32.3	104.2	104.2	8.6 8.6	14.5	1	9		-	1				-	
						9.5	0.4	320 310	15.4 15.0	1	8.1 8.0		32.3 31.4		104.2		8.6 9.4	14.7 3.5		10 8		-				•	-	
					Surface	1.0	0.0	324	15.0	15.0	8.0	8.0	31.4	31.4	112.8		9.4 9.4	3.5	1	9		-				-	-	
IM1	Fine	Moderate	09:36	4.7	Middle		-	-	-	-	-		-	-	-	- ⊢		-	3.4	-	11	-		817932	807147	-	· -	
					Bottom	3.7	0.0	327	14.9	14.9	8.0	8.0	31.4	31.3	111.8		9.3 9.3	3.3	1	14		-	1			-	_	4
					Surface	3.7	0.0	356 8	14.9 15.0	15.0	8.0 8.0	8.0	31.3 31.2	31.2	111.8	110.7	9.3	3.3 9.4		13 15		-					-	_
					Sunace	1.0	0.3	8	15.0 15.0	15.0	8.0 8.0		31.2 31.3		110.7 111.5		9.2 9.3 9.3	9.4 9.6]	16 14		-				•	-	
IM2	Fine	Moderate	09:44	6.6	Middle	3.3	0.3	2	15.0	15.0	8.0	8.0	31.3	31.3	111.4	111.5	9.3	9.7	10.3	13	12	-		818143	806168		-	
					Bottom	5.6 5.6	0.3	5	15.0 15.0	15.0	8.0 8.0	8.0	31.2	31.2	110.6		9.2 9.2 9.2	11.8	+	8		-	+			•	-	_
					Surface	1.0	0.4	342	14.9	14.9	8.1	8.1	31.2	31.2	111.6	111.6	9.3	9.4		16		-				-	-	
			00.50			1.0	0.4	352 345	14.9 15.0		8.1 8.0		31.2 31.2		111.6		9.3 9.4	9.0 9.8		17 17		-	+	040700		-	-	
IM3	Fine	Moderate	09:52	6.8	Middle	3.4 5.8	0.3	317	15.0 15.0	15.0	8.0 8.0	8.0	31.2	31.2	112.9		9.4	9.7 10.0	9.7	16 16	16	-	1.	818769	805606	· .	· 🖃	二 .
					Bottom	5.8	0.3	338 311	15.0	15.0	8.0	8.0	31.2 31.2	31.2	112.1		9.3 9.3	10.0	1	16						-	-	
					Surface	1.0	0.6	348 320	15.0 15.0	15.0	8.0 8.0	8.0	31.2 31.2	31.2	111.8		9.3 9.3	6.7 6.8		13 14		-	-			-	-	
IM4	Fine	Moderate	10:01	7.9	Middle	4.0	0.5	348	15.1	15.1	8.0	8.0	31.2	31.2	112.7	112.7	9.4	7.9	7.5	14	15	-	1.	819721	804610	-	-	
		modorato	10.01	1.0		4.0	0.5	320 344	15.1 15.1		8.0 8.0		31.2 31.2		112.6		9.4	7.6	1.0	15 16		-	-	010121	001010	-	· ·	
					Bottom	6.9	0.4	316	15.1	15.1	8.0	8.0	31.2	31.2	111.9	111.9	9.3 9.3	7.9		17		-				-	-	
					Surface	1.0	0.7	13	15.0 15.0	15.0	8.0 8.0	8.0	31.3	31.3	110.9		9.2	6.7 6.5	+	16 16		-	-			-	-	_
IM5	Fine	Moderate	10:09	7.1	Middle	3.6	0.7	16	15.0	15.0	8.0	8.0	31.3	31.3	111.8	111.0	9.3 9.3	8.1	7.3	14	14	-	1.	820738	804845	-		
					Bottom	3.6 6.1	0.7	16 17	15.0 15.0	15.0	8.0 8.0	8.0	31.3 31.3	31.3	111.8		9.3 9.3 9.3	8.2	1	13 13		-				-	-	
			ļ			6.1 1.0	0.6	17 21	15.0 15.0		8.0 8.0		31.3 31.3		111.3		9.3 9.3	7.1	—	12 12		-				· ·	-	구-
					Surface	1.0	0.1	21	15.0	15.0	8.0	8.0	31.3	31.3	112.2	112.3	9.3 0.4	3.5		13		-	1			-	-	
IM6	Fine	Moderate	10:17	7.0	Middle	3.5 3.5	0.1	37 37	15.1 15.1	15.1	8.0 8.0	8.0	31.3 31.3	31.3	112.8		9.4 9.4	3.6	3.8	12 13	12	-		821045	805841	-		
					Bottom	6.0	0.1	56	15.1	15.1	8.0	8.0	31.3	31.3	112.1	112.1	9.3 0.3	4.1	1	11		-	1			•	-	
					1	6.0 1.0	0.1	57 148	15.1 14.9		8.0 8.0		31.3 31.4		112.1		9.3 ^{3.3} 9.4	4.1		10 11		-					-	
					Surface	1.0	0.2	161	14.9	14.9	8.0	8.0	31.4	31.4	112.5	112.0	9.4 0.4	4.2	1	11		•	1			<u> </u>	-	
IM7	Fine	Moderate	10:26	8.3	Middle	4.2	0.2	134 142	14.9 14.9	14.9	8.0 8.0	8.0	31.4 31.4	31.4	111.7 111.7		9.3 9.3	4.7	4.6	11 10	11	-		821348	806835	-	· ·	
					Bottom	7.3	0.2	137	15.0	15.0	8.1 8.1	8.1	31.4 31.4	31.4	111.9		9.3 9.3	4.9 4.8]	10		-	-			-	-	
					Surface	7.3	0.2	138 123	15.0 15.5	15.5	8.1	8.1	31.8	31.8	104.5	104.6	9.3 8.6	2.3		10 9		-	<u> </u>	1			<u> </u>	_
						1.0	0.0	132 36	15.5 15.3		8.1 8.1		31.8 31.9		104.6		8.6 8.5	2.3 2.0		8		-	4			\square	-	_
IM8	Cloudy	Moderate	09:19	7.3	Middle	3.7	0.0	36	15.3	15.3	8.1	8.1	31.9	31.9	103.2	103.2	8.5	2.0	2.1	8	8		1 -	821846	808153	-	· ·	
					Bottom	6.3 6.3	0.0	347 348	15.3 15.3	15.3	8.1 8.1	8.1	32.0	32.0	103.0		8.5 8.5	2.1		8		-	4			•	-	_
			1			0.0	0.0	340	1 10.0	1	0.1		04.0		1 100.0		0.0	4.1	1	v		-	1	1	1	(T		

Expansion of Hong Kong International Airport into a Three-Runway System Water Quality Monitoring Water Quality Monitoring Results on 14 January 21 during M 14 January 21 during Mid-Flood Tide

Water Qua	lity Moni	toring Res	ults on		14 January 21	during Mid-	Flood T	ide																				
Monitoring Station	Weather	Sea	Sampling	Water	Sampling Dep	th (m)	Current Speed	Current Direction	-	emperature (°C)		рН	-	ity (ppt)		aturation (%)	Dissolver Oxygen	lurbid	ity(NTU)	Suspende (mg	/L)	(PI	ukalinity om) T	Coordinate HK Grid	HK Grid	Chromium (µg/L)	Nickel	
Station	Condition	Condition	Time	Depth (m)			(m/s)		Value	Average	Value	Averag		Average		1.101	/alue D		DA	Value	DA	Value	DA	(Northing)	(Easting)	Value DA	Value	DA
					Surface	1.0	0.2	239 258	15.3 15.3	15.3	8.1 8.1	8.1	32.2 32.2	32.2	103.9 103.7	103.8	8.5 8.5	4.1	-	11 11		-				-	-	İ
IM9	Cloudy	Moderate	09:12	6.8	Middle	3.4 3.4	0.1	243 253	15.3 15.3	15.3	8.1 8.1	8.1	32.2 32.2	32.2	103.5		8.5 8.5	5 4.9	4.5	13 12	12	-	-	822117	808810	· .	-	- 1
					Bottom	5.8	0.1	227	15.3	15.3	8.1	8.1	32.2	32.2	103.9	103.0	8.6 8	4.5		13	İ	-	1			-	-	Í
						5.8	0.1	248 325	15.3 15.3		8.1 8.1		32.2 32.2		103.8		8.5 8.7	4.5		12		-				-	-	1
					Surface	1.0	0.5	338	15.3	15.3	8.1	8.1	32.2	32.2	104.9	105.1	8.6 8	4.8		11	Ì	-	1			-	-	ł
IM10	Cloudy	Moderate	09:05	6.8	Middle	3.4 3.4	0.4	322 328	15.2 15.2	15.2	8.1 8.1	8.1	32.2 32.2	32.2	104.7 104.7		8.6 8.6	5.7	5.9	12 11	12	-	-	822406	809815	-	-	- 1
					Bottom	5.8	0.4	318 347	15.2 15.2	15.2	8.1 8.1	8.1	32.2 32.2	32.2	104.2		8.6 8.6	6 7.2		12 13		-				-		ł
					Surface	1.0	0.5	276	15.3	15.3	8.1	8.1	32.3	32.3	104.8	104.7	8.6	6.2		17		-				-	-	í T
IM11	Cloudy	Moderate	08:55	7.3	Middle	1.0 3.7	0.6	291 279	15.3 15.2	15.2	8.1 8.1	8.1	32.3 32.3	32.3	104.6 104.4		8.6 8.6	6 <u>6.3</u> 7.6	7.0	17 15	15	-	1	822060	811440	-	-	ĺ
IVIT	Cloudy	woderate	06.55	7.5		3.7 6.3	0.6	298 287	15.2 15.2		8.1 8.1		32.3 32.3		104.3 103.7		8.6 8.5	7.8	7.0	14 15	15	-	-	822060	611440	<u> </u>	-	÷
					Bottom	6.3	0.4	306	15.2	15.2	8.1	8.1	32.3	32.3	103.9	103.6	8.6 ^{o.}	D 7.0		14		-						İ
					Surface	1.0	0.6	298 317	15.3 15.3	15.3	8.1 8.1	8.1	32.4	32.4	104.5 104.5		8.6	7.4	-	16 17		-				-	-	ł
IM12	Cloudy	Moderate	08:50	7.4	Middle	3.7	0.5	304	15.3 15.3	15.3	8.1 8.1	8.1	32.3 32.3	32.3	104.1	104.2	8.6 8.6	6 11.8 11.8		18 19	18	-	-	821472	812065	· .	-	- 1
					Bottom	6.4	0.5	310 297	15.3	15.3	8.1	8.1	32.3	32.3	103.8	102.0	8.5	18.7		20		-	1			-	-	ĺ
						6.4	0.5	306	15.3 15.2		8.1 8.1		32.3 32.4		103.9 103.8		8.5 ^{0.} 8.6	18.5		20		-			-	-	-	
					Surface	1.0	•	-	15.2	15.2	8.1	8.1	32.4	32.4	103.8		8.6 8.	11		6	ļ	-	1			-	-	į
SR1A	Cloudy	Calm	08:14	4.3	Middle	2.2		-	-	-	-	-	-	-	-		-	-	1.8	-	6	-	-	819976	812659	-		- 1
					Bottom	3.3 3.3	•	-	15.2 15.2	15.2	8.1 8.1	8.1	32.4	32.4	102.7		8.5 8.5	5 2.5	-	5		-				-		ł
					Surface	1.0	0.1	43	15.2	15.2	8.1	8.1	32.3	32.3	104.2	104.2	8.6	12.4		23		-				-	-	í —
SR2	Cloudy	Moderate	07:58	4.0	Middle	1.0	0.1	46	15.2		8.1 -		32.3		104.2		8.6 8.	6 12.5	13.6	- 22	22	-		821476	814145	-	-	İ
362	Cibudy	wouerate	07.56	4.0		- 3.0	- 0.1	- 42	- 15.2	-	- 8.1		- 32.3	-	- 103.6		- 8.5	- 14.6		- 22	- 22	-		021470	014145	· ·		ŧ.
					Bottom	3.0	0.1	44	15.2	15.2	8.1	8.1	32.3	32.3	103.5	103.6	8.5 8.	5 14.9		21		-				-	-	<u>i</u>
					Surface	1.0	0.1	358 329	15.5 15.5	15.5	8.1 8.1	8.1	31.3 31.4	31.3	104.9 104.7		8.7	2.2	-	9		-	-			-	-	ł
SR3	Cloudy	Moderate	09:25	8.5	Middle	4.3 4.3	0.1	353 325	15.5 15.5	15.5	8.1 8.1	8.1	31.7 31.7	31.7	103.9 103.8		8.5 8.5 8.5	D 3.0 3.1	2.9	7	8	-		822170	807586	· .	-	- 1
					Bottom	7.5	0.2	8	15.5	15.5	8.1	8.1	31.7	31.7	103.7	103.8	8.5 8	5 3.3		8		-	1			-		i
						7.5	0.2	8 70	15.5 14.9		8.1 8.0		31.7 31.3		103.8 111.5		8.5 9.3	3.4 2.5		7		-				-	-	
					Surface	1.0 4.5	0.2	71 61	14.9 14.9	14.9	8.0 8.0	8.0	31.3 31.4	31.3	111.5	111.5	9.3 9.3	2.5	1	7	ļ	-	1			-	-	ł
SR4A	Cloudy	Calm	08:50	8.9	Middle	4.5	0.2	63	14.9	14.9	8.0	8.0	31.4	31.4	112.1	112.1	9.3	2.8	2.7	5	6	-	-	817184	807814	· ·	-	í -
					Bottom	7.9	0.2	60 64	14.7 14.7	14.7	8.0 8.0	8.0	31.4 31.4	31.4	110.9		9.3 9. 9.3	3 3.0	-	5		-	-			-	-	ł
					Surface	1.0	0.4	241	14.9	14.9	8.0	8.0	31.4	31.4	112.5	112.5	9.4	2.8	_	6		-					-	í T
SR5A	Cloudy	Calm	08:31	3.1	Middle	1.0	0.4	258	- 14.8	_	8.0		31.4		112.5		9.4 9.	4 2.9	3.2	7	7	-		816609	810676	-	-	Ĺ.
ONDA	Cloudy	Call	00.01	5.1		- 2.1	- 0.3	- 260	- 14.8		- 8.0		- 31.4		-		9.3	3.5	- 0.2	- 7	'	-	-	010003	010070	-	-	Ē
					Bottom	2.1	0.3	270	14.8	14.8	8.0 8.1	8.0	31.4	31.4	111.7	111.7	9.3 9.	3 3.5 3.2	-	6		-				-	-	Ĺ
					Surface	1.0	0.0	253	15.4	15.4	8.1 8.1	8.1	31.5	31.5	112.6 112.5		9.3 9.3 9.	2.2		9	Ī	-				-	-	ĺ
SR6A	Cloudy	Calm	08:00	3.7	Middle	-	-	-	•	-	-				-		- 3.	°	3.8	-	10	-	-	817982	814731	· ·	-	- 1
					Bottom	2.7	0.1	149	15.4	15.4	8.0	8.0	31.5	31.5	111.7		9.2 9.	2 4.3	1	10		-	1			-	-	į
					Curtana	2.7	0.1	158 149	15.4 15.8		8.0 8.0		31.5 32.5		111.7 104.1	1	9.2 8.5	4.4		10 9		-			1	-	-	
					Surface	1.0 7.9	0.1	149 150	15.8 15.8	15.8	8.0 8.0	8.0	32.5 32.5	32.5	104.1 102.8	104.1	8.5 8.4	5 2.6	7	10 9	I	•]			-	-	ł
SR7	Cloudy	Moderate	07:12	15.8	Middle	7.9	0.1	159	15.8	15.8	8.0	8.0	32.5	32.5	102.8	102.0	8.4	3.1	2.9	10	10	-	-	823618	823734		-	i -
					Bottom	14.8 14.8	0.2	172 189	15.8 15.8	15.8	8.0 8.0	8.0	32.5 32.5	32.5	102.3 103.0		8.3 8.4 8.	4 3.0	-	9 10	ł	-	ł			-	-	ł
					Surface	1.0 1.0	-	-	15.7 15.6	15.6	8.2 8.2	8.2	32.1 32.1	32.1	104.8 104.8		8.6 8.6	2.1	-	8		-				-	-	ł
SR8	Cloudy	Moderate	08:40	4.5	Middle	1.0	-	-	-		-		- 32.1		- 104.8		- 8.	6 2.0	22	-	9	-	1.	820405	811645		-	İ.
2.10	2.2009					- 3.5	-	-	- 15.2	45 -	- 8.1		- 32.2	0.5 -	- 103.1	400 -	- 8.5	- 2.3		- 8	Ĩ	-	-	225100		-	-	ł
					Bottom	3.5	-	-	15.2	15.2	8.1	8.1	32.2	32.2	103.3		8.5 8.	5 2.3		9	t	-	1			-		í

Expansion of Hong Kong International Airport into a Three-Runway System Water Quality Monitoring Water Quality Monitoring Results on 16 January 21 during M 16 January 21 during Mid-Ebb Tide

Water Qua	lity Moni	toring Res	ults on		16 January 21	during Mid		e	-																	-			
Monitoring Station	Weather	Sea	Sampling	Water	Sampling Dep	th (m)	Current Speed	Current Direction	Water Te	emperature (°C)		рH	Salir	ity (ppt)	DO S	aturation (%)	Disso Oxy		Turbidity(NTU)	Suspende (mg		Total A (pp		Coordinate HK Grid	Coordinate HK Grid	Chron (µg/		kel (µg/L)
Station	Condition	Condition	Time	Depth (m)			(m/s)		Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)	Value	DA Valu	ue DA
					Surface	1.0	0.1	277 295	16.3 16.3	16.3	8.1 8.1	8.1	30.5 30.5	30.5	118.7	118.7	9.7 9.7	-	6.8 7.0	F	7		•				-	-	-
C1	Sunny	Moderate	15:11	8.9	Middle	4.5	0.1	88	16.2	16.2	8.1	8.1	30.5	30.5	118.4	118.3	9.7	9.7	5.4	5.7	11	10			815606	804256	-		-
0.	ounny	modorato	10.11	0.0		4.5	0.1	95 193	16.2 16.7		8.1 8.1		30.5 30.6		118.2 118.2		9.7 9.6		5.4 4.9	0	11 11		•		010000	001200	-	-	-
					Bottom	7.9	0.1	211	16.7	16.7	8.1	8.1	30.6	30.6	118.1	118.2	9.5	9.6	4.9		11	•						-	_
					Surface	1.0	0.2	135 139	16.1 16.1	16.1	8.1 8.1	8.1	30.9 30.9	30.9	118.0 118.0	118.0	9.6 9.6	-	3.3 3.3	+	7		•				-	-	
C2	Cloudy	Rough	13:45	12.1	Middle	6.1	0.5	154	16.0	16.0	8.1	8.1	31.4	31.4	115.6	115.6	9.4	9.5	4.1	3.9	5	6			825674	806937	-	-	
	,					6.1 11.1	0.5	168 144	16.0 16.0		8.1 8.1		31.4 31.7		115.6 114.7		9.4 9.3		4.1 4.2		6 5		•				-		-
					Bottom	11.1	0.5	154	16.0	16.0	8.1	8.1	31.7	31.7	114.7	114.7	9.3	9.3	4.2		6						-	-	_
					Surface	1.0	0.4	286 296	16.2 16.2	16.2	8.1 8.1	8.1	32.1 32.1	32.1	111.8	111.8	9.0 9.0		2.8 2.8	-	6		•				-	-	
C3	Cloudy	Rough	15:53	11.6	Middle	5.8	0.2	257	16.1	16.1	8.1	8.1	32.2	32.2	109.6	109.6	8.9	9.0	2.9	2.9	7	7			822124	817797	-		
						5.8 10.6	0.2	282	16.1 16.1		8.1 8.1		32.2 32.3		109.6 110.1		8.9 8.9		2.9 2.9	-	6		-				-	-	
					Bottom	10.6	0.1	124	16.1	16.1	8.1	8.1	32.3	32.3	110.1	110.1	8.9	8.9	2.9		6						-	-	
					Surface	1.0	0.1	237 241	16.5 16.5	16.5	8.1 8.1	8.1	31.0 31.0	31.0	120.6 120.6	120.6	9.8 9.8		4.5 4.5	F	9 9		•				-	-	-
IM1	Sunny	Moderate	14:51	4.8	Middle		-		-	-	-	-	-		-	-	-	9.8	-	4.5	-	9			817935	807125	-		二.
					Darra	3.8	- 0.0	- 235	- 16.5	40.5	- 8.1		- 31.0		- 120.8	400.0	- 9.8		- 4.5	F	9						-	-	-
					Bottom	3.8	0.0	243	16.5	16.5	8.1	8.1	31.0	31.0	120.7	120.8	9.8	9.8	4.5		10						-	-	
					Surface	1.0	0.1	356 328	16.2 16.2	16.2	8.0 8.0	8.0	30.8 30.8	30.8	118.1 118.1	118.1	9.6 9.6	9.6	7.5 7.4	F	9		-				-	-	
IM2	Sunny	Moderate	14:42	6.7	Middle	3.4	0.1	36 38	16.2 16.2	16.2	8.0 8.0	8.0	30.8 30.8	30.8	117.5	117.5	9.6 9.6	9.6	6.7 6.8	7.0	10 9	10	•		818184	806164	-		
					Bottom	5.7	0.1	74	16.3	16.3	8.0	8.0	30.8	30.8	117.9	117.8	9.6	9.6	6.9	E	12						-	-	
					1	5.7	0.1	77 340	16.3 16.4		8.0 8.1		30.8 30.7		117.7		9.6 9.6	9.0	6.9 5.2		11 8						-	-	_
					Surface	1.0	0.1	313	16.4	16.4	8.1	8.1	30.7	30.7	117.9	117.9	9.6	9.6	5.2	Ľ	7		-				-	-	
IM3	Sunny	Moderate	14:34	6.9	Middle	3.5	0.0	60 60	16.2 16.2	16.2	8.1 8.1	8.1	30.7	30.7	118.2	118.2	9.6 9.6	0.0	5.4 5.4	6.9	11 11	10	•		818764	805581	-		
					Bottom	5.9	0.0	70	16.4	16.4	8.0	8.0	30.7	30.7	116.9	116.9	9.5	9.5	10.1	Ľ	10						-	-	
						5.9	0.0	75	16.4 16.4		8.0 8.1		30.7 30.6		116.8 118.2		9.5 9.6		10.3 6.9		11 8						-	-	
					Surface	1.0	0.2	344	16.4	16.4	8.1	8.1	30.6	30.6	118.1	118.2	9.6	9.6	6.9	Ľ	8						•	-	
IM4	Sunny	Moderate	14:23	8.0	Middle	4.0	0.1	332 349	16.2 16.2	16.2	8.1 8.1	8.1	30.4 30.4	30.4	117.5 117.4	117.5	9.6 9.6	-	6.1 6.1	8.0	8	10	-		819733	804596	-		
					Bottom	7.0	0.1	324	16.5	16.5	8.1	8.1	30.7	30.7	116.5	116.5	9.5	9.5	11.2	Ľ	14		•				•	-	コ
					Surface	7.0	0.1	351 12	16.5 16.1	16.1	8.1 8.0	8.0	30.7 30.9	30.9	116.4 117.4	117.4	9.4 9.6		11.0 5.7		13 10						-		
					Sunace	1.0 3.7	0.2	12 356	16.1 16.2	10.1	8.0	0.0	30.9 30.8	30.9	117.4	117.4	9.6 9.6	9.6	5.6 6.0	F	11 11		•				-	-	
IM5	Sunny	Moderate	14:11	7.4	Middle	3.7	0.2	328	16.2	16.2	8.0 8.0	8.0	30.8	30.8	117.0	117.1	9.6	-	6.0	6.0	12	11		-	820732	804875	-		-
					Bottom	6.4	0.2	335 354	16.1 16.1	16.1	8.0 8.0	8.0	30.8 30.8	30.8	115.0 114.9	115.0	9.4 9.4	9.4	6.4 6.3	F	12 11		-				-	-	
					Surface	1.0	0.1	286	16.2	16.2	8.1	8.1	30.7	30.7	119.8	119.8	9.8		3.8		7						-	-	
						1.0	0.1	296 290	16.2 16.3		8.1 8.1		30.7 30.7		119.8 119.6		9.8 9.7	9.8	3.8 4.2	F	7		•				•	-	
IM6	Sunny	Moderate	14:03	8.3	Middle	4.2	0.1	298	16.3	16.3	8.1	8.1	30.7	30.7	119.6	119.6	9.7		4.2	4.2	8	8	•	-	821038	805828	•	-	_
					Bottom	7.3	0.1	335 338	16.4 16.4	16.4	8.1 8.1	8.1	30.7	30.7	119.1	119.1	9.7 9.7	9.7	4.6	F	9 10		•				-	-	_
					Surface	1.0	0.1	203	16.2	16.2	8.0	8.0	31.0	31.0	118.5	118.5	9.7		4.8		13						-	-	
						1.0 4.6	0.1	214 247	16.2 16.2		8.0 8.0		31.0 30.9		118.5 118.3		9.7 9.6	9.7	4.8 4.5	. -	14 14		•				-	-	
IM7	Sunny	Moderate	13:50	9.1	Middle	4.6	0.1	270	16.1	16.2	8.0	8.0	30.9	30.9	118.2	118.3	9.6		4.5	4.7	13	14		-	821368	806835	-		_ ·
					Bottom	8.1 8.1	0.1	238 242	16.5 16.5	16.5	8.0 8.0	8.0	30.9 30.9	30.9	117.1 116.7	116.9	9.5 9.5	9.5	4.7 4.7	F	14 13		-				-	-	
					Surface	1.0	0.0	314	16.0	16.0	8.1	8.1	31.4	31.4	116.7	116.7	9.5		4.3	Ļ	6						-	-	1
	Cla 1	Det	44.00	7.0		1.0	0.0	341 18	16.0 16.0		8.1 8.1		31.4 31.4		116.7 114.5		9.5 9.3	9.4	4.3 4.7		7 6	_	-		004040	000100	-	-	-
IM8	Cloudy	Rough	14:09	7.8	Middle	3.9	0.0	18	16.0	16.0	8.1	8.1	31.4	31.4	114.5	114.5	9.3		4.7	4.9	7	7	•	-	821819	808136	-	-	
					Bottom	6.8 6.8	0.2	119 127	16.0 16.0	16.0	8.1 8.1	8.1	31.6 31.6	31.6	111.9 111.9	111.9	9.1 9.1	9.1	5.7 5.7	╞	7 8		-				-	-	-
DA: Depth-Aver	a a a d				•														-					•			<u> </u>		

Expansion of Hong Kong International Airport into a Three-Runway System Water Quality Monitoring Water Quality Monitoring Results on 16 January 21 during M 16 January 21 during Mid-Ebb Tide

Water Qua	lity Moni	toring Res	ults on		16 January 21	during Mid-		le																				
Monitoring Station	Weather	Sea	Sampling	Water	Sampling Dep	th (m)	Current Speed	Current Direction	Water Te	mperature (°C)		рH	Salin	ity (ppt)	DO S	(%)	Dissolved Oxygen	Turbidity	(110)	Suspende (mg.	/L)	(ppm		Coordinate HK Grid	Coordinate HK Grid	Chrorr (µg/	/L) N	Nickel (µg/L)
Station	Condition	Condition	Time	Depth (m)		-	(m/s)		Value	Average	Value	Average		Average		•	alue DA	Value	DA	Value	DA	Value	DA ((Northing)	(Easting)	Value	DA V	Value DA
					Surface	1.0	0.1	31 31	16.0 16.0	16.0	8.1 8.1	8.1	31.1 31.1	31.1	115.2 115.2		9.4 9.4	3.9 3.9	+ +	8		-				-	-	-
IM9	Cloudy	Rough	14:15	7.4	Middle	3.7	0.1	102	16.0 16.0	16.0	8.1 8.1	8.1	31.3 31.3	31.3	114.2	114.2	9.3 9.3	4.4	4.7	7	8	-	-	822087	808809	-	- F	<u> </u>
		, i i i i i i i i i i i i i i i i i i i			Bottom	3.7 6.4	0.1	105 73	16.0 16.0	16.0	8.1 8.1	8.1	31.3	31.8	114.2		9.3 9.1 9.1	4.4	1 -	8		-				-	-	-
					Bollom	6.4 1.0	0.1	78 68	16.0 16.0	16.0	8.1 8.1	0.1	31.8 31.0	31.0	111.5		9.1	5.7 3.4		8		-				-		-
					Surface	1.0	0.1	73	16.0	16.0	8.1	8.1	31.0	31.0	116.0 116.0		9.5 9.5 9.4	3.4	t E	7		-				-	L	-
IM10	Cloudy	Rough	14:22	7.0	Middle	3.5	0.2	60 62	15.9 15.9	15.9	8.1 8.1	8.1	31.3 31.3	31.3	113.5 113.5		9.3 9.3	3.5 3.5	3.4	7	6	-	-	822373	809772	•		
					Bottom	6.0	0.2	41	16.0	16.0	8.1	8.1	31.7	217	112.4	112.4	9.2 0.2	3.4	1	5	ļ	-				-		-
			1			6.0	0.2	42	16.0 15.9		8.1 8.1		31.7 31.8		112.4		9.2 9.4	3.4 3.1		6		-				-	—	-
					Surface	1.0	0.1	6	15.9	15.9	8.1	8.1	31.8	31.8	115.4	115.4	9.4 9.4	3.1	1 1	9	Ì	-				-	F	-
IM11	Cloudy	Rough	14:34	7.6	Middle	3.8 3.8	0.0	74 75	15.9 15.9	15.9	8.1 8.1	8.1	31.8 31.8	31.8	113.7 113.7		9.3 9.3	3.7 3.7	3.9	8	8	-	-	822044	811443	-		
					Bottom	6.6 6.6	0.1	94 97	15.9 15.9	15.9	8.1 8.1	8.1	31.8 31.8	31.8	111.3		9.1 9.1	4.9	ĮĘ	7	I	-				-	F	-
					Surface	1.0	0.1	234	16.0	16.0	8.1	8.1	31.8	31.8	117.4	117.4	9.6	2.9		7						-		
						1.0	0.2	238 206	16.0 16.0		8.1 8.1		31.8 31.9		117.4		9.6 9.4 9.5	2.9	+ +	8		-				•	-	-
IM12	Cloudy	Rough	14:41	8.8	Middle	4.4	0.2	221	16.0	16.0	8.1	8.1	31.9	31.9	115.7	115.7	9.4	3.0	3.0	7	8	-	-	821452	812039			-
					Bottom	7.8	0.1	201 216	16.0 16.0	16.0	8.1 8.1	8.1	31.9 31.9	31.9	114.3		9.3 9.3	3.0 3.1	┥┝	8		-				-	-	-
			1		Surface	1.0	-		16.2	16.2	8.2	8.2	32.0	32.0	118.1	118.1	9.6	3.4		4		-				-		-
SR1A	Cloudy	Moderate	15:17	5.1	Middle	1.0 2.6	-	-	16.2 -		8.2		32.0		118.1		9.6	3.4	3.3	5	6	-		819977	812659	-		-
SKIA	Cibudy	wouerate	13.17	5.1	widdie	2.6	-	-	- 16.1		- 8.1		- 32.0		- 115.8		- 9.4 0.4	- 3.1	3.3	- 6	0	-	-	019977	812059	-		-
					Bottom	4.1	-	-	16.1	16.1	8.1	8.1	32.0		115.8	115.6	9.4	3.1		7		-				-		-
					Surface	1.0	0.1	54 56	16.1 16.1	16.1	8.1 8.1	8.1	31.9 31.9	31.9	115.6		9.4 9.4	3.0 3.0	┥┝	11 12		-				-	-	-
SR2	Cloudy	Rough	15:32	4.7	Middle	-	-	-	-		-	-	-	-	-		- 9.4	-	3.0	-	9	-	-	821462	814159	-	- F	<u> </u>
		-			Datter	- 3.7	- 0.1	- 48	- 16.1	46.4	- 8.1	0.4	- 31.9	31.9	- 112.5	112.5	- 9.1 9.1	3.0	1	- 7		-				-	-	-
			<u> </u>		Bottom	3.7	0.1	51 193	16.1 16.0	16.1	8.1 8.1	8.1	31.9 31.3		112.5		9.1 9.5	3.0 3.9	+	7		-				-	<u> </u>	-
					Surface	1.0	0.1	205	16.0	16.0	8.1	8.1	31.3	31.3	115.9	115.9	9.5 0.5	3.9	1 1	8	Ì	-				-	Ŀ	-
SR3	Cloudy	Rough	14:03	8.8	Middle	4.4	0.2	156 163	16.0 16.0	16.0	8.1 8.1	8.1	31.4 31.4	31.4	115.1		9.4 9.4	4.4	4.5	7	7	-	-	822148	807566	-		
					Bottom	7.8	0.1	115	15.9	15.9	8.1	8.1	31.6	31.6	113.6	113.6	9.3 0.3	5.1	1	6	ļ	-				-	E	-
					Surface	7.8	0.1	123 108	15.9 16.3	16.3	8.1 8.0		31.6 30.9	30.9	113.6 120.7		9.3 9.8	5.1 4.8		7 10		-				-		-
						1.0 3.9	0.0	118 88	16.3 16.4		8.0 8.0	8.0	30.9 30.8		120.6 120.5		9.8 9.8	4.8 4.6	1 F	11 11	ļ	-				•	F	-
SR4A	Sunny	Calm	15:35	7.8	Middle	3.9	0.1	95	16.4	16.4	8.0	8.0	30.8	30.8	120.5		9.8 9.8	4.6	5.0	12	12	-	-	817211	807810	-		-
					Bottom	6.8 6.8	0.1	74 79	16.4 16.4	16.4	8.0 8.0	8.0	30.8 30.8	30.8	120.1		9.7 9.7	5.8 5.8	┥┝	12 13	ł	-				-	-	-
					Surface	1.0	0.1	16	16.7	16.7	8.1	8.1	31.1	31.1	124.8	124.8	10.1	3.8		6		-				-		-
0054		0.1	15.50			1.0	0.1	17	16.7		8.1		31.1		124.8		10.1	3.8		6		-				-	-	-
SR5A	Sunny	Calm	15:53	4.3	Middle	- 3.3	- 0.1	- 3	- 16.8	-	- 8.1	•	- 31.1		- 123.9		-	- 3.7	3.8	- 11	8	-	-	816594	810686	-	· F	-
					Bottom	3.3	0.1	3	16.8	16.8	8.1	8.1	31.1	31.1	123.9	123.8	10.0	3.7		10		-				-		-
					Surface	1.0	0.1	102 107	16.7 16.7	16.7	8.1 8.1	8.1	31.2 31.2	31.2	124.3 124.2		10.0	4.8	+ +	11 11		-				•	-	-
SR6A	Sunny	Calm	16:23	3.8	Middle	-	-	-	-	-	-		-	-	-		- 10.0	-	5.4	-	11	-		817969	814749	-	. =	<u> </u>
						- 2.8	- 0.1	- 122	- 16.8		- 8.1		- 31.1		- 122.7		9.9 0.0	- 6.0	+ +	- 11		-				-	-	-
					Bottom	2.8	0.1	133	16.8 16.3	16.8	8.1	8.1	31.1	31.1	122.4	122.0	9.9 9.9 8.7	6.0		11	ļ	-				-	F	-
			1		Surface	1.0	0.7	61	16.3	16.3	8.1 8.1	8.1	32.4 32.4	32.4	107.6 107.8	107.7	8.7 8.7	3.0	1 E	6	İ	-				-	E	-
SR7	Cloudy	Rough	16:24	16.4	Middle	8.2	0.2	14 14	16.3 16.3	16.3	8.1 8.1	8.1	32.4 32.4	32.4	107.2		8.6 8.6	4.5 4.6	3.4	6	6	H-	-	823642	823737	-	- -	
					Bottom	15.4	0.2	55	16.3	16.3	8.1	8.1	32.4	32.4	107.3	107.2	8.7 .7	2.6	1	5	ţ	-				-	F	-
						15.4	0.2	- 55	16.3 16.4		8.1 8.2		32.4 31.8		107.3		8.7 9.3	2.6	$\left \right $	6 7		-	+			-	\rightarrow	-
			1		Surface	1.0	-	-	16.4	16.4	8.2	8.2	31.8	31.8	115.5		9.3 9.3	4.9	1	8	ļ	-				-		-
SR8	Cloudy	Moderate	14:51	4.6	Middle	-	-	-	-	-	-	-	-	-	-	<u> </u> - -	-	-	5.0	-	8	-	-	820395	811620	-	- -	
					Bottom	3.6 3.6	-	-	16.3 16.3	16.3	8.2 8.2	8.2	31.7 31.7	31.7	111.6		9.0 9.0	5.0	ļļ	8	Į	-				-	F	-
L	I				1	3.0	1 .		10.3		0.2		31./		111.0		9.U	5.0		э						-		

Expansion of Hong Kong International Airport into a Three-Runway System Water Quality Monitoring Water Quality Monitoring Results on 16 January 21 during M 16 January 21 during Mid-Flood Tide

Water Qua	lity Moni	toring Res	ults on		16 January 21	during Mid		ide			-											_						
Monitoring Station	Weather	Sea	Sampling	Water	Sampling Dep	th (m)	Current Speed	Current Direction	<u> </u>	mperature (°C)		pН	1	nity (ppt)		Saturation (%)	Dissolve Oxyger	n	Turbidity((mg	/L)	Total All (ppr	m)	Coordinate HK Grid	HK Grid	Chron (µg/	L) N	lickel (µg/L)
otation	Condition	Condition	Time	Depth (m)			(m/s)		Value	Average	Value	Average		Average		Average		DA	Value	DA Value	DA	Value	DA	(Northing)	(Easting)	Value	DA Va	alue DA
					Surface	1.0	0.6	40 40	16.0 16.0	16.0	8.1 8.1	8.1	29.7 29.7	29.7	120.0	120.0	9.9		5.0 5.0	7	ł	-				-		-
C1	Fine	Moderate	10:33	8.7	Middle	4.4	0.6	42	16.2	16.2	8.1	8.1	29.8	29.8	118.7	110 7	9.7	9.8	5.0	76 7	7	-		815633	804233	-		-
01	1 116	Moderate	10.55	0.7	WIDDIC	4.4	0.6	45 38	16.2	10.2	8.1	0.1	29.8	23.0	118.6		9.7		5.0 13.0	7.0 8	ſ,	-	-	013033	004200	-	_	-
					Bottom	7.7	0.4	38	16.5 16.5	16.5	8.1 8.1	8.1	30.7 30.7	30.7	116.8	116.8	9.5 g	9.5	13.0	8	ł					-		-
					Surface	1.0	0.3	350	16.0	16.0	8.1	8.1	30.7	30.7	113.6	113.6	9.3		4.5	7		-				-		-
						1.0	0.3	322 28	16.0 15.8		8.1 8.1		30.7 31.2		113.6		9.3 9.0	9.2	4.5 8.3	6	ł	-				-		-
C2	Fine	Moderate	11:40	11.6	Middle	5.8	0.4	30	15.8	15.8	8.1	8.1	31.2	31.2	110.3	110.3	9.0		8.3	8.5 7	7	-	-	825666	806949		_	-
					Bottom	10.6	0.4	346 318	15.8 15.8	15.8	8.1 8.1	8.1	31.4 31.4	31.4	109.3	109.3	9.0 9.0	9.0	12.8 12.8	8	ł	-				-		-
					Surface	1.0	0.3	241	15.9	15.9	8.1	8.1	31.8	31.8	112.3	112.3	9.2		3.5	13		-				-		-
						1.0	0.3	251 252	15.9 15.8		8.1 8.1		31.8 31.9		112.3 110.6		9.2 9.0	9.1	3.5 5.7	12	ł	-				-		-
C3	Fine	Moderate	09:21	10.6	Middle	5.3	0.4	262	15.8	15.8	8.1	8.1	31.9	31.9	110.6	110.6	9.0		5.7	1.2 12	14	-	-	822115	817807	-	-	-
					Bottom	9.6 9.6	0.4	266 285	15.8 15.8	15.8	8.0 8.0	8.0	31.9 31.9	31.9	109.6	109.6	8.9 8.9	8.9	12.4 12.4	17	ł	-				-		-
					Surface	1.0	0.1	316	16.5	16.5	8.1	8.1	31.0	31.0	117.9		9.6		3.6	5		-				•		-
					Gunace	1.0	0.1	328	16.5	10.5	8.1	0.1	31.0	51.0	117.7	117.0	9.5 g	9.6	3.6	4	ł	-				-		-
IM1	Sunny	Moderate	10:54	4.7	Middle				-	-	-	-	-	-	-	-	-		-	5.1 -	5	-	-	817926	807115	-		-
					Bottom	3.7	0.1	316 331	16.8 16.8	16.8	8.1 8.1	8.1	31.1 31.0	31.0	117.3	117.2	9.4 g	9.4	6.8 6.6	6	Į	-				-		-
					Surface	1.0	0.1	12	16.0	16.0	8.1	8.1	30.8	30.8	115.8	115.8	9.5		6.7	9		-				-		-
					Gunace	1.0	0.2	13 9	16.0 15.9		8.1 8.1	0.1	30.8 30.9		115.8 115.1		9.5 9.4	9.5	6.7 6.7	9	ł	•				-		-
IM2	Sunny	Moderate	11:02	6.7	Middle	3.4	0.2	9	15.9	15.9	8.1	8.1	30.9	30.9	115.0	115.1	9.4		6.6	6.8 11	10	-	-	818171	806152	-		-
					Bottom	5.7	0.2	356 328	16.2 16.2	16.2	8.1 8.1	8.1	30.9 30.9	30.9	113.9	113.8	9.3 g	9.3	7.0	10	Į	-				-		-
					Surface	5.7	0.2	320	16.2	16.0	8.0	8.0	30.9	30.8	116.0	116.0	9.5		10.4	8		-				-		-
					Sunace	1.0	0.3	319 343	16.0 16.0	10.0	8.0 8.0	0.0	30.8 30.8	30.0	116.0 116.1	110.0	9.5 9.5	9.5	10.4 17.6	9	I	-				-		-
IM3	Sunny	Moderate	11:10	7.0	Middle	3.5	0.3	343	16.0	16.0	8.0	8.0	30.8	30.8	116.0	116.1	9.5		17.8	14.3 9	9	-	-	818804	805591	-	-	<u>.</u>
					Bottom	6.0	0.3	338 344	16.1 16.1	16.1	8.0 8.0	8.0	30.8 30.8	30.8	115.4	115.4	9.4 g	9.4	14.9 14.8	9	ł	-				-		-
					Surface	1.0	1.7	45	15.9	15.9	8.0	8.0	30.7		115.3	115.3	9.5		6.5	9		-				-		-
						1.0	1.8 1.9	49 43	15.9 15.9		8.0 8.0		30.7 30.7		115.2 114.7		9.5 9.4	9.5	6.4 6.6	8 9	ł	-				-		-
IM4	Sunny	Moderate	11:22	7.8	Middle	3.9	2.0	43	15.9	15.9	8.0	8.0	30.7	30.7	114.7	114.7	9.4	-	6.6	7.6 8	9	-	-	819745	804615	-	-	-
					Bottom	6.8 6.8	1.7	48	16.0 16.0	16.0	8.0 8.0	8.0	30.7 30.7	30.7	114.6		9.4 g	9.4	9.8 9.7	9	ł	-				-		-
					Surface	1.0	1.4	106	16.0	16.0	8.0	8.0	30.8	30.8	116.7	116.7	9.6		6.2	9		-				•		-
						1.0	1.5	109 103	16.0 16.1		8.0 8.0		30.8 30.7		116.6 116.2		9.6 9.5	9.6	6.2 6.6	10	ł					-		-
IM5	Sunny	Moderate	11:30	7.3	Middle	3.7	1.6	109	16.1	16.1	8.0	8.0	30.7	30.7	116.1	116.2	9.5		6.6	7.9 9	10	-	-	820715	804860	-	-	-
					Bottom	6.3 6.3	1.4	103 108	16.1 16.1	16.1	8.0 8.0	8.0	30.7 30.7	30.7	116.5	116.5	9.5 g	9.5	10.9 10.8	9 10	ł	-				-		-
					Surface	1.0	1.8	108	16.0	16.0	8.1	8.1	30.6	30.6	118.6	118.6	9.7		4.4	6		-				-		-
						1.0	2.0	117 108	16.0 16.0		8.1 8.0		30.6 30.6		118.5 118.4		9.7 9.7	9.7 -	4.3	7 6	ł	<u> - </u>				-		-
IM6	Sunny	Moderate	11:39	7.2	Middle	3.6	2.2	113	16.0	16.0	8.0	8.0	30.6	30.6	118.4	118.4	9.7		4.6	6.5 7	7	-	•	821083	805809	-		
					Bottom	6.2 6.2	2.0	109 119	16.1 16.1	16.1	8.1 8.1	8.1	30.6 30.6	30.6	119.0		9.8 9.7	9.8	10.7	7	ł	-				-		-
					Surface	1.0	1.6	293	16.1	16.1	8.1	8.1	30.8	30.8	118.1	118.1	9.7		7.5	6		-				-		-
						1.0	1.6	319 294	16.0 16.1		8.1 8.1		30.8 30.9		118.1		9.7 9.7	9.7	7.5 7.2	7 6	ł	-				-	\vdash	-
IM7	Sunny	Moderate	11:49	8.0	Middle	4.0	2.1	318	16.0	16.1	8.1	8.1	30.9	30.9	118.2	118.3	9.7		7.2	6.6 7	7	-	-	821351	806852	-	·	
					Bottom	7.0	2.0	290 306	16.1 16.1	16.1	8.1 8.1	8.1	30.9 30.9		117.3	117.3	9.6 9.6	9.6	5.3 5.3	8	ł	-				-	\vdash	-
					Surface	1.0	0.1	194	15.8	15.8	8.1	8.1	30.9	30.9	112.4		9.2		4.1	6		-				-		-
						1.0	0.1	205 306	15.8 15.8		8.1 8.1		30.9 30.9		112.4		9.2 9.1	9.2	4.1 4.6	7 6	ł					-		-
IM8	Fine	Moderate	11:14	7.5	Middle	3.8	0.0	335	15.8	15.8	8.1	8.1	30.9	30.9	111.2	111.2	9.1		4.6	5.0 7	7	-	-	821834	808160	-		-
					Bottom	6.5 6.5	0.0	212 228	15.7 15.7	15.7	8.1 8.1	8.1	31.1 31.1	31.1	109.4		9.0 9.0	9.0	6.4 6.4	8	ł	-				-	\vdash	-
DA: Depth-Ave	i l		1		L	0.0	0.0	220	19.7		0.1	·	1 91.1		103.4		0.0		V.T		I	1 - 1				1 - 1	1	

