



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

Construction Phase Monthly EM&A Report No.34
(For October 2018)

November 2018

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This Monthly EM&A Report No. 34 has been reviewed and certified by

the Environmental Team Leader (ETL) in accordance with

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

Certified by:

A handwritten signature in black ink, appearing to read 'Terence Kong', is positioned above a horizontal line.

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

Date

14 November 2018



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By Email

Airport Authority Hong Kong
HKIA Tower, 1 Sky Plaza Road
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Attn: Mr. Lawrence Tsui, Principal Manager

14 November 2018

Dear Sir,

Contract No. 3102
3RS Independent Environmental Checker Consultancy Services

Submission of Monthly EM&A Report No. 34 (October 2018)

Reference is made to the Environmental Team's submission of the Monthly EM&A Report No. 34 under Condition 3.5 of the Environmental Permit No. EP-489/2014 certified by the ET Leader on 14 November 2018.

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

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

Yours faithfully,
AECOM Asia Co. Ltd.

Jackel Law
Independent Environmental Checker

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Abbreviations

3RS	Three-Runway System
AAHK	Airport Authority Hong Kong
AECOM	AECOM Asia Company Limited
AFCD	Agriculture, Fisheries and Conservation Department
AIS	Automatic Information System
ANI	Encounter Rate of Number of Dolphins
APM	Automated People Mover
AW	Airport West
BHS	Baggage Handling System
C&D	Construction and Demolition
CAP	Contamination Assessment Plan
CAR	Contamination Assessment Report
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
MMHK	Mott MacDonald Hong Kong Limited
MMWP	Marine Mammal Watching Plan
MSS	Marine 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
PVD	Prefabricated Vertical Drain
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 34th Construction Phase Monthly EM&A Report for the Project which summarizes the monitoring results and audit findings of the EM&A programme during the reporting period from 1 to 31 October 2018.

Key Activities in the Reporting Period

The key activities of the Project carried out in the reporting period included reclamation works and land-side works. Reclamation works included deep cement mixing (DCM) works, marine filling, seawall construction, laying of sand blanket, and prefabricated vertical drain (PVD) installation. Land-side works involved mainly foundation and substructure work for Terminal 2 expansion, modification and tunnel work for Automated People Mover (APM) and Baggage Handling System (BHS), and preparation work for utilities, with activities include site establishment, site office construction, road and drainage works, cable ducting, demolition, piling, and excavation works.

EM&A Activities Conducted in the Reporting Period

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

Monitoring Activities	Number of Sessions
1-hour Total Suspended Particulates (TSP) air quality monitoring	36
Noise monitoring	20
Water quality monitoring	13
Vessel line-transect surveys for Chinese White Dolphin (CWD) monitoring	2
Land-based theodolite tracking survey effort for CWD monitoring	5
Terrestrial ecology monitoring	1

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 Marine 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

		
Air Quality Monitoring Conducted by ET	Water Spraying Conducted by Contractors	Environmental Management Meeting for EM&A Review with Works Contracts

Results of Impact Monitoring

The monitoring works for construction dust, construction noise, water quality, construction waste, landscape & visual, terrestrial ecology, 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 dissolved oxygen (DO), turbidity, total alkalinity, and 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 suspended solids (SS) and nickel, some of the testing results triggered the relevant Action or Limit Levels, and the corresponding investigations were conducted accordingly. The investigation findings concluded that the cases were not related to the Project. To conclude, the construction activities in the reporting period did not introduce adverse impact to all water quality sensitive receivers.

Summary of Upcoming Key Issues

Advanced Works:

Contract P560 (R) Aviation Fuel Pipeline Diversion Works

- Trench backfilling;
- Shoreline reinstatement next to the new pipe; and
- Stockpiling of excavated materials from previous HDD operation.

DCM Works:

Contract 3201, 3203, and 3205 DCM Works

- DCM works

Reclamation Works:

Contract 3206 Main Reclamation Works

- Laying of sand blanket;
- PVD installation;
- Seawall construction;
- Marine filling; and

- DCM works.