Expansion of Hong Kong International Airport into a Three-Runway System Water Quality Monitoring Water Quality Monitoring Results on 16 January 21 during M 16 January 21 during Mid-Flood Tide

Water Qua	lity Moni	toring Res	ults on		16 January 21	during Mid-	Flood T	ide																					
Monitoring	Weather	Sea	Sampling	Water	0		Current Speed	Current	Water Te	emperature (°C)		pН	Sali	nity (ppt)	DO S	aturation (%)	Disso Oxyg		Turbidity(NTU)	Suspende (mg		Total A (pp		Coordinate	Coordinate	Chror (µg		Nickel (µg/L
Station	Condition	Condition	Time	Depth (m)	Sampling Dep	th (m)	(m/s)	Direction	Value	Average	Value	Averag	e Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value		HK Grid (Northing)	HK Grid (Easting)	Value		/alue DA
					Surface	1.0	0.1	116	15.8	15.8	8.1	8.1	31.1	31.1	113.2	113.2	9.3		3.3		6						-		-
						1.0	0.1	126 123	15.8 15.8		8.1 8.1		31.1		113.2		9.3 9.1	9.2	3.3 3.2	ŀ	7		-	-			-	:	-
IM9	Fine	Moderate	11:07	7.0	Middle	3.5	0.1	124	15.8	15.8	8.1	8.1	31.1	31.1	111.4	111.4	9.1		3.2	3.4	7	6	-	· ·	822079	808834	-		
					Bottom	6.0 6.0	0.1	103	15.8 15.8	15.8	8.1 8.1	8.1	31.1 31.1	31.1	110.0	110.0	9.0 9.0	9.0	3.6 3.6	F	6		-	+			-		-
			1		Surface	1.0	0.4	326	15.8	15.8	8.1	8.1	31.7	31.7	111.8	111.8	9.1	-	4.3	-	6		-	1			-	-	-
IM10	Fine	Modorato	11:00	76	Middlo	1.0 3.8	0.4	327 333	15.8 15.8	15.9	8.1 8.1	0.1	31.7 31.7	31.7	111.8 110.6	110.6	9.1 9.0	9.1	4.3 4.5	4.6	5 5	5	-		822371	809772	-	. E	-
INTO	Fine	Moderate	11:00	7.6	Middle	3.8 6.6	0.4	345 330	15.8 15.8	15.8	8.1 8.1	8.1	31.7 31.7		110.6 109.2		9.0	[4.5 5.0	4.0	6 5	5	-	1.	022371	009772	-	: F	<u>.</u>
					Bottom	6.6	0.4	333	15.8	15.8	8.1	8.1	31.7	31.7	109.2	109.2	8.9 8.9	8.9	5.0	-	5						-		-
					Surface	1.0	0.5	305 318	15.8 15.8	15.8	8.1 8.1	8.1	31.6 31.6	31.6	112.9	112.9	9.2 9.2	-	4.4 4.4	_	6 5		-	-					-
IM11	Fine	Moderate	10:49	7.5	Middle	3.8	0.4	310	15.8	15.8	8.1	8.1	31.7	31.7	111.4	111.4	9.1	9.2	5.6	5.5	6	6	-	1.	822060	811481	-	L	· .
		moderate	10.10	1.0		3.8 6.5	0.5	340 320	15.8 15.8		8.1 8.1		31.7 31.8		111.4		9.1 9.0		5.6 6.4	-	7		-	-	022000	011101	-	. –	-
					Bottom	6.5	0.3	336	15.8	15.8	8.1	8.1	31.8	31.8	109.9	110.0	9.0	9.0	6.5		7						-		-
					Surface	1.0	0.5	297 308	15.8 15.8	15.8	8.1 8.1	8.1	31.8	31.8	111.4	111.4	9.1 9.1	ŀ	4.9 5.0	F	6		-	-			-	. –	-
IM12	Fine	Moderate	10:43	8.0	Middle	4.0	0.4	300	15.8	15.8	8.1	8.1	31.9	31.9	110.7	110.7	9.0	9.1	6.0	6.4	6	6	-	1.	821440	812067	-		
					Detter	4.0 7.0	0.4	302 286	15.8 15.8	45.0	8.1 8.1		31.9 31.9	31.9	110.7 109.8	109.8	9.0 9.0	0.0	6.0 8.1	F	6		-	1			-		-
					Bottom	7.0	0.4	293	15.8 15.9	15.8	8.1	8.1	31.9	31.9	109.8	109.6	9.0	9.0	8.1 4.9		7		-	<u> </u>			-		
					Surface	1.0	-		15.9	15.9	8.1 8.1	8.1	32.0 32.0	32.0	110.1 110.1	110.1	9.0 9.0	9.0	4.9	Ľ	6		-	1			-		-
SR1A	Fine	Moderate	10:04	5.2	Middle	2.6	-	-	•	-	-		-		-	-	-	9.0	-	5.0		5	•		819983	812659	-		· ·
					Bottom	4.2	-	-	15.9	15.9	8.1	8.1	31.9	31.9	107.5	107.5	8.8	8.8	5.1	E	5		-	1			-	. L	-
			1			4.2	- 0.2	- 89	15.9 15.7		8.1 8.1		31.9 31.8		107.5		8.8 9.0		5.1 6.3		5		-			1	-	-+	-
					Surface	1.0	0.2	94	15.7	15.7	8.1	8.1	31.8	31.8	110.3	110.3	9.0	9.0	6.3	E	7		-	1			-	,	-
SR2	Fine	Moderate	09:47	4.7	Middle	-	-	-	-	-	-	-	-	•	-	-	-	ŀ		6.5	-	6	-	+ ·	821463	814187	-		· ·
					Bottom	3.7 3.7	0.1	99 107	15.7 15.7	15.7	8.1 8.1	8.1	31.8 31.8	31.8	109.3	109.3	8.9 8.9	8.9	6.6 6.6	F	5 6		-	1			-	, F	-
					Surface	1.0	0.1	63	15.8	15.8	8.1	8.1	30.9	30.9	111.6	111.6	9.2		4.1		5		-				-	<u> </u>	-
						1.0 4.2	0.1	66 56	15.8 15.8		8.1 8.1		30.9 30.9		111.6		9.2 9.1	9.2	4.1 4.7	F	6 5		•	-			-	. –	<u>.</u>
SR3	Fine	Moderate	11:21	8.4	Middle	4.2	0.1	61	15.8	15.8	8.1	8.1	30.9	30.9	110.2	110.2	9.1		4.7	4.9	6	6	-	1 .	822147	807594	•	E	
					Bottom	7.4	0.1	50 53	15.8 15.8	15.8	8.1 8.1	8.1	30.9 30.9	30.9	109.0	109.0	9.0 9.0	9.0	5.9 6.0	F	7		-	-			-	. –	-
					Surface	1.0	0.5	71	16.0	16.0	8.1	8.1	31.1	31.1	116.9	116.9	9.6	-	8.8	L	6		-				-	-	-
SR4A	Fine	Calm	10:04	7.6	Middle	3.8	0.5	74 75	16.0 16.3	46.0	8.1 8.1		31.1	31.1	116.9 116.9	116.9	9.6 9.5	9.6	8.8 5.5	7.1	5	6	-	1	817187	807791	-		-
SK4A	Fille	Caim	10:04	7.0		3.8 6.6	0.5	78 65	16.3 16.5	16.3	8.1 8.1	8.1	31.1 31.1		116.8 116.7		9.5 9.4	[5.4 7.1	/.' F	6	0	-	· ·	01/10/	607791	•	- F	-
					Bottom	6.6	0.4	65	16.5	16.5	8.1	8.1	31.1	31.1	116.5	116.6	9.4	9.4	7.0		6		-				-		-
					Surface	1.0	0.1	111 120	16.5 16.5	16.5	8.1 8.1	8.1	31.1 31.1	31.1	118.7 118.8	118.8	9.6 9.6	-	3.6 3.6	-	6 5		-	-				-	-
SR5A	Fine	Calm	09:39	4.1	Middle	-	-	-	-		-		-		-		-	9.6	-	5.1	-	6	-	1.	816585	810702	-	[
					D. #	- 3.1	- 0.1	- 126	- 16.2	10.0	- 8.1		- 31.1		- 117.5	447.5	- 9.6		- 6.6	-	- 5		-	-			-		-
					Bottom	3.1	0.1	127	16.2	16.2	8.1	8.1	31.1	31.1	117.4	117.5	9.6	9.6	6.5		6		-	1			-	F	<u> </u>
					Surface	1.0	0.1	214 228	15.8 15.8	15.8	8.1 8.1	8.1	31.2 31.2	31.2	116.8 116.7	116.8	9.6 9.6	9.6	3.1 3.1	E	5 4		-	1			-	. E	-
SR6A	Fine	Calm	09:03	4.2	Middle		-		-	-	-	-	-		-	-	-	9.6		3.8	-	5	-		817966	814715	-	F	<u>.</u>
					Bottom	3.2	0.1	224	15.9	15.9	8.1	8.1	31.2	31.2	116.6	116.6	9.6	9.6	4.5	E	5		-	1			-		-
			-			3.2	0.1	230	15.9 15.9		8.1 8.0		31.2 32.1	1	116.5		9.5 8.8	0.0	4.6 7.2		6						-		-
			1		Surface	1.0	0.0	123	15.9	15.9	8.0	8.0	32.1	32.1	108.5	108.5	8.8	8.8	7.2	E	10		-	1			-	, E	-
SR7	Fine	Moderate	08:52	16.0	Middle	8.0 8.0	0.1	184 186	15.9 15.9	15.9	8.0 8.0	8.0	32.1 32.1	32.1	108.2	108.2	8.8 8.8		7.0 7.0	6.8	12 13	12	-		823645	823725	-		-
			1		Bottom	15.0	0.1	76	15.9	15.9	8.0	8.0	32.1	32.1	106.7	106.7	8.7	8.7	6.3	F	12		-	1			-	, F	-
1			+		Curfage	15.0	0.1	- 83	15.9 15.8		8.0 8.1		32.1 31.5		106.7		8.7 9.0		6.3 4.1		13 8		-		1	1	-	\rightarrow	-
			1		Surface	1.0	-	-	15.8	15.8	8.1	8.1	31.5	31.5	110.1	110.1	9.0	9.0	4.1	F	9		-	1			-	, F	-
SR8	Fine	Moderate	10:33	4.4	Middle	-		-	-	-	-	· ·	-		-	-	-		-	4.2		8	-	<u> </u>	820407	811626	-	E	-
			1		Bottom	3.4 3.4	-	-	15.8 15.8	15.8	8.1 8.1	8.1	31.7	31.7	108.7	108.7	8.9 8.9	8.9	4.2 4.2	F	8		-	4			-	; F	-
l	I			l	1	3.4	-		10.6	l	0.1	i	31.7		100.7		0.9		4.2		1			1	1	1			<u> </u>

Expansion of Hong Kong International Airport into a Three-Runway System Water Quality Monitoring Water Quality Monitoring Results on 19 January 21 during M 19 January 21 during Mid-Ebb Tide

Water Qua	ity Moni	toring Res	ults on		19 January 21	during Mid-		e							-											-			
Monitoring Station	Weather	Sea	Sampling	Water	Sampling Dep	h (m)	Current Speed	Current Direction	Water Te	emperature (°C)		pН	Salir	ity (ppt)	DO S	aturation (%)	Disso Oxyo		Turbidity(NTU)	Suspende (mg.		Total Al (pp		Coordinate HK Grid	Coordinate HK Grid	Chron (µg/		kel (µg/L)
Station	Condition	Condition	Time	Depth (m)			(m/s)		Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)	Value	DA Valu	ue DA
					Surface	1.0	0.0	219 232	15.9 15.9	15.9	8.2 8.2	8.2	31.5 31.5	31.5	117.9	117.9	9.6 9.6	F	8.6 8.7	-	6		•				-	-	-
C1	Cloudy	Moderate	17:03	8.2	Middle	4.1	0.0	200	15.9	15.9	8.2	8.2	32.1	32.1	117.7	117.7	9.6	9.6	2.9	4.9	7	7	-		815626	804233	-		-
	,					4.1	0.0	217 237	15.9 15.9		8.2 8.2		32.1 31.6		117.7 116.4		9.6 9.5		2.9 3.3	-	6		-				-	-	-
					Bottom	7.2	0.0	257	15.9	15.9	8.2	8.2	31.6	31.6	116.2	116.3	9.5	9.5	3.3		8		-				-	-	
					Surface	1.0	0.1	27 28	16.2 16.2	16.2	8.2 8.2	8.2	31.4 31.4	31.4	125.0 124.7	124.9	10.2 10.1	10.0	0.9		8		-				-	-	
C2	Cloudy	Moderate	16:04	12.2	Middle	6.1 6.1	0.1	65 67	16.1 16.1	16.1	8.2 8.2	8.2	31.8 31.8	31.8	120.9 120.5	120.7	9.8 9.8	10.0	1.5 1.4	2.0	8	8		-	825688	806959	-		- -
					Bottom	11.2	0.2	72	16.1	16.1	8.2	8.2	32.0	32.0	118.8	118.8	9.6	9.6	3.6		7		-				-	-	_
						11.2 1.0	0.2	73 55	16.1 16.3		8.2 8.2		32.0 32.2		118.8		9.6 9.3		3.7 2.1		8 5		-				-	-	_
					Surface	1.0	0.3	55	16.3	16.3	8.2	8.2	32.2	32.2	114.7	114.8	9.3	9.0	2.2		4		-				-	-	
C3	Cloudy	Moderate	18:07	12.2	Middle	6.1 6.1	0.3	68 68	16.2 16.2	16.2	8.1 8.1	8.1	32.3 32.3	32.3	107.2 107.2	107.2	8.7 8.7	F	4.7 4.8	4.1	6 5	5	-		822092	817810	-		
					Bottom	11.2 11.2	0.2	72 78	16.3 16.3	16.3	8.1 8.1	8.1	32.5 32.5	32.5	106.7 106.5	106.6	8.6 8.6	8.6	5.2 5.3	F	6		•				•	-	-
			1		Surface	1.0	0.1	188	15.9	15.9	8.2	8.2	31.5	31.5	122.8	122.7	10.0		1.9		6		-				-	-	
	a					1.0	0.1	188	15.9	10.0	8.2	0.2	31.5	01.0	122.6	122.1	10.0	10.0	1.9		5	_	-				-	-	-
IM1	Cloudy	Moderate	16:42	5.0	Middle	•	- 0.1	-		-	-	-	-	-	-	-			•	2.0	-	6	-	-	817937	807121	•	· _	<u> </u>
					Bottom	4.0	0.1	186 186	15.9 15.9	15.9	8.2 8.2	8.2	31.5 31.4	31.5	122.4 117.8	120.1	10.0 9.6	9.8	2.0 2.1		6		-				-	-	-
					Surface	1.0	0.0	101	15.8 15.8	15.8	8.2 8.2	8.2	31.6 31.6	31.6	120.0 119.9	120.0	9.8 9.8	-	2.9 2.9	-	6		•				-	-	
IM2	Cloudy	Moderate	16:35	7.0	Middle	3.5	0.0	337	15.8	15.8	8.2	8.2	31.5	31.5	119.4	119.4	9.8	9.8	2.7	2.9	7	7	-		818165	806148	-		่่่่่
	,					3.5 6.0	0.0	310 183	15.8 15.9		8.2 8.2		31.5 31.4		119.3 118.2		9.8 9.7		2.7 3.0	-	7		-				-	-	
					Bottom	6.0	0.0	184	15.9	15.9	8.2	8.2	31.4	31.4	117.9	118.1	9.6	9.7	3.0		8		-				-	-	4
					Surface	1.0 1.0	0.1	37 39	15.8 15.8	15.8	8.2 8.2	8.2	31.4 31.4	31.4	120.8 120.8	120.8	9.9 9.9	9.8	2.2		6 7		-				-	-	_
IM3	Cloudy	Moderate	16:28	7.2	Middle	3.6 3.6	0.1	44 48	15.9 15.9	15.9	8.2 8.2	8.2	31.5 31.5	31.5	118.9 118.8	118.9	9.7 9.7	9.0	4.3 4.5	4.0	8 9	8			818781	805607	-		
					Bottom	6.2	0.1	12	15.9	16.0	8.2	8.2	31.5	31.5	117.9	117.9	9.6	9.6	5.3	Ľ	9		-				-	-	
						6.2	0.1	12 351	16.0 15.9		8.2 8.2		31.5 31.5		117.8 120.0		9.6 9.8		5.5 4.3		8		-				-	-	
					Surface	1.0 4.2	0.1 0.1	323 332	15.9 15.8	15.9	8.2 8.2	8.2	31.5 31.1	31.5	120.0 118.4	120.0	9.8 9.7	9.8	4.4 2.4	F	5 6		-				-	-	コ
IM4	Cloudy	Moderate	16:19	8.4	Middle	4.2	0.1	332	15.8	15.8	8.2	8.2	31.1	31.1	118.3	118.4	9.7	-	2.4	4.0	7	6	-	-	819725	804625	-		
					Bottom	7.4	0.0	336 344	15.8 15.9	15.9	8.2 8.2	8.2	30.9 30.9	30.9	117.3	117.2	9.6 9.6	9.6	5.2 5.1	-	6		-				•	-	_
					Surface	1.0	0.1	358	15.9	15.9	8.2	8.2	30.7	30.7	121.1	121.1	10.0	_	2.5		6		-				-	-	_
	01					1.0 3.9	0.1	329 343	15.9 15.9	45.0	8.2 8.2		30.7 30.7	00.7	121.0 120.8		9.9 9.9	9.9	2.5 2.2		7 6	7	-		000744	004050	-	-	
IM5	Cloudy	Moderate	16:11	7.7	Middle	3.9 6.7	0.1	316 9	15.9 15.9	15.9	8.2 8.2	8.2	30.8 30.8	30.7	118.6 118.4	119.7	9.7 9.7		2.1 2.1	2.3	7			-	820741	804852	•		
					Bottom	6.7	0.1	9	15.9	15.9	8.2	8.2	30.8	30.9	116.4	117.4	9.7	9.6	2.1	-	7		-				-	-	
					Surface	1.0	0.1	219 230	16.1 16.1	16.1	8.2 8.2	8.2	30.5 30.5	30.5	125.5 125.3	125.4	10.3 10.3	-	2.1 2.1	-	6						•	-	
IM6	Cloudy	Moderate	16:07	7.6	Middle	3.8	0.0	253	16.1	16.1	8.2	8.2	30.6	30.6	123.1	123.0	10.1	10.2	2.4	2.5	6	6	-		821072	805843	-	-	
					Detter	3.8 6.6	0.0	255 299	16.1 16.1	16.1	8.2 8.2		30.6 30.5	30.5	122.9 121.0	120.9	10.1 9.9	9.9	2.4 3.0	-	6 5		•				-		-
					Bottom	6.6 1.0	0.1	304 265	16.1 16.1	16.1	8.2 8.2	8.2	30.5 30.6	30.5	120.8 127.7	120.9	9.9 10.4	9.9	3.0 2.7		6 5		-				-	-	_
					Surface	1.0	0.1	290	16.1	16.1	8.2	8.2	30.6	30.6	127.6	127.7	10.4	10.4	2.7	Ŀ	5		•				-	-	
IM7	Cloudy	Moderate	16:03	8.8	Middle	4.4	0.1	137 140	16.1 16.1	16.1	8.2 8.2	8.2	30.6 30.6	30.6	126.5 126.4	126.5	10.3 10.3		3.2 3.3	2.9	6 5	5	-	-	821357	806834	-		-
					Bottom	7.8	0.0	176	16.1	16.1	8.2	8.2	30.6	30.6	125.1	125.1	10.2	10.2	2.9	þ	6		-				-	-	
						7.8	0.0	178 82	16.1 16.3		8.2 8.3		30.6 31.1		125.0 125.4	125.3	10.2 10.2		2.8		5		-				-	-	
					Surface	1.0 3.9	0.3	90 68	16.3 16.2	16.3	8.3 8.2	8.3	31.1 31.4	31.1	125.1 120.9		10.2 9.8	10.0	1.1 2.0	F	5		-				-	-	7
IM8	Cloudy	Moderate	16:28	7.8	Middle	3.9	0.2	74	16.2	16.2	8.2	8.2	31.4	31.4	120.5	120.7	9.8	-	2.0	2.1	7	7		-	821849	808117	-		
					Bottom	6.8 6.8	0.3	83 90	16.1 16.1	16.1	8.2 8.2	8.2	31.8 31.8	31.8	116.6 116.3	116.5	9.5 9.5	9.5	3.3 3.3	F	8						-	-	-
DA: Depth-Aver			1		L	0.0	U.7	50	10.1		0.2		01.0	·	1110.3	·	0.0		0.0		'		-	<u>ا</u>			ا ت ا		

Expansion of Hong Kong International Airport into a Three-Runway System Water Quality Monitoring Water Quality Monitoring Results on 19 January 21 during M 19 January 21 during Mid-Ebb Tide

Water Qua	ity Moni	toring Res	ults on		19 January 21	during Mid		e					-												1		
Monitoring Station	Weather	Sea	Sampling	Water	Sampling Dep	oth (m)	Current Speed	Current Direction	Water Te	mperature (°C)		pН	Salin	ity (ppt)	DO S	aturation (%)	Dissolved Oxygen	Turbidity	(NTU)	Suspende (mg		Total Alkalinit (ppm)	V Coordinate HK Grid	HK Grid	Chron (µg		Nickel (µg/L)
Station	Condition	Condition	Time	Depth (m)			(m/s)		Value	Average	Value	Average	Value	Average		-	alue DA	Value	DA	Value	DA	Value DA	(Northing)	(Easting)	Value	DA V	Value DA
					Surface	1.0	0.2	81 81	16.1 16.1	16.1	8.2 8.2	8.2	31.4 31.4	31.4	123.9 123.6	123.8	10.1	1.1	4	9 10		•			-	_	-
IM9	Cloudy	Moderate	16:33	7.6	Middle	3.8	0.2	71	16.1	16.1	8.2	8.2	31.4	31.4	120.6	120.4	9.8	3.0	2.8	8	8	· .	822078	808789	-	. L	· .
	oloudy	modorato	10.00	1.0		3.8	0.3	75 86	16.1 16.0		8.2 8.2		31.4 32.0	-	120.1 115.1		9.8 9.4	3.1 4.1		7	Ŭ	-	OLLOTO	000100	-	-	-
					Bottom	6.6	0.2	87	16.0	16.0	8.2	8.2	32.0	32.0	114.6	114.9	9.3 9.4	4.2		8		-					-
					Surface	1.0	0.3	88 88	16.0 16.0	16.0	8.2 8.2	8.2	31.5 31.5	31.5	119.8 119.6	1107	9.8	1.3	4	8		-			-	-	-
IM10	Cloudy	Moderate	16:47	8.6	Middle	4.3	0.2	94	15.9	15.9	8.2	8.2	31.6	31.6	116.2	116.2	9.5 9.7	2.5	2.5	8	8	· .	822402	809792	-	. 🗆	<u> </u>
			-			4.3	0.2	97 88	15.9 15.9		8.2 8.2		31.6 31.7		116.2 112.9		9.5	2.5 3.5	+ +	7 8		-			-	-	-
					Bottom	7.6	0.2	94	15.9	15.9	8.2	8.2	31.7	31.7	112.7	112.0	9.2	3.6		9		-			-		-
					Surface	1.0	0.2	114 123	16.2 16.2	16.2	8.2 8.2	8.2	31.9 31.9	31.9	120.2		9.7	1.7	4 1	7		-			-		-
IM11	Cloudy	Moderate	16:57	8.8	Middle	4.4	0.2	121	16.1	16.1	8.2	8.2	31.9	31.9	117.8		9.7 9.6	3.9	3.4	6	6	· .	822051	811452	-	- F	
					Datter	4.4	0.2	126 144	16.1 16.0	46.0	8.2 8.2		31.9 32.0	22.0	117.7 114.4		9.6 9.3	3.9 4.6	4 1	5 5		-			-	-	-
					Bottom	7.8	0.1	153	16.0	16.0	8.2	8.2	32.0	32.0	114.3		9.3 9.3	4.6		5	İ	-		-	-		-
					Surface	1.0	0.1	143 151	16.2 16.2	16.2	8.2 8.2	8.2	31.9 31.9	31.9	120.1 119.5		9.7	1.7	4 1	5 6		-			-	-	-
IM12	Cloudy	Moderate	17:02	9.4	Middle	4.7	0.1	146	16.1	16.1	8.2	8.2	31.9	31.9	117.2 117.2		9.5 9.5	3.6	3.3	6	6	· .	821466	812054	-		-
					Bottom	4.7 8.4	0.1	158 135	16.1 16.1	16.1	8.2 8.2	8.2	32.0 32.0	32.0	113.6	442.5	9.5	3.7 4.6	4 1	6		-			-	-	-
					Bollom	8.4	0.1	141	16.1 16.1	10.1	8.2 8.2		32.0	32.0	113.4		9.2 9.2	4.7		6		-			-		-
					Surface	1.0	-	-	16.1	16.1	8.2	8.2	31.9	31.9	121.6		9.9 9.8 9.9	3.6	1 1	8		-			-		-
SR1A	Cloudy	Calm	17:35	4.5	Middle	2.3	-	-	-	-	-	-	-	-	-		- 3.5	-	4.0		6	· .	819972	812663	-		
					Bottom	3.5	-		16.1	16.1	8.2	8.2	31.9		119.1		9.7 9.7	4.4	1 1	5		-				E	-
						3.5	- 0.2	- 34	16.1 16.1		8.2 8.2		31.9 31.9		118.8 118.6		9.6 9.6	4.4 5.5		5		-			· ·		<u>.</u>
					Surface	1.0	0.2	36	16.1	16.1	8.2	8.2	31.9	31.9	118.5		9.6 9.6	5.5	1 1	5	Ì	-			-		-
SR2	Cloudy	Calm	17:48	5.0	Middle		-	-	-	-	-	-	-	-	-	. -	- 0.0	-	5.6	-	6	· ·	821481	814160	-		-
					Bottom	4.0	0.2	38	16.1	16.1	8.2	8.2	31.9	31.9	114.3		9.3 9.3	5.6	1	6	İ	-			•		-
					-	4.0	0.2	39 179	16.1 16.1		8.2 8.2		31.9 31.2		114.3 122.3		9.3 10.0	5.6		6 8		-			-		-
					Surface	1.0	0.2	188	16.1	16.1	8.2	8.2	31.2	31.2	122.1	122.2	10.0 9.9	1.3] [7	Į	-			-	F	-
SR3	Cloudy	Moderate	16:23	9.2	Middle	4.6	0.2	180 188	15.9 15.9	15.9	8.2 8.2	8.2	31.4 31.4	31.4	120.5		9.8 9.8	2.0	1.8	5	6		822161	807575	-		-
					Bottom	8.2 8.2	0.2	127 136	16.0 16.0	16.0	8.2 8.2	8.2	31.9 31.9	31.9	117.6		9.6 9.5 9.6	2.2]	6	Į	-			•		-
					Surface	1.0	0.2	67	15.8	15.8	8.2	8.2	31.9	31.7	121.0		9.9	4.7		7							-
					Guilace	1.0	0.2	67 70	15.8 15.8	13.0	8.2 8.2	0.2	31.7 31.7	51.7	120.9 119.5		9.9 9.8 9.9	5.1 5.9	4	6		-			-	F	-
SR4A	Cloudy	Moderate	17:26	8.6	Middle	4.3	0.2	74	15.8	15.8	8.2	8.2	31.7	31.7	119.3	119.4	9.8	5.8	4.8	7	7	-	817165	807811	-	-	-
					Bottom	7.6	0.1	72	15.8 15.8	15.8	8.2 8.2	8.2	31.7 31.6	31.7	117.5		9.6 9.6	3.5	4	8	-	-			-	-	-
					Surface	1.0	0.1	270	16.0	16.0	8.2	8.2	31.3	31.3	123.7	123.8	10.1	2.4		5		-			-		-
						1.0	0.1	280	16.0		8.2		31.3		123.9		10.1	2.4	┥ ┝	-	_	-			-	-	-
SR5A	Cloudy	Moderate	17:42	3.2	Middle		-	-	-	-	-	-	-	-	-		-	-	2.1	-	5	· ·	816586	810682	-		-
					Bottom	2.2	0.2	315 342	16.0 16.0	16.0	8.2 8.2	8.2	31.3 31.3	31.3	123.9 123.8		10.1 10.1	1.8 1.8	4 }	4		-			-	-	-
					Surface	1.0	0.1	139	15.9	15.9	8.2	8.2	31.2	31.2	121.6		10.0	6.5	4	13		-			-	_	-
SR6A	Cloudy	Moderate	18:23	4.5	Middle	1.0	0.1	145	15.8		8.2		31.2		121.6		10.0	6.2	5.3	12	12	-	817981	814730	-		-
SKOA	Cioudy	wouerate	10:23	4.5		- 3.5	- 0.0	- 127	- 15.5		- 8.2		- 31.2	-	- 114.1	· [- 9.4 o.4	- 4.3	5.3	- 10	12	· ·	01/901	014/30	-		<u> </u>
					Bottom	3.5	0.0	136	15.5	15.5	8.2	8.2	31.2	31.2	114.0	114.1	9.4	4.2		11		-			-		-
					Surface	1.0 1.0	0.3	43 45	16.3 16.3	16.3	8.1 8.1	8.1	32.5 32.5	32.5	108.5 108.7		8.7	1.6 1.7	\downarrow	8 7							-
SR7	Cloudy	Calm	18:36	18.0	Middle	9.0	0.3	39	16.4	16.4	8.1	8.1	32.5	00.5	107.5	107.5	8.7 0.7	2.2	2.9	5	6	· .	823628	823751	-	. L	
0107	Cioudy	Gain	10.00	10.0		9.0 17.0	0.3	40 8	16.4 16.4		8.1 8.1		32.5 32.5		107.4 106.3		8.6 8.6	2.2	2.3	6	Ŭ	· ·	023020	023731	-	-	-
					Bottom	17.0	0.2	8	16.4	16.4	8.1	8.1	32.5	32.5	106.0	106.2	8.5	4.9		5	İ	-					-
					Surface	1.0	-	-	16.4 16.4	16.4	8.3 8.3	8.3	31.9 31.9		119.0 119.0		9.6	1.7	$+$ $\overline{+}$	4					-	F	-
SR8	Cloudy	Calm	17:11	4.9	Middle	-	-	-	-		-		-		-		- 9.6	-	2.2	-	6	· .	820381	811608	-	. 🗆	
						- 3.9	-	-	- 16.3		- 8.3		- 31.9		- 112.8		9.1 0.4	- 2.6	┥ ̄ ┝	- 9	-	-			-	-	-
					Bottom	3.9			16.3	16.3	8.3	8.3	31.9	31.9	112.6		9.1 9.1	2.5	1	8	t	-			-		-

Expansion of Hong Kong International Airport into a Three-Runway System Water Quality Monitoring Water Quality Monitoring Results on 19 January 21 during M 19 January 21 during Mid-Flood Tide

Water Qua	ity Moni	toring Res	ults on		19 January 21	during Mid		Ide	-		_																			
Monitoring	Weather	Sea	Sampling	Water	Sampling Dep	oth (m)	Current Speed	Current	Water Te	mperature (°C)		pН	Salir	nity (ppt)	DO S	aturation (%)	Dissolve Oxyger		Turbidity(NTU)	Suspende (mg/		Total A (pp	Alkalinity pm)		Coordinate HK Grid	Coordinate HK Grid	Chromi (µg/L		lickel (j
Station	Condition	Condition	Time	Depth (m)			(m/s)	Direction	Value	Average	Value	Average		Average	Value	Average		DA	Value	DA	Value	DA	Value	DA	DA	(Northing)	(Easting)	Value	DA Va	alue
					Surface	1.0	0.4	35 37	16.8 16.8	16.8	8.1 8.1	8.1	31.5 31.6	31.5	117.3	117.4	9.4 9.4	. -	3.6 3.5	ŀ	9		-	-					-	<u>.</u>
C1	Cloudy	Moderate	12:10	8.0	Middle	4.0	0.4	34	15.8	15.8	8.1	8.1	31.7	31.7	114.6	114.6	9.4	9.4	3.9	3.3	14	10	•	1.		815600	804235	<u> </u>		-
					Bottom	4.0 7.0	0.4	36 35	15.8 17.2	17.2	8.1 8.1	0.1	31.7 31.4	31.4	114.6 115.1	115.0	9.4 9.2	9.2	3.8 2.7	ŀ	14 8		-	1				-		-
					Bollom	7.0	0.5	36 352	17.2 16.0	17.2	8.1 8.2	8.1	31.4 30.9	31.4	114.8 119.6		9.2 9.8	9.2	2.5 0.9		8		-	1				-		-
					Surface	1.0	0.3	324	16.0	16.0	8.2	8.2	30.9	30.9	119.3	119.5	9.8	9.6	1.0		6		-	1				<u> </u>		
C2	Sunny	Moderate	12:42	12.0	Middle	6.0 6.0	0.3	358 329	15.8 15.8	15.8	8.2 8.2	8.2	31.1 31.1	31.1	115.0 114.6	114.8	9.4 9.4		1.9 2.0	2.0	7	7	-		-	825687	806952	-		-
					Bottom	11.0 11.0	0.3	347 319	15.8 15.8	15.8	8.2 8.2	8.2	31.3 31.3	31.3	113.4		9.3 g	9.3	3.2 3.1	ļ	8			1				-		-
					Surface	1.0	0.5	269	16.1	16.1	8.2	8.2	32.0	32.0	111.4	111.2	9.0		0.6		5		-							-
						1.0	0.5	269 270	16.1 16.0		8.2 8.1		32.0 32.1		111.0 108.5		9.0 8.8	3.9	0.6		4		-	-				-		-
C3	Sunny	Moderate	10:48	12.0	Middle	6.0	0.5	288	16.0	16.0	8.1	8.1	32.1	32.1	108.5	106.5	8.8		1.8	1.7	5	4	-	1 -	-	822120	817819	-	· 🗆	-
					Bottom	11.0 11.0	0.4	269 293	16.0 16.0	16.0	8.1 8.1	8.1	32.1 32.1	32.1	107.8 107.7	107.8	8.8 8.7	3.8	2.8 2.8	-	4		-					-		-
					Surface	1.0	0.1	331 349	16.1 16.1	16.1	8.1 8.1	8.1	31.5 31.5	31.5	116.8 116.6		9.5 9.5	-	4.3 4.4		6 7		-	-				-		-
IM1	Cloudy	Moderate	12:31	4.9	Middle	-	-	-	-		-	-	-		-		- 8	9.5	-	4.0	-	8	-	1.		817927	807146		. 🗆	-
					Dettern	- 3.9	- 0.1	- 5	- 15.8	45.0	- 8.1	0.4	- 31.8	24.0	- 115.9	445.0	9.5		- 3.7	-	- 9		-	-				-		-
					Bottom	3.9 1.0	0.1	5 354	15.7 16.0	15.8	8.1 8.2	8.1	31.9 31.4	31.9	115.8	115.9	9.5 9.7	9.5	3.5 2.6		9 5		-	1				•		-
					Surface	1.0	0.3	326	16.0	16.0	8.2	8.2	31.4	31.4	118.7	118.7	9.7	9.7	2.6		4		-	1				-		-
IM2	Cloudy	Moderate	12:38	6.9	Middle	3.5	0.2	349 321	16.0 16.0	16.0	8.1 8.1	8.1	31.2 31.2	31.2	117.6 117.5		9.6 9.6		2.7	2.8	8	7	-		-	818164	806164		-	-
					Bottom	5.9 5.9	0.2	341 341	16.1 16.1	16.1	8.1 8.1	8.1	31.5 31.5	31.5	116.6 116.4	116.5	9.5	9.5	3.0 3.0	ļ	8		-	1				<u> </u>	F	-
					Surface	1.0	0.3	347	16.0	16.0	8.2	8.2	31.2	31.2	119.1		9.7		2.2		5							-		
						1.0	0.3	319 336	16.0 16.0		8.2 8.1		31.2 31.2		119.1 117.1		9.7 g	9.7	2.2 2.3	-	5		-	-				-		-
IM3	Cloudy	Moderate	12:45	7.2	Middle	3.6	0.3	348 344	16.0	16.0	8.1	8.1	31.2	31.2	117.0	117.1	9.6	_	2.3	2.2	7	7	-	1.	-	818779	805598	-	-	-
					Bottom	6.2 6.2	0.2	344 344	16.0 16.0	16.0	8.1 8.1	8.1	31.1 31.2	31.1	116.3 116.3		9.5 9	9.5	2.2 2.2	-	8		-					· ·		<u>.</u>
					Surface	1.0	0.4	356 328	15.8 15.8	15.8	8.2 8.2	8.2	30.9	30.9	119.2		9.8 9.8	-	2.5 2.6	-	7		•	-				-		-
IM4	Cloudy	Moderate	12:55	8.2	Middle	4.1	0.3	353	15.8	15.8	8.2	8.2	30.9	30.9	118.5		9.7	9.8	4.5	3.1	7	6	-	1.		819733	804618			-
	-				Bottom	4.1 7.2	0.3	325 357	15.8 15.8	15.8	8.2 8.1	8.1	30.9 30.9	30.9	118.4 117.4	117.4	9.7 9.6	9.6	4.5 2.4	ŀ	8		-					-		-
						7.2	0.3	328 6	15.8 15.8		8.1 8.2		30.9		117.3		9.6 9.8	^{3.0}	2.4 2.8		4		-					-	- F	-
					Surface	1.0	0.7	6	15.8	15.8	8.2	8.2	31.0	31.0	119.7	119.7	9.8	9.8	2.8		8		-	1						-
IM5	Cloudy	Moderate	13:02	7.6	Middle	3.8	0.6	1	15.8 16.0	15.9	8.2 8.2	8.2	31.0 31.0	31.0	119.6 119.3	119.5	9.8 9.8	-	2.8 2.8	2.8	6 7	7	-		-	820722	804854			
					Bottom	6.6 6.6	0.5	12 12	15.9 15.7	15.8	8.1 8.1	8.1	31.0 31.0	31.0	119.2 117.9		9.8 9.7	9.8	2.8 2.8	-	6]						-
					Surface	1.0	0.1	304	16.2	16.2	8.2	8.2	30.5	30.5	122.5	122.5	10.0		7.0		7		-	1				-		
						1.0	0.1	318 4	16.2 16.3		8.2 8.1		30.5 30.9		122.4 118.8		10.0 g 9.7 g	9.8	7.5 3.3		6		-	-				<u> </u>	-	-
IM6	Cloudy	Moderate	13:10	7.3	Middle	3.7 6.3	0.2	4 359	16.3 16.1	16.3	8.1 8.1	8.1	30.9 31.0	30.9	118.4 118.1		9.6		3.1 2.8	4.4	7	6	-	1.	-	821075	805806	\square		-
					Bottom	6.3	0.1	330	16.0	16.1	8.1	8.1	31.1	31.0	118.0	110.1	9.7	9.7	2.8	-	5		-							-
					Surface	1.0	0.1	106 115	16.5 16.5	16.5	8.1 8.1	8.1	30.6 30.6	30.6	122.5 122.4		9.9 9.9	F	3.5 3.5		7 7		-	-				-		-
IM7	Cloudy	Moderate	13:19	8.6	Middle	4.3	0.1	124	16.4	16.4	8.1	8.1	30.5	30.5	121.5	101.6	9.9	9.9	2.2	2.5	6	7	-	1.	-	821366	806815	-		-
					Bottom	4.3 7.6	0.1	132 122	16.4 16.1	16.1	8.1 8.1	8.1	30.6 30.8	30.9	121.4 120.2	120.1	9.9 9.8 c	9.8	2.3 1.9	ŀ	7 7		-	1				-		-
						7.6	0.2	129 116	16.1 16.0		8.1 8.2		30.9 31.5		120.0 116.9	120.1	9.8 9.5		1.9 1.2		6 7		-		_			-		-
					Surface	1.0	0.2	121	16.1	16.0	8.2	8.2	31.6	31.5	117.0		9.5	9.4	1.3	ļ	7		-	1				-		-
IM8	Sunny	Moderate	12:19	7.8	Middle	3.9 3.9	0.1	128 135	15.9 15.9	15.9	8.2 8.2	8.2	31.6 31.6	31.6	114.8 114.6	114.7	9.4 9.3	·	2.2	2.3	6	6	-		-	821850	808149			-
					Bottom	6.8	0.1	45	15.9	15.9	8.2	8.2	31.8	31.8	111.7		9.1	9.1	3.4	ļ	6		-	1				-		•
Depth-Aver						6.8	0.1	45	15.9		8.2		31.8	1	111.3		9.1		3.4		6			I						-

Expansion of Hong Kong International Airport into a Three-Runway System Water Quality Monitoring Water Quality Monitoring Results on 19 January 21 during M 19 January 21 during Mid-Flood Tide

Water Qual	lity Moni	toring Res	ults on		19 January 21	during Mid-	-Flood T	ide																				
Monitoring Station	Weather	Sea	Sampling	Water	Sampling Dep	th (m)	Current Speed	Current Direction	Water Te	emperature (°C)		pН	Salir	nity (ppt)		aturation (%)	Dissolved Oxygen	Turbidit	y(NTU)	Suspende (mg			Alkalinity pm)	Coordinate HK Grid	Coordinate HK Grid	Chromium (µg/L)	Nickel	l (µg/L)
Station	Condition	Condition	Time	Depth (m)			(m/s)		Value	Average	Value	Average		Average	Value		alue DA		DA	Value	DA	Value	DA	(Northing)	(Easting)	Value DA	Value	DA
					Surface	1.0	0.1	134 135	16.0 16.0	16.0	8.2 8.2	8.2	31.9 31.9	31.9	116.3 115.9	116.1	9.5 9.4 9.4	1.3		5		-	+			-	-	+
IM9	Sunny	Moderate	12:14	7.2	Middle	3.6 3.6	0.1	153 156	15.9 15.9	15.9	8.2 8.2	8.2	31.9 31.9	31.9	114.0 113.5		9.3 9.3	2.7	2.3	6	6	-		822111	808810	· ·	-	
					Bottom	6.2	0.1	156	15.9	15.9	8.2	8.2	31.9	31.9	111.0	110.0	9.0 0.0	3.0	1	7		-	1			-	-	1
					Surface	6.2 1.0	0.1	171 339	15.9 15.7	15.7	8.2 8.2	8.2	31.9 31.9	31.9	110.7 114.7	114.6	9.0 9.4	2.9 0.1		7		-				-	-	<u> </u>
						1.0 3.8	0.5	312 338	15.7 15.7		8.2 8.2		31.9 31.9		114.5 113.2		9.4 9.3	0.1	+	7	_	-	+			-	-	ł
IM10	Sunny	Moderate	12:08	7.5	Middle	3.8	0.5	311 339	15.7 15.7	15.7	8.2 8.2	8.2	31.9	31.9	112.8	113.0	9.2	1.6	1.2	5	6	-	1 -	822397	809784		-	1 -
					Bottom	6.5	0.4	349	15.7	15.7	8.2	8.2	31.9 31.9	31.9	111.2 111.0		9.1 9.1 9.1	2.0		5		-					-	
					Surface	1.0	0.6	314 323	15.9 15.9	15.9	8.2 8.2	8.2	31.9 31.9	31.9	116.7 116.3		9.5 9.5 9.4	1.2	+	7		-	1			-	-	+
IM11	Sunny	Moderate	11:59	7.2	Middle	3.6 3.6	0.6	318 320	15.9 15.8	15.8	8.2 8.2	8.2	31.9 31.9	31.9	114.8 114.2		9.4 9.3	4.4	3.4	6 5	6	-	-	822078	811472	<u>·</u> ·	-	
					Bottom	6.2	0.5	317	15.8	15.8	8.2	8.2	31.9	31.9	112.7	112.5	9.2 0.2	4.7	1	6		-	1			-	-	1
					Surface	6.2	0.5	343 291	15.8 15.8		8.2 8.2		31.9 31.9		112.2 114.6		9.2 9.3	4.7		5		-				-	-	+
						1.0	0.4	291 297	15.8 15.8	15.8	8.2 8.2	8.2	31.9 31.9	31.9	114.3 112.7		9.3 9.2 9.3	1.6 3.4	7	7		-	-			-	-	Ŧ
IM12	Sunny	Moderate	11:53	9.4	Middle	4.7	0.4	317	15.8	15.8	8.2	8.2	31.9	31.9	112.6	112.7	9.2	3.6	3.3	7	8	-	1 -	821437	812028	· ·	-	1 -
					Bottom	8.4 8.4	0.4	294 294	15.8 15.8	15.8	8.2 8.2	8.2	31.9 31.9	31.9	111.5 111.5		9.1 9.1	4.8		10 10		-				-	-	-
					Surface	1.0	-	-	16.0 16.0	16.0	8.2 8.2	8.2	31.9 31.9	31.9	114.7		9.3 9.3	2.3	-	5 4			-			-	-	+
SR1A	Sunny	Calm	11:20	4.8	Middle	2.4	-	-	-	-	-		-	-	-		- 9.3	-	3.2	-	5	-	1.	819975	812660	· .	-	ļ -
					Bottom	3.8	-	-	15.9	15.9	8.2	8.2	31.9	31.9	- 111.7		9.1 9.1	4.0	1	5		-	1			-	-	1
					Curtana	3.8	- 0.2	- 233	15.9 15.9		8.2 8.2		31.9 31.9	31.9	110.1 113.1		9.0 ^{9.1} 9.2	4.1		6		-				-	-	+
ļ					Surface	1.0	0.2	250	15.9	15.9	8.2	8.2	31.9	31.9	112.9	113.0	9.2 9.2	2.2	7	7	Į	-]				-	ļ
SR2	Sunny	Calm	11:06	4.7	Middle	-			-	-	-	-	-	-	-				2.8		7	-		821462	814146	· ·		1 -
					Bottom	3.7 3.7	0.2	241 263	15.9 15.9	15.9	8.2 8.2	8.2	31.9 31.9	31.9	109.3 108.6		8.9 8.9	3.3		7						-	-	ł
					Surface	1.0	0.1	70 73	16.1 16.1	16.1	8.2 8.2	8.2	31.2	31.2	119.2 119.0		9.7 9.7	1.4	-	6			-			-	-	-
SR3	Sunny	Moderate	12:24	9.2	Middle	4.6	0.1	51 51	15.8 15.8	15.8	8.2 8.2	8.2	31.3 31.3	31.3	114.2 113.5	112.0	9.4 9.3	3.0	2.8	3	5	-	1.	822131	807554	<u> </u>	-	‡ -
	-				Bottom	8.2	0.2	37	15.9	15.9	8.2	8.2	31.5	31.5	112.4	112.4	9.2 0.2	3.8		6		-	1			-	-	1
						8.2	0.2	40 78	15.9 16.1		8.2 8.1		31.5 31.2		112.3 118.9		9.2 9.7	3.9		6 7		-				-	-	+
					Surface	1.0 4.4	0.1	82 63	16.1 16.2	16.1	8.1 8.1	8.1	31.1 31.4	31.1	119.0	119.0	9.7 9.7 9.7	3.8	1	7	ļ	-	1			-	-	ļ
SR4A	Cloudy	Moderate	11:45	8.8	Middle	4.4	0.1	66	16.2	16.2	8.1	8.1	31.5	31.4	118.7	118.9	9.7	3.3	4.3	7	7	-	1 -	817170	807815	-	-	
					Bottom	7.8 7.8	0.0	1	15.9 15.9	15.9	8.1 8.1	8.1	31.2 31.2	31.2	116.0 115.8		9.5 9.5	5.9 5.7		6		-				-	-	1
					Surface	1.0	0.1	281 295	16.3 16.3	16.3	8.1 8.1	8.1	30.9 30.9	30.9	120.4 120.5		9.8	5.2 5.3	-	8 9		-	+			-	-	-
SR5A	Cloudy	Moderate	11:25	3.1	Middle	-	-	-	-	-	-		-	-	-		- 9.8	· ·	5.5	-	9	-	- 1	816572	810703	· .	-	ļ .
					Bottom	2.1	0.1	308	16.4	16.4	8.1	8.1	31.3	31.3	- 120.2		9.7 9.7	5.8	1	10		-	1			-	-	1
					Curtana	2.1	0.1	331 279	16.3 16.0		8.1 8.1	8.1	31.3 31.1		120.0 120.0		9.7 9.8	5.8 7.8		10 7		-				-	-	+
					Surface	1.0	0.1	284	16.0	16.0	8.1	8.1	31.1	31.1	120.0	120.0	9.8 9.8	7.8	-	6	l	-]			-	-	Ŧ
SR6A	Cloudy	Moderate	10:57	4.2	Middle				-	-	-	•	-	-	-		-	-	8.4	-	8	-	1 -	817981	814723		-	1 -
					Bottom	3.2 3.2	0.1	283 310	16.1 16.1	16.1	8.1 8.1	8.1	31.0 31.0	31.0	119.9 120.0		9.8 9.8	9.1		9		-				-	-	-
					Surface	1.0	0.2	354 326	16.2 16.2	16.2	8.1 8.1	8.1	32.3 32.3	32.3	108.9 109.0		8.8	1.4	-	6 5	-	-				-	-	-
SR7	Sunny	Moderate	10:21	20.6	Middle	10.3	0.2	350 322	16.1 16.1	16.1	8.1 8.1	8.1	32.3	32.3	108.0	108.1	8.8 8.8	1.7	1.7	5 4	5	-	1.	823639	823721	<u> </u>	-	ļ .
					Bottom	19.6	0.2	358	16.1	16.1	8.1	8.1	32.3	32.3	107.2	107.3	8.7 8.7	1.9	1	3	ļ	-	1			-	-	1
						19.6 1.0	0.2	329	16.2 15.9		8.1 8.2	1	32.3 31.9		107.3		8.7 9.4	1.9 0.8		4		-	-			-	-	┢
					Surface	1.0	-	-	15.9	15.9	8.2	8.2	31.9	31.9	114.4		9.3 9.4	0.9	1	6	ļ	-	1				-	ļ
SR8	Sunny	Calm	11:45	5.0	Middle	-	-		-	-	-	-	-	-	-		-	-	1.2	-	7	-	1 .	820374	811608	-	-	‡ -
					Bottom	4.0	-		15.8 15.8	15.8	8.2	8.2	31.9 31.9	31.9	111.8		9.1 9.0 9.1	1.4	4	7	ł	-	+				-	ł

Expansion of Hong Kong International Airport into a Three-Runway System Water Quality Monitoring Water Quality Monitoring Results on 21 January 21 during M 21 January 21 during Mid-Ebb Tide

Vater Qual	lity Moni	toring Res	ults on		21 January 21	during Mid-		e																				
Monitoring	Weather	Sea	Sampling	Water	Sampling Dep	th (m)	Current Speed	Current	Water Te	emperature (°C)		pН	Salin	ity (ppt)	DO S	aturation (%)	Dissolved Oxygen	Turbidity	(NTU)	Suspende (mg		Total A (pp		Coordinate HK Grid	Coordinate HK Grid	Chromiur (µg/L)		el (µg/
Station	Condition	Condition	Time	Depth (m)			(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average V	alue DA	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)	Value D	DA Value	e D/
					Surface	1.0	0.4	231 238	16.2 16.2	16.2	8.3 8.3	8.3	32.5 32.5	32.5	113.0	113.0	9.1	1.6 1.6	+	6		-				-	-	-
C1	Cloudy	Moderate	05:31	7.8	Middle	3.9	0.1	222	16.2	16.2	8.3 8.3	8.3	32.5	32.5	110.8	110.8	3.9 3.9	1.7	1.8	3	4	-	1.	815626	804261	-		1.
					Bottom	6.8	0.2	222	16.2	16.3	8.3	8.3	32.5	32.5	111.2	111.2	9.0	2.0	ł	3		-	1			-	-	
						6.8	0.1	220 161	16.3 16.2		8.3 8.2		32.5 30.6		111.1 121.5		9.0	2.0		4		-				<u> </u>	-	+
					Surface	1.0	0.4	167	16.2	16.2	8.2	8.2	30.6	30.6	121.7	121.6	9.9	2.5	1	3		-	1			-	-	1
C2	Cloudy	Moderate	07:15	11.4	Middle	5.7 5.7	0.2	172 185	16.2 16.2	16.2	8.2 8.2	8.2	31.8 31.8	31.8	119.6 119.3		9.7 9.7	3.0 3.0	3.0	4	3	-	-	825665	806954			
					Bottom	10.4	0.1	154 162	16.2 16.2	16.2	8.2 8.2	8.2	32.2 32.2	32.2	120.4		9.7 9.7	3.4 3.4	-	3		-	-			-	-	_
					Surface	1.0	0.2	82	16.3	16.3	8.2	8.1	32.0	32.0	111.6	111.6	9.0	2.8		5		-				-	-	1
СЗ	Claudu	Madazata	05.40	44.0	Middle	1.0	0.2	85 89	16.3 16.3		8.1 8.1		32.0 32.2		111.5 109.9		9.0 9.9	2.9 3.6	3.6	6 5		-		000444	817800	-	-	-
63	Cloudy	Moderate	05:12	11.8	Middle	5.9 10.8	0.1 0.1	94 115	16.3 16.3	16.3	8.1 8.1	8.1	32.2 32.2	32.2	109.9 109.4	109.9	3.9 3.8 o.o.	3.7 4.3	3.6	5 2	4	-	1 -	822111	817800	-	· ·	
					Bottom	10.8	0.1	126	16.3	16.3	8.1	8.1	32.2	32.2	109.4	109.4	3.8	4.5		3		-				-		<u> </u>
					Surface	1.0	0.1	188 188	16.2 16.2	16.2	8.3 8.3	8.3	32.4 32.4	32.4	115.5 115.4		9.3	1.6	-	3		-				-	-	-
IM1	Cloudy	Moderate	05:53	5.8	Middle	-	-	-	-	-	-	-	-	-	-		- 9.3	-	1.5	-	4	-	l .	817942	807127	<u> </u>		4.
					Bottom	4.8	0.1	210	- 16.2	16.2	- 8.3	8.3	32.4	32.4	- 113.8		- 9.2 9.2	1.5		- 4		-				-	-	_
					1	4.8	0.1	215 212	16.2 16.4		8.4 8.3		32.4 32.1		113.7		9.2 9.2	1.5		5		-				-	-	
					Surface	1.0	0.1	213	16.4	16.4	8.3	8.3	32.1	32.1	113.4	113.4	9.2 0.3	1.8	1	4		-	1			-	-	1
IM2	Cloudy	Moderate	05:59	6.6	Middle	3.3 3.3	0.2	165 171	16.1 16.1	16.1	8.3 8.3	8.3	32.1 32.1	32.1	116.5 116.4		9.4 9.4	2.3 2.3	2.5	4	5	-	-	818139	806165	-		
					Bottom	5.6 5.6	0.1	170 179	16.1 16.1	16.1	8.3 8.3	8.3	32.1 32.1	32.1	114.2 114.2		9.3 9.3	3.3 3.3	ł	6		-				-	-	4
					Surface	1.0	1.2	324	16.3	16.3	8.3	8.3	32.1	32.1	113.3	113.3	9.1	1.5		4		-				-	-	1
IM3	Cloudy	Moderate	06:06	6.6	Middle	1.0 3.3	1.3 1.0	339 317	16.3 16.1	16.1	8.3 8.3	8.3	32.1 32.1	32.1	113.3 117.0		9.1 9.3	1.5 2.4	2.3	4		-		818774	805605	-	-	-
IIVIS	Cioudy	wouerate	00.00	0.0		3.3 5.6	1.0	327 311	16.1 16.1		8.3 8.3		32.1 32.1		117.0 113.9		9.5	2.4	2.3	4	4	-		010//4	803003	· ·		7.
					Bottom	5.6	1.2	340	16.1	16.1	8.3	8.3	32.1	32.1	113.8	113.9	9.2	2.8		3		-				-	-	<u> </u>
					Surface	1.0	0.5	186 203	16.1 16.1	16.1	8.3 8.3	8.3	31.6 31.6	31.6	118.9 118.8		9.7	1.4	+	4		-	1			-	-	-
IM4	Cloudy	Moderate	06:15	8.3	Middle	4.2	0.3	174 178	16.2 16.2	16.2	8.3 8.3	8.3	31.6 31.6	31.6	115.7 115.7		9.6 9.4 9.4	1.9 1.9	1.9	4	3	-		819707	804588		· ·	
					Bottom	7.3	0.2	152	16.1	16.1	8.3	8.3	31.7	31.7	116.2	116.2	9.5 0.5	2.4	1	3		-	1			-	-	1
						7.3	0.2	165 198	16.1 16.4		8.3 8.3		31.7 31.0		116.1 117.4		9.4 9.5	2.4		3		-				-		
					Surface	1.0 4.6	0.4	206 200	16.4 16.2	16.4	8.3	8.3	31.0 31.0	31.0	117.4	117.4	9.5 9.7	1.9 2.3	1	5		-	1			-	-	1
IM5	Cloudy	Moderate	06:24	9.2	Middle	4.6	0.3	217	16.2	16.2	8.3 8.3	8.3	31.0	31.0	122.1 122.0	122.1	0.0 9.9	2.3	2.3	4	4	-	-	820736	804884	-	· ·	-
					Bottom	8.2	0.2	216 230	16.1 16.1	16.1	8.4 8.4	8.4	31.0 31.0	31.0	119.6 119.5		9.8 9.8	2.6	-	4		-				-	-	-
					Surface	1.0	0.8	45	16.4	16.4	8.3	8.3	31.2	31.2	115.6	115.7	9.4	1.8		5		-				-	-	1
IM6	Cloudy	Moderate	06:33	7.1	Middle	1.0 3.6	0.8	23	16.4 16.1	16.1	8.3 8.3	8.3	31.2 31.3	31.3	115.7 119.6		9.4 9.7 9.6	1.8 2.4	2.3	5 4	4	-	1	821041	805808	-	-	-
INIO	Cioudy	wouerate	00.33	7.1		3.6 6.1	1.0	23 37	16.1 16.1		8.3 8.4		31.3 31.3		119.6 115.3		9.7	2.4 2.6	2.3	4	4	-		021041	803808	<u> </u>	·	7.
					Bottom	6.1	0.9	40	16.1	16.1	8.4	8.4	31.3	31.3	115.1	115.2	9.4	2.6		3		-					-	_
					Surface	1.0	2.4 2.5	274 277	16.4 16.4	16.4	8.3 8.3	8.3	30.6 30.6	30.6	118.1 118.1		9.6	1.5 1.5	+	5		-				-	-	
IM7	Cloudy	Moderate	06:41	8.4	Middle	4.2 4.2	2.1 2.1	285 285	16.2 16.2	16.2	8.3 8.3	8.3	30.7 30.7	30.7	121.3	121.3	9.8 9.9 9.9	2.4 2.3	2.1	4	4	•	-	821336	806820	· ·		7.
					Bottom	7.4	2.3	280	16.1	16.1	8.4	8.4	30.9	30.9	116.3	116.2	9.5 9.5	2.4	1	4			1			-	-	1
						7.4	2.5	294 124	16.1 16.3		8.4 8.2		30.9 31.0		116.1		9.5	2.4		3		-				-	-	+
,					Surface	1.0	0.1	133	16.3 16.2	16.3	8.2	8.2	31.0	31.0	119.7	119.7	9.7 9.5 9.6	3.2 5.6	1	4		-	1			-	-	1
																											-	1
IM8	Cloudy	Moderate	06:59	7.3	Middle	3.7 3.7	0.1	136 138 74	16.2	16.2	8.2 8.2 8.2	8.2	31.3 31.3	31.3	116.9 116.8		9.5	5.7	6.7	5	4	-	-	821842	808153	-] `

Expansion of Hong Kong International Airport into a Three-Runway System Water Quality Monitoring Water Quality Monitoring Results on 21 January 21 during M 21 January 21 during Mid-Ebb Tide

Water Qua	lity Moni	toring Res	ults on		21 January 21	during Mid-		е																				
Monitoring Station	Weather	Sea	Sampling	Water	Sampling Dep	th (m)	Current Speed	Current Direction		emperature (°C)		рН	-	ity (ppt)		(%)	Dissolved Oxygen	Turbidity		Suspende (mg	/L)	(pp	Alkalinity pm)	HK Grid	HK Grid	Chromium (µg/L)		l (µg/L)
Station	Condition	Condition	Time	Depth (m)			(m/s)		Value	Average	Value	Averag		Average			alue DA		DA	Value	DA	Value	DA	(Northing)	(Easting)	Value DA	Value	DA
					Surface	1.0	0.2	143 156	16.3 16.3	16.3	8.2 8.2	8.2	30.8 30.8	30.8	118.8		9.7 9.7	2.4	+	2		-	+			-	-	ł
IM9	Cloudy	Moderate	06:54	7.4	Middle	3.7	0.2	124 131	16.3 16.3	16.3	8.2 8.2	8.2	31.1 31.0	31.0	115.3 115.2		9.4 9.4	2.8	3.0	3	3	-	1.	822111	808800	· .	-	4 -
					Bottom	6.4	0.2	98	16.3	16.3	8.2	8.2	31.4	31.4	109.7	109.5	8.9 8.9	3.8		3	Ī	-	1			-	-	İ
			<u> </u>			6.4 1.0	0.2	103 153	16.3 16.3		8.2 8.2		31.4 31.3		109.3		8.9 9.7	3.8	-	3		-				-	÷	<u> </u>
					Surface	1.0	0.3	165	16.3	16.3	8.2	8.2	31.3	31.3	119.9	120.0	9.7 9.6	2.6	1	3		-	1			-	-	1
IM10	Cloudy	Moderate	06:47	7.8	Middle	3.9	0.3	128 134	16.3 16.3	16.3	8.2 8.2	8.2	31.3 31.3	31.3	116.5 116.4		9.5 9.5	2.6	2.7	3 4	4	-		822401	809805		-	+ -
					Bottom	6.8	0.2	136 144	16.2	16.2	8.2 8.2	8.2	31.6	31.6	111.4 111.3	111.4	9.0 9.0	2.0	1	5	ļ	-	1			-	-	1
			1		Surface	1.0	0.2	98	16.2 16.3	16.3	8.2	8.2	31.3	31.3	118.3	118.4	9.6	2.9		3		-	<u> </u>			-	-	<u> </u>
						1.0 4.1	0.2	99 100	16.3 16.2		8.2 8.2		31.3 31.5		118.4 115.9		9.6 9.4 9.5	2.9 3.3	-	4		• •	-			-	-	ł
IM11	Cloudy	Moderate	06:37	8.2	Middle	4.1	0.2	105	16.2	16.2	8.2	8.2	31.5	31.5	116.0	116.0	9.4	3.4	3.7	4	4	-	1 -	822076	811450	· ·	-	-
					Bottom	7.2	0.2	87 87	16.2 16.2	16.2	8.2 8.2	8.2	31.6 31.6	31.6	112.4 112.3		9.1 9.1	4.8	+	3		-	+			-	-	ł
			1		Surface	1.0	0.2	114 114	16.2	16.2	8.2 8.2	8.2	31.3 31.3	31.3	120.1 119.9	120.0	9.8	2.3		4		-	1			-	-	-
IM12	Cloudy	Moderate	06:30	8.5	Middle	1.0 4.3	0.2	114	16.2 16.2	16.2	8.2	8.2	31.3	31.7	119.9		9.7 9.6 9.7	2.3 2.5	2.5	4		-		821439	812032	-	-	ł
IIVITZ	Cibudy	wouerate	00.30	0.0		4.3 7.5	0.1	115 110	16.2 16.2		8.2 8.2		31.7 31.7		117.9 115.4		9.6 9.4	2.5 2.8	2.5	4	4	-		021439	012032	<u> </u>	-	{ ·
					Bottom	7.5	0.1	120	16.2	16.2	8.2	8.2	31.7	31.7	111.6	113.5	9.0 9.2	2.8		5						-	-	<u>†</u>
					Surface	1.0	-	-	16.3 16.3	16.3	8.2 8.2	8.2	31.7 31.7	31.7	114.2 113.6		9.2 9.2	2.5	4	2		-	+			-	-	ł
SR1A	Cloudy	Calm	05:51	4.8	Middle	2.4	•	-	-	-	-	-	-	-	-		- 9.2	-	2.5	-	3	-	1.	819978	812664	· .	-	4.
					Bottom	2.4	-	-	- 16.3	16.3	- 8.2	8.2	31.7	31.7	- 111.3		9.0 9.0	2.4		3		-				-	-	ł
						3.8	- 0.2	- 80	16.3 16.2		8.2 8.2		31.8 31.7		110.3		8.9 9.4	2.5		4 3		-				-	-	<u> </u>
					Surface	1.0	0.2	83	16.2	16.2	8.2	8.2	31.7	31.7	115.3		9.3 9.4	3.0	1	2	ļ	-	1			-	-	1
SR2	Cloudy	Moderate	05:34	4.2	Middle	-	-	-	-	-	-	-	-	-	-			-	3.3		3	-		821468	814154		-	
					Bottom	3.2	0.2	75 79	16.2 16.2	16.2	8.2 8.2	8.2	31.7	31.7	111.6		9.0 9.0	3.5 3.5]	3	ļ	-	1			-	-	ļ
			1		Surface	1.0	0.2	192	16.2	16.2	8.2	8.2	30.6	30.6	119.6	119.6	9.8	2.8		3		-	<u> </u>			-	-	<u> </u>
						1.0 4.3	0.3	199 156	16.2 16.2		8.2 8.2		30.6 31.6		119.5 117.2		9.7 9.5 9.6	2.8	4	4		-	-			-	-	ł
SR3	Cloudy	Moderate	07:04	8.6	Middle	4.3	0.1	164	16.2	16.2	8.2	8.2	31.6	31.6	117.0	117.1	9.5	3.6	5.0	3	3	-	1 -	822163	807558	· ·	-	1 -
					Bottom	7.6	0.1	58 59	16.2 16.2	16.2	8.2 8.2	8.2	32.2 32.2	32.2	114.1 113.9		9.2 9.2 9.2	8.2 9.3	4	2		-	1			-	-	ł
					Surface	1.0	0.2	87 91	16.4 16.4	16.4	8.3 8.3	8.3	32.4 32.4	32.4	111.9		9.0	1.7	-	4 5		-	-			-		F
SR4A	Cloudy	Calm	05:11	7.2	Middle	3.6	0.1	59	16.4	16.4	8.3	8.3	32.5	32.5	111.0	111.0	8.9 9.0	2.0	2.1	4	4	-	1.	817178	807797	· .	-	1.
U.C.I.Y	cloudy	ouin	00.11			3.6 6.2	0.1	61 97	16.4 16.4		8.3 8.3		32.5 32.5		110.9		8.9 8.9	2.0	-	3		-	-	011110	001101	-	-	ł
					Bottom	6.2	0.1	103	16.4	16.4	8.3	8.3	32.5	32.5	110.7	110.7	8.9 8.9	2.5	1	3		-	1			-	<u> </u>	<u>i</u>
					Surface	1.0 1.0	0.0	171 175	16.3 16.3	16.3	8.3 8.3	8.3	32.1 32.1	32.1	113.9 113.8		9.2 9.2 9.2	1.8 1.8		3		-	1			-	-	ł
SR5A	Cloudy	Calm	04:54	4.9	Middle		-	-	-	-	-			-	-	- -	- 3.2	-	1.9	-	4	-		816603	810717	· ·	-	+ -
					Bottom	3.9	0.0	84	16.3	16.3	8.3	8.3	32.3	32.3	112.0		9.0 9.0	2.0	1	5	Ì	-	1			-	-	1
			1		0.4	3.9	0.0	85 256	16.3 16.6		8.3 8.3		32.3 31.8		112.0 119.5		9.0 9.6	2.0		5		-				-	-	-
					Surface	1.0	0.0	281	16.5	16.6	8.3	8.3	31.8	31.8	119.6	119.6	9.6 9.6	3.3	1	9	ļ	-	1			-	-	ļ
SR6A	Cloudy	Calm	04:24	4.1	Middle		-	-		-	-	-	-	-	-		-	-	3.5		7	-		817985	814754	-	-	-
					Bottom	3.1	0.0	278 287	16.4 16.4	16.4	8.3	8.3	31.9	31.9	119.2		9.6 9.6	3.7	+	6		-	-			· ·	-	ł
					Surface	1.0	0.2	60	16.4	16.4	8.1	8.1	32.3	32.3	110.6	110.7	8.9	2.0		3		-	1			· .	-	1
007	Claude	Madami	04-20	45.0		1.0 7.9	0.3	65 17	16.4 16.4		8.1 8.1		32.3 32.4		110.7 107.7		8.9 8.7	2.0 1.9		4	_	-	1	000040	000705		-	ł
SR7	Cloudy	Moderate	04:38	15.8	Middle	7.9 14.8	0.1	17 28	16.4 16.4	16.4	8.1 8.0	8.1	32.4 32.4	32.4	107.7	107.7	8.7	1.9	2.0	2	3	-	1 .	823648	823735		-	
					Bottom	14.8	0.2	30	16.4	16.4	8.0	8.0	32.4	32.4	106.6 106.8	106.7	8.6 0.0	2.0	1	2			<u> </u>			-	-	
					Surface	1.0	-	-	16.8 16.7	16.8	8.3 8.3	8.3	31.6 31.6	31.6	111.3 111.2		8.9 8.9	8.5 8.7	$+ \neg$	6 5		-	+			-	-	+ -
SR8	Cloudy	Moderate	06:21	5.2	Middle	-	-	-	-	-	-		-	-	-		- 8.9	-	8.2	-	5	-	1.	820374	811636	<u> </u>	-	1.
						- 4.2	-	-	- 16.4	46.4	- 8.3		- 31.7	24.7	- 106.9	400.0	- 8.6	7.7	+	- 4	1	-	+			-	-	ł
					Bottom	4.2	-	-	16.4	16.4	8.3	8.3	31.7	31.7	106.9		8.6 8.6	7.7	1	5	İ	-	1			-	-	

Expansion of Hong Kong International Airport into a Three-Runway System Water Quality Monitoring Water Quality Monitoring Results on 21 January 21 during M 21 January 21 during Mid-Flood Tide

Water Qua	lity Moni	toring Res	ults on		21 January 21	during Mid		ide																				
Monitoring Station	Weather	Sea	Sampling	Water	Sampling De	oth (m)	Current Speed	Current Direction		mperature (°C)		pН	Salir	ity (ppt)	DO S	Saturation (%)	Dissolve Oxyge	n	Turbidity(10)	(mg/L)		tal Alkalinity (ppm)	HK Grid	HK Grid	Chron (µg	ı/L)	Nickel (µg/L)
Otation	Condition	Condition	Time	Depth (m)			(m/s)		Value	Average	Value	Average	Value	Average		Average		DA	Value			DA V	alue DA	(Northing)	(Easting)	Value	DA	Value DA
					Surface	1.0	0.4	39 41	16.5 16.5	16.5	8.4 8.4	8.4	31.7 31.7	31.7	124.7	124.7	10.1		1.2 1.2		3	-	-			-		-
C1	Cloudy	Moderate	12:49	8.6	Middle	4.3	0.3	34	16.4	16.4	8.4	8.4	31.9	31.9	120.1	120.1	9.7	9.9	1.6	16	ļ.	3	· .	815604	804237	-		-
0.	oloudy	modorato	12.10	0.0	middio	4.3	0.4	35 42	16.4 16.4		8.4 8.4		31.9 32.3		120.1 116.5		9.7 9.4	_	1.6 2.1		3	Ĩ –	-	0.0001	001201	-		-
					Bottom	7.6	0.3	42	16.4	16.4	8.4	8.4	32.3		116.4	116.5	9.4	9.4 -	2.1		3		-			-		-
					Surface	1.0	0.1	167 176	16.4 16.4	16.4	8.2 8.2	8.2	29.9 29.9	29.9	120.8	120.8	9.9 9.9	-	3.2 3.4		3	_	-			-	-	-
C2	Cloudy	Moderate	11:30	11.6	Middle	5.8	0.1	285	16.2	16.2	8.2	8.2	31.2	31.2	113.7	113.8	9.2	9.6	5.1	53	2	3	÷	825660	806936	-		-
02	oloudy	modorato	11.00	11.0		5.8 10.6	0.1	311 324	16.2 16.2		8.2 8.1		31.2 31.6		113.8 112.7		9.3 9.1		5.2 7.4		3	-	-	020000	000000	-		· ·
					Bottom	10.6	0.2	336	16.2	16.2	8.1	8.1	31.6	31.0	112.4	112.6	9.1	9.1	7.7		2		-			-		-
					Surface	1.0	0.3	253 258	16.7 16.7	16.7	8.2 8.2	8.2	32.1 32.1		116.0	116.0	9.3 9.3	-	1.7		3		-			-		-
C3	Cloudy	Moderate	13:53	12.2	Middle	6.1	0.3	255	16.4	16.4	8.1	8.1	32.3	22.2	110.2	110.2	8.9	9.1	2.0		2	2	· .	822101	817775	-	[· .
	,					6.1 11.2	0.3	270 251	16.4 16.4		8.1 8.1		32.3 32.3		110.1 108.2		8.9 8.7		2.1 2.8	-	2	_	<u>.</u>			-		-
					Bottom	11.2	0.3	265	16.4	16.4	8.1	8.1	32.3	32.3	108.2	108.2	8.7	8.7	2.8		2		-			-		-
					Surface	1.0	0.1	18 18	16.6 16.6	16.6	8.4 8.4	8.4	32.4 32.4	32.4	120.1 120.1	120.1	9.6 9.6	9.6	1.4 1.5		2		-			-		-
IM1	Cloudy	Moderate	12:24	4.7	Middle		-	-	-	-	-	-	-		-		-	9.6	-	19		2	· .	817936	807139	-		
					Bottom	3.7	0.1	- 14	16.5	16.5	- 8.4	8.4	32.5	32.5	- 117.0	117.0	9.4	9.4	2.3		2		-			-		-
					Bollom	3.7	0.1	14 357	16.5 17.5	10.5	8.4 8.4	0.4	32.5 31.7	32.0	116.9	117.0	9.4 9.5	5.4	2.3 1.6		2		-			-		-
					Surface	1.0	0.3	328	17.5	17.5	8.4	8.4	31.7	31.7	120.0	120.1	9.5	9.8	1.6	-	2		-			-		-
IM2	Cloudy	Moderate	12:16	6.7	Middle	3.4	0.2	343 316	16.4 16.4	16.4	8.4 8.4	8.4	31.9 31.9	31.9	123.9 123.8	123.9	10.0	5.0	2.0		2	3	· .	818149	806173	-		· .
					Bottom	5.7	0.2	326	16.3	16.3	8.4	8.4	32.3	32.3	119.5	119.5	9.6	9.6	2.7		3		-			-		-
						5.7	0.2	354 345	16.3 17.5		8.4 8.3		32.3 31.8		119.5		9.6 9.3	3.0	2.7		3		-			-	$ \rightarrow $	-
					Surface	1.0	0.3	347	17.5	17.5	8.3	8.3	31.8	31.8	118.1	118.1	9.3	9.6	1.4		3		-			-	, [-
IM3	Cloudy	Moderate	12:08	6.9	Middle	3.5	0.3	336 309	17.3 17.3	17.3	8.4 8.4	8.4	31.8 31.8	31.8	123.6	123.7	9.8 9.8	-	2.0		3	3 -	· ·	818794	805616	-		
					Bottom	5.9	0.2	334	16.2	16.2	8.4	8.4	32.0		121.7	121.6	9.8	9.8	2.7		3		-			-	, [-
						5.9	0.3	344 5	16.2 16.8		8.4 8.3		32.0 31.6		121.4 118.5		9.8 9.5		2.6		2		-			-		-
					Surface	1.0 4.0	0.5	5 353	16.8	16.8	8.3	8.3	31.6	31.6	118.5	118.5	9.5	9.8	1.6 2.4		1		-			-	, F	-
IM4	Cloudy	Moderate	11:58	8.0	Middle	4.0	0.4	353	16.2 16.2	16.2	8.4 8.4	8.4	31.7 31.7	31.7	122.9 122.8	122.9	10.0 10.0	-	2.4		‡ 3	3		819715	804616	-		
					Bottom	7.0	0.4	345 353	16.2 16.2	16.2	8.4 8.4	8.4	31.7 31.7		119.6 119.5		9.7 9.7	9.7	2.8 2.8		3		-			-		-
					Surface	1.0	0.4	359	16.7	16.7	8.3	8.3	31.8		117.7	117.8	9.4		1.8		, 1		-			-		-
						1.0	0.5	330 3	16.7 16.3		8.3 8.4		31.8 32.0		117.8		9.5 9.8	9.6	1.8 2.6		1 1		-			-	.	-
IM5	Cloudy	Moderate	11:48	7.3	Middle	3.7	0.5	3	16.3	16.3	8.4	8.4	32.0	32.0	121.6	121.7	9.8		2.6	2.5	ļ.	4		820727	804867	-		
					Bottom	6.3	0.3	4	16.3 16.3	16.3	8.4 8.4	8.4	32.0 32.0	32.0	119.5	119.4	9.7 9.6	9.7	3.2 3.2		1		-			-	: -	-
					Surface	1.0	0.2	303	16.6	16.6	8.3	8.3	30.8	30.8	118.7	118.7	9.6		2.4		2		-		1	-	\neg	-
						1.0	0.2	324 314	16.6 16.2		8.3 8.4		30.8 30.8		118.7 123.4		9.6 10.0	9.8	2.4		3	_ -	-			-		-
IM6	Cloudy	Moderate	11:40	7.1	Middle	3.6	0.2	333	16.2	16.2	8.4	8.4	30.8	30.8	123.3	123.4	10.0		1.9		1	3	· ·	821046	805814	-		<u> </u>
					Bottom	6.1	0.1	347 319	16.2 16.2	16.2	8.4 8.4	8.4	30.9 30.9	30.9	119.4 119.3		9.7 9.7	9.7	1.7 1.7		3		-			-		-
					Surface	1.0 1.0	0.2	227 232	16.4 16.4	16.4	8.4 8.4	8.4	30.5 30.5	30.5	123.8 123.7	123.8	10.1	Ť	1.5 1.4		3	_	-			-		-
IM7	Cloudy	Moderate	11:31	8.4	Middle	4.2	0.2	247	16.4	16.4	8.3	8.3	30.6	30.6	121.7	121.7	9.9	0.0	1.6	1.0	2		·	821352	806828	-	t	-
11117	Cibudy	wouerate	11.31	0.4		4.2	0.2	271 276	16.4 16.4		8.3 8.4		30.6 30.6		121.7 119.2		9.9 9.7		1.6 2.2		3	Ĩ	<u>-</u>] `	021302	000028	-		
					Bottom	7.4	0.2	277	16.4	16.4	8.4	8.4	30.6	30.6	119.0	119.1	9.7	9.7	2.2		3		-			-	ł	-
					Surface	1.0	0.2	279 298	16.5 16.5	16.5	8.2 8.2	8.2	31.2 31.2	31.2	123.7 123.4	123.6	10.0	F	2.4 2.5		3		· ·			-	; F	-
IM8	Cloudy	Moderate	11:58	7.5	Middle	3.8	0.1	275	16.4	16.4	8.2	8.2	31.2	31.2	122.0		9.9	0.0	2.2	23	3	3	<u> </u>	821852	808132	-	, . İ	<u> </u>
				-		3.8	0.2	297 281	16.4 16.4		8.2 8.2		31.2 31.2		121.8 119.0		9.9 9.6		2.2		3		-			-	-	-
DA Durit 1					Bottom	6.5	0.1	298	16.4	16.4	8.2	8.2	31.2	31.2	119.0		9.6	9.6	2.1		2		-			-		-
DA: Depth-Aver																												

Expansion of Hong Kong International Airport into a Three-Runway System Water Quality Monitoring Water Quality Monitoring Results on 21 January 21 during M 21 January 21 during Mid-Flood Tide

Water Qua	lity Moni	toring Res	ults on		21 January 21	during Mid-	Flood T	ide																				
Monitoring Station	Weather	Sea	Sampling	Water	Sampling Dep	th (m)	Current Speed	Current Direction	Water Te	emperature (°C)		рН	Salir	ity (ppt)	DO S	aturation (%)	Dissolved Oxygen	Turbidity	(NTU)	Suspende (mg		Total A (pp	lkalinity om)	Coordinate HK Grid	Coordinate HK Grid	Chromium (µg/L)	Nickel	(µg/L)
Station	Condition	Condition	Time	Depth (m)			(m/s)		Value	Average	Value	Average		Average	Value		alue DA	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)	Value DA	Value	DA
					Surface	1.0	0.3	245 261	16.4 16.4	16.4	8.2 8.2	8.2	31.5 31.5	31.5	121.1		9.8	2.4	-	3		-				•	-	ł
IM9	Cloudy	Moderate	12:05	7.1	Middle	3.6	0.2	245	16.4	16.4	8.2	8.2	31.5	31.5	118.8	110.0	9.6	2.5	2.5	3	4	-	1.	822072	808805	· .	-	1.
	,					3.6 6.1	0.2	255 239	16.4 16.4		8.2 8.2		31.5 31.6		118.8 115.5		9.6	2.5		4		-	ł			-	-	ł
					Bottom	6.1	0.2	260	16.4	16.4	8.2	8.2	31.6	31.6	115.3	115.4	9.3	2.7		4		-				-		<u> </u>
					Surface	1.0	0.4	280 284	16.5 16.5	16.5	8.2 8.2	8.2	31.5 31.5	31.5	120.7 120.6		9.8 9.7 9.7	2.0		3 4		-				-	-	İ
IM10	Cloudy	Moderate	12:13	7.7	Middle	3.9 3.9	0.4	280 295	16.3 16.3	16.3	8.2 8.2	8.2	31.5 31.5	31.5	118.1		9.6 9.5	2.3 2.3	2.2	3 4	3			822397	809767	· ·		į -
					Bottom	6.7	0.3	277	16.3	16.3	8.2	8.2	31.5	31.5	114.0	113.2	9.2 9.2	2.3	1	<2		-	1			-	-	1
						6.7 1.0	0.3	278 311	16.3 16.5		8.2 8.2		31.5 31.5		112.4		9.1	2.2		<2		-				-		
					Surface	1.0	0.5	327	16.5	16.5	8.2	8.2	31.5	31.5	123.1		9.9 9.9	1.9	1	3		-	1			-	-	ĺ
IM11	Cloudy	Moderate	12:25	7.9	Middle	4.0 4.0	0.4	316 328	16.4 16.4	16.4	8.2 8.2	8.2	31.6 31.6	31.6	120.9 120.8		9.8 9.8	1.9 1.9	1.9	3	3	-	-	822080	811453	-	-	-
					Bottom	6.9 6.9	0.3	319 344	16.3 16.3	16.3	8.2 8.2	8.2	31.6	31.6	117.3		9.5 9.5	2.0]	2		-	-			-		Í
					Surface	1.0	0.3	300	16.6	16.6	8.2	8.2	31.5	31.5	123.4	102.2	9.9	2.0		3		-				-	-	
						1.0 4.5	0.3	306 300	16.6 16.4		8.2 8.2		31.5 31.8		123.2 118.7		9.9 9.6	2.0		3		-	ł			-	-	ł
IM12	Cloudy	Moderate	12:32	9.0	Middle	4.5	0.4	305	16.4	16.4	8.2	8.2	31.8	31.8	118.4	118.6	9.6	2.6	2.6	4	4	-	-	821484	812030	· ·	-	f -
					Bottom	8.0 8.0	0.3	304 330	16.3 16.3	16.3	8.2 8.2	8.2	31.9 31.9	31.9	113.9 114.0		9.2 9.2 9.2	3.3 3.3		4		-				-	-	ŀ
					Surface	1.0	-	-	16.7 16.7	16.7	8.2 8.2	8.2	31.8	31.8	117.0		9.4	2.3 2.3	-	4		-	-			-		ł
SR1A	Cloudy	Calm	13:14	5.0	Middle	2.5	-	-	-		-		-	-	-		- 9.4	-	2.2	-	3	-	1.	819962	812649	· .	-	1.
-						2.5 4.0	-	-	- 16.7		- 8.2		- 31.9		- 112.2		- 9.0	- 2.0	+ +	- 3		-	ł			-	-	ł
					Bottom	4.0 1.0	- 0.2	- 7	16.7 16.7	16.7	8.2 8.2	8.2	31.9 31.7	31.9	110.2		9.0 9.7 9.7	2.1 2.1		3			ļ			-	-	Ļ
					Surface	1.0	0.2	7	16.7	16.7	8.2	8.2	31.7	31.7	120.1		9.7	2.1	1 1	2			1			-	-	İ
SR2	Cloudy	Moderate	13:30	4.9	Middle	•	-	-	-	-	-	-	-	-	-		- 0.1	-	2.1	-	3		-	821456	814137	· ·	-	-
					Bottom	3.9	0.2	8	16.6	16.6	8.2	8.2	31.8	31.8	111.9		9.0 9.0	2.0	1	3		-	1			-	-	Į
					Surface	3.9 1.0	0.2	8 190	16.6 16.7	16.7	8.2 8.2	8.2	31.8 31.0	31.0	111.5 124.4		9.0 0.0	2.0 3.0		3		-				-	-	
						1.0 4.9	0.2	193 236	16.7 16.5		8.2 8.2	0.2	31.1 31.2		124.4 121.6	1	0.0 9.9	2.9 4.8]	3	. [-	-			-	-	Í
SR3	Cloudy	Moderate	11:49	9.7	Middle	4.9	0.2	256	16.5	16.5	8.2	8.2	31.2	31.2	121.3	121.5	9.8	4.9	4.2	2	3	-	- 1	822176	807570		-	- 1
					Bottom	8.7	0.1	286 312	16.3 16.3	16.3	8.2 8.2	8.2	31.4 31.3	31.3	118.9 116.9		9.6 9.5 9.6	4.7	+ +	3	.	-	ł			-	-	ł
					Surface	1.0 1.0	0.1	89 89	17.3 17.3	17.3	8.4 8.4	8.4	32.2 32.2	32.2	115.6		9.2	1.8 1.8		5 4		-				-		[
SR4A	Cloudy	Calm	13:10	9.4	Middle	4.7	0.1	67	16.5	16.5	8.4	8.4	32.3	32.3	119.1	110.1	9.4	2.6	2.5	3	3	-	1	817187	807817	-	-	İ
SK4A	Cibudy	Caim	13.10	5.4		4.7 8.4	0.1	67 77	16.5 16.5		8.4 8.4		32.3 32.3		119.1 115.8		9.6	2.6 3.0	2.5	2				01/10/	00/01/			ł
					Bottom	8.4	0.1	84	16.5	16.5	8.4	8.4	32.3	32.3	115.6	115.7	9.3	3.0		3		-				-	-	
					Surface	1.0	0.1	273 287	16.6 16.6	16.6	8.4 8.4	8.4	32.1 32.1	32.1	122.6 122.5		9.8 9.8 9.8	3.2		4 5		-	ł			-	-	ŀ
SR5A	Cloudy	Calm	13:28	3.6	Middle	-	-	-	-	-	-		-	-	-		- 9.0	-	3.1	-	5	-	-	816572	810694	· .	-	- i
					Bottom	2.6	0.1	312	16.6	16.6	8.4	8.4	32.1	32.1	118.7		9.5 9.5	3.0	1	5			İ.			-		1
						2.6	0.1	338 105	16.6 17.3		8.4 8.6		32.1 31.7		118.6		9.5 0.3	3.0 6.8		6		-				-	<u>+-</u>	
					Surface	1.0	0.1	108	17.3	17.3	8.6	8.6	31.7	31.7	129.9		0.3 10.3	7.0	1	7		-	1			-	-	ĺ
SR6A	Cloudy	Calm	14:13	4.5	Middle	-	-	-	-	-	-	-	-	-	-		-		5.4	-	7	-	-	817951	814741	-	-	-
					Bottom	3.5 3.5	0.1	58 59	17.0 17.0	17.0	8.5 8.5	8.5	31.8 31.8	31.8	127.2		0.2 10.2	3.9 3.9		8		•	-			-	-	İ
					Surface	1.0	0.0	315	16.5	16.5	8.1	8.1	32.3	32.3	110.0	110.0	8.8	1.6		2		-				-	-	
05-	0.			46 -		1.0 8.1	0.0	319 6	16.5 16.5		8.1 8.1		32.3 32.4		109.9 108.1		8.8 8.7 8.8	1.6 1.6	+ _ +	2		-	+			-	-	ł
SR7	Cloudy	Moderate	14:25	16.2	Middle	8.1	0.0	6	16.5	16.5	8.1	8.1	32.4	32.4	107.9	106.0	3.7	1.7	1.7	3	3	-	1 -	823642	823713		-	į -
					Bottom	15.2 15.2	0.0	24 25	16.5 16.5	16.5	8.1 8.1	8.1	32.4 32.4	32.4	106.9 107.0	107.0	8.6 8.6	1.7		4		-				-	-	
					Surface	1.0	-	-	16.5 16.5	16.5	8.2 8.2	8.2	31.5 31.5	31.5	118.5 118.5		9.6	2.6 2.5		5 4		-	-			-		
SR8	Cloudy	Moderate	12:44	4.3	Middle	-	-	-	-		-		-	-	-		- 9.6	-	2.5	-	5	-	1.	820392	811608			Í.
	,					- 3.3	-	-	- 16.4		- 8.2		- 31.6		- 109.5		-	- 2.4	+	- 5		-	ł			-	-	ł
DA: Dopth Aver					Bottom	3.3	-	-	16.4	16.4	8.2	8.2	31.6	31.6	109.3		8.8 8.8	2.4	1	4			1			-	-	Ĺ

Expansion of Hong Kong International Airport into a Three-Runway System Water Quality Monitoring Water Quality Monitoring Results on 23 January 21 during M 23 January 21 during Mid-Ebb Tide