Airfield Works:

Contract 3301 North Runway Crossover Taxiway

- Cable ducting works;
- Subgrade works;
- Operation of aggregate mixing facility; and
- Precast of duct bank and fabrication of steel works.

Terminal 2 Expansion Works:

Contract 3501 Antenna Farm and Sewage Pumping Station

- Excavation works; and
- Pipe installation.

Contract 3502 Terminal 2 Automated People Mover (APM) Depot Modification Works

- Site clearance;
- Plant mobilization; and
- Brick wall construction.

Contract 3503 Terminal 2 Foundation and Substructure Works

- Site establishment;
- Drainage, utility, and road work;
- Piling and structure works; and
- Demolition of footbridge.

Contract 3505 Terminal 2 Spectrum Lighting Mock-ups

- Assembly of lighting mock up.

Automated People Mover (APM) works:

Contract 3602 Existing APM System Modification Works

- Site establishment;
- Site office construction; and
- Construction of concrete plinth.

Baggage Handling System (BHS) works:

Contract 3603 3RS Baggage Handling System

- Site establishment; and
- BHS modification work at Terminal 1.

Airport Support Infrastructure & Logistic Works:

Contract 3801 APM and BHS Tunnels on Existing Airport Island

- Site establishment;
- Diversion of underground utilities;
- Piling and foundation works; and
- Demolition of footbridge.

Summary Table

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

	Yes	No	Details	Analysis / Recommendation / Remedial Actions
Breach of Limit Level^		√	No breach of Limit Level was recorded.	Nil
Breach of Action Level^		√	No breach of Action Level was recorded.	Nil
Complaint Received		√	No construction activities-related complaint was received.	Nil
Notification of any summons and status of prosecutions		√	No notification of summons or prosecution was received.	Nil
Change that affect the EM&A	√		Starting from 25 Oct 2018, water quality monitoring at SR1A was commenced.	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 the Construction Phase Monthly EM&A Report No. 32.

1.2 Scope of this Report

This is the 34th Construction Phase Monthly EM&A Report for the Project which summarizes the key findings of the EM&A programme during the reporting period from 1 to 31 October 2018.

1.3 Project Organisation

The Project’s organization 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, Environment	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 9348

Advanced Works:

Party	Position	Name	Telephone
Contract P560(R) Aviation Fuel Pipeline Diversion Works (Langfang Huayuan Mechanical and Electrical Engineering Co., Ltd.)	Project Manager	Wei Shih	2117 0566
	Environmental Officer	Lyn Liu	5172 6543

Deep Cement Mixing (DCM) Works:

Party	Position	Name	Telephone
Contract 3201 DCM (Package 1) (Penta-Ocean-China State-Dong-Ah Joint Venture)	Project Director	Tsugunari Suzuki	9178 9689
	Environmental Officer	Hiu Yeung Tang	6329 3513
Contract 3202 DCM (Package 2) (Samsung-BuildKing Joint Venture)	Project Manager	Ilkwon Nam	9643 3117
	Environmental Officer	David Man	6421 3238
Contract 3203 DCM (Package 3) (Sambo E&C Co., Ltd)	Project Manager	Eric Kan	9014 6758
	Environmental Officer	David Hung	9765 6151
Contract 3204 DCM (Package 4) (CRBC-SAMBO Joint Venture)	Project Manager	Kyung-Sik Yoo	9683 8697
	Environmental Officer	Kanny Cho	6799 8226

Deep Cement Mixing (DCM) Works:

Contract 3205 DCM (Package 5) (Bachy Soletanche - Sambo Joint Venture)	Deputy Project Director	Min Park	9683 0765
	Environmental Officer	Margaret Chung	9130 3696

Reclamation Works:

Party	Position	Name	Telephone
Contract 3206 Main Reclamation Works (ZHEC-CCCC-CDC Joint Venture)	Project Manager	Kim Chuan Lim	3763 1509
	Environmental Officer	Kwai Fung Wong	3763 1452