Water Qua	lity Moni	toring Res	ults on		23 January 21	during Mid	-Ebb Tid	le																				
Monitoring	Weather	Sea	Sampling	Water	Sampling Dep	th (m)	Current Speed	Current	Water Te	mperature (°C)		pН	Salir	nity (ppt)	DO S	aturation (%)	Dissolve Oxygen	f Tur	idity(NT	J) Suspend (mg			Alkalinity pm)	Coordinate HK Grid	Coordinate HK Grid	Chromium (µg/L)	n Nicke	el (µg/L
Station	Condition	Condition	Time	Depth (m)			(m/s)	Direction	Value	Average	Value	Average		Average		Average	Value D			A Value	DA	Value	DA	(Northing)	(Easting)	Value D/	A Value	e DA
					Surface	1.0	0.2	188 195	17.1 17.0	17.1	8.2 8.2	8.2	27.8 27.9	27.9	123.6 123.3		10.1	2.		3		-				· ·	-	-
C1	Fine	Moderate	08:45	8.4	Middle	4.2	0.1	199	16.7	16.7	8.2	8.2	31.2	31.2	111.7	111 5	9.0 9.	b 3.	3	3	3	-	1.	815600	804238	· .	. 🖃	1.
					Bottom	4.2	0.1	213 255	16.7 16.7	16.7	8.2 8.2	8.2	31.2 31.2	31.2	111.2 109.1		9.0 8.8 8	3.		4 4	+	-	1			-	-	-
					Bollom	7.4	0.1	260 135	16.7 17.0		8.2 8.2		31.1 29.3		109.0		8.8 ^{0.} 10.1	° 3.		3		-				-	-	
					Surface	1.0	0.2	141	17.0	17.0	8.2	8.2	29.3	29.3	125.1	125.1	10.1 10	1 1.	1	5	1	-				-	-	1
C2	Fine	Moderate	09:44	10.8	Middle	5.4	0.5	154 159	17.0 17.0	17.0	8.2 8.2	8.2	31.2 31.2	31.2	124.7		10.0	1.		6 5 4	5	-		825688	806955			
					Bottom	9.8	0.5	144 148	16.8 16.8	16.8	8.2 8.2	8.2	31.7	31.7	120.5 120.5	120.5	9.7 9.7	7 2.		4	1	-	1			<u> </u>	-	-
					Surface	1.0	0.4	286	16.9	16.9	8.2	8.2	31.4	31.4	118.4		9.5	1.	2	5		-				-	-	
						1.0	0.4	300 257	16.9 16.8		8.2 8.1		31.4 31.9		118.2 114.6		9.5 9.2	4 1.	1	4 5	-	-	-			· ·	-	-
C3	Fine	Moderate	07:24	11.8	Middle	5.9	0.2	277	16.8	16.8	8.1	8.1	31.9	31.9	114.6	114.6	9.2	1.	1	2 4	5	-	- ·	822103	817797	· ·		
					Bottom	10.8 10.8	0.1	120 130	16.7 16.7	16.7	8.1 8.1	8.1	32.2 32.2	32.2	109.2		8.7 8.7	7 1.		6		-	-			-	-	+
					Surface	1.0	0.0	157 165	17.2 17.3	17.3	8.3 8.3	8.3	28.9 29.0	28.9	125.5		10.1	2.		5	-	-	-			F	· ·	1
IM1	Fine	Moderate	09:08	4.6	Middle	-	-	-	-		- 0.3		- 29.0		-		- 10	.1		2 -	5	-		817949	807151	-	-	1.
	1116	Woderate	03.00	4.0		- 3.6	- 0.1	- 169	- 17.3	-	- 8.3	_	- 29.8		- 122.4	-	9.8	. 6.		- 4		-	-	01/343	00/101	<u> </u>	-	-
					Bottom	3.6	0.1	182	17.3	17.3	8.3	8.3	29.9	29.9	122.3	122.4	9.8 9.	8 6.	1	5	1	-				•		1
					Surface	1.0	0.1	194 207	17.1 17.1	17.1	8.3 8.3	8.3	29.5 29.5	29.5	126.3 126.3		10.2	2.		4	1	-	-			-	-	+
IM2	Fine	Moderate	09:16	6.4	Middle	3.2	0.1	224 237	17.2 17.2	17.2	8.3 8.3	8.3	30.6 30.6	30.6	124.2 124.0	124.1	10.0 10 9.9	.1 9. 9.		7 3 2	3	-		818140	806157	<u> </u>	-].
					Bottom	5.4	0.1	200	17.2	17.2	8.3	8.3	30.8	30.8	122.9		9.8	。 5.	3	2	1	-	1			-	-	1
						5.4	0.1	207 326	17.2 17.1		8.3 8.3		30.8 30.2		122.6 126.9		9.8 ^{9.} 10.2	o 5. 2.		3		-				-		-
					Surface	1.0	0.0	339	17.1	17.1	8.3	8.3	30.4	30.3	126.8	126.9	10.2 10.1	2	6	3	1	-	1			-	-	1
IM3	Fine	Moderate	09:29	6.8	Middle	3.4	0.0	237 255	17.0	17.0	8.3 8.3	8.3	30.7 30.8	30.8	125.5 125.0		10.1	2.	3 3	3	4	-		818800	805581		-	
					Bottom	5.8 5.8	0.0	51 51	17.0 17.0	17.0	8.3 8.3	8.3	30.9 30.9	30.9	123.8 123.4		9.9 9.9	9 3.		4	-	-	-			· ·	-	4
					Surface	1.0	0.2	190	17.1	17.1	8.3	8.3	29.1	29.2	125.5	125.3	10.1	2.	7	3	1	-				-	-	1
IM4	Cine 1	Madazata	00.40	7.5	Middle	1.0 3.8	0.2	201 185	17.1 16.9	16.9	8.3 8.3	8.3	29.4 30.6	30.7	125.1 122.2		10.1 9.8 10	.0 2.	7	2 4		-	1	819713	804596	-	-	+
111/14	Fine	Moderate	09:40	7.5	Middle	3.8 6.5	0.1	199 169	16.9 16.9		8.3 8.3		30.7 30.9		121.6 120.3		9.8 9.7	3.	(2 <u>5</u> 4	4	-	-	619/13	604596	<u> </u>	-	
					Bottom	6.5	0.1	171	16.9	16.9	8.3	8.3	30.9	30.9	120.2	120.3	9.7 9.	3.	2	5		-				-	-	-
					Surface	1.0	0.3	235 242	17.1 17.1	17.1	8.3 8.3	8.3	27.8 27.8	27.8	124.8 124.8		10.2	2.		3	+	-	-			-	-	-
IM5	Fine	Moderate	09:48	6.6	Middle	3.3 3.3	0.2	226 229	17.0 17.0	17.0	8.3 8.3	8.3	30.3 30.4	30.4	122.0		9.8 9.8	.0 3.	3	3 4	4	-		820743	804883	<u> </u>		1.
					Bottom	5.6	0.2	177	17.0	17.0	8.3	8.3	30.8	30.8	120.2		9.7	- 4.	1	5 5	1	-				-	-	1
						5.6	0.1	189 243	17.0 17.2		8.3 8.3		30.8 27.9		119.8 124.1		9.6 ^{9.}	4.		5		-			 	-	-	_
					Surface	1.0	0.2	254	17.2	17.2	8.3	8.3	28.0	28.0	124.2	124.2	10.1	1 2.	2	7	1	-	1			-	-	1
IM6	Fine	Moderate	09:57	6.8	Middle	3.4	0.2	238 255	17.2 17.2	17.2	8.3 8.3	8.3	28.9 29.2	29.0	123.6 123.4		10.0	2.		4 7	6	-		821062	805820			
					Bottom	5.8 5.8	0.1	264 278	17.1 17.2	17.2	8.3 8.3	8.3	30.2 30.2	30.2	121.6		9.8 9.7	8 2.		4	1	-	1			<u> </u>	-	-
					Surface	1.0	0.3	337	17.1	17.1	8.3	8.3	27.6	27.6	123.4	102.4	10.1	2.	3	3		-				-	-	_
						1.0	0.3	358 325	17.1 17.1		8.3 8.3	-	27.6 28.1		123.4 122.1		10.1 9.9 10	.0 2.		4	+ .	-	+			-	-	4
IM7	Fine	Moderate	10:06	8.3	Middle	4.2	0.3	339	17.1	17.1	8.3	8.3	28.1	28.1	122.1	122.1	9.9	2.	5 3	8 3	4	-	1 -	821336	806825	· ·	-	1 -
					Bottom	7.3	0.3	271 275	17.1 17.1	17.1	8.3 8.3	8.3	30.4 30.4	30.4	117.2 116.5	116.9	9.4 9.4	6.	3	6		-				-	-	-
					Surface	1.0	0.2	217 236	17.0 17.0	17.0	8.2 8.2	8.2	28.2 28.2	28.2	124.2 124.2		10.1	1.		2		-					-	
IM8	Fine	Moderate	09:14	6.9	Middle	3.5	0.1	211	17.1	17.1	8.2	8.2	29.1	29.1	124.5	124.5	10.1	.' 1.	5 1	e 2	2	-	1.	821816	808161	\square .	-	1.
			00.1.7	0.0		3.5 5.9	0.1	212 68	17.1 17.2		8.2 8.2		29.1 30.3		124.5 124.9		10.1	1.	5	3 3	+ ~	-	-	02.0.0			· ·	4
					Bottom	5.9	0.0	69	17.2	17.2	8.2	8.2	30.2	30.2	124.8		10.0 10	.0 1.		3	1	-	1			-	-	1

Expansion of Hong Kong International Airport into a Three-Runway System Water Quality Monitoring Water Quality Monitoring Results on 23 January 21 during M 23 January 21 during Mid-Ebb Tide

Water Qua	lity Moni	toring Res	ults on		23 January 21	during Mid-		le																				
Monitoring Station	Weather	Sea	Sampling	Water	Sampling Dep	th (m)	Current Speed	Current Direction	Water Te	emperature (°C)		pН	Salir	ity (ppt)		aturation (%)	Dissolved Oxygen	Turbidit	y(NTU)	Suspende (mg		Total A (pr	ukalinity om)	Coordinate HK Grid	Coordinate HK Grid	Chromium (µg/L)	Nickel	l (µg/L)
Station	Condition	Condition	Time	Depth (m)			(m/s)		Value	Average	Value	Average		Average	Value		alue DA		DA	Value	DA	Value	DA	(Northing)	(Easting)	Value DA	Value	DA
					Surface	1.0	0.1	214 221	17.1 17.1	17.1	8.2 8.2	8.2	29.1 29.1	29.1	124.4	124.5	10.1	1.5	-	3		-				-	-	ł
IM9	Fine	Moderate	09:07	6.8	Middle	3.4	0.1	290	17.2	17.2	8.2 8.2	8.2	29.3 29.2	29.2	124.9		10.1 10.1 10.1	1.4	1.5	4	4	-		822114	808790	· .	-	l -
					Bottom	3.4 5.8	0.1	316 358	17.2	17.2	8.2	8.2	30.0	30.0	123.9	123.0	10.0 10	1.4		3						-	-	1
						5.8	0.1	329 59	17.2		8.2 8.2		30.0 29.7		123.8		9.9	1.5		4		•		1	1	-	-	<u> </u>
					Surface	1.0	0.2	61	17.2	17.2	8.2	8.2	29.7	29.7	122.9	123.0	9.9 9.8	1.5	1	4			1			-	-	ļ
IM10	Fine	Moderate	08:58	7.0	Middle	3.5	0.1	77 79	17.1 17.1	17.1	8.2 8.2	8.2	30.9 31.0	30.9	120.0 119.9		9.6 9.6	1.7	1.8	4	4	-		822382	809813		-	+ -
					Bottom	6.0	0.1	124 128	17.0 17.0	17.0	8.2 8.2	8.2	31.4 31.4	31.4	118.0	117.9	9.4 9.4	2.0	-	5		-	1			-		Í
					Surface	1.0	0.2	95	17.2	17.2	8.2	8.2	29.0	29.0	125.1	125.1	10.1	1.3		4						-	-	1
			00.40	7.0	MC L H	1.0	0.2	98 11	17.2 17.2		8.2 8.2		29.0 31.1		125.1 121.3		9.7	1.4	1.0	3		-	-	000057		-	-	ł
IM11	Fine	Moderate	08:46	7.8	Middle	3.9 6.8	0.1	11 314	17.2 16.7	17.2	8.2 8.1	8.2	31.1 31.8	31.1	121.1 114.4		9.7 9.2	1.7 1.9	1.6	3	3	-	1	822057	811481	· ·	-	Į.
					Bottom	6.8	0.1	338	16.7	16.7	8.1	8.1	31.8	31.8	114.3	114.4	9.2 9.2	1.7		2							-	1
					Surface	1.0	0.2	95 103	17.2	17.2	8.2 8.2	8.2	29.8 29.9	29.8	123.9		10.0	1.4	+	3		-	-			-	-	ł
IM12	Fine	Moderate	08:37	8.9	Middle	4.5	0.1	9	17.1 17.1	17.1	8.2 8.2	8.2	31.5 31.5	31.5	119.2	110.2	9.5 9.5	1.7 1.6	1.5	3	3			821482	812058	· .	-	-
					Bottom	4.5	0.1	9 129	16.8	16.8	8.2	8.2	31.5	31.7	113.3		9.5 9.1 9.1	1.4	1	4		-				-	-	t
						7.9	0.1	136	16.8 17.1		8.2 8.2		31.7 29.9		113.4		9.1 9.5	1.5 1.4		3				 	 	-	-	<u> </u>
					Surface	1.0	-		17.1	17.1	8.2	8.2	29.9	29.9	117.6		9.5 g F	1.4	1	3			1			-	-	ļ
SR1A	Fine	Moderate	08:02	5.5	Middle	2.8	-	-	-	-	-	-	-	-	-	. -	- 0.0	-	1.6	-	3	-	-	819973	812662		-	+ -
					Bottom	4.5	-	-	17.3 17.3	17.3	8.2 8.2	8.2	31.7 31.7	31.7	118.4		9.4 9.4	1.8 1.9	7	3		•					-	Í
					Surface	1.0	0.1	16	17.1	17.1	8.2	8.2	30.6	30.6	120.2	120.2	9.7	1.3		4						-	-	1
SR2	Fine	Modorato	07:46	4.2		1.0	0.1	17	17.1		8.2		30.6		120.2		9.7 9.7	1.3	1.7	-	4	-		821473	814177	-	-	t
3R2	Fine	Moderate	07:46	4.3	Middle	- 3.3	- 0.1	- 339	- 17.1		- 8.2	-	- 30.7	-	- 113.5		- 9.1	2.1	1.7	- 5	4	•	-	021473	014177		-	ĺ
					Bottom	3.3	0.1	359	17.1	17.1	8.2	8.2	30.7	30.7	113.4	113.5	9.1 9.1	2.2		4						-	-	
					Surface	1.0	0.0	246 256	16.9 16.9	16.9	8.2 8.2	8.2	28.7 28.7	28.7	124.7 124.7		10.2	1.5	+	4		-	-			-	-	ł
SR3	Fine	Moderate	09:21	8.6	Middle	4.3 4.3	0.1	194 204	17.3 17.3	17.3	8.2 8.2	8.2	30.9 30.9	30.9	126.5 126.3		10.2 10.1 10.1	1.5	1.5	4	4	-	-	822168	807571	· .	-	-
					Bottom	7.6	0.1	258	17.1	17.1	8.2	8.2	31.3	31.3	122.8	122.8	9.8 0.8	1.5	1	3			1			-		1
						7.6	0.1	274 161	17.1 17.4		8.2 8.3		31.3 29.6		122.8 121.5		9.8 9.8	1.5 2.3		3		-				-	-	├──
					Surface	1.0 4.1	0.1	165 186	17.4 17.5	17.4	8.3 8.2	8.3	29.7 30.1	29.7	121.3	121.4	9.7 9.7 9.7	23	1	3		-	1			-	-	ĺ
SR4A	Fine	Moderate	08:22	8.2	Middle	4.1	0.1	189	17.5	17.5	8.2	8.2	30.2	30.2	121.1	121.1	9.7	2.4	2.4	4	3		-	817169	807788	-	-	1 -
					Bottom	7.2	0.1	184 186	17.7 17.7	17.7	8.2 8.2	8.2	30.7 30.8	30.8	120.7		9.6 9.6	2.5	+	2			-			-	-	ł
					Surface	1.0	0.1	124	17.6	17.6	8.2	8.2	30.8	30.8	117.6 117.3	117.5	9.3	8.8		2							-	F
SR5A	Fine	Moderate	08:03	3.0	Middle	1.0	0.1	129	17.6		8.2		30.8		-		9.3 - 9.3	9.0	6.8	3	3		1.	816616	810692	· .	-	1.
Untort		moderate	00.00	0.0		- 2.0	- 0.1	- 111	- 17.6		- 8.2		- 30.8		- 115.7		9.2 0.7	- 5.0	0.0	- 3		-		010010	010002	-	-	ł
					Bottom	2.0	0.1	114	17.6	17.6	8.2	8.2	30.8	30.8	115.2	115.5	9.1 9.2	4.7		3		-				-	-	<u> </u>
					Surface	1.0	0.0	336 351	17.2	17.3	8.3	8.3	29.7 29.8	29.8	118.5 118.5		9.5 9.5 9.5	2.0	1	3						-	-	l
SR6A	Fine	Moderate	07:33	4.5	Middle		•		-	-	-	· ·	-	-	-	- -	-	-	3.3	-	3	-		817950	814731	· ·	-	- 1
					Bottom	3.5	0.1	16	17.4	17.4	8.3	8.2	29.9	29.9	117.8		9.4 9.4	3.5 3.8	1	3		-	1			-	-	ļ
					Surface	3.5	0.1	17 61	17.4 16.8	16.9	8.2 8.1	0.1	30.0 32.0	22.0	114.5		9.4 9.2	1.2		3						-	-	H
						1.0 7.3	0.7	65 14	16.8 16.8	16.8	8.1 8.1	8.1	32.0 32.1	32.0	114.5 112.9		9.2 9.0 9.1	1.2 1.2	+	3		-	+			-	-	ł
SR7	Fine	Moderate	06:48	14.5	Middle	7.3	0.2	14	16.8	16.8	8.1	8.1	32.1	32.1	112.8	112.9	9.0	1.2	1.2	3	3	-	1 -	823625	823721		-	(T
					Bottom	13.5 13.5	0.2	55 55	16.8 16.8	16.8	8.0 8.0	8.0	32.2 32.2	32.2	109.5 109.4	109.5	8.8 8.7 8.8	1.2		3		-				-	-	
					Surface	1.0	-	-	17.7 17.7	17.7	8.2 8.2	8.2	30.1 30.1	30.1	117.5 117.7		9.3 9.4	1.9 1.9		6 5		-				-		ł
SR8	Fine	Moderate	08:28	5.3	Middle	-	-		-	-	-		-	-	-		- 9.4	-	2.2	-	5	-	1.	820387	811633		-	1.
					Bottom	- 4.3	-	-	- 17.2	47.0	- 8.2		- 31.5	24.5	- 116.1	440.0	9.2	- 2.5	+	- 5		-	+			-	-	ŧ
					Bottom	4.3	-	-	17.2	17.2	8.2	8.2	31.5	31.5	115.9		9.2 9.2 9.2	2.5		5		•]]			-	-	<u>i </u>

Expansion of Hong Kong International Airport into a Three-Runway System Water Quality Monitoring Water Quality Monitoring Results on 23 January 21 during M 23 January 21 during Mid-Flood Tide

Water Qua	lity Moni	toring Res	ults on		23 January 21	during Mid-		ide																				
Monitoring	Weather	Sea	Sampling	Water	Sampling Dep	th (m)	Current Speed	Current	Water Te	emperature (°C)		pН	Salir	ity (ppt)	DO S	aturation (%)	Dissolved Oxygen	Turbi	lity(NTU)	Suspende (mg			Alkalinity pm)	Coordinate HK Grid	Coordinate HK Grid	Chromi (µg/L		kel (µg/
Station	Condition	Condition	Time	Depth (m)			(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	/alue D/		DA DA	Value	DA	Value	DA	(Northing)	(Easting)	Value	DA Val	lue D/
					Surface	1.0	0.2	46	17.3	17.4	8.3 8.3	8.3	29.3 29.2	29.3	126.1		10.2	2.1	_	2		-	-			-	-	_
C1	Sunny	Moderate	13:46	8.0	Middle	4.0	0.2	24	16.8	16.8	8.3	8.3	31.2	31.2	113.0	112.0	9.1 9.1	9.6		2	3	-	1.	815605	804224	-	-	_
0.	County	modorato	10.10	0.0	Middle	4.0	0.3	24 39	16.8 16.8		8.3 8.3		31.2 31.2		112.8 111.1		9.1 8.9	9.6		3	Ť	-	-	0.0000	001221	•	· ·	
					Bottom	7.0	0.2	42	16.8	16.8	8.3	8.3	31.2	31.2	110.7		8.9 8.9	8.6		3		-				-	-	
					Surface	1.0	0.3	350 322	17.5	17.5	8.2 8.2	8.2	28.9 28.9	28.9	129.3 129.3		10.4	1.4		3	-	-	-			•	-	
C2	Sunny	Moderate	12:36	10.5	Middle	5.3	0.4	28	17.0	17.0	8.2	8.2	30.9	30.9	126.4	126.5	10.1	3 1.3	14	3	3	-	1.	825669	806936	-		<u> </u>
	,					5.3 9.5	0.4	30 346	17.0 16.8		8.2 8.2		30.9 31.7		126.6 120.4		9.6	1.3		2	-	-	-			-	-	-
					Bottom	9.5	0.4	354	16.8	16.8	8.2	8.2	31.7	31.7	120.6	120.5	9.7 9.	1.5		3		-				-	-	
					Surface	1.0	0.3	241 257	17.3 17.3	17.3	8.2 8.2	8.2	31.7 31.7	31.7	119.1 119.2		9.5	1.2		3	-	-	1			-	-	
C3	Sunny	Moderate	14:58	12.0	Middle	6.0	0.4	252	16.8	16.8	8.1	8.1	32.3	32.3	110.3		8.8 9.1	1.4		5	4	-	1.	822131	817796	-		Ξ.
					Bottom	6.0 11.0	0.4	259 266	16.8 16.8	16.8	8.1 8.1	8.1	32.3 32.3	32.3	110.3		8.8 8.6 8.6	1.4		5		-				-	-	
					Bottom	11.0	0.4	287 18	16.8 17.5	10.8	8.1 8.4	0.1	32.3 30.3	32.3	107.6		8.6	2.0		4		-				-	-	
					Surface	1.0	0.2	18	17.5	17.5	8.4	8.4	30.3	30.3	128.2		10.2 10.	27		3		-	1			-	-	
IM1	Sunny	Moderate	13:24	4.4	Middle		-	-	•	-	-	-	-	-	-		-	- 	2.8	-	3	-		817972	807150	•	· ·	
					Bottom	3.4	0.1	17	17.4	17.4	8.4	8.4	30.7	30.7	125.9		10.0 10	0 2.9		3	1	-				-	-	
						3.4	0.1	17 356	17.4 17.5		8.4 8.4		30.7 29.6		124.7		9.9	2.9		2		-				•	-	+
					Surface	1.0	0.1	328	17.5	17.5	8.4	8.4	29.8	29.7	131.2	131.0	10.5	6 2.2	_	<2	1	-	1			-	-	
IM2	Sunny	Moderate	13:16	7.2	Middle	3.6	0.1	14 14	17.1 17.1	17.1	8.4 8.4	8.4	30.7 30.7	30.7	133.6 133.7		10.7	4.9		3	3	-		818155	806170	-	· ·	
					Bottom	6.2 6.2	0.1	357 328	17.2 17.2	17.2	8.4 8.4	8.4	30.9 30.9	30.9	135.5 134.8		10.8 10.8	8 7.7		2	1	-	1			•	-	コ
					Surface	1.0	0.1	327	17.6	17.6	8.4	8.4	29.8	29.9	128.5	129.6	10.3	2.1		3		-					-	
						1.0 3.5	0.2	337 340	17.5 17.1		8.4 8.4		29.9 30.5		128.6 129.0		10.3 10.4 10	4 2.1		2	1	-	-			-	-	-
IM3	Sunny	Moderate	13:09	6.9	Middle	3.5	0.1	313	17.1	17.1	8.4	8.4	30.5	30.5	129.1	129.1	10.4	2.7		3	4	-		818798	805576	-		
					Bottom	5.9	0.1	2	17.1	17.1	8.4 8.4	8.4	30.8 30.8	30.8	130.3		10.4 10.	4 3.2	-	5		-	-			-	-	_
					Surface	1.0	0.3	356	17.2	17.2	8.4	8.4	30.4	30.4	128.4		10.3	2.2		3		-				-	-	
	0		10.00			1.0	0.3	328	17.2 16.9		8.4 8.3		30.4 30.9		128.2 124.3		10.3 10.	2 2.2	-	3		-	-	040700	00.4500	-	-	
IM4	Sunny	Moderate	13:00	8.0	Middle	4.0 7.0	0.3	6 21	16.9	16.9	8.3	8.3	30.9	30.9	124.0		10.0	3.2	4.1	3	3	-	1.	819709	804586	-	· -	
					Bottom	7.0	0.2	21	16.9 17.0	17.0	8.3 8.3	8.3	31.0 31.0	31.0	121.1 120.9		9.7 9.7	6.5		3		-				-	-	
					Surface	1.0	0.1	290 307	17.2	17.2	8.4 8.4	8.4	28.4	28.4	129.3 129.3		10.5	2.3		4	-	-	-			-	-	_
IM5	Sunny	Moderate	12:51	7.2	Middle	3.6	0.1	59	17.1	17.1	8.4	8.4	30.7	30.6	128.5	400.4	10.3	4 2.5	26	4	4	-		820724	804862	-		_
INIO	Odiniy	Woderate	12.01	1.2		3.6 6.2	0.2	59 64	17.1 17.1		8.4 8.3		30.6 30.8		128.3 124.3		10.3	2.5		3		-	-	020724	004002	-	· ·	
					Bottom	6.2	0.1	65	17.1	17.1	8.3	8.3	30.8	30.8	124.1	124.2	9.9	3.1		4		-				-	-	
					Surface	1.0	0.3	255 270	17.2 17.2	17.2	8.3 8.3	8.3	27.6 27.6	27.6	127.4 127.4		10.4	2.4		2	ł	-	-			-	-	
IM6	Sunny	Moderate	12:43	7.0	Middle	3.5	0.1	222	17.2	17.2	8.4	8.4	29.9	29.8	128.9	128.0	10.4	4 2.3	2.6	4	4	-	1.	821045	805822	-		_
					Detter	3.5 6.0	0.1	231 77	17.2 17.1	47.0	8.4 8.3		29.8 30.7	20.7	128.8 125.2		10.4	2.3		5	-	-	1			-		_
					Bottom	6.0 1.0	0.1	77	17.2	17.2	8.3	8.3	30.7	30.7	124.8	t t	10.0 10.	3.2		5	1	-	<u> </u>			•	-	
					Surface	1.0	0.2	253 265	17.5 17.4	17.5	8.3 8.3	8.3	27.4 27.4	27.4	127.2 127.2		10.3 10.3 10.	2.4		2		-					-	
IM7	Sunny	Moderate	12:36	8.2	Middle	4.1	0.1	255 270	17.2 17.2	17.2	8.3 8.3	8.3	29.6 29.6	29.6	126.8 126.7		10.2 10.2	3 2.4 2.5		2	2	-		821346	806849	-		
					Bottom	7.2	0.0	102	17.1	17.1	8.3	8.3	30.7	30.7	124.9	124.7	10.0 10	5.9		2	1	-	1			-	-	
						7.2	0.0	111 306	17.1 17.5		8.3 8.2		30.7 29.2		124.4 128.3		10.0	5.8		2		-	<u> </u>			-	-	+
					Surface	1.0	0.1	330	17.5	17.5	8.2	8.2	29.2	29.2	128.2	128.3	10.3 10	1.5		4	1	-	1			-		=
IM8	Sunny	Moderate	13:07	7.5	Middle	3.8	0.1	291 319	17.3 17.3	17.3	8.2 8.2	8.2	29.6 29.6	29.6	129.1		10.4	1.5		4	4	-		821852	808146	-	· -	
					Bottom	6.5	0.1	247	17.1	17.1	8.2	8.2	31.5	31.5	128.7	128.6	10.3 10	3 2.4		4	1	-	1			-	-	
						6.5	0.1	251	17.1		8.2		31.5		128.4		10.3	2.4		4		-				-	-	<u> </u>

Expansion of Hong Kong International Airport into a Three-Runway System Water Quality Monitoring Water Quality Monitoring Results on 23 January 21 during M 23 January 21 during Mid-Flood Tide

Water Qua	lity Moni	toring Res	ults on		23 January 21	during Mid-	-Flood T	ide																				
Monitoring Station	Weather	Sea	Sampling	Water	Sampling Dep	th (m)	Current Speed	Current Direction	Water Te	emperature (°C)		рH	Salir	nity (ppt)		aturation (%)	Dissolved Oxygen	Turbidity	(NTU)	Suspende (mg		Total A (pp	ukalinity om)	Coordinate HK Grid	Coordinate HK Grid	Chromium (µg/L)	Nickel	l (µg/L)
Station	Condition	Condition	Time	Depth (m)			(m/s)		Value	Average	Value	Averag		Average	Value		alue DA		DA	Value	DA	Value	DA	(Northing)	(Easting)	Value DA	Value	DA
					Surface	1.0	0.1	295 295	17.5 17.5	17.5	8.2 8.2	8.2	29.2 29.2	29.2	128.1 128.1	128.1	0.3	1.4	+	3		-				-	-	ŀ
IM9	Sunny	Moderate	13:17	7.0	Middle	3.5 3.5	0.2	262 281	17.3 17.3	17.3	8.2 8.2	8.2	30.0 30.0	30.0	124.9		0.0	1.7	1.6	3	3		-	822088	808809	· ·	-	- 1
					Bottom	6.0 6.0	0.1	303 328	17.1 17.1	17.1	8.2 8.2	8.2	31.3 31.3	31.3	126.6		0.1 10.1	1.6 1.5	1	2			1			-	-	ļ
					Surface	1.0	0.2	319	17.4	17.4	8.2	8.2	29.9	29.9	127.0	126.0	0.2	1.3	1	2		-	1			-	<u> </u>	-
IM10	Sunny	Moderate	13:25	8.1	Middle	1.0 4.1	0.2	339 315	17.4 17.3	17.3	8.2 8.2	8.2	29.9 30.6	30.5	126.8 124.1	124.2	0.2 9.9	1.5	1.6	3	3	-	1.	822388	809781	· .	-	Ι.
INTO	Gunny	Woderate	10.20	0.1	Bottom	4.1	0.3	331 299	17.3 17.2		8.2 8.2		30.5 31.5		124.2 119.5		9.9 9.5 o s	1.5 2.0		3		-		022300	003/01	-	-	ł
			<u> </u>			7.1	0.2	309 319	17.2 17.6	17.2	8.2 8.2	8.2	31.5	31.5	119.3	113.4	9.5 9.5 0.2	2.1		3		-				-	-	Ļ
					Surface	1.0	0.3	349	17.6	17.6	8.2 8.2	8.2	29.9	29.9	127.9	127.9	0.2 10 3	1.5	4	6			1			-	-	ļ
IM11	Sunny	Moderate	13:36	7.9	Middle	4.0 4.0	0.3	297 301	17.3	17.3	8.2	8.2	30.6 30.6	30.6	125.7 125.7	125.7	0.1	1.3	1.6	6 5	5			822046	811449	-	-	-
					Bottom	6.9 6.9	0.2	295 320	17.0 17.0	17.0	8.2 8.2	8.2	31.6 31.6	31.6	118.4 118.3		9.5 9.5	2.1	+	5 4		-	-			-	-	ŀ
					Surface	1.0	0.3	305 329	17.9 17.9	17.9	8.2 8.2	8.2	29.5 29.5	29.5	126.5 126.4		0.1	1.2	-	2		-				-	-	ł
IM12	Sunny	Moderate	13:44	8.8	Middle	4.4	0.3	299 326	16.9 16.9	16.9	8.2 8.2	8.2	31.7 31.7	31.7	118.5 118.6	118.6	9.5 9.5	1.5 1.6	2.0	2	3			821441	812036	· .	-	-
					Bottom	7.8	0.3	314	16.8	16.8	8.2	8.2	31.8	31.8	116.4	116.6	9.3 0.2	3.1	1	3			1			-	-	ļ
					Surface	7.8	0.3	336	16.8 17.8	17.8	8.2 8.2	8.2	31.8 29.5	29.5	116.5 126.1	126.1	9.3	3.1 1.2		3		-				-	-	
SR1A	Current	Madamu	14:20	5.4	Middle	1.0 2.7	-	-	17.8	11.0	8.2	0.2	29.5	20.0	126.1	120.1	0.0 10.0	1.2	1.4	3		-	-	819976	812665	-	-	ł
SKIA	Sunny	Moderate	14.20	5.4		2.7	-	-	- 17.7	-	- 8.2		- 31.0		- 122.1		9.7	- 1.6	1.4	- 4	4		-	819970	812005	· ·	-	ł
					Bottom	4.4	- 0.1	- 77	17.7	17.7	8.2 8.2	8.2	30.9 30.6	30.9	122.0	122.1	9.7 9.7 0.0	1.6	1	3						-	-	<u> </u>
					Surface	1.0	0.1	81	17.7	17.7	8.2	8.2	30.6	30.6	125.8		0.0	1.1	1	2			1			-	-	l
SR2	Sunny	Moderate	14:37	4.8	Middle	-	-	-	-	-	-	-	-	-	-		-	-	1.3	•	2	-	-	821465	814143		-	-
					Bottom	3.8	0.1	93 96	17.2 17.2	17.2	8.2 8.2	8.2	31.3 31.3	31.3	123.5		9.9 9.8 9.9	1.4	4	2		-				-	-	ł
					Surface	1.0	0.1	291 292	17.6 17.6	17.6	8.2 8.2	8.2	29.4 29.4	29.4	127.0		0.2	1.2	-	3 2		•	-			-	-	ł
SR3	Sunny	Moderate	13:00	8.8	Middle	4.4	0.1	259 276	17.2	17.2	8.2 8.2	8.2	29.7	29.7	126.7	126.9	0.2 10.2	1.4	1.5	3	3		-	822143	807577	· .	-	f -
					Bottom	7.8	0.0	228	17.1	17.1	8.2	8.2	31.7	31.7	124.8	124.8	0.0 10.0	2.0	1	3			1			-	-	l
					Surface	7.8	0.0	228 115	17.1 18.0	18.0	8.2 8.4	8.4	31.7 30.1	30.1	124.8 125.4	125.4	9.9 9.9	2.0		4		-				-	-	<u> </u>
SR4A			44.07			1.0 4.2	0.1	123 54	17.9 17.7		8.4 8.4		30.1 30.6		125.4 124.2		9.9 9.9	2.2	-	3		-	-		007700	-	-	ł
SK4A	Sunny	Moderate	14:07	8.4	Middle	4.2 7.4	0.0	54 75	17.7 17.6	17.7	8.4 8.4	8.4	30.6 30.7	30.6	124.0 122.4		9.8	2.2	2.2	2	3		-	817174	807788		-	į -
					Bottom	7.4	0.1	79 172	17.6	17.6	8.4 8.3	8.4	30.7 30.8	30.7	122.2	122.3	9.7 9.7 9.6	2.3	1	3			-			-	-	<u>[</u>
					Surface	1.0	0.0	173	18.3	18.3	8.3	8.3	30.8	30.8	123.1		9.6 9.6 9.6	4.7	1	3			1			-	-	l
SR5A	Sunny	Moderate	14:24	3.1	Middle	-	-	-	•	-	-	-	-	-	-		-	-	5.1	-	3	-	-	816604	810715		-	-
					Bottom	2.1	0.0	176 187	18.2 18.3	18.3	8.3 8.3	8.3	30.8 30.8	30.8	120.5		9.5 9.4 9.5	5.5 5.6	-	2		-				-	-	ł
					Surface	1.0 1.0	0.0	255 267	17.9 17.9	17.9	8.4 8.4	8.4	29.6 29.6	29.6	122.8 122.6		9.8	3.0 3.0	1	4		-				-	-	F
SR6A	Sunny	Moderate	15:17	4.4	Middle	-	-	-	-	-	-		-	-	-		- 9.8	-	4.7	-	3		-	817942	814730	· .	-	- I
					Bottom	3.4	0.0	227	- 17.9	17.9	- 8.4	8.4	29.6	29.6	- 120.9		9.6 9.6	6.7	1	3			1			-	-	l
			1		Surface	3.4	0.0	238 116	17.9 16.9		8.4 8.1		29.6 32.2		120.4 111.8	111.0	9.6 5.3	6.1 1.9		2		-				-	-	<u> </u>
007			45.05			1.0 7.2	0.0	117 184	16.9 16.8	16.9	8.1 8.1	8.1	32.2 32.4	32.2	111.8 109.2	111.0	5.3 4.6	1.9 1.2	1	3 4		-	-	000005	000707	-	-	ŧ
SR7	Sunny	Moderate	15:32	14.4	Middle	7.2	0.1	186	16.8 16.8	16.8	8.1 8.1	8.1	32.4	32.4	109.2	109.2	4.6	1.2	1.5	3	3	-	1 .	823622	823723		-	į -
					Bottom	13.4	0.1	80	16.8	16.8	8.1	8.1	32.4	32.4	107.3	107.3	4.4 4.3	1.5	1	3	· •	-					Ė	<u> </u>
					Surface	1.0 1.0	-	-	18.2 18.2	18.2	8.2 8.2	8.2	29.5 29.5	29.5	124.0 124.0		9.8 9.8 9.8	3.9 3.9	4	6 6		-	1			-	-	ł
SR8	Sunny	Moderate	13:55	4.9	Middle	-	-	-	-	-	-	-	-	-	-		- 3.0	-	3.3	-	5	-	-	820371	811612		-	-
					Bottom	3.9 3.9	-		17.3 17.3	17.3	8.2 8.2	8.2	31.2 31.2	31.2	121.6		9.7 9.7 9.7	2.7	1	4			1				•	İ
		1				0.0	<u> </u>		11.9		0.2	1	01.2		141.0			2.1	1	2		-	1		1			<u> </u>

Expansion of Hong Kong International Airport into a Three-Runway System Water Quality Monitoring Water Quality Monitoring Results on 26 January 21 during M 26 January 21 during Mid-Ebb Tide

Water Qua	ity Moni	toring Res	ults on		26 January 21	during Mid-	-Ebb Tid	e																					
Monitoring Station	Weather	Sea	Sampling	Water	Sampling Dep	h (m)	Current Speed	Current Direction	Water Te	emperature (°C)		рH	Salir	nity (ppt)	DO S	aturation (%)	Disso Oxyg		Turbidity(NTU)	Suspende (mg	ed Solids /L)	Total A (pp		HK Grid	Coordinate HK Grid	Chron (µg/		ickel (µg/L)
Station	Condition	Condition	Time	Depth (m)			(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)	Value	DA Va	alue DA
					Surface	1.0	0.1	204 219	17.6	17.6	8.2 8.2	8.2	31.5 31.5	31.5	120.1 120.2	120.2	9.5 9.5	-	2.4 2.5		4		•				-	_	-
~						4.0	0.1	219	17.6	47.5	0.2 8.1		31.5		117.3	447.0	9.5	9.4	2.5		4	4			045000	00.4007	-	- H	-
C1	Fine	Moderate	11:43	8.0	Middle	4.0	0.1	243	17.5	17.5	8.1	8.1	31.7	31.7	117.3	117.3	9.3		2.9	2.7	4	4	•	-	815609	804267	-	-	
					Bottom	7.0	0.0	187 205	17.5 17.5	17.5	8.1 8.1	8.1	31.9 31.9	31.9	111.3	111.2	8.8 8.8	8.8	2.6	-	4		-	-			-	. –	-
					Surface	1.0	0.2	83	17.7	17.7	8.3	8.3	27.9	28.0	120.1	120.1	9.7		1.5	_	4		-				-		-
						1.0 6.1	0.2	85 71	17.7 17.5		8.3 8.3		28.0 28.8		120.0 114.2		9.7 9.2	9.5	1.6 4.6		3		-	-			-	. –	-
C2	Sunny	Moderate	10:05	12.2	Middle	6.1	0.2	76	17.5	17.5	8.3	8.3	29.0	28.9	114.1	114.2	9.2		4.8	4.0	3	4		-	825678	806965	-		<u> </u>
					Bottom	11.2 11.2	0.1	43 46	17.5 17.5	17.5	8.3 8.3	8.3	30.1 30.1	30.1	108.0	108.0	8.6 8.6	8.6	5.6 5.8	-	4		-	-			-		-
					Surface	1.0	0.3	88	17.6	17.6	8.4	8.4	30.3	30.3	114.0	114.0	9.1	_	1.3	_	5						-		-
						1.0 6.1	0.3	89 82	17.6 17.4		8.4 8.3		30.3 30.4		113.9 109.6		9.1 8.7	8.9	1.3 2.1	-	5 5		-				· ·		-
C3	Sunny	Moderate	12:01	12.2	Middle	6.1	0.3	85	17.4	17.4	8.3	8.3	30.4	30.4	109.0	109.3	8.7		2.1	2.2	5	5		-	822127	817821	-		- 1
					Bottom	11.2 11.2	0.1	69 74	17.3 17.4	17.4	8.3 8.3	8.3	30.7	30.7	106.9	107.1	8.5 8.6	8.6	3.2	-	3		-	-			-	· –	-
					Surface	1.0	0.1	173	17.8	17.8	8.2	8.2	31.5	31.5	119.6	119.6	9.4		2.5		3		•						-
						1.0	0.1	180	17.8	11.0	8.2	0.2	31.5	01.0	119.5	110.0	9.4	9.4	2.5	-	4		-	-			-		-
IM1	Fine	Moderate	11:20	4.7	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.3		4	-	-	817925	807147	-		
					Bottom	3.7	0.1	212	17.7 17.7	17.7	8.1 8.1	8.1	31.7	31.7	111.0	110.9	8.7 8.7	8.7	2.1	-	3		•	-			-		-
					Surface	1.0	0.1	202	17.6	17.6	8.2	8.2	31.7	31.7	121.1	121.1	9.6		2.3		4		-				-		-
						1.0	0.1	218 270	17.6 17.5		8.2 8.1		31.7 32.0		121.0 118.1		9.6 9.3	9.5	2.3 2.6	-	5		-	-			-		-
IM2	Fine	Moderate	11:11	6.8	Middle	3.4	0.1	277	17.5	17.5	8.1	8.1	32.0	32.0	118.0	118.1	9.3	_	2.6	2.8	5	4	-	-	818183	806146	-		-
					Bottom	5.8 5.8	0.1	266 282	17.6	17.6	8.1 8.1	8.1	32.2	32.2	115.9	115.7	9.1 9.1	9.1	3.4 3.5	-	4		-				-		-
					Surface	1.0	0.0	97	17.6	17.6	8.2	8.2	31.6	31.6	121.3	121.3	9.6		2.4		4						-		-
						1.0	0.0	97 216	17.6 17.5		8.2 8.1		31.6 32.0		121.2 116.6		9.6 9.2	9.4	2.4	-	4		-	-			-	. –	-
IM3	Fine	Moderate	11:04	6.9	Middle	3.5	0.1	223	17.5	17.5	8.1	8.1	32.0	32.0	116.5	116.6	9.2	_	2.7	2.7	4	4		-	818763	805573	-		-
					Bottom	5.9 5.9	0.1	228 245	17.5 17.5	17.5	8.1 8.1	8.1	32.1	32.1	111.8	111.8	8.8 8.8	8.8	3.0 2.9	-	5		-	-			-		-
					Surface	1.0	0.1	33	17.7	17.7	8.2	8.2	31.1	31.1	121.4	121.4	9.6		2.3		5		-				-		-
					Guildoo	1.0 4.1	0.1	36 305	17.7 17.6		8.2 8.1	0.2	31.1 31.7		121.4 116.4		9.6 9.2	9.4	2.3 2.9	-	4		-	-			-		-
IM4	Fine	Moderate	10:27	8.2	Middle	4.1	0.1	323	17.6	17.6	8.1	8.1	31.7	31.7	116.2	116.3	9.2		2.9	2.8	5	4		-	819743	804615	-		
					Bottom	7.2	0.1	257 277	17.5 17.5	17.5	8.1 8.1	8.1	31.9 31.9	31.9	109.6	109.5	8.6 8.6	8.6	3.1 3.1	-	3		-	-			-		-
					Surface	1.0	0.2	10	17.6	17.6	8.2	8.2	31.2	31.2	120.2	120.3	9.5		2.9		3		-				•		
					Guildoo	1.0	0.2	10 346	17.6 17.6		8.2 8.2	0.2	31.2 31.9		120.3 119.2		9.5 9.4	9.5	2.9 4.6	-	2		•	-			-		-
IM5	Fine	Moderate	10:19	7.4	Middle	3.7	0.2	318	17.6	17.6	8.2	8.2	31.9	31.9	119.1	119.2	9.4	-	4.7	3.4	4	3	-	-	820755	804884			
					Bottom	6.4 6.4	0.2	342 344	17.6 17.6	17.6	8.1 8.1	8.1	32.0	32.0	116.2	116.2	9.2 9.2	9.2	2.7	-	4		-	-			-		-
					Surface	1.0	0.0	179	17.7	17.7	8.2	8.2	29.8	29.8	119.0	119.0	9.5		1.9		4								-
						1.0	0.0	184 151	17.7 17.6		8.2 8.1	0.2	29.8 31.3		118.9		9.5 9.3	9.4	1.9 3.0	-	3		-				-		-
IM6	Fine	Moderate	10:10	7.3	Middle	3.7	0.1	164	17.6	17.6	8.1	8.1	31.3	31.3	116.8	117.0	9.2	-	2.9	2.7	4	3	-	-	821037	805844			
					Bottom	6.3 6.3	0.1	70	17.6 17.6	17.6	8.1 8.1	8.1	31.8 31.8	31.8	111.8	111.8	8.8 8.8	8.8	3.2 3.2	-	3		•				-		-
					Surface	1.0	0.1	188	17.8	17.8	8.1	8.1	29.4	29.4	118.0	118.0	9.4		1.7		3		-						
						1.0 4.1	0.1	198 127	17.8 17.6		8.1 8.1		29.4 31.2		117.9 115.5		9.4 9.1	9.3	1.7 2.6	F	2		•				-	F	-
IM7	Fine	Moderate	10:06	8.1	Middle	4.1	0.1	137	17.6	17.6	8.1	8.1	31.3	31.2	115.5	115.5	9.1		2.6	2.3	3	3		1 -	821352	806836	-		-
					Bottom	7.1	0.1	144 148	17.6	17.6	8.1 8.1	8.1	31.7	31.7	111.9	111.9	8.8	8.8	2.6	-	4		•				-	. –	-
		L		L	Surface	1.0	0.1	49	17.7	17.7	8.3	8.3	28.7	28.8	118.3	118.2	9.5		0.3		4				<u> </u>				-
						1.0 3.9	0.1	50 71	17.7 17.7		8.3 8.3		28.9 29.6		118.1 117.5		9.5 9.4	9.5	0.3 1.5	F	5 4		-					F	-
IM8	Sunny	Moderate	10:29	7.8	Middle	3.9	0.2	74	17.7	17.7	8.3	8.3	29.7	29.6	117.4	117.5	9.4		1.6	2.2	4	4	•	-	821842	808136	-		
					Bottom	6.8 6.8	0.2	74 74	17.7 17.7	17.7	8.3 8.3	8.3	29.4 29.2	29.3	117.9 118.1	118.0	9.4 9.4	9.4	4.8 4.8	F	4		-				-	F	-
l						0.0	0.4	/4	1 17.7		0.5		29.2	I	1110.1		3.4		4.0		4			1	1	1			

Expansion of Hong Kong International Airport into a Three-Runway System Water Quality Monitoring Water Quality Monitoring Results on 26 January 21 during M 26 January 21 during Mid-Ebb Tide

Water Qua	lity Moni	toring Res	ults on		26 January 21	during Mid		e					-										-	-			
Monitoring	Weather	Sea	Sampling	Water	Sampling De	oth (m)	Current Speed	Current	Water Te	mperature (°C)		pН	Salin	ity (ppt)	DO S	aturation (%)	Dissolved Oxygen	Turbidity	(NTU)	Suspende (mg		Total Alkalinit (ppm)	Coordinate HK Grid	HK Grid	Chron (µg		Nickel (µg/L)
Station	Condition	Condition	Time	Depth (m)			(m/s)	Direction	Value	Average	Value	Average	Value	Average		-	alue DA	Value	DA	Value	DA	Value DA	(Northing)	(Easting)	Value	DA \	Value DA
					Surface	1.0	0.3	46 46	17.9 17.9	17.9	8.3 8.3	8.3	28.3 28.4	28.4	117.2 116.9		9.4	1.1	+ -	3 3		-			-	-	-
IM9	Sunny	Moderate	10:33	7.2	Middle	3.6	0.3	36	17.7	17.7	8.3	8.3	28.8	28.8	114.3	114.1	9.2 9.3	3.5	3.0	3	3	· .	822077	808816	-	L	· .
	Curry	modorato	10.00	1.2		3.6	0.3	39 59	17.7 17.7		8.3 8.3		28.8 29.0		113.8 111.1		9.1 8.9	3.5 4.4	0.0	3		-	022011	000010	-	. –	-
					Bottom	6.2	0.2	61	17.7	17.7	8.3	8.3	29.0	29.0	110.6	110.9	8.9 0.9	4.3		3	•	-			-		-
					Surface	1.0	0.3	73 78	17.8 17.8	17.8	8.3 8.3	8.3	28.7 28.7	28.7	115.7 115.2		9.3 9.2	1.0	+ +	4		-			-	. -	-
IM10	Sunny	Moderate	10:39	7.6	Middle	3.8	0.2	88	17.7	17.7	8.3	8.3	29.4	29.4	110.9	110.7	8.9 9.1	2.2	2.6	3	4	· .	822405	809776	-	F	<u> </u>
						3.8	0.2	96 94	17.7 17.8		8.3 8.3		29.5 29.9		110.5 108.9		8.8	2.2 4.6	+ +	4		-			-	. -	-
					Bottom	6.6	0.1	94 86	17.8	17.8	8.3 8.3	8.3	29.9 29.9	29.9	108.8	106.9	8.7 0.7	4.5 1.2		4		-			-	F	-
					Surface	1.0	0.1	90	17.7	17.7	8.3	8.3	29.9 30.0	29.9	114.8		9.1 9.1 9.1	1.2	1	5		-			-	. E	-
IM11	Sunny	Moderate	10:49	8.0	Middle	4.0	0.1	83 91	17.7 17.7	17.7	8.3 8.3	8.3	30.0 30.0	30.0	113.2 113.0		9.0 9.0	2.2 2.1	2.2	4	4	· .	822037	811464	-	F	<u> </u>
					Bottom	7.0	0.1	101	17.7	17.7	8.3	8.3	30.1	30.0	111.8	111 7	8.9 8.9	3.3	1 1	3		-			-	. E	-
						7.0	0.1	108 116	17.7 17.7		8.3 8.3		30.0 30.0		111.6		8.9 9.3	3.4		4		-	<u> </u>	<u> </u>	-	\rightarrow	-
					Surface	1.0	0.1	124	17.7	17.7	8.3	8.3	30.0	30.0	116.2	116.3	9.3 0.3	1.1	1 1	5		-					-
IM12	Sunny	Moderate	10:54	9.1	Middle	4.6	0.1	151 158	17.7 17.7	17.7	8.3 8.3	8.3	30.1 30.1	30.1	115.3		9.2 9.2	3.8 3.8	3.2	5 5	5		821454	812049	-		
					Bottom	8.1	0.1	97	17.7	17.7	8.3	8.3	30.1	30.1	114.2	114.1	9.1 0.1	4.8	1 1	5		-			-	.	-
						8.1	0.1	103	17.7 17.8		8.3 8.3		30.1		114.0		9.1 ^{9.1} 8.9	4.8		5		-		1	-		-
					Surface	1.0	-	•	17.8	17.8	8.3	8.3	30.0	30.0	111.6		8.9 8.9	2.4	1	4		-			-	.	-
SR1A	Sunny	Calm	11:30	5.2	Middle	2.6	-	-	-	-	-	-	-	-	-		-	-	2.6		4		819982	812659	-		· ·
					Bottom	4.2	•	-	17.8 17.8	17.8	8.3 8.3	8.3	30.1 30.1		109.7		8.7 8.7 8.7	2.9	1 1	4		-			-	. F	-
					Surface	4.2	- 0.1	- 81	17.8	17.8	8.3	8.3	30.1	30.0	109.3		9.1	2.9		5		-			-	-+	-
						1.0	0.1	82	17.8	17.0	8.3	0.3	30.0	30.0	114.5	114.0	9.1 9.1	2.3] [6		-			-	, F	-
SR2	Sunny	Calm	11:43	4.6	Middle	-	-		-	-	-	-	-	-	-		-	-	3.1	-	6		821444	814170	-	E	
					Bottom	3.6	0.1	80 83	17.8 17.8	17.8	8.3 8.3	8.3	30.0 30.0	30.0	113.3		9.0 9.0	4.1	┥┝	5		-			-		-
					Surface	1.0	0.1	144	17.8	17.8	8.3	8.3	28.5	28.5	118.6	118.6	9.5	1.2		6		-			-		-
						1.0	0.1	149 145	17.8 17.7		8.3 8.3		28.6 28.8		118.5 118.0		9.5 9.5	1.2	+ +	6		-			-	. -	-
SR3	Sunny	Moderate	10:28	8.7	Middle	4.4	0.1	155	17.7	17.7	8.3	8.3	28.8	28.8	117.9		9.5	4.4	3.7	4	5	-	822148	807570	-		
					Bottom	7.7	0.2	123 132	17.6 17.6	17.6	8.3 8.3	8.3	30.0 30.0	30.0	116.7 116.7		9.3 9.3	5.7 5.5	1	3		-			-		-
					Surface	1.0	0.2	74 74	17.9 17.9	17.9	8.2 8.2	8.2	31.4 31.4	31.4	123.1 123.1		9.7	2.5 2.5	+ +	5 5		-			-	-	-
SR4A	Fine	Calm	12:05	9.1	Middle	4.6	0.2	62	17.6	17.6	8.2	8.2	32.0	32.0	120.7	120.6	9.5 9.6	2.4	2.3	4	4	-	817201	807791	-	L	-
UK4A	1 116	Call	12.00	5.1		4.6	0.2	62 70	17.6 17.6		8.2 8.2		32.0 32.0		120.5 119.5		9.5 9.4	2.4 2.1	2.0	3	-	-	017201	001131	· ·	-	-
					Bottom	8.1	0.2	75	17.6	17.6	8.2	8.2	32.0	32.0	119.4	119.5	9.4	2.1		2		-			-		-
					Surface	1.0	0.1	231 232	18.1 18.1	18.1	8.2 8.2	8.2	32.0 32.0	32.0	118.1 118.0		9.2	3.6 3.6	+ +	5 4		-			-		-
SR5A	Fine	Calm	12:21	3.3	Middle	-	-	-	-		-		-	-	-		- 9.2 -	-	3.6	-	4	· .	816593	810673	-	F	<u> </u>
					Bottom	- 2.3	- 0.1	- 195	- 18.0	18.0	- 8.1	8.1	- 32.1	32.1	- 110.2	440.4	8.6 0.0	- 3.6	+ +	- 3		-			-	. -	-
					Bottom	2.3	0.1	210	18.0	18.0	8.1	8.1	32.1	32.1	109.9	110.1	8.6	3.6		4		-			-	F	-
					Surface	1.0	0.0	115 123	18.0 18.0	18.0	8.2 8.2	8.2	31.6 31.6	31.6	116.2 116.1		9.1 9.1 9.1	5.9 5.9		8		-			-	. E	-
SR6A	Fine	Calm	13:06	4.2	Middle	-	-	-	-	-	-		-	-	-		- 3.1	-	6.0		8	· .	817963	814716	-		
					Bottom	3.2	0.1	82	17.9	17.9	8.2	8.2	31.7	31.7	110.8		8.7 8.7	6.1	1 1	8		-			-	. L	-
						3.2	0.1	82 60	17.9 17.3		8.2 8.3		31.7 30.7		110.7		8.7 8.5	6.0 2.3		9 5		-			-		-
					Surface	1.0	0.3	60	17.3	17.3	8.3	8.3	30.7	30.7	105.9	105.9	8.5 8.5	2.2	1 1	5		-				, E	-
SR7	Sunny	Calm	12:29	18.6	Middle	9.3 9.3	0.2	36 39	17.3 17.3	17.3	8.4 8.4	8.4	30.7 30.7	30.7	105.1	105.2	8.4 8.4	2.4	2.7	3	4		823636	823752	-	-	
					Bottom	17.6	0.2	27	17.4	17.4	8.4	8.4	30.7	30.7	105.5	105.6	8.4 8.4	3.3	1	2		-			-	, F	-
						17.6	0.2	29	17.4 17.9		8.4 8.3		30.7 30.0		105.6		8.4 8.9	3.4		3		-	1	1	-	\rightarrow	-
					Surface	1.0	-	-	17.9	17.9	8.3	8.3	30.0	30.0	112.6		8.9 8.9	3.4	1	<2		-				, F	-
SR8	Sunny	Calm	11:03	4.2	Middle	-	-	-	-	-	-	-	-	-	-	<u> </u> - -	-	-	4.5	-	<2		820384	811637	-	-	
					Bottom	3.2	-	-	17.9 17.9	17.9	8.3 8.3	8.3	29.9 29.9	29.9	111.4		8.8 8.8	5.4 5.9	ļļ	<2 <2		-			-	; F	-
l			1			3.Z		-	17.9		ბ.პ	I	29.9		110.7	1	0.0	5.9		<2		-	1	1	-		<u> </u>

Expansion of Hong Kong International Airport into a Three-Runway System Water Quality Monitoring Water Quality Monitoring Results on 26 January 21 during M 26 January 21 during Mid-Flood Tide

Water Qua	lity Moni	toring Res	ults on		26 January 21	during Mid	-Flood T	ide																				
Monitoring	Weather	Sea	Sampling	Water	Sampling Dep	th (m)	Current Speed	Current	Water Te	emperature (°C)		pН	Sali	nity (ppt)	DOS	Saturation (%)	Dissolved Oxygen	Turbi	ity(NTU)	Suspende (mg			Alkalinity pm)	Coordinate HK Grid	Coordinate HK Grid	Chromi (µg/L		ckel (µg/
Station	Condition	Condition	Time	Depth (m)			(m/s)	Direction	Value	Average	Value	Average		Average		Average	/alue D/		DA	Value	DA	Value	DA	(Northing)	(Easting)	Value	DA Val	lue D/
					Surface	1.0	0.3	43 45	17.5 17.5	17.5	8.1 8.1	8.1	30.9 30.9	30.9	119.3	119.3	9.5 9.5	2.6	-	4	ł	-	-			•	-	_
C1	Cloudy	Moderate	06:25	7.9	Middle	4.0	0.3	30	17.5	17.5	8.1	8.1	31.5	31.5	116.1		9.2 9.4	2.6	2.7	4		-	1.	815596	804236	•	-	
01	Cibudy	Woderate	00.20	1.5	WIDDLE	4.0	0.3	31 26	17.5 17.5		8.1 8.1	0.1	31.5 31.8		116.1 112.1		9.2 8.9	2.6	- 2.7	3	-	-	-	015550	004200	•	· -	
					Bottom	6.9	0.2	20	17.5	17.5	8.1	8.1	31.8	31.8	111.8		8.8 8.9	2.9		5		-					-	
					Surface	1.0	0.2	359 330	17.8 17.8	17.8	8.3 8.3	8.3	27.9 28.1	28.0	116.4		9.4	2.1		2	ŀ	-				· ·	-	
C2	Fine	Moderate	08:04	11.8	Middle	5.9	0.2	349	17.7	17.7	8.3	8.3	28.8	28.8	114.3	114.2	9.2 9.3	2.1	2.4	3	3		1.	825676	806943		-	
02		modorato	00.01	11.0		5.9 10.8	0.3	321 347	17.7 17.5		8.3 8.3		28.8 29.9		114.2		9.2 8.5	2.1		4	Ŭ	-	-	020010	000010	-		
					Bottom	10.8	0.1	356	17.5	17.5	8.3	8.3	29.7	29.8	106.1	106.2	8.5	3.2		4	1	-				•	-	
					Surface	1.0	0.4	258 273	17.5 17.5	17.5	8.3 8.3	8.3	30.1 30.1	30.1	111.2		8.9 8.9	1.1	-	4	ł	-	+			-	-	
C3	Fine	Moderate	06:12	11.4	Middle	5.7	0.4	257	17.5	17.5	8.3	8.3	30.3	30.3	108.5		8.7	4.2	3.7	3	4	-	1.	822098	817796	·	. 🖃	コ.
					Bottom	5.7 10.4	0.4	265 263	17.4 17.4	17.4	8.3 8.3	8.3	30.3 30.4	30.4	108.0 104.4	104.3	8.6 8.3 8.3	4.4	-	4 5	ł	-	1			-	-	
					Bollom	10.4 1.0	0.3	277 290	17.4	17.4	8.3	0.3	30.4	30.4	104.1	104.3	8.3	5.7		5	<u> </u>	-	<u> </u>			•	-	
					Surface	1.0	0.1	313	17.5 17.5	17.5	8.1 8.1	8.1	32.0 32.0	32.0	113.9	113.9	9.0 9.0 9.0	2.6		4	ł	-				-	-	
IM1	Fine	Moderate	06:47	4.5	Middle	-	-	-	-		-	-	-	• •	-	4 .		′ <u>-</u>	2.5	-	4	-		817954	807108	-		
					Bottom	3.5	0.1	299	17.7	17.7	8.1	8.1	32.2	32.2	108.9	108.9	8.6 8.6	2.4		4	1	-	1			-	-	
						3.5	0.1	319 12	17.7 17.5		8.1 8.1		32.2		108.8		8.6 9.5	2.4		5		-				-	-	+-
					Surface	1.0	0.2	12	17.5	17.5	8.1	8.1	31.3	31.3	119.8	119.8	9.5	2.3		4	1	-	1			•	-	-
IM2	Fine	Moderate	06:55	6.6	Middle	3.3	0.2	3	17.5 17.5	17.5	8.1 8.1	8.1	31.9 31.9	31.9	117.8		9.3 9.3	2.5	2.7	3	4	-		818150	806157	-		
					Bottom	5.6 5.6	0.2	342 343	17.5 17.5	17.5	8.1 8.1	8.1	32.0 32.0	32.0	115.6		9.1 9.1	3.3	7	4	ļ	-	1			·	-	-
					Surface	1.0	0.2	343	17.5	17.5	8.1	8.1	31.5	31.5	115.4		9.1	2.8		4		-					-	
						1.0	0.3	342 346	17.5 17.5		8.1 8.1		31.5 31.8		119.1		9.4 9.3	1 2.9	-	5	Į	-	-			· ·	-	
IM3	Fine	Moderate	07:01	6.8	Middle	3.4	0.3	354	17.5	17.5	8.1	8.1	31.8	31.8	117.2	117.2	9.3	3.0	3.1	7	6	-	<u> </u>	818796	805599	•		
					Bottom	5.8 5.8	0.3	331 342	17.5 17.5	17.5	8.1 8.1	8.1	32.0	32.0	115.1		9.1 9.1	3.4	-	8	ł	-	-			· ·	-	
					Surface	1.0	0.4	348	17.6	17.6	8.2	8.2	31.5	31.5	119.4	110.5	9.4	2.5		4		-				· ·	-	
			07.00			1.0	0.5	320 335	17.6 17.5		8.2 8.1		31.5 31.6		119.5		9.4 9.4	2.4	-	3	Η.	-	-	040707	00.4500	-	-	
IM4	Fine	Moderate	07:09	8.2	Middle	4.1 7.2	0.4	336 359	17.5	17.5	8.1	8.1	31.6	31.6	118.5	118.5	9.4	2.6	3.0	5	4	-	1.	819707	804588	-	· -	
					Bottom	7.2	0.3	359	17.5 17.5	17.5	8.1 8.1	8.1	31.7 31.7	31.7	116.8 116.6		9.2 9.2 9.2	2 4.0		5	-	-				-	-	
					Surface	1.0	0.6	11	17.6 17.6	17.6	8.2 8.2	8.2	31.7 31.7	31.7	119.1	119.1	9.4 9.4	2.7	_	3	ł	-				-	-	
IM5	Fine	Moderate	07:16	7.5	Middle	3.8	0.6	14	17.5	17.5	8.1	8.1	31.8	31.8	118.8	118.9	9.4 9.4	2.8	3.2	4	4	-	1.	820740	804890	· ·		
		modorato	01.10	1.0		3.8 6.5	0.6	14 21	17.5 17.5		8.1 8.1		31.8 31.9		118.9 116.8		9.4	2.7	- 0.2	4	- ·	-	-	020110	001000	-	-	
					Bottom	6.5	0.5	22	17.5	17.5	8.1	8.1	31.9	31.9	116.7	116.8	9.2 9.2	4.2		5	•	-				-	-	-
					Surface	1.0	0.1	16 16	17.7 17.7	17.7	8.2 8.2	8.2	29.9 29.9	29.9	119.0		9.5 9.5	2.1	-	5	ł	-	-			-	-	
IM6	Fine	Moderate	07:25	7.3	Middle	3.7	0.2	47	17.6	17.6	8.1	8.1	31.1	31.1	118.1		9.4 9.4	2.6	2.8	3	3	-	1.	821054	805827	· ·		
					Bottom	3.7 6.3	0.2	51 70	17.6 17.6	17.6	8.1 8.1	8.1	31.1 31.8	31.8	117.9 116.9	116.9	9.3 9.2 9.2	2.7	-	2	ł	-	1			-	-	
					Bollom	6.3 1.0	0.2	74 204	17.6 17.8		8.1 8.2		31.8 29.4		116.9		9.2 9.4 9.5	3.7		2	I	-				-	-	
					Surface	1.0	0.1	208	17.8	17.8	8.2	8.2	29.4	29.4	119.3	119.2	9.5	1.8		<2	İ	-				-	_	
IM7	Fine	Moderate	07:46	8.4	Middle	4.2	0.2	143 152	17.6 17.6	17.6	8.1 8.1	8.1	30.7	30.8	116.6		9.3 9.2	3.4	3.4	2	2	-		821343	806815	-	· ·	
					Bottom	7.4	0.3	128	17.6	17.6	8.1	8.1	31.7	31.7	114.8		9.1 g	4.9	1	2	1	-	1			-	-	-
		1		1		7.4	0.3	134 90	17.6 17.7		8.1 8.3		31.7 28.7		114.7		9.1 ^{0.} 9.3	5.1		3		-					-	+
					Surface	1.0	0.1	95	17.7	17.7	8.3	8.3	28.7	28.7	115.6	115.7	9.3	, 1.3	1	4	1	-	1			-		_
IM8	Fine	Moderate	07:41	7.5	Middle	3.8	0.1	95 101	17.6 17.6	17.6	8.3 8.3	8.3	28.8 28.8	28.8	114.1	114.0	9.2 9.1	4.0	3.3	3	4	-	-	821838	808163	-	· ·	
					Bottom	6.5	0.2	134	17.6	17.6	8.3	8.3	28.8	28.8	111.6		9.0 9.0	4.7	1	4	1	-	1			•	-	
			1			6.5	0.2	143	17.6		8.3		28.8	1	110.9		8.9	4.7		3	1	-	1	1	1	-	- 1	

Expansion of Hong Kong International Airport into a Three-Runway System Water Quality Monitoring Water Quality Monitoring Results on 26 January 21 during M 26 January 21 during Mid-Flood Tide

<table-container></table-container>	Water Qua	lity Moni	toring Res	ults on		26 January 21	during Mid-	-Flood T	ide																				
10001000100100001000010000100001000010000<		Weather	Sea	Sampling	Water	Sampling Dep	th (m)			Water Te	emperature (°C)		рН	Salir	nity (ppt)				Turbidit	y(NTU)					Coordinate			Nickel	(µg/L)
	Station	Condition	Condition	Time	Depth (m)						Average		Average		Average					DA		DA	Value	DA	(Northing)	(Easting)	Value DA	Value	DA
<th< th=""> <</th<>						Surface					17.6		8.3		28.9			9.2	11	-			-	-			-	-	ł
	IM9	Fine	Moderate	07:36	7.1	Middle	3.6	0.1	80	17.6	17.6		8.3		29.1		112.0	9.0 9.1	4.3	3.5		4	-	I .	822099	808795	· .		į -
Image: bial bial bial bial bial bial bial bial						Bottom			108	17.6	17.6	8.3	83	29.2	20.2	109.7	109.4	8.8 8.8	5.3		3			ł			-	-	ĺ
				-														8.7	5.1				•		1	1	-	•	
100 100 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td>Surface</td> <td>1.0</td> <td>0.5</td> <td>317</td> <td>17.6</td> <td>17.6</td> <td>8.3</td> <td>8.3</td> <td>29.4</td> <td>29.4</td> <td>112.9</td> <td>113.0</td> <td>9.0 9.0</td> <td>2.1</td> <td>1</td> <td>3</td> <td></td> <td></td> <td>1</td> <td></td> <td></td> <td>-</td> <td>-</td> <td>į</td>						Surface	1.0	0.5	317	17.6	17.6	8.3	8.3	29.4	29.4	112.9	113.0	9.0 9.0	2.1	1	3			1			-	-	į
<td>IM10</td> <td>Fine</td> <td>Moderate</td> <td>07:30</td> <td>7.4</td> <td>Middle</td> <td></td> <td></td> <td></td> <td></td> <td>17.7</td> <td></td> <td>8.3</td> <td></td> <td>29.6</td> <td></td> <td></td> <td>9.0</td> <td>4.4</td> <td>3.8</td> <td></td> <td>3</td> <td>-</td> <td></td> <td>822389</td> <td>809805</td> <td></td> <td>-</td> <td>-</td>	IM10	Fine	Moderate	07:30	7.4	Middle					17.7		8.3		29.6			9.0	4.4	3.8		3	-		822389	809805		-	-
						Bottom					17.7		8.3		29.7					-			•	ł					ł
						Surface	1.0	0.4	284	17.7	17.7	8.3	8.3	29.7	29.7	113.7	113.6	9.1	3.2				-						1
111 <t< td=""><td>B.444</td><td>Fire</td><td>Madagata</td><td>07.04</td><td>7.0</td><td>Middle</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>4.2</td><td></td><td></td><td>-</td><td>1</td><td>000075</td><td>044450</td><td>-</td><td>-</td><td>İ</td></t<>	B.444	Fire	Madagata	07.04	7.0	Middle														4.2			-	1	000075	044450	-	-	İ
	IVIT	Fille	Moderate	07.21	7.0													0 5	E C	4.3			•	-	622075	611456	<u> </u>	-	÷
						Bottom	6.0	0.3	332	17.7	17.7	8.3	8.3	30.2	30.2	106.8	107.1	8.5	5.6		6		-				-	-	Ĺ
M bit in the integra M bit in the integra M bit in the integra M bit in the integra M bit in the integra M bit in the integra M bit integra </td <td></td> <td></td> <td></td> <td></td> <td></td> <td>Surface</td> <td></td> <td></td> <td></td> <td></td> <td>17.6</td> <td></td> <td>8.3</td> <td></td> <td>30.0</td> <td></td> <td></td> <td>9.0</td> <td>3.4</td> <td>+</td> <td></td> <td></td> <td>-</td> <td>1</td> <td></td> <td></td> <td>-</td> <td></td> <td>ł</td>						Surface					17.6		8.3		30.0			9.0	3.4	+			-	1			-		ł
<td>IM12</td> <td>Fine</td> <td>Moderate</td> <td>07:15</td> <td>9.2</td> <td>Middle</td> <td></td> <td></td> <td></td> <td></td> <td>17.6</td> <td></td> <td>8.3</td> <td></td> <td>30.1</td> <td></td> <td></td> <td>8.9</td> <td>4.5</td> <td>4.5</td> <td>-</td> <td>4</td> <td>•</td> <td>-</td> <td>821447</td> <td>812038</td> <td>· ·</td> <td>-</td> <td>- 1</td>	IM12	Fine	Moderate	07:15	9.2	Middle					17.6		8.3		30.1			8.9	4.5	4.5	-	4	•	-	821447	812038	· ·	-	- 1
SRIA Fre Cat <td></td> <td></td> <td></td> <td></td> <td></td> <td>Bottom</td> <td>8.2</td> <td>0.4</td> <td>301</td> <td>17.6</td> <td>17.6</td> <td>8.3</td> <td>8.3</td> <td>30.1</td> <td>30.1</td> <td>110.0</td> <td>100.0</td> <td>8.8</td> <td>5.8</td> <td>1</td> <td>3</td> <td></td> <td>-</td> <td>1</td> <td></td> <td></td> <td>-</td> <td>-</td> <td>i</td>						Bottom	8.2	0.4	301	17.6	17.6	8.3	8.3	30.1	30.1	110.0	100.0	8.8	5.8	1	3		-	1			-	-	i
New hole Per hole A.h M.dafe 1.0				-				- 0.4	313									8.7	5.6				-		1	1	-	-	
								-	-		17.7	8.3	0.3	29.9	29.9	105.8	106.0			-			•					-	ł
N N	SR1A	Fine	Calm	06:45	5.1	Middle	2.6	-	-	-	-	-	-	-	-	-		-	-	3.5		4	-	-	819977	812660		-	į -
						Bottom			-		17.8		8.3		30.2					+			-	1					ł.
Preprint Preprint <th< td=""><td></td><td></td><td></td><td></td><td></td><td>Surface</td><td></td><td></td><td></td><td></td><td>17.6</td><td></td><td>8.3</td><td></td><td>29.9</td><td></td><td></td><td>8.8</td><td>4.4</td><td>-</td><td></td><td></td><td>-</td><td>-</td><td></td><td></td><td>-</td><td>-</td><td>ł</td></th<>						Surface					17.6		8.3		29.9			8.8	4.4	-			-	-			-	-	ł
Image: bord bord bord bord bord bord bord bord	SR2	Fine	Moderate	06:32	4.4	Middle		-		-		-		-		-		- 8.8	-	4.9	-	4			821460	814187	· .	-	į .
SR3 Fiel Moderale 0.7.4 6.8.4 0.1.4 0.8.4 <th< td=""><td></td><td></td><td></td><td></td><td></td><td>Bottom</td><td>- 3.4</td><td>- 0.2</td><td></td><td></td><td>17.6</td><td></td><td></td><td></td><td>20.0</td><td></td><td></td><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td>-</td><td>1</td></th<>						Bottom	- 3.4	- 0.2			17.6				20.0					1							-	-	1
SR8 Free And And And 10																107.1		8.6	5.4				-		1		-		
Sci ind Moderate 0 / 4 8.8 Moderate 1 / 4 0 / 4 0 / 4 0 / 4 0 / 4 0 / 4 0 / 4 0 / 4 0 / 4 0 / 4 0 / 4 0 / 4 0 / 4 0 / 4 0 / 4 0 / 4 0 / 4 0 / 7 <th< td=""><td></td><td></td><td></td><td></td><td></td><td>Surface</td><td></td><td>0.1</td><td>8</td><td>17.8</td><td>17.8</td><td>8.3</td><td>8.3</td><td>28.5</td><td>28.4</td><td>115.7</td><td>115.9</td><td>9.3</td><td>1.1</td><td>1</td><td></td><td></td><td></td><td>1</td><td></td><td></td><td>-</td><td>-</td><td>i</td></th<>						Surface		0.1	8	17.8	17.8	8.3	8.3	28.5	28.4	115.7	115.9	9.3	1.1	1				1			-	-	i
ind ind <td>SR3</td> <td>Fine</td> <td>Moderate</td> <td>07:46</td> <td>8.8</td> <td>Middle</td> <td>4.4</td> <td>0.2</td> <td>43</td> <td>17.6</td> <td>17.6</td> <td>8.3</td> <td>8.3</td> <td>28.8</td> <td>28.8</td> <td>113.5</td> <td>113.7</td> <td>9.1</td> <td>4.2</td> <td>3.2</td> <td>5</td> <td>6</td> <td></td> <td>-</td> <td>822161</td> <td>807578</td> <td>· ·</td> <td>-</td> <td>í -</td>	SR3	Fine	Moderate	07:46	8.8	Middle	4.4	0.2	43	17.6	17.6	8.3	8.3	28.8	28.8	113.5	113.7	9.1	4.2	3.2	5	6		-	822161	807578	· ·	-	í -
SR4 Clow A A A <td></td> <td></td> <td></td> <td></td> <td></td> <td>Bottom</td> <td></td> <td></td> <td></td> <td></td> <td>17.6</td> <td></td> <td>8.3</td> <td></td> <td>29.0</td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td>-</td> <td>-</td> <td></td> <td></td> <td>-</td> <td>-</td> <td>ł</td>						Bottom					17.6		8.3		29.0					-			-	-			-	-	ł
SRA Calm 66:0 7.6 Midde 4.3 0.0 66:0 17.6 <t< td=""><td></td><td></td><td></td><td></td><td></td><td>Surface</td><td></td><td></td><td></td><td></td><td>17.6</td><td></td><td>8.1</td><td></td><td>32.3</td><td></td><td></td><td></td><td></td><td>-</td><td>6</td><td></td><td>•</td><td></td><td></td><td></td><td>-</td><td>-</td><td>ł</td></t<>						Surface					17.6		8.1		32.3					-	6		•				-	-	ł
Image: brain	SR4A	Cloudy	Calm	06:12	8.6	Middle	4.3	0.2	65	17.6	17.6	8.1	8.1	32.3	32.3	115.4	115.4	9.1 9.2	2.0	2.0	5	5			817191	807807	<u> </u>	-	Ĺ.
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SRA Cloudy Caim Objection Count Cloudy Count Cloudy Cloudy Caim Count																		8.7	2.0	1			•	I	-		-		<u> </u>
SR5A Cloudy Calm 06:00 3.1 Middle - <td></td> <td></td> <td></td> <td></td> <td></td> <td>Surface</td> <td>1.0</td> <td>0.1</td> <td>133</td> <td>17.8</td> <td>17.8</td> <td>8.1</td> <td>8.1</td> <td></td> <td>31.8</td> <td></td> <td></td> <td>8.7 8.7</td> <td>1.8</td> <td>1</td> <td>4</td> <td></td> <td>-</td> <td>İ.</td> <td></td> <td></td> <td>-</td> <td>-</td> <td>İ</td>						Surface	1.0	0.1	133	17.8	17.8	8.1	8.1		31.8			8.7 8.7	1.8	1	4		-	İ.			-	-	İ
Image: bolic	SR5A	Cloudy	Calm	06:00	3.1	Middle	-	_			-	-	•	-	-	-	- -	-	-	1.8		4	-		816595	810693			-
SR6A Cloudy Calm 05:16 3.9 Surface 1.0 0.0 233 17.5 17.5 8.1 8.1 31.7 31.7 111.2 11.2 8.8 2.2 6 7 6 7						Bottom					17.8		8.0		31.8					-			•	-				-	ł
SR6A Cloudy Calm 0.5:16 3.9 Image: constraint of the section of t						Surface	1.0	0.0	233	17.5	17.5	8.1	8.1	31.7	31.7	111.2	111.2	8.8	2.2		6		-						-
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	SPEA	Cloudy	Colm	05:16	2.0	Middlo	1.0	- 0.0	- 244	17.5		8.1		31.7		111.1		- 8.8	- 2.3	25	-	-	-		917095	914722	-	-	1
Image: cond binary regions in the second s	SKOA	Cibudy	Califi	05.10	3.5		- 29	-	- 240	- 17.5		- 81		-		-		- 87	. 27	2.5	- 4		•		017905	014/33		•	ł
SR7 Fine Calm 05:46 18.1 Surface 10 0.0 334 17.3 8.2 8.2 30.5 10.8 10.8.1 10.8.1 7 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td>Bottom</td> <td>2.9</td> <td>0.0</td> <td>240</td> <td>17.5</td> <td>17.5</td> <td>8.1</td> <td>8.1</td> <td>31.8</td> <td>31.8</td> <td>109.8</td> <td>109.9</td> <td>8.7 0.7</td> <td>2.7</td> <td></td> <td>3</td> <td></td> <td>-</td> <td><u> </u></td> <td></td> <td></td> <td>-</td> <td>-</td> <td><u> </u></td>						Bottom	2.9	0.0	240	17.5	17.5	8.1	8.1	31.8	31.8	109.8	109.9	8.7 0.7	2.7		3		-	<u> </u>			-	-	<u> </u>
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$						Surface	1.0	0.0	334	17.3	17.3	8.2	8.2	30.5	30.4	108.4	108.5	8.7 8.7	2.4	1	7		-				-		Í
SR8 Fine Calm 07.07 4.8 Middle 17.1 0.2 33 17.3 17.3 8.2 8.2 30.5 107.2	SR7	Fine	Calm	05:46	18.1	Middle					17.3		8.2		30.5			8.6	3.1	3.2		6	-	-	823634	823756			-
SR8 Fine Calm 07:07 4.8 1.0 - - 1.7 17.7 8.3 8.3 29.5 111.4 11.4 8.9 4.9 5 -						Bottom	17.1	0.2		17.3	17.3	8.2	8.2	30.5	30.5	107.2	107.2	8.6 8.6	4.2	1	5						-	-	ŧ
SR8 Fine Calm 07:07 4.8 Image: Calman product of the state of the						Surface	1.0	-	-	17.7	17.7	8.3	8.3	29.5	29.5	111.4	111.4	8.9	4.9		5				1	1	-	-	_
Site Califi 0.07 4.0 million -	000		0.1					-				8.3		29.5	20.0	- 111.4		8.9 8.9		-	4	_	-				-		ł
	248	rine	Calm	07:07	4.8		-			-	-	-	<u> </u>	- 20.9	-	-		-	-	5.5		D	•	· ·	820386	811601		-	÷
						Bottom		-	-		17.7		8.3		29.8												-		İ.

Expansion of Hong Kong International Airport into a Three-Runway System Water Quality Monitoring Water Quality Monitoring Results on 28 January 21 during M 28 January 21 during Mid-Ebb Tide

			ults on		28 January 21	during Mid		Ģ																				
wonitoning	Weather	Sea	Sampling	Water	Sampling Dep	th (m)	Current Speed	Current	Water Te	mperature (°C)		pН	Salir	nity (ppt)	DO S	aturation (%)	Dissolved Oxygen	Turbidity	(NTU)	Suspender (mg/		Total A (pp	ukalinity om)	Coordinate HK Grid	Coordinate HK Grid	Chromii (µg/L		ckel (µg
Station	Condition	Condition	Time	Depth (m)			(m/s)	Direction	Value	Average	Value	Average		Average	Value	•	alue DA	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)	Value	DA Valu	lue D
					Surface	1.0	0.0	223 240	17.8 17.7	17.8	8.3 8.3	8.3	30.7 30.8	30.8	121.7 121.3		9.6	2.0		7		-	-			<u> </u>	-	
C1	Cloudy	Moderate	12:30	7.9	Middle	4.0	0.1	80 80	17.5 17.5	17.5	8.3 8.3	8.3	31.3 31.3	31.3	114.1		9.0 9.1 9.0	2.6	2.3	5	6	•		815615	804264	\square		-
					Bottom	6.9	0.1	190	17.5	17.5	8.2	8.2	31.3	31.3	114.2	11/1 3	9.1 9.1	2.5		5		-	1				-	
+						6.9 1.0	0.1	197 255	17.5 18.2		8.2 8.4		31.3		114.3 127.1		9.1	2.4		5 5		-				-	-	
					Surface	1.0	0.1	274	18.2	18.2	8.4	8.4	27.7	27.7	126.9	127.0	0.1	1.3		6		-	1			- I	-	
C2	Fine	Moderate	11:16	11.6	Middle	5.8 5.8	0.3	51 51	18.0 18.0	18.0	8.3 8.3	8.3	28.7 28.8	28.8	120.3 119.9	120.1	9.6 9.5	2.2 2.3	2.2	6	5			825697	806922	-		
					Bottom	10.6	0.4	66 68	18.0 18.0	18.0	8.3 8.3	8.3	29.5 29.5	29.5	117.2		9.3 9.3	3.1 3.0		5		-	-			-	-	_
					Surface	1.0	0.4	69	18.5	18.5	8.3	8.3	29.6	29.6	119.5	110.6	9.4	1.1		7		-				-	-	
<u></u>	Fire	Madamia	10.00	40.4		1.0	0.4	71 75	18.4 18.0		8.3 8.3		29.6 29.8		119.6 114.4		9.4 9.1	1.2 1.3	4.2	6 6		-		000404	047000	-	-	
C3	Fine	Moderate	13:23	12.4	Middle	6.2 11.4	0.4	80 63	18.0 17.7	18.0	8.3 8.2	8.3	29.8 30.3	29.8	114.3 107.9		9.1	1.3 1.2	1.2	7 6	6	-	1 -	822131	817809	-	-	
					Bottom	11.4	0.3	69	17.7	17.7	8.2	8.2	30.3	30.3	108.0	108.0	8.6	1.2		6						-	-	
					Surface	1.0	0.1	213 219	18.1 18.0	18.1	8.3 8.3	8.3	30.9 30.9	30.9	120.8 120.6		9.5	1.5 1.5		6 5		-				-	-	
IM1	Cloudy	Moderate	12:09	4.6	Middle		-	-	-		-	-	-	-	-		- 9.5	-	2.1	-	5	-	l .	817936	807142			
					Bottom	3.6	- 0.1	- 224	- 17.9	17.9	- 8.3	8.3	- 31.0	31.0	- 118.5		- 9.3 9.3	2.8		- 5		-	1			-	-	
						3.6	0.1	241 53	17.9 17.9		8.3 8.3		31.0 30.6		118.2		9.3 9.6	2.6		4						•	-	
					Surface	1.0	0.1	57	17.9	17.9	8.3	8.3	30.6	30.6	121.8	121.9	9.6	2.4		5		-	1				-	-
IM2	Cloudy	Moderate	12:00	6.8	Middle	3.4 3.4	0.1	90 96	17.9 17.9	17.9	8.3 8.3	8.3	30.5 30.6	30.6	121.2 121.1		9.6 9.6	2.5 2.3	2.5	6 7	7	-	-	818144	806163		· ·	
					Bottom	5.8 5.8	0.1	105 109	17.8 17.8	17.8	8.3 8.3	8.3	30.7 30.7	30.7	114.1 113.7		9.0 9.0	2.7 2.9		8 8		•	-				-	
					Surface	1.0	0.1	54	17.9	17.9	8.3	8.3	30.6	30.6	121.9	121.8	9.6	2.4		7		-				-	-	-
	0			7.0		1.0	0.1	55 326	17.9 17.8		8.3 8.3		30.6 30.6		121.7		9.6 9.6	2.5	2.5	8	-	-		040007	005007	-	-	_
IM3	Cloudy	Moderate	11:53	7.0	Middle	3.5	0.0	348 246	17.8 17.8	17.8	8.3 8.3	8.3	30.6 30.6	30.6	120.6 117.8		9.5	2.5 2.8	2.5	7 5	'	-	-	818807	805607	-	-	
					Bottom	6.0	0.0	249	17.8	17.8	8.3	8.3	30.6	30.6	117.4	117.6	9.3	2.6		6						-	-	
					Surface	1.0	0.1	343 316	17.9 17.8	17.9	8.3 8.3	8.3	30.6 30.6	30.6	122.2		9.7	2.0		6		-	-			-	-	
IM4	Cloudy	Moderate	11:43	8.1	Middle	4.1	0.1	12 12	17.7 17.7	17.7	8.3 8.3	8.3	30.6	30.6	120.9 120.7		9.6 9.6	2.3 2.3	2.2	7	7	•	1.	819708	804612			
					Bottom	7.1	0.1	353	17.7	17.7	8.3	8.3	30.6 30.6	30.6	119.2	110.1	9.4 9.4	2.3		7		-	1				-	
						7.1	0.1	325	17.7 18.0		8.3 8.3		30.6 30.5		119.0 122.3		9.4 9.7	2.3		7 4		-				+ - +		
					Surface	1.0	0.3	7	18.0	18.0	8.3	8.3	30.5	30.5	122.0	122.2	9.6	2.5		4		-	1				-	-
IM5	Cloudy	Moderate	11:35	7.5	Middle	3.8 3.8	0.2	11 11	17.9 17.9	17.9	8.3 8.3	8.3	30.5 30.5	30.5	119.4 119.2		9.4 9.4	2.7 2.7	2.5	4	5	-	-	820732	804862	-		
					Bottom	6.5 6.5	0.1	12 12	17.9 17.9	17.9	8.3 8.3	8.3	30.5 30.5	30.5	117.0		9.3 9.2 9.3	2.3		6 7		-				-	-	7
					Surface	1.0	0.1	295	17.9	17.9	8.3	8.3	29.4	29.5	121.1	120.9	9.6	0.1		6		-				-	-	-
	011			7.0		1.0	0.1	303 61	17.9 17.9		8.3 8.3		29.5 30.3		120.7 118.3		9.6 9.4 9.5	0.1		5	7	-	1	004050		-	-	
IM6	Cloudy	Moderate	11:27	7.3	Middle	3.7 6.3	0.1	66 107	17.9 17.9	17.9	8.3 8.3	8.3	30.3 30.4	30.3	118.1 116.6		9.3	0.9	0.6	5 9	'	-	1 -	821053	805841	-	· ·	7
					Bottom	6.3	0.0	113	17.9	17.9	8.3	8.3	30.4	30.4	116.0	116.3	9.2	0.9		9							-	
					Surface	1.0	0.1	229 240	17.9 17.9	17.9	8.4 8.4	8.4	28.8	28.8	122.4		9.8	0.7		7		-				-	-	
IM7	Cloudy	Moderate	11:15	8.3	Middle	4.2	0.1	116	17.8	17.8	8.4	8.4	30.3	30.3	118.3	118.2	9.4 9.6	1.3	1.5	5	6	-	1.	821371	806823	-		
					Bottom	4.2 7.3	0.1	118 152	17.8 17.8	17.8	8.4 8.4	8.4	30.3 30.6	30.6	118.1 117.3	117.3	9.4 9.3 9.3	1.1 2.6		5 5			1			-		
 						7.3	0.1	156 59	17.8 18.0		8.4 8.3		30.6 27.9		117.2		9.3 9.8	2.7		5 3		-				-	-	-
					Surface	1.0	0.1	62	18.0	18.0	8.3	8.3	28.0	27.9	122.2	122.2	9.8 9.7	1.5		4		-	1				-	-
									18.0								9.6			4		-	1			1 - I	-	
IM8	Fine	Moderate	11:38	7.8	Middle	3.9 3.9	0.2	69 70	18.0	18.0	8.3 8.3	8.3	28.8 28.9	28.8	120.5 120.3		9.6	2.4	2.2	5	4	-	-	821846	808145	-		

Expansion of Hong Kong International Airport into a Three-Runway System Water Quality Monitoring Water Quality Monitoring Results on 28 January 21 during M 28 January 21 during Mid-Ebb Tide