Airfield Works:

Party	Position	Name	Telephone
Contract 3301 North Runway Crossover Taxiway (FJT-CHEC-ZHEC Joint Venture)	Project Manager	Kin Hang Chung	9412 1386
	Environmental Officer	Nelson Tam	9721 3942

Terminal 2 (T2) Expansion Works:

Party	Position	Name	Telephone
Contract 3501 Antenna Farm and Sewage Pumping Station (Build King Construction Ltd.)	Project Manager	Raymond Au	6985 8860
	Environmental Officer	Edward Tam	9287 8270
Contract 3502 Terminal 2 APM Depot Modification Works (Build King Construction Ltd.)	Project Manager	Kivin Cheng	9380 3635
	Environmental Officer	Chun Pong Chan	9187 7118
Contract 3503 Terminal 2 Foundation and Substructure Works (Leighton – Chun Wo Joint Venture)	Construction Manager	Stephen O'Donoghue	9732 6787
	Environmental Officer	Stephen Tsang	5508 6361
Contract 3505 Terminal 2 Spectrum Lighting Mock- Ups (Union Contractors Ltd.)	Project Manager	Wylar Chan	9107 5920
	Environmental Officer	Kelvin Lam	9379 2446

Automated People Mover (APM) Works:

Party	Position	Name	Telephone
Contract 3602 Existing APM System Modification Works (Niigata Transys Co., Ltd.)	Project Manager	Kunihiro Tatecho	9755 0351
	Environmental Officer	Arthur Wong	9170 3394

Baggage Handling System (BHS) Works:

Party	Position	Name	Telephone
Contract 3603 3RS Baggage Handling System (VISH Consortium)	Project Manager	Andy Ng	9102 2739
	Environmental Officer	Eric Ha	9215 3432

Airport Support Infrastructure and Logistic Works:

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	Fredrick Wong	9842 2703

1.4 Summary of Construction Works

The key activities of the Project carried out in the reporting period included reclamation works and land-side works. Reclamation works included deep cement mixing (DCM) works, marine filling, seawall construction, laying of sand blanket, and prefabricated vertical drain (PVD) installation. Land-side works involved mainly foundation and substructure work for Terminal 2 expansion, modification and tunnel work for Automated People Mover (APM) and Baggage Handling System (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 the works area are presented in **Figure 1.1** to **Figure 1.2**.

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	

Parameters	Status
General Baseline Water Quality Monitoring for reclamation, water jetting 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 jetting 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	On-going
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.
Terrestrial Ecology	
Pre-construction Egret Survey Plan	The Egret Survey Plan was submitted and approved by EPD under EP Condition 2.14.
Ecological Monitoring	On-going
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.
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	
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, terrestrial ecology, 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 summarized as below:

- One dolphin observer training provided by ET: 3 October 2018
- Two skipper trainings provided by ET: 18 and 30 October 2018
- Two meetings with High Speed Ferry operators for experience sharing and recommendations to strengthen the implementation of the Marine Travel Routes and Management Plan for High Speed Ferries of SkyPier: 23 and 31 October 2018
- Seven environmental management meetings for EM&A review with works contracts: 3, 15, 18, 19, 22, 26, and 29 October 2018

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

2 Air Quality Monitoring

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

Table 2.1: Locations of Impact Air Quality Monitoring Stations

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

2.1 Action and Limit Levels

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

Table 2.2: Action and Limit Levels of Air Quality Monitoring

Monitoring Station	Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
AR1A	306	500
AR2	298	

2.2 Monitoring Equipment

Portable direct reading dust meter was used to carry out the air quality monitoring. Details of equipment used in the reporting period are given in **Table 2.3**.