Water Qua	lity Moni	toring Res	ults on		28 January 21	during Mid		е					-										-				
Monitoring	Weather	Sea	Sampling	Water	Sampling De	oth (m)	Current Speed	Current	Water Te	mperature (°C)		pН	Salin	ity (ppt)	DOS	Saturation (%)	Dissolved Oxygen	Turbidity	(NTU)	Suspende (mg.	d Solids /L)	Total Alkalinit (ppm)	Coordinate HK Grid	HK Grid	Chron (µg/		Nickel (µg/L)
Station	Condition	Condition	Time	Depth (m)			(m/s)	Direction	Value	Average	Value	Average	Value	Average		-	alue DA	Value	DA	Value	DA	Value DA	(Northing)	(Easting)	Value	DA V	Value DA
					Surface	1.0	0.3	72	18.1 18.0	18.1	8.3 8.3	8.3	27.9 27.9	27.9	121.8		9.8	1.4	┥┝	3		-			-	-	<u>.</u>
IM9	Fine	Moderate	11:43	7.4	Middle	3.7	0.3	84	18.0	18.0	8.3	8.3	28.8	28.8	119.4	110.2	9.5 9.6	1.8	1.8	4	4	· .	822115	808830	-	. F	· .
			_			3.7 6.4	0.3	87 88	18.0 18.0		8.3 8.3		28.9 29.2		119.1 115.9		9.5 9.2 0.2	1.9 2.3		4		-			-	-	-
					Bottom	6.4	0.3	89	18.0	18.0	8.3	8.3	29.2	29.2	115.7	115.0	9.2	2.3		4		-			-		
					Surface	1.0	0.5	72 73	18.2 18.2	18.2	8.3 8.3	8.3	27.6 27.6	27.6	123.7 123.5		9.9	1.0	+ +	5 4		-			-	_	-
IM10	Fine	Moderate	11:50	7.0	Middle	3.5 3.5	0.4	75 78	18.0 18.0	18.0	8.3 8.3	8.3	28.1 28.1	28.1	118.7 118.4		9.5 9.5	1.3 1.4	1.2	3	4	· .	822389	809813	-	- F	<u> </u>
					Bottom	6.0	0.1	94	18.1	18.1	8.3	8.3	29.2	20.2	116.6	116.5	9.2 0.2	1.4	t E	4		-			-		-
					Dottom	6.0	0.1	102 120	18.1 18.1		8.3 8.3	0.0	29.2 29.4		116.4		9.2 9.4	1.4		3		-	<u> </u>		-		-
					Surface	1.0	0.2	123	18.1	18.1	8.3	8.3	29.4	29.4	118.0	110.1	9.4 9.4	1.4	1 1	2		-			•		-
IM11	Fine	Moderate	12:01	8.9	Middle	4.5	0.2	115 116	18.1 18.1	18.1	8.3 8.3	8.3	29.4 29.4	29.4	117.0 116.9		9.3 9.3	1.3	1.4	4	4	· ·	822061	811474	-		<u>.</u> .
					Bottom	7.9	0.2	104	18.1	18.1	8.3	8.3	29.4	29.4	114.6	114.5	9.1 0.1	1.3		5		-			-		-
						7.9	0.2	108 92	18.1 18.4		8.3 8.3		29.4 29.4		114.4		9.1	1.4		5		-			-		-
					Surface	1.0	0.2	101	18.4	18.4	8.3	8.3	29.4	29.4	121.1	121.2	9.6	1.4	1	6		-			-	F	-
IM12	Fine	Moderate	12:08	9.3	Middle	4.7	0.1	127 128	18.2 18.2	18.2	8.3 8.3	8.3	29.4 29.4	29.4	119.8 119.8		9.5 9.5	1.3 1.3	1.4	4	5		821473	812061	-		
					Bottom	8.3 8.3	0.1	109 113	18.1 18.1	18.1	8.3 8.3	8.3	29.4 29.4	29.4	117.4 117.2		9.3 9.3	1.3 1.3	1 F	4		-			-	F	-
					Surface	1.0	-	-	18.4	18.4	8.3	8.3	29.3	29.3	117.1	116.0	9.2	1.7		3		-			-	<u> </u>	-
						1.0	-	•	18.4	10.4	8.3	0.0	29.4	20.0	116.7	110.5	9.2 9.2	1.7	+ +	3		-			-	-	-
SR1A	Fine	Calm	12:46	4.8	Middle	2.4	-	-	-	-	-	-	-	-	-		-	-	1.8	-	3	-	819977	812659	-		-
					Bottom	3.8	-	-	18.3 18.3	18.3	8.3 8.3	8.3	29.5 29.5	29.5	114.3		9.0 9.0	1.9	┥┝	3		-			-	-	-
					Surface	1.0	0.2	76	18.2	18.2	8.3	8.3	29.4	29.4	121.0		9.6	1.4		4		-			-		-
SR2	Fine	Moderate	13:03	4.5	Middle	1.0	0.2	- 79	18.2		8.3		29.4		121.1		9.6 9.6	1.4	1.5	-	3	-	821443	814185	-		-
31/2	Fille	wouerate	13.03	4.5	widdie	- 3.5	- 0.2	- 82	- 18.2	-	- 8.3		- 29.4	-	- 121.5		9.6	- 1.6		- 3			021443	014105	-	· F	<u> </u>
					Bottom	3.5	0.2	89	18.2	18.2	8.3	8.3	29.4	29.4	121.4	121.5	9.6	1.7		2		-			-		-
					Surface	1.0	0.0	209 215	18.1 18.1	18.1	8.3 8.3	8.3	27.8 27.9	27.9	123.5 123.5		9.9 9.9	1.3 1.3	+ +	4		-			-	F	-
SR3	Fine	Moderate	11:32	9.1	Middle	4.6	0.1	103	18.1	18.1	8.3	8.3	28.4	28.5	121.3	121.2	9.7 9.8	2.2	2.4	4	4	-	822139	807593	-	. =	· .
						4.6 8.1	0.1	105 89	18.1 18.0		8.3 8.3		28.5 29.3		121.0		9.6	2.3	+ - +	4		-			-	F	-
					Bottom	8.1	0.3	89	18.0	18.0	8.3	8.3	29.3	29.3	117.5	117.6	9.3 9.4	3.6		3		-			-		-
					Surface	1.0	0.2	84 84	18.0 17.9	18.0	8.3 8.3	8.3	30.5 30.6	30.5	122.3 122.0		9.7 9.6 9.6	2.3 2.3	1	8		-			-	-	-
SR4A	Cloudy	Moderate	12:53	9.3	Middle	4.7	0.2	71 74	17.9 17.9	17.9	8.3 8.3	8.3	30.6 30.6	30.6	120.5 120.4		9.5 9.5	2.0	2.1	7	7	· ·	817182	807815	•		
					Bottom	8.3	0.2	70	17.8	17.8	8.3	8.3	30.6	30.6	118.4	110.4	9.4 0.4	2.0	1 1	5		-			-		-
						8.3	0.2	74 342	17.8 18.9		8.3 8.3		30.6 30.9		118.3		9.4 9.4	1.9 1.4		6		-			-		-
					Surface	1.0	0.0	315	18.9	18.9	8.3	8.3	30.9	30.9	121.6		9.4 9.4	1.4	1	5		-			•	Þ	-
SR5A	Cloudy	Calm	13:09	3.2	Middle	-	-	-	-	-	-	-	-	-	-	┨ - ┝	-	-	1.3	-	5	· ·	816601	810693	-	- -	
					Bottom	2.2	0.1	89 90	18.9 18.9	18.9	8.3 8.3	8.3	30.8 30.8	30.8	120.4 120.2		9.3 9.3	1.2 1.3	ļļ	4 5		-			-	F	-
					Surface	1.0	0.0	204	18.3	18.3	8.4	8.4	30.7	30.7	120.5	120.5	9.4	1.3		7		-		1	-		-
						1.0	0.0	223	18.3		8.4	0.4	30.7	30.7	120.4	120.0	9.4 9.4	1.3	ŧ, ⊨	7		-			-	F	-
SR6A	Cloudy	Calm	13:39	4.2	Middle	-	-	-	-	-	-	-	-	-	-	· -	-	-	1.2	-	7	-	817979	814740	-	· [· ·
					Bottom	3.2	0.0	250 270	18.2 18.2	18.2	8.4 8.4	8.4	30.8 30.8	30.8	119.5 119.4		9.4 9.4 9.4	1.2	┥┝	6		-			-	⊢	-
					Surface	1.0	0.5	60	17.9	17.9	8.3	8.3	30.0	30.0	111.1	111.0	8.8	1.2		4				İ	-	-	-
SR7	Fine	Moderate	13:51	15.6	Middle	1.0 7.8	0.6	60 65	17.9 17.8	17.8	8.3 8.3		30.0 30.1	20.1	110.9 108.7		8.8 8.6 8.7	1.2	1.1	5 5	5	-	823626	823735	-	⊢	-
3K/	FINE	iviouerate	13:51	10.0		7.8	0.4	65 34	17.8 17.8		8.3 8.3	8.3	30.2 30.2		108.6	108.7	8.6	1.0	1 '' F	5	р - С	· ·	023020	023/35	-	· F	-
					Bottom	14.6	0.2	34 37	17.8	17.8	8.3	8.3	30.2	30.2	107.2 107.2	107.2	8.5 8.5	1.0		5		-					-
					Surface	1.0	-	-	18.5 18.5	18.5	8.3 8.3	8.3	29.3 29.3		121.6 121.7		9.6	2.2	↓	4					•	F	-
SR8	Fine	Moderate	12:18	4.6	Middle	-	-	-			-	-	-	-	-		- 9.6	-	2.0	-	4	<u> </u>	820402	811603	-	. E	<u> </u>
2110						- 3.6	-	-	- 18.3		- 8.3		- 29.3		- 121.1		9.6 0.0	- 1.7	+ +	- 4		-		211000	-	⊢	-
					Bottom	3.6			18.3	18.3	8.3	8.3	29.3	29.3	121.0	121.1	9.6 9.6	1.8		3		-					-

Expansion of Hong Kong International Airport into a Three-Runway System Water Quality Monitoring Water Quality Monitoring Results on 28 January 21 during M 28 January 21 during Mid-Flood Tide

Water Qua	ity Moni	toring Res	ults on		28 January 21	during Mid		ide					-																	_
Monitoring	Weather	Sea	Sampling	Water	Sampling Dep	oth (m)	Current Speed	Current	Water Te	emperature (°C)		pН	Salir	ity (ppt)	DO S	Saturation (%)	Dissolv Oxyge		Turbidity(NTU)	Suspende (mg/		Total A (pp	Alkalinity pm)	Coordinate HK Grid	Coordinate HK Grid	Chrom (µg/l		Nickel	(µg/L
Station	Condition	Condition	Time	Depth (m)			(m/s)	Direction	Value	Average	Value	Average		Average		Average		DA	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)	Value	DA	Value	DA
					Surface	1.0	0.4	52 54	17.7 17.7	17.7	8.4 8.4	8.4	30.5 30.6	30.5	118.1	117.9	9.4 9.3		3.2 3.4	ŀ	6		-	+			-	-	-	
C1	Cloudy	Calm	08:32	7.8	Middle	3.9	0.4	40	17.6	17.6	8.4	8.4	30.9	30.9	116.3	116.2	9.2	9.3	5.6	5.9	7	7	•	1.	815622	804266	-		-	
	-				Bottom	3.9 6.8	0.4	41 26	17.6 17.6	17.6	8.4 8.4	8.4	30.9 31.0	31.0	116.1 115.4	115.4	9.2 9.2	9.2	5.5 8.8	ŀ	6 7		-	1			-	E	-	
					Bollom	6.8 1.0	0.3	27 358	17.6 18.0	17.0	8.4 8.3	0.4	31.0 27.7	51.0	115.4		9.1 9.8	9.2	8.9 1.5		7 3		-	<u> </u>		-	-		-	
					Surface	1.0	0.3	329	18.0	18.0	8.3	8.3	27.7	27.7	121.7	121.8	9.8	9.6	1.5		3		-	1				t	-	
C2	Cloudy	Moderate	09:29	11.8	Middle	5.9 5.9	0.3	359 330	17.9 17.9	17.9	8.3 8.3	8.3	27.9 28.0	28.0	118.3	118.1	9.5 9.4		1.7 1.8	2.2	4	3	-		825683	806930	-		-	-
					Bottom	10.8 10.8	0.2	33 33	17.9 17.9	17.9	8.3 8.3	8.3	28.8 28.8	28.8	114.4	114.4	9.1 9.1	9.1	3.3 3.4	ļ	4			1			-	F	•	
					Surface	1.0	0.5	286	18.0	18.0	8.3	8.3	29.4	29.4	115.0	114.9	9.1		1.6		4		-				-	-	-	
						1.0 5.4	0.5	291 288	18.0 18.0		8.3 8.2	-	29.4 29.7		114.7 112.6		9.1 8.9	9.0	1.6 2.2		5 5		-	-			-	-	-	
C3	Cloudy	Moderate	07:17	10.7	Middle	5.4	0.5	298	17.9	18.0	8.2	8.2	29.7	29.7	112.5	112.6	8.9		2.2	3.7	5	5	-	1 -	822099	817818	·		-	-
					Bottom	9.7 9.7	0.4	285 294	17.9 17.9	17.9	8.2 8.2	8.2	29.8 29.8	29.8	110.9 110.7	110.8	8.8 8.8	8.8	7.0 7.5	-	5 6		-				-		-	
					Surface	1.0	0.1	1	17.7 17.7	17.7	8.3 8.3	8.3	30.9 30.9	30.9	115.5 115.3	115.4	9.1 9.1	-	0.5 0.6		4 5		-	-			-	-	-	
IM1	Cloudy	Calm	08:52	4.6	Middle	-	-	-	-		-		-		-		-	9.1	-	0.8	-	4	-	1.	817926	807151	-		-	
	,				Datter	- 3.6	- 0.1	- 5	- 17.7	17.7	- 8.4		- 30.9	20.0	- 113.8	442.0	- 9.0		- 1.1	-	- 4		-	+			-	-	-	
					Bottom	3.6 1.0	0.2	5 11	17.7 17.9	17.7	8.4 8.3	8.4	30.9 30.4	30.9	113.7	113.8	9.0 9.4	9.0	1.1 5.2		4 9		-	1		-	•		-	
					Surface	1.0	0.2	11	17.9	17.9	8.3	8.3	30.4	30.4	118.9	119.0	9.4	9.4	5.2		9		-	1			· ·	Ŀ	-	
IM2	Cloudy	Moderate	09:00	6.5	Middle	3.3	0.2	3	17.9 17.9	17.9	8.3 8.3	8.3	30.4 30.4	30.4	118.1 117.9	118.0	9.3 9.3	-	5.9 6.0	5.7	5 5	6	-		818158	806167	-		-	-
					Bottom	5.5	0.1	343	17.9	17.9	8.3	8.3	30.5	30.5	116.7	116.7	9.2	9.2	5.9	ļ	5		-	1			-	Ē	-	
					Surface	5.5	0.1	316 350	17.9 17.8	17.8	8.3 8.3	8.3	30.5 30.4	30.4	116.6 118.5	118.5	9.2 9.4		6.0 4.6		4 5		-				-	-t	-	
						1.0	0.2	352 355	17.8 17.8		8.3 8.3		30.4 30.4		118.4		9.4 9.3	9.4	4.6 5.1	F	6		-	-			-	-	-	
IM3	Cloudy	Moderate	09:07	6.8	Middle	3.4	0.2	327	17.8	17.8	8.3	8.3	30.4	30.4	117.2	117.3	9.3		5.2	5.1	7	7	-	1 -	818788	805600	-		-	-
					Bottom	5.8 5.8	0.2	339 312	17.8 17.8	17.8	8.3 8.3	8.3	30.4 30.4	30.4	116.0 115.9	116.0	9.2 9.2	9.2	5.6 5.5	-	10 10		-				-		-	
					Surface	1.0	0.4	353 325	17.8 17.8	17.8	8.3 8.3	8.3	30.3 30.3	30.3	116.8	116.8	9.3 9.3	-	3.4 3.4	-	6		•	-			-	-	-	
IM4	Cloudy	Moderate	09:16	8.0	Middle	4.0	0.4	354	17.8	17.8	8.3	8.3	30.3	30.3	116.2	116.2	9.2	9.3	3.7	3.9	7	7	-	1.	819708	804618	· .		-	
						4.0 7.0	0.4	326 352	17.8 17.8		8.3 8.3		30.3 30.3		116.1 115.4		9.2 9.2		3.7 4.4		8		-	-			-	-	-	
					Bottom	7.0	0.4	324 14	17.8 17.8	17.8	8.3 8.3	8.3	30.3 30.5	30.3	115.2	115.3	9.1 9.3	9.2	4.6 3.7		8		•	<u> </u>			-		-	
					Surface	1.0	0.7	14	17.8	17.8	8.3	8.3	30.5	30.5	117.7	117.8	9.3	9.3	3.8		9		-	1				t	-	
IM5	Cloudy	Moderate	09:23	7.3	Middle	3.7	0.6	15 15	17.8 17.8	17.8	8.3 8.3	8.3	30.5 30.5	30.5	116.7	116.6	9.2 9.2		7.5 7.7	6.9	9 9	8	-		820734	804880	-		-	-
					Bottom	6.3 6.3	0.5	17 17	17.8 17.8	17.8	8.3 8.3	8.3	30.5 30.5	30.5	115.7	115.7	9.2 9.2	9.2	9.3 9.6	ļ	7		-	1			<u>·</u>	F	-	
					Surface	1.0	0.1	76	17.8	17.8	8.3	8.3	29.7	29.7	118.8	118.8	9.5		0.6		5							<u> </u>	-	
	a					1.0	0.1	76 68	17.8 17.8		8.3 8.3		29.7 30.4		118.7		9.4 9.3	9.4	0.7		6	_	-	+			-	-	-	
IM6	Cloudy	Moderate	09:31	7.0	Middle	3.5 6.0	0.1	68 52	17.8 17.8	17.8	8.3 8.3	8.3	30.5 30.6	30.5	117.1	117.2	9.3		1.8 1.6	1.3	7	7	-	1 -	821041	805845	<u> </u>		-	-
					Bottom	6.0	0.2	52	17.8	17.8	8.3	8.3	30.6	30.6	116.4	116.4	9.2 9.2	9.2	1.6 1.6		8						-	-	-	
					Surface	1.0	0.1	40 42	17.8 17.8	17.8	8.3 8.3	8.3	29.0 29.0	29.0	120.5 120.3	120.4	9.6 9.6		1.6 1.6		5 4		-	+			-	-	-	
IM7	Cloudy	Moderate	09:40	8.2	Middle	4.1	0.1	121	17.8	17.8	8.3	8.3	29.3	29.3	118.8	118.8	9.5	9.6	3.1	2.2	4	4	-	1.	821342	806824	-	- 4	-	-
					Bottom	4.1 7.2	0.1	125 114	17.8 17.8	17.8	8.3 8.3	8.3	29.3 30.6	30.6	118.7 116.4	116.3	9.5 9.2	0.2	3.5 1.7	ŀ	3		-	1			-	⊢	-	
						7.2	0.1	123 195	17.8 18.0		8.3 8.3		30.6 27.7		116.1 121.8		9.2 9.8	9.2	1.7 1.2		3						•	<u> </u>	-	
					Surface	1.0	0.1	211	18.0	18.0	8.3	8.3	27.7	27.7	121.8	121.8	9.8	9.8	1.2		4		-	1			-	Ľ	-	
IM8	Cloudy	Moderate	09:03	7.3	Middle	3.7	0.1	169 171	18.0 18.0	18.0	8.3 8.3	8.3	27.7	27.7	121.4 121.4	121.4	9.7 9.7		1.4 1.4	1.3	4	4	-	-	821811	808119		- -	-	-
					Bottom	6.3	0.1	201	18.0	18.0	8.3	8.3	27.8	27.8	120.0	119.9	9.6	9.6	1.3	ļ	4		-	1			-	F	-	
DA: Depth-Aver		1	1		1	6.3	0.1	214	18.0		8.3	I	27.8		119.8	1	9.6		1.3		5		-	I	1	I	<u> </u>		-	_

Expansion of Hong Kong International Airport into a Three-Runway System Water Quality Monitoring Water Quality Monitoring Results on 28 January 21 during M 28 January 21 during Mid-Flood Tide

Water Qua	lity Moni	toring Res	ults on		28 January 21	during Mid		ide			-															r		
Monitoring Station	Weather	Sea	Sampling	Water	Sampling De	oth (m)	Current Speed	Current Direction	Water Te	emperature (°C)		рН	Sali	ity (ppt)	DO S	aturation (%)	Dissolved Oxygen	Turbidit	y(NTU)	Suspende (mg	/L)	Total A (pp	ѓ	Coordinate HK Grid	HK Grid	Chromiun (µg/L)	Nicke	el (µg/L
Station	Condition	Condition	Time	Depth (m)			(m/s)		Value	Average	Value	Average		Average		-	alue DA	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)	Value D.	A Value	e DA
					Surface	1.0	0.0	223 228	18.0 18.0	18.0	8.3 8.3	8.3	28.3 28.3	28.3	117.4 117.3		9.4 9.4	1.7	+	6		-	-			-	-	-
IM9	Cloudy	Moderate	08:57	7.2	Middle	3.6	0.0	312	18.0 18.0	18.0	8.3 8.3	8.3	28.4	28.4	116.7	116 7	9.3 9.3	1.7	1.6	7	6	-		822075	808824	<u> </u>	-	1.
					Bottom	3.6	0.0	330 285	18.0	18.0	8.3	8.3	28.5	28.5	115.2	115.0	9.2 0.2	1.5	1	6 7	Ì					-	-	±
			<u> </u>			6.2	0.1	309 322	18.0 18.1		8.3 8.3		28.5		115.1		9.2 9.4	1.6		6						•	-	<u> </u>
					Surface	1.0	0.4	343	18.1	18.1	8.3	8.3	29.0	29.0	117.9	117.9	9.4 9.4	2.1	1	6	İ	-	1			-	-	1
IM10	Cloudy	Moderate	08:50	7.4	Middle	3.7	0.4	322 335	18.0 18.0	18.0	8.3 8.3	8.3	29.0 29.0	29.0	116.8 116.8		9.3 9.3	2.4	2.5	6	6			822408	809780		-	
					Bottom	6.4	0.4	333	18.0	18.0	8.3	8.3	29.0	29.0	115.6	115.6	9.2 9.2	3.1	1	6	Ì	-	1				-	1
					Surface	6.4	0.4	355 311	18.0 18.1	18.1	8.3 8.3		29.0 29.4	20.4	115.5 116.4		9.2	3.1		5		-				-	-	
						1.0	0.6	326 316	18.1 18.1		8.3 8.3	8.3	29.4	29.4	116.3		9.2 9.2	1.9 2.0	-	5		-					-	-
IM11	Cloudy	Moderate	08:40	7.5	Middle	3.8	0.5	325	18.1	18.1	8.3	8.3	29.5	29.5	115.0	115.1	9.1	2.0	2.1	5	6	_	-	822076	811439	· ·	-	
					Bottom	6.5 6.5	0.4	319 337	18.1 18.1	18.1	8.3 8.3	8.3	29.5 29.5	29.5	113.1 112.9		9.0 8.9 9.0	2.2	-	5		-				-	-	-
			1		Surface	1.0	0.5	312	18.1	18.1	8.3	8.3	29.4	29.4	117.2	117.0	9.3	2.2	-	5		-				-	-	1
IM12	Cloudy	Moderate	08:34	9.1	Middle	1.0 4.6	0.5	316 315	18.1 18.1	18.1	8.3 8.3	8.3	29.4 29.4	29.4	117.2 116.4		9.3 9.2 9.3	2.2 3.6	3.4	6 5	6	-		821458	812064	-	-	-
11112	Cibudy	wouerate	08.34	5.1		4.6	0.5	334 308	18.1 18.0		8.3 8.3		29.4 29.4		116.3 114.9		9.2 9.1	3.4 4.4	3.4	6 7	0			021430	812004	-	-	-
					Bottom	8.1	0.4	334	18.0	18.0	8.3	8.3	29.4	29.4	114.8	114.9	9.1 9.1	4.3	1	6		-				-	-	-
					Surface	1.0	-	-	18.1 18.1	18.1	8.3 8.3	8.3	29.3 29.3	29.3	111.0 110.8		8.8 8.8	1.2	+	6 7						-	-	+
SR1A	Cloudy	Calm	07:55	4.7	Middle	2.4	-	-	-	-	-		-	-	-		- 8.8	-	1.3	-	6	-		819981	812657	· .	-	
					Bottom	2.4 3.7	-	-	- 18.1	18.1	- 8.3	8.3	- 29.5	29.5	- 109.0	109.0	- 8.6 8.6	- 1.3	+	- 4		-				-	-	-
						3.7	- 0.2	- 171	18.0 18.0		8.3 8.3		29.5		108.9		8.6 ^{0.0} 9.2	1.3	-	5		-				•	-	—
					Surface	1.0	0.3	177	18.1	18.1	8.3	8.3	29.4	29.4	115.8		9.2 9.2	23	1	6	Ì	_	1			-	-	1
SR2	Cloudy	Moderate	07:38	4.3	Middle		-	-	-	-	-	-	-	-	-	- -	· ·	-	2.6	-	6	<u> </u>	-	821476	814153		-	
					Bottom	3.3 3.3	0.2	178 183	18.1 18.1	18.1	8.3	8.3	29.5	29.5	114.1		9.1 9.0 9.1	2.8	1	6	Ì	-	1			<u>.</u>	-	1
					Surface	3.3	0.2	346	18.1	18.1	8.3	8.3	27.7	27.7	122.7	122.7	9.8	1.4		4		-				-	-	
						1.0	0.1	358 42	18.1 18.0		8.3 8.3		27.7		122.6		9.8 9.7 9.8	1.4	+	3		-	-			-	-	-
SR3	Cloudy	Moderate	09:09	8.9	Middle	4.5	0.1	43	18.0	18.0	8.3	8.3	27.8	27.8	120.6	120.7	9.7	1.5	1.4	6	5	-	-	822162	807547	· ·	-	1 '
					Bottom	7.9 7.9	0.1	51 54	18.0 18.0	18.0	8.3 8.3	8.3	27.8 27.8	27.8	117.8 117.4		9.4 9.4 9.4	1.5 1.5	+	5		-				-	-	-
					Surface	1.0	0.2	69 73	18.2 18.2	18.2	8.3 8.3	8.3	30.8 30.8	30.8	112.6 112.6		8.8	0.2	-	4		-				-		-
SR4A	Cloudy	Calm	08:09	8.9	Middle	4.5	0.1	82	18.2	18.2	8.3	8.3	30.8	30.8	112.2	112.2	8.8 0.0	0.2	0.2	5	5	-	1.	817171	807814	<u> </u>	-	
0.000	cloudy	Gain	00.00	0.0		4.5	0.1	83 52	18.2 18.2		8.3 8.3		30.8 30.8		112.1		8.8	0.2	0.2	4	Ŭ				00/011		-	4
					Bottom	7.9	0.1	55	18.2	18.2	8.3	8.3	30.8	30.8	111.7	111.7	8.8 8.8	0.2	1	5		-				-	-	1
					Surface	1.0	0.1	264 284	18.2 18.2	18.2	8.3 8.3	8.3	30.9 30.9	30.9	110.0 109.9		8.6 8.6 8.6	0.4		4 3		-				-	-	-
SR5A	Cloudy	Calm	07:50	3.1	Middle		-	-		-	-		-		-		- 0.0	-	2.1	-	5	-		816599	810686	· .	-	-
					Bottom	2.1	0.1	281	18.1	18.1	8.3	8.3	30.9	30.9	109.2		8.6 8.6	3.6	1	6	İ	-	1			-	-	1
			1			2.1	0.1	285 274	18.1 17.8		8.3 8.3		30.9 31.0		109.1		8.6	4.0		5		-				-	-	+
					Surface	1.0	0.0	291	17.8	17.8	8.3	8.3	31.0	31.0	110.8	110.8	8.7 8.8	0.0	1	6	Ì	-	1			-	-	1
SR6A	Cloudy	Calm	07:21	4.1	Middle	-	-	-	-	-	-	-	-	-	-		-	-	0.7	-	6	-	-	817978	814738		-	
					Bottom	3.1	0.0	218 232	17.8 17.8	17.8	8.3	8.3	31.0	31.0	110.7		8.7 8.7	0.5	-	5		-	1			-	-	-
					Surface	1.0	0.2	337	18.0	18.0	8.2	8.2	29.6	29.6	114.7	114.7	9.1	1.2		6		-				-	-	1
0.0-7	0		0.045	40.0		1.0	0.2	310 355	18.0 17.9		8.2 8.2		29.6 29.7		114.7 112.7		9.1 8.9 9.0	1.3 1.6	+	7 4		<u> </u>	+		000707	-	-	+
SR7	Cloudy	Moderate	06:42	16.8	Middle	8.4	0.2	327 340	17.9	17.9	8.2	8.2	29.7	29.7	112.6	112.7	8.9	1.7	1.4	5	5		1	823641	823739	<u>⊡</u> '	-	1.
					Bottom	15.8	0.3	340 359	17.9	17.9	8.2 8.2	8.2	29.8 29.8	29.8	111.4	111.4	8.8 8.8	1.3		5		-				-	-	1
					Surface	1.0	-	-	18.2 18.2	18.2	8.3 8.3	8.3	29.1 29.1	29.1	117.0 116.9		9.3 9.3	1.8 1.9	┥	6 5		-	-			-	-	-
SR8	Cloudy	Moderate	08:25	4.6	Middle	-	-	-	-		-		-		-		- 9.3	-	2.2	-	5	-	1.	820373	811613	<u> </u>	-	
	,			-		- 3.6	-	-	- 18.1	40.4	- 8.3		- 29.1	20.4	- 115.7	445.7	9.2 0.2	- 2.5	+	- 4			+			-	-	
					Bottom	3.6	-	-	18.1	18.1	8.3	8.3	29.1	29.1	115.7		9.2 9.2 9.2	2.5	1	5	İ	-	1			-	-	l

Expansion of Hong Kong International Airport into a Three-Runway System Water Quality Monitoring Water Quality Monitoring Results on 30 January 21 during M 30 January 21 during Mid-Ebb Tide

Water Qua	ity Moni	toring Res	ults on		30 January 21	during Mid-		e	-				_		-														
Monitoring Station	Weather	Sea	Sampling	Water	Sampling Dep	th (m)	Current Speed	Current Direction	Water Te	emperature (°C)		рН	Salir	nity (ppt)	DO S	aturation (%)	Disso Oxy		Turbidity(NTU)	Suspende (mg.	d Solids /L)	Total A (pp		Coordinate HK Grid	Coordinate HK Grid	Chrom (µg/		kel (µg/L)
Station	Condition	Condition	Time	Depth (m)			(m/s)		Value	Average	Value	Average	e Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)	Value	DA Valu	ue DA
					Surface	1.0	0.2	139	17.8 17.8	17.8	8.3 8.3	8.3	32.1	32.1	118.9	118.7	9.3 9.3	F	3.5 3.4	-	6 5		•				-	-	-
C1	Fine	Moderate	13:42	8.7	Middle	4.4	0.2	162	17.6	17.6	8.3	8.3	32.3	32.3	115.7	115.7	9.1	9.2	3.4	3.9	6	6			815631	804236	-		
0.	1 110	modorato	10.12	0.1		4.4	0.2	178 188	17.6 17.4		8.3 8.3		32.3 32.5		115.7 112.0		9.1 8.8		3.5 4.8	0.0	5		•		010001	001200	-	-	-
					Bottom	7.7	0.2	192	17.4	17.4	8.3	8.3	32.5	32.5	112.2	112.1	8.8	8.8	5.1		6	•					-	-	-
					Surface	1.0	0.2	135 147	18.2 18.2	18.2	8.3 8.3	8.3	28.7 28.7	28.7	121.1 121.0	121.1	9.6 9.6	F	0.4	-	4 5		•				· ·	-	
C2	Cloudy	Moderate	12:35	12.5	Middle	6.3	0.5	154	17.9	17.9	8.3	8.3	29.3	29.3	114.9	114.7	9.1	9.4	2.0	1.7	4	4			825697	806968	-	-	
	,					6.3 11.5	0.5	160 144	17.9 17.8		8.3 8.3		29.4 29.7		114.4 112.2		9.1 8.9		2.2	-	4		•				-		-
					Bottom	11.5	0.5	154	17.8	17.8	8.3	8.3	29.7	29.7	112.1	112.2	8.9	8.9	2.6		3						-	-	
					Surface	1.0	0.4	286 298	18.1 18.1	18.1	8.3 8.3	8.3	29.8 29.8	29.8	120.3 120.3	120.3	9.5 9.5		0.5	-	4		•				-	-	
C3	Cloudy	Moderate	14:31	12.5	Middle	6.3	0.2	257	17.7	17.7	8.2	8.2	30.4	30.4	105.8	105.8	8.4	9.0	0.6	0.9	3	4			822105	817800	-		
	,		_			6.3 11.5	0.2	262 120	17.7 17.7		8.2 8.2		30.4 30.4		105.7 105.5		8.4 8.4		0.6	-	4		-				-	-	
					Bottom	11.5	0.1	122	17.7	17.7	8.2	8.2	30.4	30.4	105.6	105.6	8.4	8.4	1.8		6						-	-	
					Surface	1.0	0.1	162 168	17.8 17.8	17.8	8.4 8.4	8.4	31.2 31.2	31.2	119.0 119.3	119.2	9.4 9.4	F	3.8 3.8	-	8		•				-	-	-
IM1	Fine	Moderate	13:21	5.2	Middle	-	-		-	-	-		-		-	-	-	9.4	-	4.0	-	7			817960	807114	-		二.
					D. #	4.2	- 0.1	- 219	- 17.8	17.0	- 8.4		31.6	04.5	- 119.8		- 9.4		4.3	F	- 6						-	-	-
					Bottom	4.2	0.1	236	17.8	17.8	8.4	8.4	31.5	31.5	119.6	119.7	9.4	9.4	4.3		6						-	-	
					Surface	1.0	0.1	184 193	17.9 17.9	17.9	8.4 8.4	8.4	31.2 31.3	31.3	117.7 117.7	117.7	9.3 9.3	9.3	4.7 4.7	F	6 7		-				-	-	
IM2	Fine	Moderate	13:13	7.1	Middle	3.6	0.1	165 175	17.7 17.7	17.7	8.4 8.4	8.4	31.5 31.5	31.5	116.7 116.6	116.7	9.2 9.2	9.3	4.1 4.1	4.3	6 5	6	•		818146	806182	· .		
					Bottom	6.1	0.1	154	17.6	17.6	8.4	8.4	31.6	31.6	114.4	114.4	9.0	9.0	4.2		5						-	-	
					1	6.1 1.0	0.1	157 50	17.6 17.9		8.4 8.4		31.6 31.3		114.4 118.7		9.0 9.3	9.0	4.2 4.5		6						-	-	
					Surface	1.0	0.1	50	17.9	17.9	8.4	8.4	31.3	31.3	118.7	118.7	9.3	9.3	4.4	E	6						-	-	_
IM3	Fine	Moderate	13:06	7.3	Middle	3.7	0.1	69 75	17.8 17.8	17.8	8.4 8.4	8.4	31.3 31.3	31.3	118.2	118.2	9.3 9.3	0.0	4.4 4.5	4.3	7 6	7	•		818789	805596	-		
					Bottom	6.3	0.1	253	17.6	17.6	8.4	8.4	31.7	31.7	115.7	115.8	9.1	9.1	3.9	Ľ	9						•	-	
						6.3	0.1	276	17.6 17.8		8.4 8.4		31.7 31.3		115.8		9.1 9.5		4.0 4.7		8						-	-	
					Surface	1.0	0.1	13	17.8	17.8	8.4	8.4	31.3	31.3	119.7	119.9	9.4	9.3	4.7		7						•	-	
IM4	Fine	Moderate	12:56	8.5	Middle	4.3	0.1	307 337	17.7 17.6	17.7	8.3 8.4	8.3	31.6 31.6	31.6	115.7 115.6	115.7	9.1 9.1		4.3 4.3	4.4	7	7	-	-	819742	804606	-		
					Bottom	7.5	0.1	297	17.6	17.6	8.4	8.4	31.8	31.8	114.6	114.6	9.0	9.0	4.0		5		•				· .	-	コ
					Surface	7.5	0.1	315 14	17.6 17.6	17.6	8.4 8.3	8.3	31.8 31.5	31.5	114.6 114.5	114.5	9.0 9.1		4.1 4.3		6 3						-		
					Sunace	1.0 4.0	0.2	14 18	17.6 17.6	17.0	8.3 8.4	0.3	31.5 31.6	31.5	114.5 114.5	114.5	9.1 9.0	9.1	4.3 4.5	F	2						-	-	
IM5	Fine	Moderate	12:48	8.0	Middle	4.0	0.2	18	17.6	17.6	8.4	8.4	31.6	31.6	114.5	114.5	9.0	-	4.5	4.6	4	4		-	820723	804879	-		-
					Bottom	7.0	0.2	31 34	17.6 17.6	17.6	8.4 8.4	8.4	31.6 31.6	31.6	113.9 113.9	113.9	9.0 9.0	9.0	5.0 5.0	F	5		-				•	-	
					Surface	1.0	0.0	197	17.9	17.9	8.4	8.4	30.5	30.5	121.1	121.1	9.6	<u> </u>	1.6		4					1	-	-	
						1.0	0.0	204	17.9 17.7		8.4 8.4		30.5 30.9		121.0 115.8		9.6 9.2	9.4	1.6 3.0	-	3		•				-	-	
IM6	Fine	Moderate	12:40	7.7	Middle	3.9	0.1	136	17.7	17.7	8.4	8.4	31.0	31.0	115.4	115.6	9.1		3.2	3.1	4	4	•	-	821040	805835	-	-	
					Bottom	6.7	0.1	91 92	17.6	17.6	8.4 8.4	8.4	31.1	31.1	114.3	114.4	9.0 9.1	9.1	4.6	-	4		•				-	-	_
					Surface	1.0	0.1	268	17.8	17.8	8.4	8.4	30.4	30.4	119.2	119.1	9.4		2.0		6						-	-	
						1.0	0.1	286 96	17.8 17.6		8.4 8.4		30.4 31.1		118.9 115.2		9.4 9.1	9.3	2.0	_ +	6 5		-					-	-
IM7	Fine	Moderate	12:33	8.9	Middle	4.5	0.1	102	17.6	17.6	8.4	8.4	31.1	31.1	114.9	115.1	9.1		2.0	2.0	6	5		-	821359	806849	•		
					Bottom	7.9	0.0	58 63	17.5 17.5	17.5	8.4 8.4	8.4	31.3 31.3	31.3	113.4 113.5	113.5	9.0 9.0	9.0	2.1	⊢	3 4		•				-	-	
					Surface	1.0	0.3	94	18.1	18.1	8.3	8.3	29.0	29.0	118.3	118.3	9.4	Ļ	0.8		4						-	-	1
	Claut	Mada	40.57			1.0 4.0	0.3	99 104	18.1 17.8		8.3 8.3		29.0 29.7		118.2 114.1		9.4 9.1	9.3	0.8		5		-		004007	000100	-	-	-
IM8	Cloudy	Moderate	12:57	8.0	Middle	4.0	0.4	112	17.8	17.8	8.3	8.3	29.7	29.7	113.9	114.0	9.1	[3.1	2.3	4	4	•	-	821837	808136	-	· ·	
					Bottom	7.0	0.3	90 96	17.8 17.8	17.8	8.3 8.3	8.3	29.8 29.8	29.8	112.6 112.4	112.5	9.0 8.9	9.0	3.3 3.2	⊢	3 4		-				-	-	-
DA: Depth-Aver	agod				·														_							•	<u> </u>		

Expansion of Hong Kong International Airport into a Three-Runway System Water Quality Monitoring Water Quality Monitoring Results on 30 January 21 during M 30 January 21 during Mid-Ebb Tide

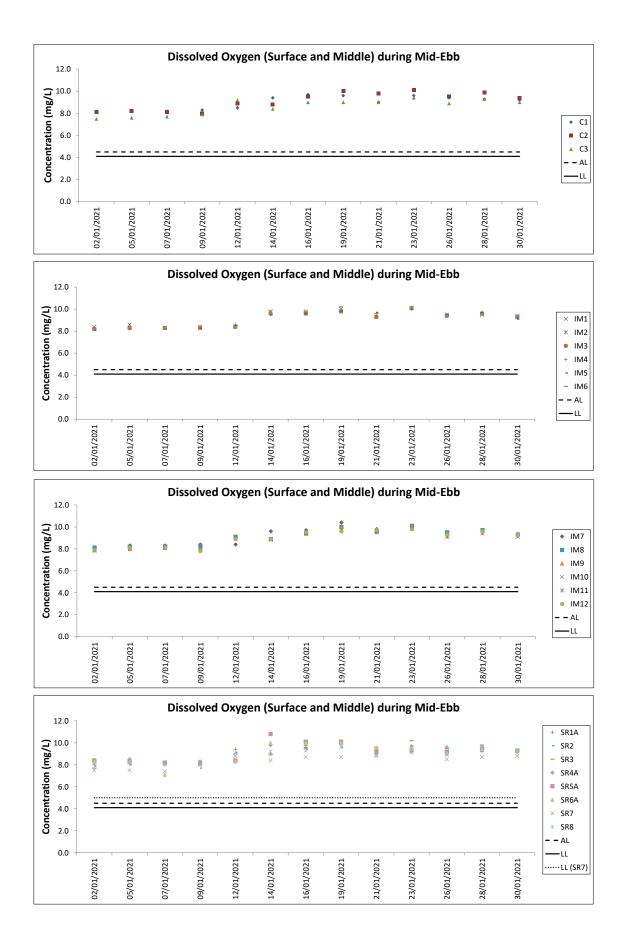
Water Qua	lity Moni	toring Res	ults on		30 January 21	during Mid-		le																			
Monitoring	Weather	Sea	Sampling	Water	Sampling Dep	th (m)	Current Speed	Current	Water Te	mperature (°C)		pН	Salin	ity (ppt)		Saturation (%)	Dissolved Oxygen	Turbidity		ended Sol (mg/L)		Alkalinity pm)	Coordinate HK Grid	Coordinate HK Grid	Chron (µg		Nickel (µg/L)
Station	Condition	Condition	Time	Depth (m)			(m/s)	Direction	Value	Average	Value	Average		Average		•	alue DA	Value	DA Val	e D/	Value	DA	(Northing)	(Easting)	Value	DA \	Value DA
					Surface	1.0	0.4	61 61	18.0 18.0	18.0	8.3 8.3	8.3	28.9 28.9	28.9	117.7		9.4	0.6	6	_		-			-	-	•
IM9	Cloudy	Moderate	13:02	7.7	Middle	3.9	0.4	67	17.9	17.9	8.3	8.3	29.3	29.3	117.3	117.3	9.4	1.6	19 4	- 4	-	1.	822117	808823	-	. F	· .
	-				Bottom	3.9 6.7	0.4	71 70	17.9 17.7	17.8	8.3 8.3	8.3	29.3 29.8	29.8	117.2 110.1		9.3 3.8 8.8	1.6 3.4	1.0 3		-	1			-	-	-
					Bottom	6.7 1.0	0.4	70 76	17.8 18.0	17.8	8.3 8.3	8.3	29.8 28.8	29.8	109.9 116.1		8.8 3.7	3.6 0.6	2		-	1			-	F	-
					Surface	1.0	0.6	82	18.0	18.0	8.3	8.3	28.8	28.8	116.1		9.3 9.1	0.6	3		-	1			-	.	-
IM10	Cloudy	Moderate	13:08	7.6	Middle	3.8	0.6	83 85	17.8 17.8	17.8	8.3 8.3	8.3	29.1 29.2	29.2	111.9 111.6		3.9 3.9	0.5	0.5 4		-		822404	809807	-		
					Bottom	6.6 6.6	0.3	92 94	17.8 17.8	17.8	8.3	8.3	29.5	20.5	110.3	110.2	3.8 8.8	0.3	3		-	1			-	F	-
					Surface	1.0	0.3	138	17.9	17.9	8.3 8.3	8.3	29.5 29.5	20 E	116.4	116.4	3.8 9.3	0.3	2		-				-	-t	-
						1.0 4.4	0.3	144 131	17.9 17.9		8.3 8.3		29.5 29.5		116.4 115.8		9.3 9.3	0.3	2	-		-			· ·	F	-
IM11	Cloudy	Moderate	13:19	8.8	Middle	4.4	0.3	141	17.9	17.9	8.3	8.3	29.5	29.5	115.8	115.8	9.2	0.3	0.3 4	3	-	1 -	822067	811474	-		-
					Bottom	7.8	0.3	133 146	17.9 17.9	17.9	8.3 8.3	8.3	29.5 29.5	29.5	113.3 112.8		9.0 9.0	0.2	3		-	-			-	-	-
					Surface	1.0 1.0	0.3	135 136	18.0 18.0	18.0	8.3 8.3	8.3	29.6 29.6	29.6	117.1		9.3	0.3	<		-	-			-	-	-
IM12	Cloudy	Moderate	13:24	9.9	Middle	5.0	0.3	148	18.0	18.0	8.3	8.3	29.6		116.1	116.1	9.3	0.3	0.3 3	3	-	1.	821480	812047		L	· .
	cloudy	modorato	10.21	0.0		5.0 8.9	0.3	158 149	18.0 17.9		8.3 8.3		29.6 29.6		116.1 113.8		9.2	0.3	0.0 2			-	021100	012011	-	F	-
					Bottom	8.9	0.4	163	17.9	17.9	8.3	8.3	29.6	29.6	113.6	113.7	9.0	0.4	3		-				-		-
					Surface	1.0 1.0		-	18.0 18.0	18.0	8.3 8.3	8.3	29.5 29.5		114.0 114.0	114.0	9.1 9.1 9.1	0.5	4		-				-	. L	-
SR1A	Cloudy	Calm	13:56	4.6	Middle	2.3	-		-	-	-	-	-	-	-		- 3.1	-	0.6	3	-		819974	812653	-		· ·
					Bottom	3.6 3.6	-	-	17.9 17.9	17.9	8.3 8.3	8.3	29.5 29.5		114.0 113.8		9.1 9.1	0.7	3		-	1			-	F	-
					Surface	1.0	0.3	- 73	18.0	18.0	8.3	8.3	29.6	20.6	117.6	117.6	9.3	0.3	4						-		-
						1.0	0.4	76	18.0	18.0	8.3	0.3	29.6	29.0	117.5	117.0	9.3 9.3	0.3	5	_	-	-			-	F	-
SR2	Cloudy	Moderate	14:11	4.9	Middle	-				-	-	-	-	-	-	•			0.3	4	-		821462	814148	-		· ·
					Bottom	3.9 3.9	0.3	70 70	17.9 17.9	17.9	8.3 8.3	8.3	29.6 29.6	29.6	115.9 115.5	115.7	9.2 9.2	0.4	4		-				-		-
					Surface	1.0	0.4	101 104	17.9 17.9	17.9	8.3 8.3	8.3	29.0 29.0	29.0	117.4 117.0		9.4	2.6 2.6	4		-	-			-	-	-
SR3	Cloudy	Moderate	12:52	9.1	Middle	4.6	0.4	100	17.9	17.9	8.3	8.3	29.3	29.3	114.7	114.5	9.2	2.3	26 4		-	1.	822146	807577	-		<u> </u>
				-	Detterr	4.6 8.1	0.4	106 76	17.9 17.8	47.0	8.3 8.3		29.3 29.7	29.7	114.2 112.1		9.1 3.9 8.9	2.3 3.2	2.0 3		-	1			-	F	-
					Bottom	8.1 1.0	0.4	78 78	17.8 17.9	17.8	8.3 8.3	8.3	29.7 31.3		112.0 117.1		3.9 0.9	2.9 3.7	4		-				-		-
					Surface	1.0	0.3	83	17.8	17.9	8.3	8.3	31.3	31.3	117.0	117.1	9.2 0.2	3.7	e		-	1			-	. [-
SR4A	Fine	Calm	14:04	9.0	Middle	4.5	0.3	75 80	17.8 17.8	17.8	8.3 8.3	8.3	31.3 31.3	31.3	116.0 115.9		9.1 9.1	3.6 3.6	3.5 6		-		817210	807794	-		
					Bottom	8.0 8.0	0.2	70 74	17.7 17.7	17.7	8.4 8.4	8.4	31.4 31.4	31.4	114.1 114.0		9.0 9.0	3.3 3.3	5		-	1			-	F	-
					Surface	1.0	0.0	299	18.2	18.2	8.4	8.4	30.9	30.9	118.6	118.5	9.3	2.7	4		-				-		-
CDEA	Fire	Calm	44-24	25		1.0	0.0	299	18.1		8.4		30.9		118.3		9.3 9.3	2.7	4	5	-	1	040504	84.0004	-	F	-
SR5A	Fine	Calm	14:21	3.5	Middle	- 2.5	- 0.1	- 162	- 17.9	-	- 8.4	-	- 31.1	-	- 116.8		- 9.2 0.2	- 3.2	2.9	⁵	-	1.	816584	810681	-	- F	-
					Bottom	2.5	0.1	175	17.9	17.9	8.4	8.4	31.1	31.1	116.7	110.0	9.2	3.0	6								-
					Surface	1.0	0.0	217 219	18.1 18.1	18.1	8.3 8.3	8.3	30.9 30.9	30.9	118.9 118.9		9.3	2.6	4		-	+			-	-	-
SR6A	Fine	Calm	15:08	4.4	Middle		-			-	-	-	-	-	-		- 9.3 -	-	2.3 -	5	-		817963	814743	•		<u> </u>
					Bottom	3.4	0.0	250	18.0	18.0	8.4	8.4	30.9	30.9	117.9		9.3 9.3	2.1	5			1				.	-
						3.4	0.0	265 61	18.0 18.0		8.4 8.3		30.9 30.1		117.7		9.3	2.0	6 4						-	-	-
					Surface	1.0	0.7	61	18.0	18.0	8.3	8.3	30.1	30.1	113.6	113.7	9.0 8.8	0.1	3		-	1			-	F	-
SR7	Cloudy	Moderate	14:59	15.1	Middle	7.6	0.2	14 14	17.8 17.8	17.8	8.2 8.2	8.2	30.4 30.4		108.3 108.2	108.3	3.6 3.6	0.1	0.1 4	4	-	1 -	823652	823731	-	E	· ·
					Bottom	14.1 14.1	0.2	55 58	17.8 17.8	17.8	8.2 8.2	8.2	30.4 30.4	30.4	107.5		3.5 3.5 8.5	0.1	5		-	4			-	F	-
					Surface	1.0	-		18.2	18.2	8.3	8.3	29.5	20.5	115.2	115.2	9.1	0.7	2		-	İ		İ	-	-	-
SR8	Cloudy	Moderate	13:34	4.8	Middle	1.0	-	-	18.2		8.3 -		29.5		115.2		9.1 - 9.1	0.7	0.7	3	-	1.	820402	811603	-	Ŀ	-
GNO	Cibuuy	wouerate	13.34	4.0		- 3.8	-	-	- 18.0	-	- 8.3	-	- 29.5	-	- 112.3		- 3.9	- 0.8	0.7		-	-	020402	011003	-	Ē	÷
					Bottom	3.8	-		18.0	18.0	8.3	8.3	29.5	29.5	111.9		8.9 8.9	0.8	3			1			-		-

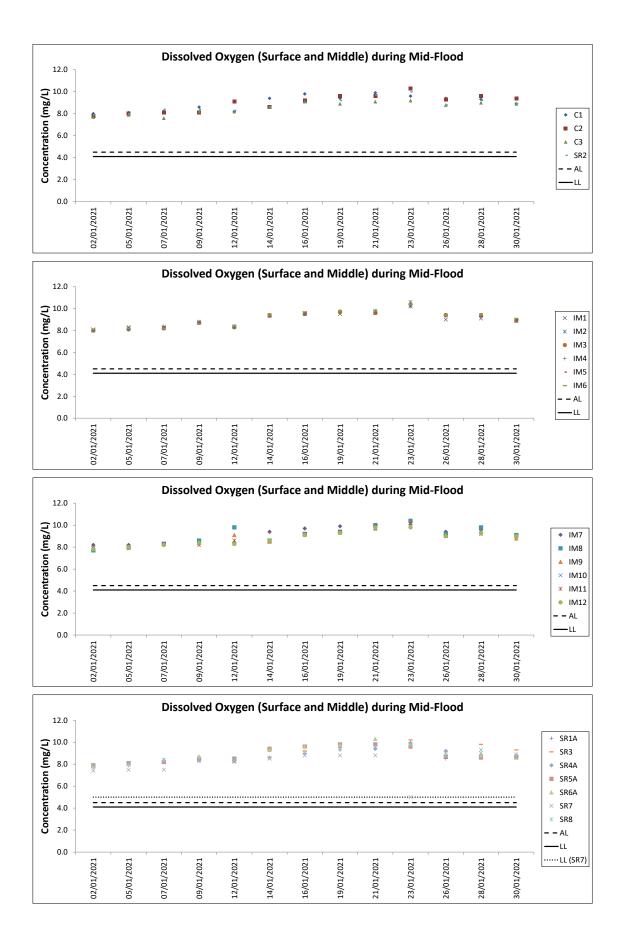
Expansion of Hong Kong International Airport into a Three-Runway System Water Quality Monitoring Water Quality Monitoring Results on 30 January 21 during M 30 January 21 during Mid-Flood Tide

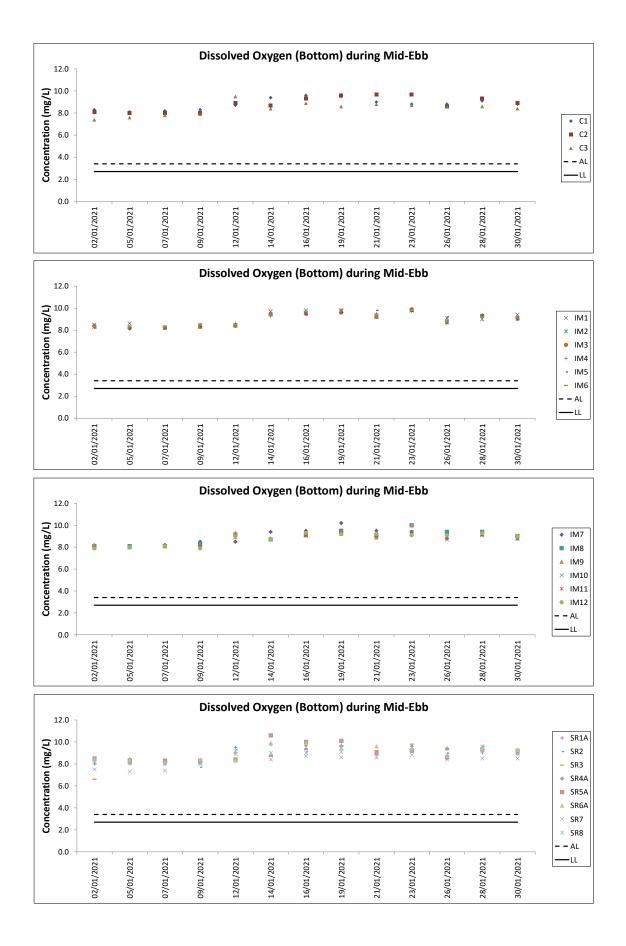
Water Qua	lity Moni	toring Res	ults on		30 January 21	during Mid	-Flood T	ide																				
Monitoring Station	Weather	Sea	Sampling	Water	Sampling Dep	oth (m)	Current Speed	Current Direction	Water Te	emperature (°C)		pН	Salir	nity (ppt)	DO S	aturation (%)	Dissolved Oxygen	Turbidity	(NTU)	Suspende (mg			Alkalinity pm)	Coordinate HK Grid	Coordinate HK Grid	Chromii (µg/L		kel (µg/l
Station	Condition	Condition	Time	Depth (m)			(m/s)		Value	Average	Value	Average	Value	Average	Value	Average \	alue DA	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)	Value	DA Valu	ue DA
					Surface	1.0	0.5	33 35	17.4 17.4	17.4	8.3 8.3	8.3	31.8 31.9	31.8	112.0	1120	8.9 8.9	4.6	+	8		-	-			· ·	-	-
C1	Fine	Moderate	09:32	8.3	Middle	4.2	0.6	36	17.4	17.4	8.3	8.3	31.9	31.9	111.2	111.2	8.8 0.9	5.6	5.5	6	7	-	1.	815624	804260	-		_
						4.2	0.6	39 30	17.4 17.4		8.3 8.3		31.9 31.9		111.2 110.3		8.8	5.8 6.1		7		-	-			-	-	_
					Bottom	7.3	0.6	30	17.4	17.4	8.3	8.3	31.9	31.9	110.3	110.3	8.7 0.7	6.2		5		-				-	-	
					Surface	1.0	0.3	350 322	18.0 18.0	18.0	8.3 8.3	8.3	28.4 28.4	28.4	120.7 120.3		9.6 9.6 9.4	0.8		4		-				-	-	
C2	Cloudy	Moderate	10:02	12.2	Middle	6.1 6.1	0.4	28 29	17.9 17.9	17.9	8.3 8.3	8.3	28.5 28.5	28.5	115.6		9.3 9.2	3.2 3.2	2.9	4	5	-		825668	806963	-		
					Bottom	11.2	0.4	346	17.9	17.9	8.3	8.3	28.5	28.5	114.9	11/ 0	9.2 0.2	4.8	ļ	6		-	1			-	-	
					0.4	11.2	0.5	351 241	17.9 17.9	17.0	8.3 8.3		28.5 29.5	00.5	114.8		9.2 9.2	4.7		5		-				-		
					Surface	1.0 5.6	0.3	250 252	17.9 17.8	17.9	8.3 8.3	8.3	29.6 29.6	29.5	112.3 111.8		8.9 8.9	1.3 5.4	ļ	2	ļ	-	1			-	-	コ
C3	Cloudy	Moderate	08:04	11.2	Middle	5.6	0.4	254	17.8	17.8	8.3	8.3	29.6	29.6	111.8		8.9	5.9	4.4	3	3	-		822099	817789	-	· ·	
					Bottom	10.2	0.4	266 287	17.8 17.8	17.8	8.3 8.3	8.3	29.6 29.6	29.6	111.2		8.9 8.8	6.3 6.3	+	4		-	-			-	-	_
					Surface	1.0	0.1	346	17.4	17.4	8.3	8.3	31.7	31.7	112.3	112.2	8.9	1.4		5		-				-	-	
IM1	Fire	Moderate	09:52	4.8	Middle	1.0	0.1	318	17.4		8.3		31.7	-	112.2		8.9 - 8.9	1.4	1.7	6	6	-	-	817957	807148	-	-	-
IM1	Fine	Moderate	09:52	4.8	Widdle	- 3.8	- 0.1	- 324	- 17.4	-	- 8.3	-	- 31.8	-	- 110.8		-	- 2.1	1.7	- 6	ь	-	1 -	817957	807148	-	· ·	7.
					Bottom	3.8	0.1	355	17.4	17.4	8.3	8.3	31.8	31.8	110.7	110.6	8.8 0.0	2.1		8		-				-	-	-
					Surface	1.0	0.3	359 330	17.5 17.5	17.5	8.4 8.4	8.4	31.0 31.0	31.0	111.8		8.9 8.9	8.0 8.1	-	8		-	-			-	-	
IM2	Fine	Moderate	10:01	6.8	Middle	3.4	0.2	4	17.5	17.5	8.4	8.4	31.0	31.0	111.1	111.1	8.8 8.9	7.8	8.0	10	10	-		818157	806172	-		
					Bottom	3.4 5.8	0.2	4 355	17.5 17.5	17.5	8.4 8.4	8.4	31.0 31.0	31.0	111.0 110.4		8.8 8.8 8.8	7.9 8.0		10 11		-				-	-	
						5.8	0.2	327 327	17.5 17.5		8.4 8.4		31.0 31.0		110.3		8.8 8.9	8.2		10 9		-	-	 		-	-	_
					Surface	1.0	0.3	335	17.5	17.5	8.4	8.4	31.0	31.0	112.0	112.1	8.9 8.9	6.6	1	10	ļ	-	1			-	-	
IM3	Fine	Moderate	10:07	7.1	Middle	3.6	0.3	343 316	17.5 17.5	17.5	8.4 8.4	8.4	31.0 31.0	31.0	111.4 111.4		8.9 8.9	6.8 7.0	7.0	10 9	9	-		818783	805609	-	· ·	
					Bottom	6.1 6.1	0.3	335 308	17.5 17.5	17.5	8.4 8.4	8.4	31.0 31.0	31.0	110.4		8.8 8.8	7.5	1	9	ļ	•	1			<u> </u>	-	_
			1		Surface	1.0	0.5	354	17.5	17.5	8.3	8.3	31.0	31.0	112.0	112.0	8.9	5.4		7		-				-	-	
	-					1.0	0.6	326 355	17.5 17.5		8.3 8.3		31.0 31.0		111.9		8.9 8.8 8.9	5.4 6.2		6	_	-	-			-	-	
IM4	Fine	Moderate	10:16	8.0	Middle	4.0	0.5	327	17.5	17.5	8.3	8.3	31.0	31.0	111.2	111.2	8.8	6.2	5.9	6	7	•	1 -	819712	804593	÷.	· ·	-
					Bottom	7.0	0.4	358 329	17.4 17.4	17.4	8.4 8.4	8.4	31.0 31.0	31.0	110.8 110.7		8.8 8.8	6.2 6.3		8 9		-				-	-	
					Surface	1.0	0.8	11	17.6 17.6	17.6	8.4 8.4	8.4	30.8 30.8	30.8	112.8		9.0	6.2 6.3	-	8		-	-			-	-	-
IM5	Fine	Moderate	10:24	7.6	Middle	3.8	0.7	14	17.5	17.5	8.4	8.4	30.8	30.8	112.2	112.2	8.9 9.0	6.5	7.1	9	9	-	1.	820751	804883	-		Ξ.
						3.8	0.7	14 15	17.5 17.5		8.4 8.4		30.8 31.0		112.2 111.0		8.9	6.7 8.3	-	8	-	-	+			-	-	_
					Bottom	6.6 1.0	0.6	15 25	17.5 17.6	17.5	8.4 8.4	8.4	31.0 30.8	31.0	111.0 115.1		8.8	8.5 1.7		11 5		-				-	-	4_
					Surface	1.0	0.0	25	17.6	17.6	8.4	8.4	30.8	30.8	115.1	115.1	9.1 9.1 9.1	1.8	ł	5		-	1			-	-	
IM6	Fine	Moderate	10:32	7.4	Middle	3.7	0.1	52 56	17.5 17.5	17.5	8.4 8.4	8.4	31.0 31.0	31.0	113.5		9.0	1.8	1.7	7	7	-		821081	805810	-	· ·	-
					Bottom	6.4	0.2	48	17.5	17.5	8.4 8.4	8.4	31.4	31.4	112.2	112.3	8.9 8.9	1.5	1	8	Ì	-	1			-	-	コ
					Surface	6.4 1.0	0.2	50 181	17.5 17.8	17.8	8.4 8.4	8.4	31.4 30.2	20.2	112.3		8.9 0.3 9.2	1.4 1.9		8		-		1		-	-	
						1.0 4.2	0.0	183 102	17.8 17.6		8.4 8.4		30.2 30.6	30.2	115.2	115.2	9.1 9.0	1.9 2.2	Į	8 7	ļ	-	-			<u> </u>	-	
IM7	Fine	Moderate	10:40	8.3	Middle	4.2	0.2	107	17.6	17.6	8.4	8.4	30.6	30.6	113.2	113.3	9.0	2.2	2.1	6	7	-	1 -	821326	806845	-		
					Bottom	7.3	0.2	93 99	17.5 17.5	17.5	8.4 8.4	8.4	31.3 31.3	31.3	111.6		8.9 8.9	2.1		5	ł	-	-			-	-	
					Surface	1.0	0.1	53	17.9	17.9	8.3	8.3	28.7	28.7	115.3	115.3	9.2	1.1		7		-	†	İ			Ē	1
IM8	Clouds	Modorata	00:26	7.5	Middle	1.0 3.8	0.1	53 55	17.9 17.8		8.3 8.3		28.7 29.0	29.0	115.2 111.3	111.2	9.2 8.9 9.1	1.1 2.2	2.7	7 6	6	-	1	921940	808141		-	
IIVIO	Cloudy	Moderate	09:36	7.5		3.8 6.5	0.0	60 9	17.8 17.7	17.8	8.3 8.3	8.3	29.0 29.1		111.0 109.1		8.9	2.5 4.3	2.1	5 5	0	-		821846	000141	-		
					Bottom	6.5	0.0	9	17.7	17.7	8.3	8.3	29.1	29.1	109.1		8.7 8.7	4.3	t	6	t	-	1			-	-	-

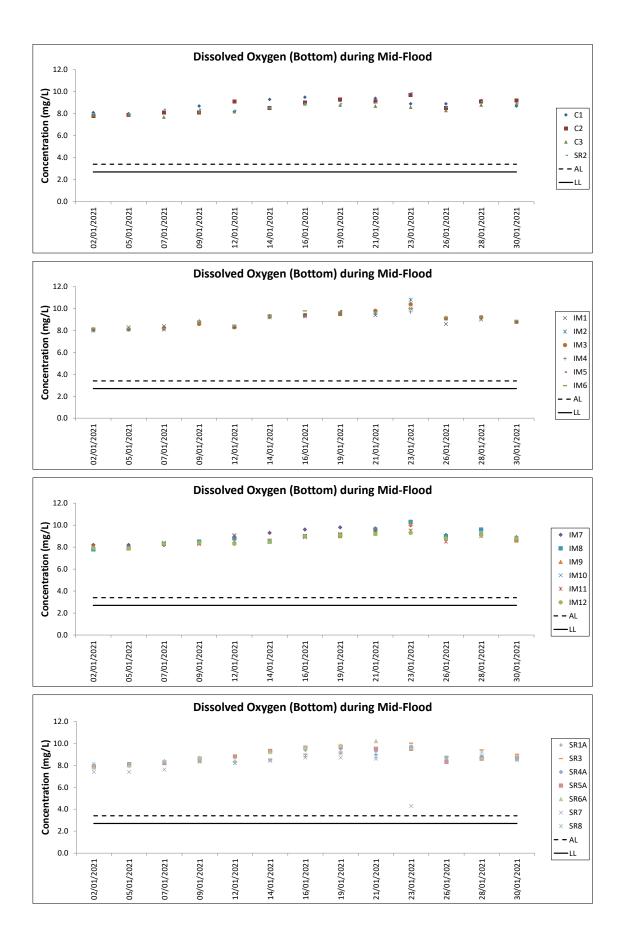
Expansion of Hong Kong International Airport into a Three-Runway System Water Quality Monitoring Water Quality Monitoring Results on 30 January 21 during M 30 January 21 during Mid-Flood Tide

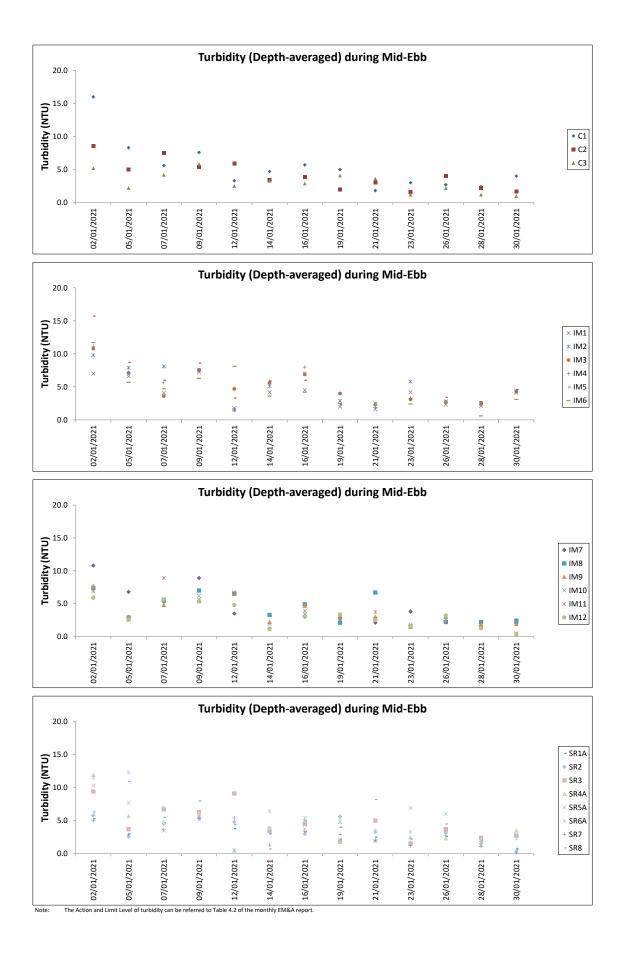
Water Qua	lity Moni	toring Res	ults on		30 January 21	during Mid-	-Flood T	ide																				
Monitoring Station	Weather	Sea	Sampling	Water	Sampling Dep	th (m)	Current Speed	Current	Water Te	emperature (°C)		pН	Salir	nity (ppt)	DO S	aturation (%)	Dissolved Oxygen	Turbidity	/(NTU)	Suspende (mg		Total A (pp	lkalinity om)	Coordinate HK Grid	Coordinate HK Grid	Chromium (µg/L)	Nicke	l (µg/L)
Station	Condition	Condition	Time	Depth (m)			(m/s)		Value	Average	Value	Average		Average			alue DA		DA	Value	DA	Value	DA	(Northing)	(Easting)	Value DA	Value	DA
					Surface	1.0	0.2	333 346	17.7 17.7	17.7	8.3 8.3	8.3	29.3 29.3	29.3	109.9		3.8 3.8	0.9	+	6 5			ł			-	-	ł
IM9	Cloudy	Moderate	09:31	7.3	Middle	3.7	0.2	330	17.7	17.7	8.3	8.3	29.3	29.3	109.2	100.2	3.7 0.0	1.0	1.0	4	5	-	1.	822076	808811	· .	-	1 .
	,					3.7	0.2	351 323	17.7		8.3 8.3		29.3 29.3		109.1 107.6		3.7	0.9	-	5		-	ł			-	-	ł
					Bottom	6.3	0.1	330	17.7	17.7	8.3	8.3	29.3	29.3	107.4	107.5	8.6	1.1		3		-				-	-	
					Surface	1.0	0.5	302 331	17.7 17.7	17.7	8.3 8.3	8.3	29.3 29.3	29.3	112.1 112.0		9.0	2.1	1	5 4		-	ł			-	-	ł
IM10	Cloudy	Moderate	09:24	7.1	Middle	3.6	0.4	301 326	17.7 17.7	17.7	8.3 8.3	8.3	29.3 29.3	29.3	111.4		9.0 9.0 3.9	2.0 2.1	2.1	4 5	4	-		822361	809784	<u> </u>	-	Í -
					Bottom	6.1	0.5	326	17.7	17.7	8.3	8.3	29.3	29.3	110.2		3.8 8.8	2.3	1	3		-				-	-	İ
						6.1 1.0	0.5	313 281	17.7		8.3 8.3	-	29.3 29.5		110.0		3.8	2.3		4				1		-	-	<u> </u>
					Surface	1.0	0.4	304	17.7	17.7	8.3	8.3	29.5	29.5	112.4	112.4	9.0	1.1	1	4		-	1			-	-	l .
IM11	Cloudy	Moderate	09:15	8.1	Middle	4.1	0.4	285 307	17.6 17.6	17.6	8.3 8.3	8.3	29.5 29.5	29.5	111.8		3.9 3.9	0.8	0.9	3	4	-		822037	811471		-	- 1
					Bottom	7.1	0.4	282	17.6	17.6	8.3	8.3	29.5	29.5	110.7	110.6	3.8 8.8	0.8	1	3		-	1			-	-	Į.
			1			7.1	0.4	300 268	17.6 17.7		8.3 8.3		29.5 29.5		110.5		3.8	0.9		4		-		1		-	-	<u> </u>
					Surface	1.0	0.5	274	17.7	17.7	8.3	8.3	29.5	29.5	112.1		9.0 9.0	1.3	1	6		-	1			-	-	ĺ
IM12	Cloudy	Moderate	09:09	8.8	Middle	4.4	0.4	271 271	17.7 17.7	17.7	8.3 8.3	8.3	29.5 29.5	29.5	111.4 111.3		3.9 3.9	2.9	3.2	6 5	6	-	-	821442	812048		-	-
					Bottom	7.8	0.4	274	17.7 17.7	17.7	8.3 8.3	8.3	29.5 29.5	29.5	110.2 110.0		3.8 3.8 8.8	5.5 5.2	1	5		-	1			-	-	Í
					Surface	1.0	- 0.4	300	17.8	17.8	8.3	8.3	29.4	29.4	107.4	107.4	3.6	0.4		6		-			1	-		
						1.0	-	•	17.8	17.0	8.3	0.5	29.4	20.4	107.4	107.4	8.6	0.5	4	5		-	ł			-	•	ł
SR1A	Cloudy	Calm	08:37	4.9	Middle	2.5	-		-	-	-		-	-	-			-	3.1	-	6		-	819981	812654	<u> </u>		1 -
					Bottom	3.9 3.9	-	•	17.7 17.7	17.7	8.3 8.3	8.3	29.5 29.5	29.5	106.6		3.5 3.5 8.5	5.4 6.1	4	6 5		-	ł			-	-	ł
					Surface	1.0	0.1	3	17.6	17.6	8.3	8.3	29.6	29.6	111.5	111.5	3.9	1.8		6						-	-	Ĺ
SR2	01					1.0	0.1	- 3	17.6		8.3		29.6		- 111.4		3.9 - 8.9	1.9	1	5		-	ł			-	-	ł
SRZ	Cloudy	Moderate	08:23	4.1	Middle	- 3.1	- 0.1	- 11	- 17.6	-	-	-	- 29.6	-	- 110.9		-	- 1.7	1.8	- 5	6	-	-	821442	814158	· ·	-	į -
					Bottom	3.1	0.1	11	17.6	17.6	8.3	8.3	29.6	29.6	110.9		8.9 8.9	1.7	1	5		-				-	-	ŀ
					Surface	1.0	0.0	156 165	17.9 17.9	17.9	8.3 8.3	8.3	28.5 28.5	28.5	116.9 116.8		9.4	1.1	-	4 5		-				-	-	ł
SR3	Cloudy	Moderate	09:42	8.9	Middle	4.5	0.0	326	17.9	17.9	8.3	8.3	28.5	28.5	114.5	114.4	9.3	1.8	2.4	5	6	-		822169	807553	· .	-	İ.
313	Cibudy	wouerate	03.42	0.9		4.5	0.0	331 29	17.9 17.8		8.3 8.3		28.5 28.6		114.2 111.8		9.1	1.9 4.1	2.4	6		-	-	022109	807555	<u> </u>	-	ŧ.
					Bottom	7.9	0.1	29	17.7	17.8	8.3	8.3	28.6	28.6	111.6	111.7	9.0	4.2		7		-					-	<u> </u>
					Surface	1.0	0.2	79 86	17.6	17.6	8.3 8.3	8.3	31.0 31.0	31.0	109.3		3.7	1.1	+	4		-	-			-	-	ł
SR4A	Fine	Calm	09:08	9.1	Middle	4.6	0.2	81	17.5	17.5	8.3	8.3	31.3	31.3	109.6	100.6	8.7	1.2	1.3	4	4	-	1.	817207	807792	<u> </u>	-	1 -
					Dattarr	4.6 8.1	0.2	83 79	17.5 17.4	47.4	8.3 8.3		31.3 31.5	24.5	109.6 108.8		3.7 3.6 o.c	1.3 1.7	1	4		-	+			-	-	ł
					Bottom	8.1 1.0	0.2	80	17.4	17.4	8.3		31.5	31.5	108.8	100.0	3.6	1.7	1	3		-	ļ			-	-	Ĺ
					Surface	1.0	0.1	245 249	17.6 17.6	17.6	8.3 8.3	8.3	30.9 30.9	30.9	109.2 109.2		3.7 3.7 8.7	1.2		3		-				-	-	İ.
SR5A	Fine	Calm	08:44	3.3	Middle	-	-	-	•	-	-			-	-		- 0.7	-	2.0		4	-		816573	810684	· ·	-	- 1
					Bottom	2.3	0.0	241	17.6	17.6	8.3	8.3	30.8	30.8	109.1		8.7 8.7	2.7	1	4		-	İ			-	-	1
						2.3	0.0	253 251	17.6 17.5		8.3 8.3	-	30.8 30.9		109.1		3.7 3.6	2.9		5		-				-	÷	⊢
					Surface	1.0	0.1	272	17.5	17.5	8.3	8.3	30.9	30.9	108.6		3.6 8.6	0.0	1	3		-	1			-	-	ĺ
SR6A	Fine	Calm	08:17	4.2	Middle		-		-	-	-	- ·	-	-	-		-	-	1.3	-	3	-		817984	814722		-	-
					Bottom	3.2 3.2	0.1	251 257	17.6 17.6	17.6	8.3 8.3	8.3	31.0 31.0	31.0	108.2		3.6 3.6 8.6	1.8	1	4		-	1			-	-	Í
					Surface	3.2	0.1	116	17.6	17.8	8.3	8.2	31.0	30.0	108.1		3.6 3.6	0.4		3 4		-				-	-	
			1			1.0 8.1	0.0	120 184	17.8 17.8		8.2 8.2		30.0 30.1		108.1		3.6 3.5 8.6	0.4]	4		-]			<u> </u>	-	İ
SR7	Cloudy	Moderate	07:34	16.2	Middle	8.1	0.1	184	17.8	17.8	8.2	8.2	30.1	30.1	107.1	107.2	3.5	0.6	0.6	4	4	-	1 -	823624	823757	· ·	-	- 1
			1		Bottom	15.2 15.2	0.1	76 78	17.8	17.8	8.2 8.2	8.2	30.1	30.1	106.7		3.5 3.5 8.5	0.8		4		-	ł			-	•	ŧ
			†		Surface	1.0	-		17.7	17.7	8.3	8.3	29.4	29.4	110.9	110.0	3.9	1.1		4		-			1	-	-	
05-	01.					1.0	-	-	17.7		8.3		29.4		110.8		3.9 - 8.9	1.2	$\left \right\rangle$	4	_	-	ł				-	ł
SR8	Cloudy	Moderate	09:00	5.1	Middle	-	-	-	-	-	-	1 -	-	·	-		-	-	1.2		5		1 .	820394	811613	<u> </u>	-	į -
			1		Bottom	4.1	-	-	17.6 17.6	17.6	8.3 8.3	8.3	29.5 29.5	29.5	109.2 109.0		8.7 8.7 8.7	1.3		6		-	ł			-	-	ŀ
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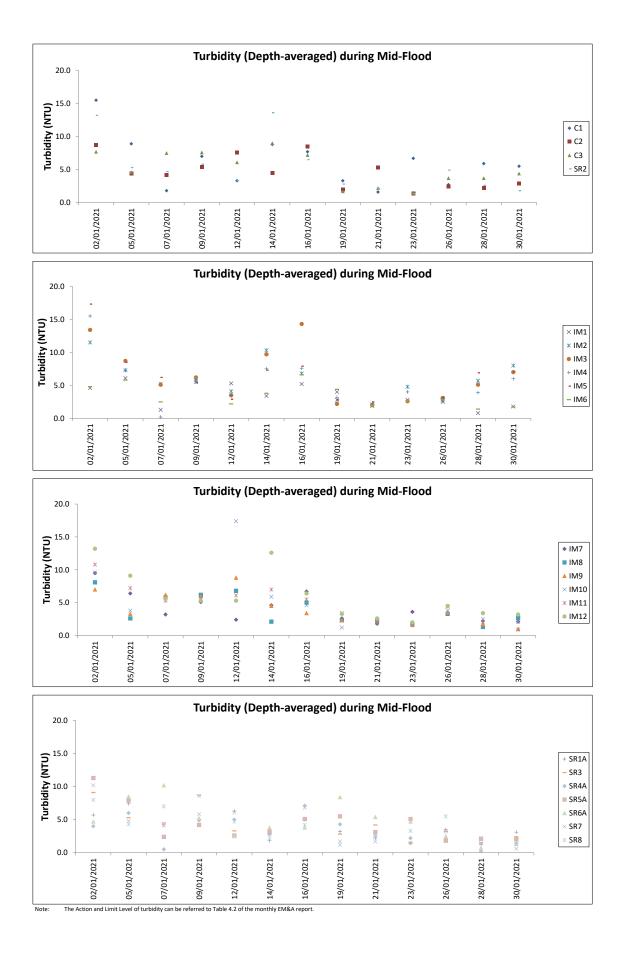


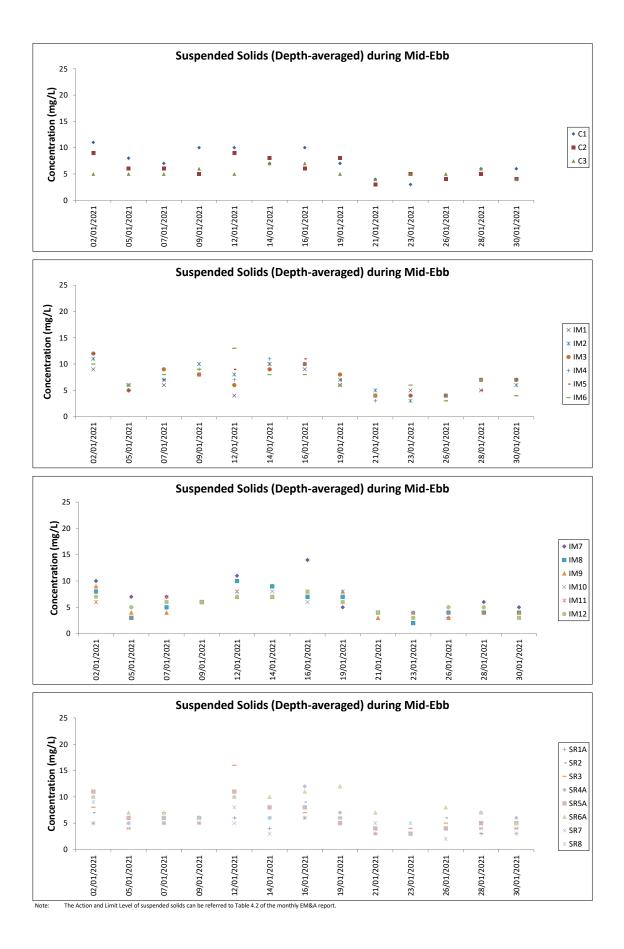


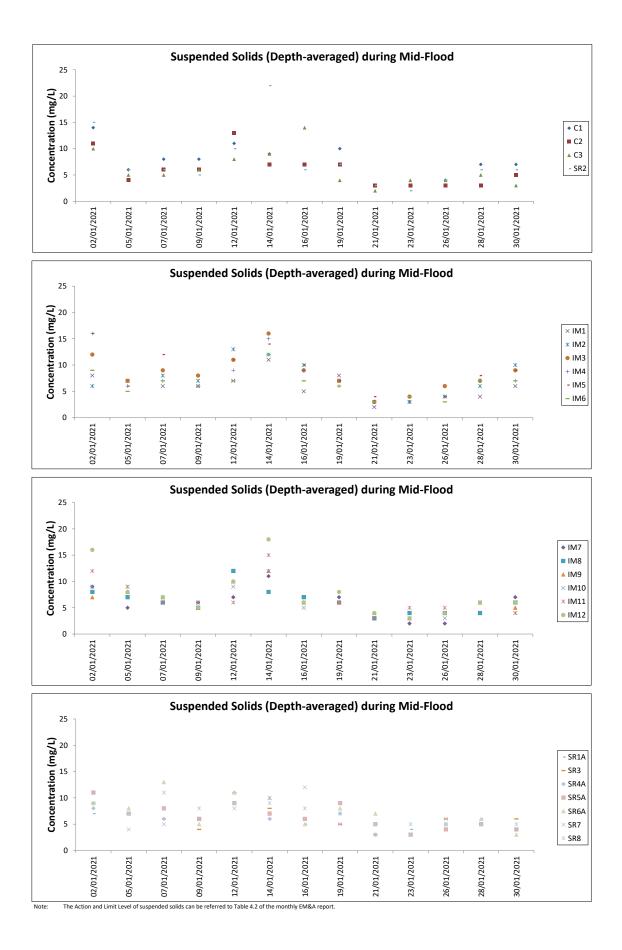


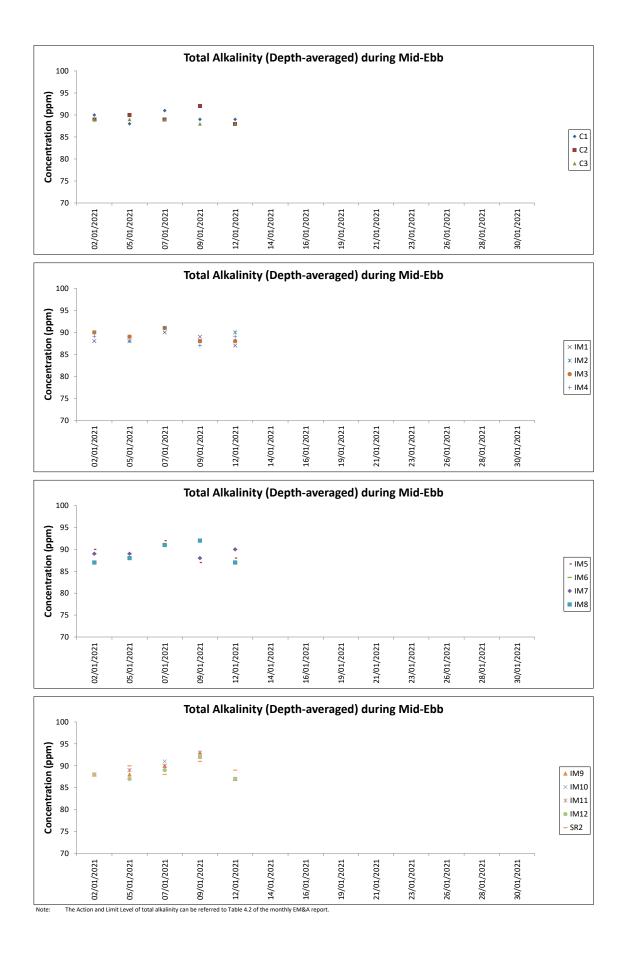


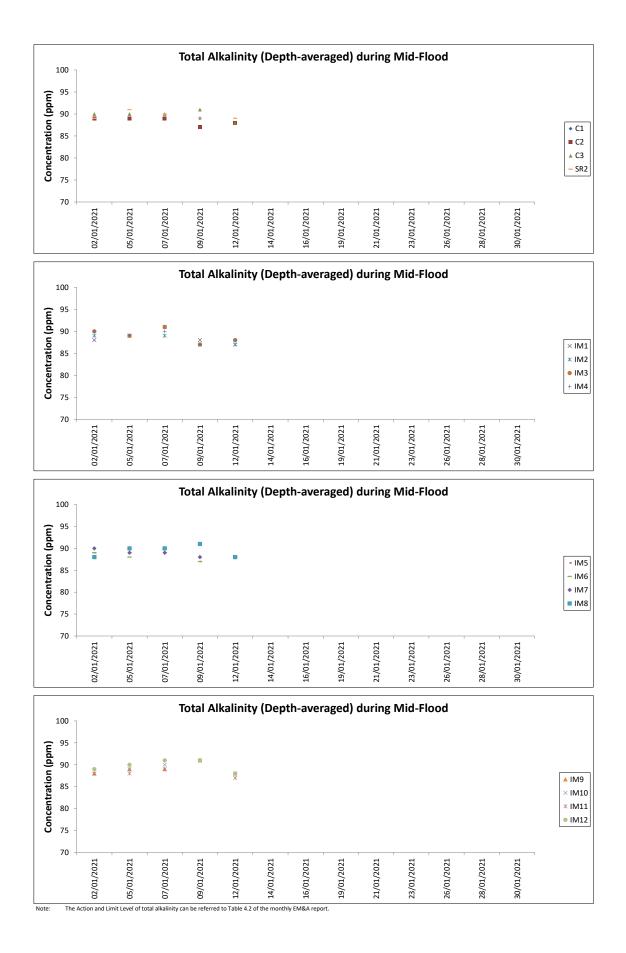


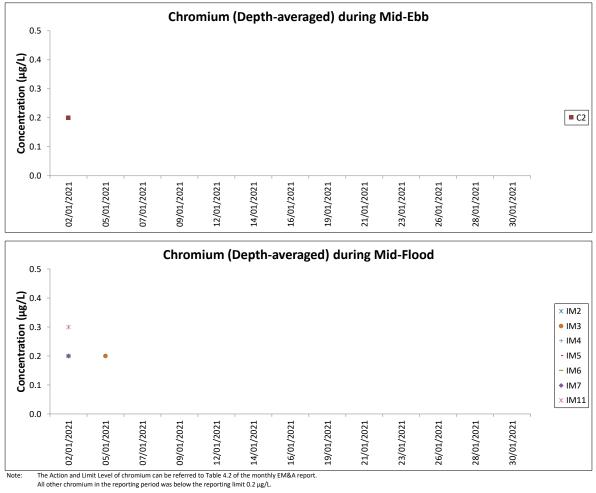


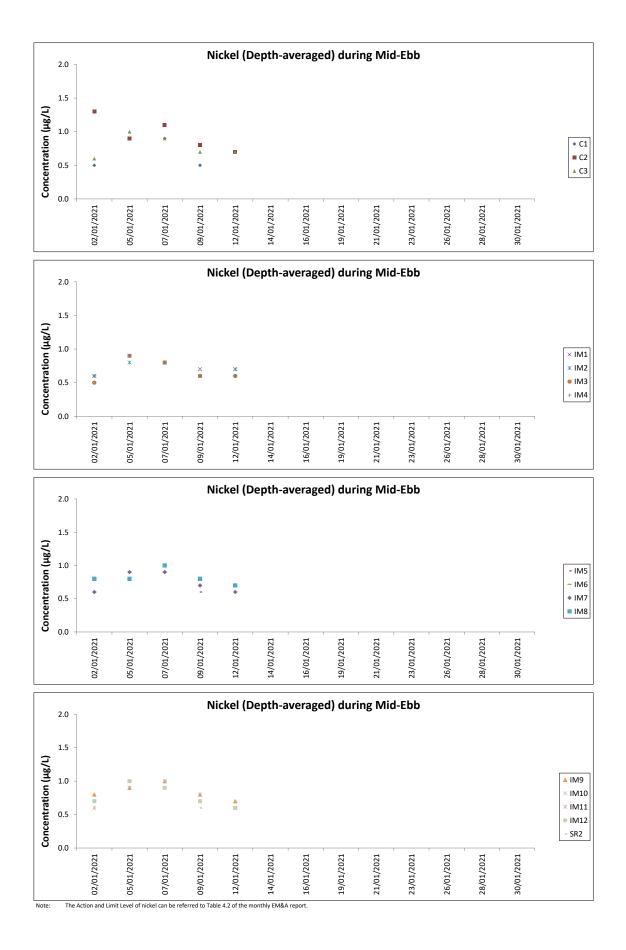


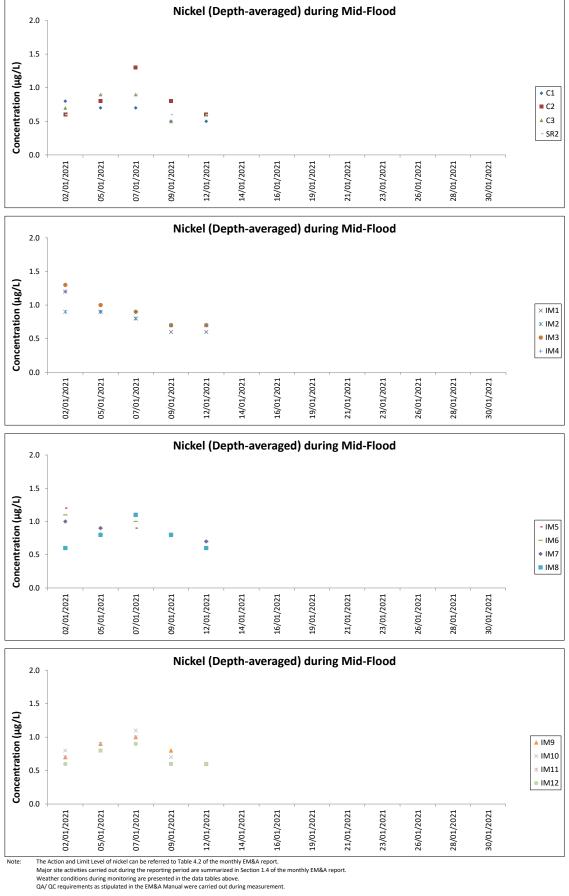












Mott MacDonald | Expansion of Hong Kong International Airport into a Three-Runway System

Chinese White Dolphin Monitoring Results

CWD Small Vessel Line-transect Survey

Survey Effort Data

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE	P/S
5-Nov-20	NWL	2	6.540	AUTUMN	32166	3RS ET	Р
5-Nov-20	NWL	3	53.550	AUTUMN	32166	3RS ET	Р
5-Nov-20	NWL	4	3.300	AUTUMN	32166	3RS ET	Р
5-Nov-20	NWL	2	3.910	AUTUMN	32166	3RS ET	S
5-Nov-20	NWL	3	7.300	AUTUMN	32166	3RS ET	S
6-Nov-20	AW	2	4.960	AUTUMN	32166	3RS ET	Р
6-Nov-20	WL	2	9.750	AUTUMN	32166	3RS ET	Р
6-Nov-20	WL	3	7.819	AUTUMN	32166	3RS ET	Р
6-Nov-20	WL	2	3.905	AUTUMN	32166	3RS ET	S
6-Nov-20	WL	3	3.314	AUTUMN	32166	3RS ET	S
9-Nov-20	NEL	2	34.800	AUTUMN	32166	3RS ET	Р
9-Nov-20	NEL	3	1.900	AUTUMN	32166	3RS ET	Р
9-Nov-20	NEL	2	9.700	AUTUMN	32166	3RS ET	S
9-Nov-20	NEL	3	0.900	AUTUMN	32166	3RS ET	S
10-Nov-20	NEL	2	36.140	AUTUMN	32166	3RS ET	Р
10-Nov-20	NEL	2	11.160	AUTUMN	32166	3RS ET	S
16-Nov-20	AW	2	2.550	AUTUMN	32166	3RS ET	Р
16-Nov-20	AW	3	1.170	AUTUMN	32166	3RS ET	Р
16-Nov-20	WL	2	5.427	AUTUMN	32166	3RS ET	Р
16-Nov-20	WL	3	13.386	AUTUMN	32166	3RS ET	Р
16-Nov-20	WL	2	3.583	AUTUMN	32166	3RS ET	S
16-Nov-20	WL	3	5.244	AUTUMN	32166	3RS ET	S
17-Nov-20	NWL	2	2.430	AUTUMN	32166	3RS ET	Р
17-Nov-20	NWL	3	45.790	AUTUMN	32166	3RS ET	Р
17-Nov-20	NWL	4	12.370	AUTUMN	32166	3RS ET	Р
17-Nov-20	NWL	5	2.900	AUTUMN	32166	3RS ET	Р
17-Nov-20	NWL	3	8.480	AUTUMN	32166	3RS ET	S
17-Nov-20	NWL	4	3.130	AUTUMN	32166	3RS ET	S
18-Nov-20	SWL	2	19.300	AUTUMN	32166	3RS ET	Р
18-Nov-20	SWL	3	35.530	AUTUMN	32166	3RS ET	Р
18-Nov-20	SWL	2	6.800	AUTUMN	32166	3RS ET	S
18-Nov-20	SWL	3	9.070	AUTUMN	32166	3RS ET	S
19-Nov-20	SWL	1	1.480	AUTUMN	32166	3RS ET	Р
19-Nov-20	SWL	2	52.830	AUTUMN	32166	3RS ET	Р
19-Nov-20	SWL	2	15.390	AUTUMN	32166	3RS ET	S
4-Dec-20	NEL	2	1.000	WINTER	32166	3RS ET	Р
4-Dec-20	NEL	3	30.450	WINTER	32166	3RS ET	Р
4-Dec-20	NEL	4	6.100	WINTER	32166	3RS ET	Р
4-Dec-20	NEL	2	1.000	WINTER	32166	3RS ET	S
4-Dec-20	NEL	3	8.450	WINTER	32166	3RS ET	S
9-Dec-20	SWL	2	22.072	WINTER	32166	3RS ET	Р
9-Dec-20	SWL	3	32.643	WINTER	32166	3RS ET	Р
9-Dec-20	SWL	2	8.280	WINTER	32166	3RS ET	S
9-Dec-20	SWL	3	6.717	WINTER	32166	3RS ET	S
10-Dec-20	SWL	2	40.788	WINTER	32166	3RS ET	Р
10-Dec-20	SWL	3	11.922	WINTER	32166	3RS ET	Р
10-Dec-20	SWL	2	13.112	WINTER	32166	3RS ET	S

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE	P/S
10-Dec-20	SWL	3	2.693	WINTER	32166	3RS ET	S
11-Dec-20	AW	1	4.850	WINTER	32166	3RS ET	Р
11-Dec-20	WL	1	4.680	WINTER	32166	3RS ET	Р
11-Dec-20	WL	2	10.655	WINTER	32166	3RS ET	Р
11-Dec-20	WL	3	4.566	WINTER	32166	3RS ET	Р
11-Dec-20	WL	1	1.310	WINTER	32166	3RS ET	S
11-Dec-20	WL	2	6.879	WINTER	32166	3RS ET	S
11-Dec-20	WL	3	2.210	WINTER	32166	3RS ET	S
15-Dec-20	NEL	2	8.700	WINTER	32166	3RS ET	Р
15-Dec-20	NEL	3	28.460	WINTER	32166	3RS ET	Р
15-Dec-20	NEL	2	3.900	WINTER	32166	3RS ET	S
15-Dec-20	NEL	3	5.940	WINTER	32166	3RS ET	S
16-Dec-20	AW	3	4.550	WINTER	32166	3RS ET	Р
16-Dec-20	WL	3	13.920	WINTER	32166	3RS ET	Р
16-Dec-20	WL	4	2.060	WINTER	32166	3RS ET	Р
16-Dec-20	WL	5	0.400	WINTER	32166	3RS ET	Р
16-Dec-20	WL	3	11.710	WINTER	32166	3RS ET	S
16-Dec-20	WL	4	1.180	WINTER	32166	3RS ET	S
18-Dec-20	NWL	2	3.100	WINTER	32166	3RS ET	Р
18-Dec-20	NWL	3	39.720	WINTER	32166	3RS ET	Р
18-Dec-20	NWL	4	19.680	WINTER	32166	3RS ET	Р
18-Dec-20	NWL	2	0.200	WINTER	32166	3RS ET	S
18-Dec-20	NWL	3	10.900	WINTER	32166	3RS ET	S
18-Dec-20	NWL	4	1.600	WINTER	32166	3RS ET	S
21-Dec-20	NWL	3	23.100	WINTER	32166	3RS ET	Р
21-Dec-20	NWL	4	40.400	WINTER	32166	3RS ET	Р
21-Dec-20	NWL	2	1.000	WINTER	32166	3RS ET	S
21-Dec-20	NWL	3	6.200	WINTER	32166	3RS ET	S
21-Dec-20	NWL	4	4.300	WINTER	32166	3RS ET	S
11-Jan-21	NEL	2	6.200	WINTER	32166	3RS ET	Р
11-Jan-21	NEL	3	24.380	WINTER	32166	3RS ET	Р
11-Jan-21	NEL	4	6.900	WINTER	32166	3RS ET	Р
11-Jan-21	NEL	2	1.900	WINTER	32166	3RS ET	S
11-Jan-21	NEL	3	7.320	WINTER	32166	3RS ET	S
11-Jan-21	NEL	4	0.500	WINTER	32166	3RS ET	S
12-Jan-21	NEL	2	8.900	WINTER	32166	3RS ET	Р
12-Jan-21	NEL	3	28.460	WINTER	32166	3RS ET	Р
12-Jan-21	NEL	2	2.600	WINTER	32166	3RS ET	S
12-Jan-21	NEL	3	7.040	WINTER	32166	3RS ET	S
15-Jan-21	SWL	2	12.333	WINTER	32166	3RS ET	Р
15-Jan-21	SWL	3	36.540	WINTER	32166	3RS ET	Р
15-Jan-21	SWL	4	0.687	WINTER	32166	3RS ET	Р
15-Jan-21	SWL	2	4.680	WINTER	32166	3RS ET	S
15-Jan-21	SWL	3	11.610	WINTER	32166	3RS ET	S
18-Jan-21	AW	3	4.810	WINTER	32166	3RS ET	Р
18-Jan-21	WL	3	18.290	WINTER	32166	3RS ET	Р
18-Jan-21	WL	4	1.470	WINTER	32166	3RS ET	Р
18-Jan-21	WL	3	9.240	WINTER	32166	3RS ET	S
18-Jan-21	WL	4	1.200	WINTER	32166	3RS ET	S

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE	P/S
19-Jan-21	NWL	2	40.189	WINTER	32166	3RS ET	Р
19-Jan-21	NWL	3	21.431	WINTER	32166	3RS ET	Р
19-Jan-21	NWL	2	8.240	WINTER	32166	3RS ET	S
19-Jan-21	NWL	3	2.750	WINTER	32166	3RS ET	S
19-Jan-21	NWL	4	0.600	WINTER	32166	3RS ET	S
20-Jan-21	NWL	2	60.280	WINTER	32166	3RS ET	Р
20-Jan-21	NWL	3	1.830	WINTER	32166	3RS ET	Р
20-Jan-21	NWL	2	11.100	WINTER	32166	3RS ET	S
20-Jan-21	NWL	3	0.490	WINTER	32166	3RS ET	S
26-Jan-21	SWL	2	52.857	WINTER	32166	3RS ET	Р
26-Jan-21	SWL	2	13.957	WINTER	32166	3RS ET	S
27-Jan-21	AW	2	4.600	WINTER	32166	3RS ET	Р
27-Jan-21	WL	2	12.824	WINTER	32166	3RS ET	Р
27-Jan-21	WL	3	4.560	WINTER	32166	3RS ET	Р
27-Jan-21	WL	2	7.273	WINTER	32166	3RS ET	S
27-Jan-21	WL	3	3.305	WINTER	32166	3RS ET	S

Notes: CWD monitoring survey data of the two preceding survey months are presented for reference only.

CWD Small Vessel Line-transect Survey

2

11-Dec-20

1146

CWD

2

WL

2

133

ON

3RS ET

22.2149

113.8312

WINTER

NONE

DATE	STG #	TIME	CWD/FP	GP SZ	AREA	BEAU	PSD	EFFORT	TYPE	DEC LAT	DEC LON	SEASON	BOAT ASSOC.	P/S
5-Nov-20	1	1044	CWD	1	NWL	3	112	ON	3RS ET	22.2740	113.8757	AUTUMN	NONE	S
6-Nov-20	1	1018	CWD	5	WL	2	821	ON	3RS ET	22.2759	113.8504	AUTUMN	NONE	S
6-Nov-20	2	1341	CWD	3	WL	3	206	ON	3RS ET	22.2506	113.8463	AUTUMN	NONE	Р
6-Nov-20	3	1400	CWD	4	WL	2	236	ON	3RS ET	22.2414	113.8416	AUTUMN	NONE	Р
6-Nov-20	4	1429	CWD	4	WL	3	246	ON	3RS ET	22.2321	113.8358	AUTUMN	NONE	Р
6-Nov-20	5	1443	CWD	5	WL	2	216	ON	3RS ET	22.2236	113.8373	AUTUMN	NONE	S
6-Nov-20	6	1513	CWD	4	WL	2	500	ON	3RS ET	22.2042	113.8219	AUTUMN	NONE	S
16-Nov-20	1	0940	CWD	2	AW	2	475	ON	3RS ET	22.2971	113.8842	AUTUMN	GILLNETTER	Р
16-Nov-20	2	1040	CWD	1	WL	3	800	ON	3RS ET	22.2740	113.8482	AUTUMN	NONE	S
16-Nov-20	3	1059	CWD	4	WL	3	14	ON	3RS ET	22.2607	113.8480	AUTUMN	NONE	Р
16-Nov-20	4	1210	CWD	3	WL	3	232	ON	3RS ET	22.2139	113.8226	AUTUMN	NONE	Р
16-Nov-20	5	1249	CWD	1	WL	2	285	ON	3RS ET	22.2055	113.8336	AUTUMN	NONE	Р
16-Nov-20	6	1317	CWD	3	WL	2	608	ON	3RS ET	22.1901	113.8421	AUTUMN	NONE	S
17-Nov-20	1	1034	CWD	1	NWL	4	24	ON	3RS ET	22.2723	113.8701	AUTUMN	NONE	Р
19-Nov-20	1	1202	FP	2	SWL	2	62	ON	3RS ET	22.1621	113.9184	AUTUMN	NONE	Р
19-Nov-20	2	1514	CWD	4	SWL	2	71	ON	3RS ET	22.1883	113.8491	AUTUMN	NONE	Р
9-Dec-20	1	1117	CWD	1	SWL	2	111	ON	3RS ET	22.1828	113.9277	WINTER	NONE	Р
9-Dec-20	2	1159	CWD	1	SWL	2	59	ON	3RS ET	22.1730	113.9191	WINTER	NONE	Р
9-Dec-20	3	1211	CWD	1	SWL	2	21	ON	3RS ET	22.1702	113.9188	WINTER	NONE	Р
9-Dec-20	4	1224	FP	2	SWL	3	22	ON	3RS ET	22.1562	113.9183	WINTER	NONE	Р
9-Dec-20	5	1247	CWD	2	SWL	2	148	ON	3RS ET	22.1623	113.8987	WINTER	NONE	S
9-Dec-20	6	1351	CWD	1	SWL	3	7	ON	3RS ET	22.1487	113.8958	WINTER	NONE	S
9-Dec-20	7	1516	CWD	3	SWL	3	389	ON	3RS ET	22.2007	113.8678	WINTER	NONE	Р
10-Dec-20	1	1107	FP	1	SWL	2	3	ON	3RS ET	22.1645	113.9276	WINTER	NONE	Р
10-Dec-20	2	1156	FP	1	SWL	2	54	ON	3RS ET	22.1473	113.9180	WINTER	NONE	Р
10-Dec-20	3	1307	FP	1	SWL	2	51	ON	3RS ET	22.1548	113.8975	WINTER	NONE	Р
10-Dec-20	4	1430	CWD	2	SWL	3	53	ON	3RS ET	22.1921	113.8679	WINTER	NONE	Р
10-Dec-20	5	1448	CWD	1	SWL	3	122	ON	3RS ET	22.1991	113.8600	WINTER	NONE	S
10-Dec-20	6	1459	CWD	1	SWL	3	449	ON	3RS ET	22.1951	113.8589	WINTER	NONE	Р
10-Dec-20	7	1535	CWD	4	SWL	3	805	ON	3RS ET	22.1905	113.8490	WINTER	NONE	Р
11-Dec-20	1	1129	CWD	1	WL	2	109	ON	3RS ET	22.2229	113.8213	WINTER	NONE	Р
	+	1	1	1	1	1	+	1	1	+	+	+	+	+

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Sighting Data

DATE	STG #	TIME	CWD/FP	GP SZ	AREA	BEAU	PSD	EFFORT	TYPE	DEC LAT	DEC LON	SEASON	BOAT ASSOC.	P/S
16-Dec-20	1	0940	CWD	2	AW	3	19	ON	3RS ET	22.2937	113.8775	WINTER	NONE	Р
16-Dec-20	2	1039	CWD	4	WL	3	493	ON	3RS ET	22.2687	113.8538	WINTER	NONE	Р
16-Dec-20	3	1139	CWD	1	WL	3	8	ON	3RS ET	22.2323	113.8307	WINTER	NONE	Р
15-Jan-21	1	1154	FP	2	SWL	3	19	ON	3RS ET	22.1678	113.9182	WINTER	NONE	Р
15-Jan-21	2	1335	CWD	3	SWL	3	789	ON	3RS ET	22.183	113.8875	WINTER	NONE	Р
15-Jan-21	3	1443	CWD	1	SWL	2	652	ON	3RS ET	22.1758	113.8685	WINTER	NONE	Р
18-Jan-21	1	1116	CWD	3	WL	3	336	ON	3RS ET	22.2421	113.8321	WINTER	NONE	Р
18-Jan-21	2	1246	CWD	6	WL	3	45	ON	3RS ET	22.1871	113.8342	WINTER	NONE	Р
19-Jan-21	1	0948	CWD	9	NWL	3	1196	ON	3RS ET	22.3799	113.8698	WINTER	NONE	Р
19-Jan-21	2	1217	CWD	2	NWL	3	278	ON	3RS ET	22.3974	113.8879	WINTER	NONE	Р
19-Jan-21	3	1325	CWD	2	NWL	2	57	ON	3RS ET	22.3703	113.8964	WINTER	NONE	Р
19-Jan-21	4	1412	CWD	3	NWL	2	299	ON	3RS ET	22.3549	113.9074	WINTER	NONE	Р
20-Jan-21	1	1031	CWD	12	NWL	2	212	ON	3RS ET	22.2743	113.8703	WINTER	NONE	Р
20-Jan-21	2	1149	CWD	7	NWL	3	88	ON	3RS ET	22.3515	113.8779	WINTER	NONE	Р
26-Jan-21	1	1216	FP	5	SWL	2	17	ON	3RS ET	22.1549	113.9073	WINTER	NONE	S
26-Jan-21	2	1251	CWD	1	SWL	2	38	ON	3RS ET	22.2080	113.9047	WINTER	GILLNETTER	S
26-Jan-21	3	1327	FP	3	SWL	2	346	ON	3RS ET	22.1617	113.8975	WINTER	NONE	Р
26-Jan-21	4	1330	FP	2	SWL	2	59	ON	3RS ET	22.1577	113.8978	WINTER	NONE	Р
26-Jan-21	5	1339	FP	1	SWL	2	22	ON	3RS ET	22.1496	113.8918	WINTER	NONE	S
26-Jan-21	6	1348	FP	1	SWL	2	34	ON	3RS ET	22.1644	113.8884	WINTER	NONE	Р
26-Jan-21	7	1512	CWD	1	SWL	2	396	ON	3RS ET	22.1828	113.8596	WINTER	NONE	Р
26-Jan-21	8	1531	CWD	4	SWL	2	725	ON	3RS ET	22.1711	113.8537	WINTER	NONE	S
27-Jan-21	1	1009	CWD	5	WL	2	127	ON	3RS ET	22.2861	113.8613	WINTER	NONE	Р
27-Jan-21	2	1029	CWD	3	WL	2	470	ON	3RS ET	22.2737	113.8491	WINTER	NONE	S
27-Jan-21	3	1038	CWD	5	WL	2	79	ON	3RS ET	22.2694	113.8502	WINTER	NONE	Р
27-Jan-21	4	1208	CWD	1	WL	2	258	ON	3RS ET	22.1962	113.8300	WINTER	NONE	Р
27-Jan-21	5	1221	CWD	7	WL	2	45	ON	3RS ET	22.1960	113.8340	WINTER	NONE	Р

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 429.989 km of survey effort was collected under Beaufort Sea State 3 or below with favourable visibility; total no. of 18 on-effort sightings and total number of 75 dolphins from on-effort sightings were collected under such condition. Calculation of the encounter rates in January 2021 are shown as below:

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

$$STG = \frac{18}{429,989} \times 100 = 4.19$$

Encounter Rate by Number of Dolphins (ANI) in January 2021 $ANI = \frac{75}{429.989} \ x \ 100 = 17.44$

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

A total of 1229.774 km of survey effort was collected under Beaufort Sea State 3 or below with favourable visibility; total no. of 47 on-effort sightings and total number of 146 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)

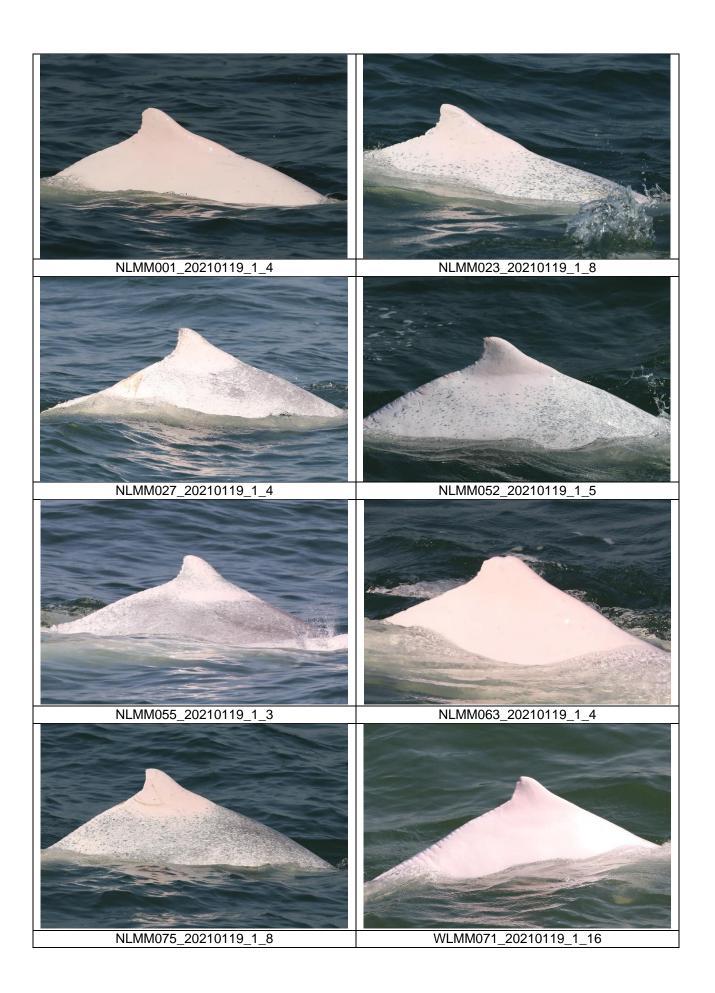
$$STG = \frac{47}{1229.774} \ x \ 100 = 3.82$$

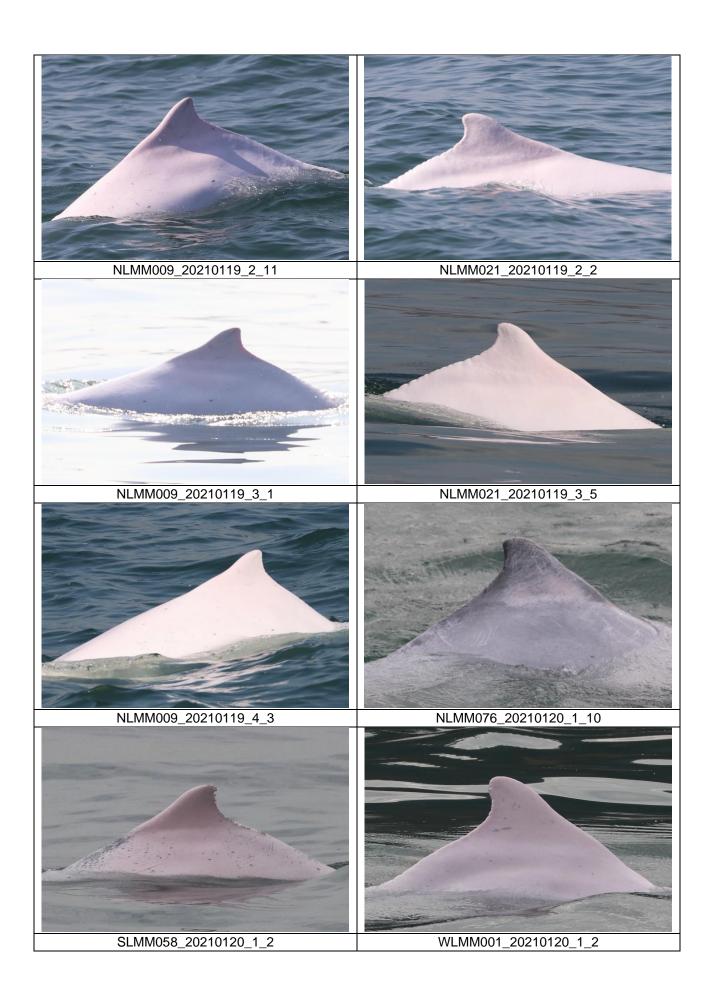
<u>Running Quarterly Encounter Rate by Number of Dolphins (ANI)</u> $ANI = \frac{146}{1229.774} \ x \ 100 = 11.87$

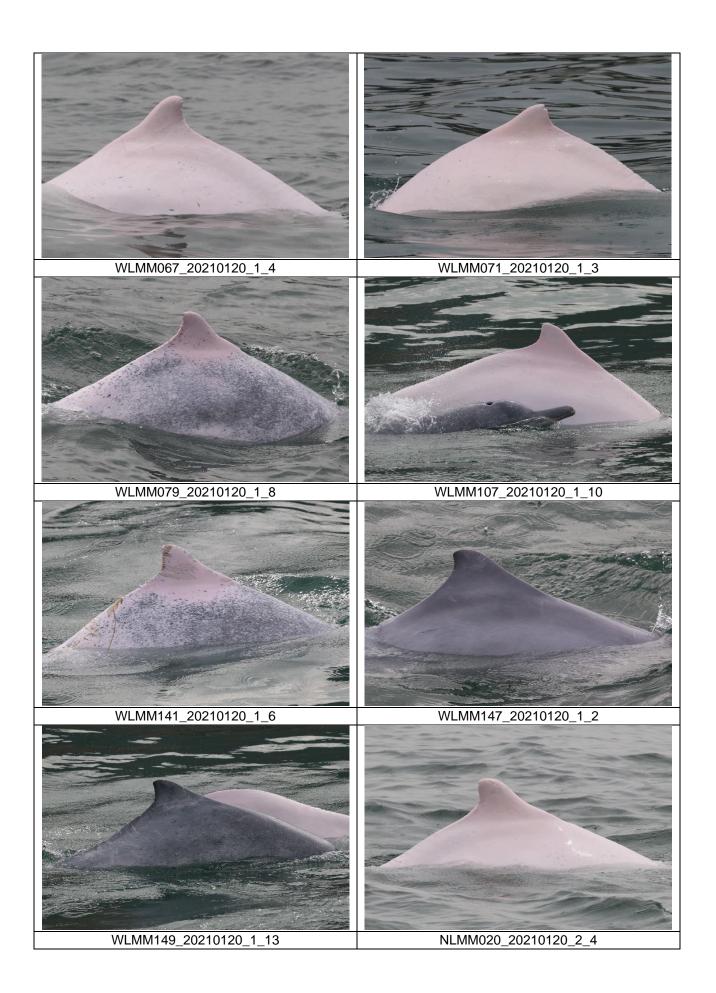
CWD Small Vessel Line-transect Survey

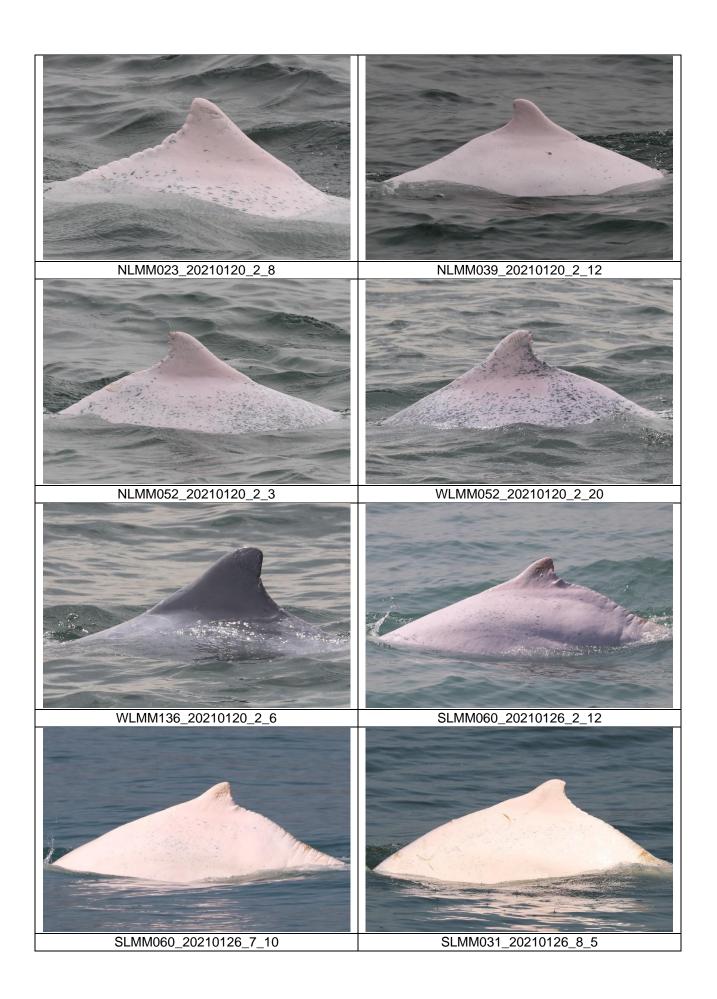
Photo Identification



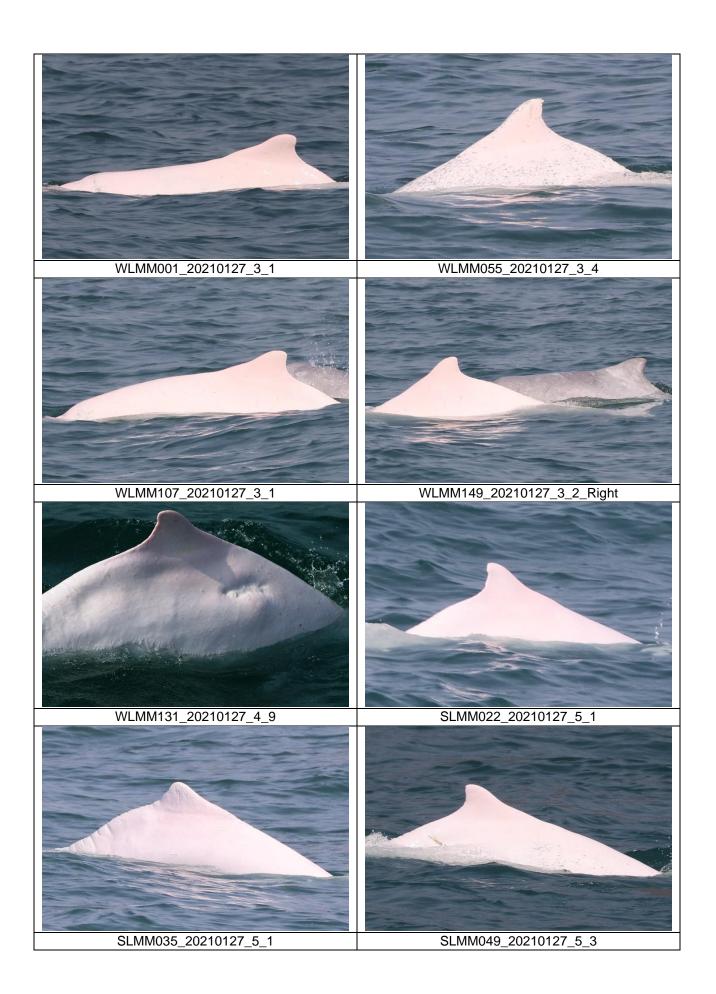














CWD Groups by Survey Date

Date	Station	Start Time	End Time	Duration	Beaufort Range	Visibility	No. of Focal Follow Dolphin Groups Tracked	Dolphin Group Size Range
15/Jan/21	Lung Kwu Chau	9:02	15:02	6:00	2	2-3	3	2-3
27/Jan/21	Sha Chau	10:59	16:59	6:00	2	3	0	0

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

Appendix D. Calibration Certificates



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PART A - CUSTOMER INFORMATION

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

PART B - DESCRIPTION

Name of Equipment	: YSI ProDSS (Multi-Parameters)
Manufacturer	: YSI (a xylem brand)
Serial Number	: 15M100005
Date of Received	: Jan 18, 2021
Date of Calibration	: Jan 18, 2021
Date of Next Calibration(a)	: Apr 17, 2021

PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

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

PART D - CALIBRATION RESULTS^(b,c)

(1) pH at 25°C

Target (pH unit)	Displayed Reading ^(d) (pH Unit)	Tolerance ^(e) (pH Unit)	Results
4.00	4.04	0.04	Satisfactory
7.42	7.43	0.01	Satisfactory
10.01	9.91	-0.10	Satisfactory

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

(2) Temperature

Reading of Ref. thermometer	Displayed Reading (°C)	Tolerance (°C)	Results
15	15.0	0.0	Satisfactory
30	29.9	-0.1	Satisfactory
40	41.0	1.0	Satisfactory

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

~ CONTINUED ON NEXT PAGE ~

Remark(s): -

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

(b) The results relate only to the calibrated equipment as received

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

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

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

LEE Chun-ning, Desmond Senior Chemist



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PART D - CALIBRATION RESULTS (Cont'd)

(3) Dissolved Oxygen

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)	Results
1.37	1.42	0.05	Satisfactory
4.90	4.91	0.01	Satisfactory
6.88	6.90	0.02	Satisfactory
8.58	8.78	0.20	Satisfactory

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

(4) Conductivity at 25°C

Conc. of KCl (M)	Expected Reading (µS/cm)	Displayed Reading (µS/cm)	Tolerance (%)	Results
0.001	146.9	149.5	1.77	Satisfactory
0.01	1412	1387	-1.77	Satisfactory
0.1	12890	12927	0.29	Satisfactory
0.5	58670	57334	-2.28	Satisfactory
1.0	111900	112918	0.91	Satisfactory

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

(5) Salinity

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)	Results
10	10.03	0.30	Satisfactory
20	20.11	0.55	Satisfactory
30	31.15	3.83	Satisfactory

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

(6) Turbidity

Expected Reading (NTU)	Displayed Reading ^(f) (NTU)	Tolerance ^(g) (%)	Results
0	0.05		Satisfactory
10	10.09	0.9	Satisfactory
20	21.04	5.2	Satisfactory
100	104.68	4.7	Satisfactory
800	806.11	0.8	Satisfactory

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

~ END OF REPORT ~

<u>Remark(s): -</u>

- (g)
- "Displayed Reading" presents the figures 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.



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PART A – CUSTOMER INFORMATION

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

PART B - DESCRIPTION

Name of Equipment	: YSI ProDSS (Multi-Parameters)
Manufacturer	: YSI (a xylem brand)
Serial Number	: 16H104234
Date of Received	: Jan 18, 2021
Date of Calibration	: Jan 18, 2021
Date of Next Calibration(a)	: Apr 17, 2021

PART C – REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

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

PART D - CALIBRATION RESULTS^(b,c)

(1) pH at 25°C

Target (nH unit)	Displayed Reading ^(d) (pH Unit)	Tolerance ^(e) (pH Unit)	Results
Target (pH unit) 4.00	4.11	0.11	Satisfactory
7.42	7.42	0.00	Satisfactory
5900-000	10.09	0.08	Satisfactory
10.01	10.07		

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

(2) Temperature

Reading of Ref. thermometer	Displayed Reading (°C)	Tolerance (°C)	Results
(*C)	15.0	0.0	Satisfactory
15	29.9	-0.1	Satisfactory
40	41.0	1.0	Satisfactory

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

~ CONTINUED ON NEXT PAGE ~

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 (b)

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

- "Displayed Reading" denotes the figure shown on item under calibration/ checking regardless of equipment precision or significant figures. (d)
- The "Tolerance Limit" mentioned is the acceptance criteria applicable for similar equipment used by Quality Pro Test-Consult Ltd. or quoted form (e)

relevant international standards ..

LEE Chun-ning, Desmond Senior Chemist



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PART D - CALIBRATION RESULTS (Cont'd)

(3) Dissolved Oxygen

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)	Results
1.37	1.43	0.06	Satisfactory
4.90	4.93	0.03	Satisfactory
6.88	6.91	0.03	Satisfactory
8.58	8.77	0.19	Satisfactory

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

(4) Conductivity at 25°C

Conc. of KCl (M)	Expected Reading (µS/cm)	Displayed Reading (µS/cm)	Tolerance (%)	Results
0.001	146.9	148.7	1.23	Satisfactory
0.01	1412	1325	-6.16	Satisfactory
0.1	12890	12810	-0.62	Satisfactory
0.5	58670	59884	2.07	Satisfactory
1.0	111900	112830	0.83	Satisfactory

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

(5) Salinity

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)	Results
10	10.05	0.50	Satisfactory
20	20.03	0.15	Satisfactory
30	31.13	3.77	Satisfactory

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

(6) Turbidity

Expected Reading (NTU)	Displayed Reading ^(f) (NTU)	Tolerance ^(g) (%)	Results
0	0.04		Satisfactory
10	10.12	1.2	Satisfactory
20	20.89	4.5	Satisfactory
100	103.42	3.4	Satisfactory
800	798.71	-0.2	Satisfactory

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

~ END OF REPORT ~

Remark(s): -

(1)

"Displayed Reading" presents the figures 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 (g) relevant international standards.

Appendix E. Status of Environmental Permits and Licences

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

Contract No.	Description	Location	Permit/ Reference No.	Status
3206	Notification of Construction Work	Works area of 3206	409237	Receipt acknowledged by EPD on 25 Oct 2016
	under APCO	Works area of 3206 (Area 11)	447899	Receipt acknowledged by EPD on 8 Aug 2019
	Registration as Chemical Waste	Site office of 3206	WPN 5213-951- Z4035-01	Completion of Registration on 18 Nov 2016
	Producer	Works area of 3206	WPN 5213-951- Z4035-02	Completion of Registration on 18 Nov 2016
		Works Area of 3206 (Area 11)	WPN 5213-951- Z4035-04	Completion of Registration on 4 Sep 2019
	Construction Noise Permit (General Works)	Works Area of 3206	GW-RS0971-20	Valid from 23 Dec 2020 to 20 Jun 2021
		Works Area of 3206 (Area 11)	GW-RS0621-20	Valid from 6 Sep 2020 to 1 Mar 2021
	Bill Account for disposal	Works area of 3206	A/C 7026398	Approval granted from EPD on 16 Nov 2016
3301	Notification of Construction Work under APCO	Works area of 3301	415821	Receipt acknowledged by EPD on 19 Apr 2017
	Registration as Chemical Waste Producer	Works area of 3301	WPN 5213-951- F2718-02	Completion of Registration on 9 Jun 2017
	Discharge License under WPCO	Works area of 3301	WT00029286- 2017	Valid from 20 Sep 2017 to 30 Sep 2022
	Bill Account for disposal	Works area of 3301	A/C 7027728	Approval granted from EPD on 8 May 2017
	Construction Noise Permit (General Works)	Works area of 3301	GW-RS0740-20	Valid from 12 Oct 2020 to 11 Apr 2021
	Construction Noise Permit (Special Case)	Works area of 3301 (Cable ducting works)	GW-RS0617-20	Valid from 14 Sep 2020 to 13 Mar 2021
3302	Notification of Construction Work under APCO	Works area of 3302	440222	Receipt acknowledged by EPD on 10 Dec 2018
		Staging area of 3302	2018CES1	Receipt acknowledged by EPD on 21 Dec 2018
			454882	Receipt acknowledged by EPD on 2 Apr 2020
	Registration as Chemical Waste Producer	Works area of 3302	5296-951-C4331- 01	Completion of Registration on 4 Jan 2019

Contract No.	Description	Location	Permit/ Reference No.	Status
	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 area of 3302	GW-RS0438-20	Superseded by GW-RS0988-20
	Works)		GW-RS0988-20	Valid from 7 Jan 2021 to 6 July 2021
			GW-RS0447-20	Superseded by GW-RS0987-20
			GW-RS0987-20	Valid from 7 Jan 2020 to 6 July 2021
3303	Notification of Construction Work under APCO	Works area of 3303	445611	Receipt acknowledged by EPD on 27 May 2019
	Registration as Chemical Waste Producer	Works area of 3303	5213-951-S4174- 01	Completion of Registration on 17 Jun 2019
	Discharge License under WPCO	Works area of 3303	WT00035689- 2020	Valid from 11 May 2020 to 31 May 2025
		Works area of 3303	WT00036734- 2020	Valid from 1 Dec 2020 to 31 Dec 2025
	Bill Account for disposal	Works area of 3303	A/C 7034272	Approval granted from EPD on 10 Jun 2019
	Construction Noise Permit (General Works)	Works area of 3303 (Existing airport)	GW-RS0825-20	Valid from 16 Nov 2020 to 15 May 2021
		Works area of 3303	GW-RS0915-20	Superseded by GW-RS0015-21
		(Reclamation area)	GW-RS0015-21	Valid from 14 Jan 2021 to 3 Jul 2021
		Works area of 3303 (South East Quay)	GW-RS0655-20	Valid from 16 Sep 2020 to 6 Mar 2021
3307	Notification of Construction Work under APCO	Works area of 3307	454964	Receipt acknowledged by EPD on 6 Apr 2020
	Registration as Chemical Waste Producer	Works area of 3307	5211-951-P3379- 01	Completion of Registration on 8 Jun 2020
	Discharge License under WPCO	Works area of 3307	WT00036926- 2020	Valid from 31 Dec 2020 to 31 Dec 2025
	Bill Account for disposal	Works area of 3307	A/C 7037129	Approval granted from EPD on 5 May 2020
	Construction Noise Permit (General Works)	Works area of 3307	GW-RS0532-20	Valid from 9 Aug 2020 to 6 Feb 2021
3403	Notification of Construction Work under APCO	Works area of 3403	450860	Receipt acknowledged by EPD on 11 Nov 2019
	Registration as Chemical Waste Producer	Works area of 3403	WPN 5213-951- S4218-01	Completion of Registration on 9 Jan 2020
	Discharge License under WPCO	Works area of 3403	WT00035841- 2020	Valid from 5 Jun 2020 to 30 Jun 2025
	Bill Account for disposal	Works area of 3403	A/C 7035267	Approval granted from EPD on 30 Sep 2019

Contract No.	Description Location Permit/ Reference N		Permit/ Reference No.	Status o.	
	Construction Noise Permit (General Works)	Works area of 3403	GW-RS0822-20	Valid from 29 Nov 2020 to 28 May 2021	
	Construction Noise Permit (Special Case)	Works area of 3403	GW-RS0635-20	Valid from 18 Sep 2020 to 17 Mar 2021	
			GW-RS0989-20	Superseded by GW-RS0010-21	
			GW-RS0010-21	Valid from 15 Jan 2021 to 31 May 2021	
3405	Notification of Construction Work under APCO	Works area of 3405	453447	Receipt acknowledged by EPD on 18 Fe 2020	
	Registration as Chemical Waste Producer	Works area of 3405	WPN 5218-951- Completion of Registration on 12 Mar C4431-01		
	Bill Account for disposal	Works area of 3405	A/C 7036796 Approval granted from EPD on 20 M 2020		
	Construction Noise	Works area of	GW-RS0769-20	Superseded by GW-RS0013-21	
	Permit (General Works)	3405	GW-RS0013-21	Valid from 16 Jan 2021 to 7 Jul 2021	
3503	Notification of Construction Work under APCO	Works area of 3503	459394	Receipt acknowledged by EPD on 28 A 2020	
		Stockpiling area of 3503	459392	Receipt acknowledged by EPD on 28 Aug 2020	
	Registration as Chemical Waste Producer	Works area of 3503	WPN 5113-951- L2845-02	Completion of Registration on 8 Jan 2018	
	Discharge License under WPCO	Works area of 3503	WT00031258- 2018	Valid from 7 Jun 2018 to 30 Jun 2023	
			WT00036551- 2020	Valid from 17 Sep 2020 to 30 Sep 2025	
			WT00036697- 2020	Valid from 2 Nov 2020 to 30 Nov 2025	
	Bill Account for disposal	Works area of 3503	A/C 7029665	Approval granted from EPD on 27 Do 2017	
	Construction Noise Permit (General Works)	Works area of 3503	GW-RS0789-20	Valid from 24 Oct 2020 to 15 Apr 2021	
		Stockpiling area of 3503	GW-RS0870-20	Valid from 25 Nov 2020 to 30 Apr 2021	
		Works area of 3503 (Special Case)	GW-RS0442-20	Superseded by GW-RS0997-20	
			GW-RS0997-20	Valid from 1 Jan 2021 to 28 Feb 2021	
			GW-RS0869-20	Valid from 25 Nov 2020 to 31 Jan 2021	
			GW-RS0871-20	Valid from 1 Dec 2020 to 31 Jan 2021	
3508	Notification of Construction Work under APCO	Works area of 3508	459469	Receipt acknowledged by EPD on 4 Sep 2020	
	Registration as Chemical Waste Producer	Works area of 3508	WPN-5218-951- G2898-01	Completion of Registration on 28 Sep 2020	
	Bill Account for disposal	Works area of 3508	7038224	Approval granted from EPD on 8 Sep 2020	
	Construction Noise Permit (General	Works area of 3508	GW-RS0882-20	Valid from 26 Nov 2020 to 23 May 2021	
	Works)	Works area of 3508(Area 3)	GW-RS0802-20	Valid from 27 Oct 2020 to 23 Apr 2021	
		Works area of 3508	GW-RS0884-20	Valid from 27 Nov 2020 to 25 May 2021	

Contract No.	Description	Location	Permit/ Reference No.	Status	
3601	Notification of Construction Work under APCO	Works area of 3601	451765	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	
3602	Notification of Construction Work under APCO	Works area of 3602	421278	Receipt acknowledged by EPD on 18 Sep 2017	
	Registration as Chemical Waste	Works area of 3602	WPN 5296-951- N2673-01	Completion of Registration on 9 Oct 2017	
	Producer	Site office of 3602	WPN 5296-951- N2673-02	Completion of Registration on 11 Dec 2017	
	Bill Account for disposal	Works area of 3602	A/C 7028942	Approval granted from EPD on 6 Oct 2017	
	Construction Noise Permit (General Works)	Works area of 3602	GW-RS0692-20	Valid from 1 Oct 2020 to 30 Mar 2021	
3603	Notification of Construction Work under APCO	Site office of 3603	433604	Receipt acknowledged by EPD on 16 May 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-RS0681-20	Valid from 6 Oct 2020 to 5 Apr 2021	
3721	Notification of Construction Work under APCO	Works area of 3721	448657	Receipt acknowledged by EPD on 02 Sep 2019	
	Registration as Chemical Waste Producer	Works area of 3721	WPN 5218-951- C4412-01	Completion of Registration on 9 Dec 2019	
	Bill Account for disposal	Works area of 3721	A/C 705234	Approval granted from EPD on 25 Sep 2019	
	Construction Noise Permit (General Works)	Works area of 3721	GW-RS0916-20	Valid from 5 Dec 2020 to 3 Jun 2021	
3722	Notification of Construction Work under APCO	Works area of 3722A	453195	Receipt acknowledged by EPD on 11 Feb 2020	
		Works area of 3722B	453671	Receipt acknowledged by EPD on 25 Feb 2020	
		Works area of 3722C	453673	Receipt acknowledged by EPD on 25 Feb 2020	
		Works area of 3722D	453675	Receipt acknowledged by EPD on 25 Feb 2020	
	Registration as Chemical Waste Producer	Works area of 3722A	WPN 5218-951- T3863-01	Completion of Registration on 18 Mar 2020	
		Works area of 3722B	WPN 5218-951- T3864-01	Completion of Registration on 18 Mar 2020	
		Works area of 3722C	WPN 5218-951- T3862-01	Completion of Registration on 18 Mar 2020	
		Works area of 3722D	WPN 5218-951- T3865-01	Completion of Registration on 18 Mar 2020	

Contract No.	Description	Location	Permit/ Reference No.	Status
	Bill Account for disposal	Works area of 3722A	A/C 7036752	Approval granted from EPD on 11 Mar 2020
		Works area of 3722B	A/C 7036966	Approval granted from EPD on 6 Apr 2020
		Works area of 3722C	A/C 7036967	Approval granted from EPD on 6 Apr 2020
		Works area of 3722D	A/C 7036795	Approval granted from EPD on 20 Mar 2020
	Construction Noise Permit (General Works)	Works area of 3722A, 3722B, 3722C and 3722D	GW-RS0677-20	Valid from 18 Sep 2020 to 14 Mar 2021
3801	Notification of Construction Work	Works area of 3801	418345	Receipt acknowledged by EPD on 26 Jun 2017
	under APCO		430372	Receipt acknowledged by EPD on 2 Feb 2018
			435652	Receipt acknowledged by EPD on 16 Jul 2018
			451991	Receipt acknowledged by EPD on 18 Dec 2019
		Stockpiling area of 3801	450940	Receipt acknowledged by EPD on 13 Nov 2019
	Registration as Chemical Waste Producer	Works area of 3801	WPN 5296-951- C1169-53	Completion of Registration on 14 Aug 2018
	Discharge License under WPCO	Works and stockpiling area of 3801	WT00029535- 2017	Valid from 24 Nov 2017 to 30 Nov 2022
	Bill Account for disposal	Works area of 3801	A/C 7028254	Approval granted from EPD on 3 Jul 2017
	Construction Noise Permit (General Works)	Works area of 3801	GW-RS0826-20	Valid from 31 Oct 2020 to 27 Apr 2021
	Construction Noise Permit (Special case)	Works area of 3801	GW-RS0633-20	Valid from 10 Sep 2020 to 3 Mar 2021
3802	Notification of Construction Work under APCO	Works area of 3802	458122	Receipt acknowledged by EPD on 14 Jul 2020
	Registration as Chemical Waste Producer	Works area of 3802	WPN 5218-951- G2895-01	Completion of Registration on 28 Aug 2020
	Bill Account for disposal	Works area of 3802	A/C 7037575	Approval granted from EPD on 15 Jun 2020
	Construction Noise Permit (General Works)	Works area of 3802	GW-RS0972-20	Valid from 23 Dec 2020 to 22 Jun 2021
3901A	Notification of Construction Work under APCO	Works area of 3901A	456240	Receipt acknowledged by EPD on 18 May 2020
	Specified Process license under APCO	Works area of 3901A	L-3-261(1)	Valid from 14 Sep 2020 to 13 Sep 2024
	Registration as Chemical Waste Producer	Works area of 3901A	WPN 5218-951- K3400-01	Completion of Registration on 17 Jul 2020

Contract No.	Description	Location	Permit/ Reference No.	Status
	Bill Account for disposal	Works area of 3901A	7037889	Approval granted from EPD on 20 Jul 2020
	Construction Noise Permit (General Works)	Works area of 3901A	GW-RS0850-20	Valid from 25 Nov 2020 to 24 May 2021
3901B	Notification of Construction Work under APCO	Works area of 3901B	452168	Receipt acknowledged by EPD on 23 Dec 2019
	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-RS0658-20	Valid from 18 Sep 2020 to 13 Mar 2021

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

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

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

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	3	0	0	
From 28 December 2015 to end of the reporting period	30	1	1	