Table 2.3: Air Quality Monitoring Equipment

Equipment	Brand and Model	Last Calibration Date	Calibration Certificate Provided in
Portable direct reading dust meter (Laser dust monitor)	SIBATA LD-3B-002 (Serial No. 974350)	24 Aug 2018	Monthly EM&A Report No. 33, Appendix D
	SIBATA LD-3B-003 (Serial No. 276018)	24 Aug 2018	

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 1.2 m 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 is provided in Appendix D of the Construction Phase Monthly EM&A Report No. 33.. The calibration certificates of portable direct reading dust meters listed in **Table 2.3** are still valid.

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 summarized in **Table 2.4**. Detailed impact monitoring results are presented in **Appendix C**.

Table 2.4: Summary of Air Quality Monitoring Results

Monitoring Station	1-hr TSP Concentration Range ($\mu\text{g}/\text{m}^3$)	Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
AR1A	22 – 67	306	500
AR2	24 – 67	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 from Project activities was observed during impact air quality monitoring. Major sources of dust observed at the monitoring stations during the monitoring sessions were local air pollution and nearby traffic emissions. It is considered that the monitoring work in the reporting period is effective and there was no adverse impact attributable to the Project activities.

3 Noise Monitoring

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

Table 3.1: Locations of Impact Noise Monitoring Stations

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

Note:

- (1) As described in Section 4.3.3 of the Manual, noise monitoring at NM2 will only commence after occupation of the future Tung Chung West Development.
- (2) With the commencement of construction works of Tung Chung East Development near NM3A, the monitoring results obtained at NM3A would be affected by other construction project. According to Section 4.3.3 of the Manual, the noise monitoring at NM3A was temporarily suspended starting from 1 Sep 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	75 dB(A) ⁽¹⁾

Note:

- (1) Reduced to 70dB(A) for school and 65dB(A) during school examination periods for NM4.

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	B&K 2238 (Serial No. 2381580)	10 May 2018	Monthly EM&A Report No. 30, Appendix D
	B&K 2238 (Serial No. 2800932)	26 Jul 2018	Monthly EM&A Report No. 32, Appendix E
Acoustic Calibrator	B&K 4231 (Serial No. 3003246)	23 Jun 2018	Monthly EM&A Report No. 31, Appendix E
	B&K 4231 (Serial No. 3018753)	10 May 2018	Monthly EM&A Report No. 29, Appendix D

3.3 Monitoring Methodology

3.3.1 Monitoring Procedure

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

- The sound level meter was set on a tripod at least a height of 1.2 m above the ground for free-field measurements at monitoring stations NM1A, NM4, NM5 and NM6. A correction of +3 dB(A) was applied to the free field measurements.
- Façade measurements were made at the monitoring station NM3A.
- Parameters such as frequency weighting, time weighting and measurement time were set.
- 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 1 dB(A), the measurement would be considered invalid and repeat of noise measurement would be required after re-calibration or repair of the equipment.
- 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.
- Noise measurement results were corrected with reference to the baseline monitoring levels.
- 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:

- The microphone head of the sound level meter was cleaned with soft cloth at regular intervals.
- 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 still valid.

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 summarized in **Table 3.4**. Detailed impact monitoring results are presented in **Appendix C**.

Table 3.4: Summary of Construction Noise Monitoring Results

Monitoring Station	Noise Level Range, dB(A)	Limit Level, dB(A)
	<i>Leq</i> (30 mins)	<i>Leq</i> (30 mins)
NM1A ⁽¹⁾	70 – 72	75
NM4 ⁽¹⁾	64 – 66	70 ⁽²⁾
NM5 ⁽¹⁾	52 – 59	75
NM6 ⁽¹⁾	62 – 70	75

Notes:

- (1) +3 dB(A) Façade correction included;
- (2) Reduced to 65 dB(A) during school examination periods at NM4. No examination was held in 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 and aircraft noise near NM1A, school activities at NM4, and aircraft and helicopter noise near NM5 and 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 22 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 3.1** shows the locations of the monitoring stations. With the operation of Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities, water quality monitoring at SR1A station was commenced on 25 Oct 2018.

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

Monitoring Station	Description	Coordinates		Parameters
		Easting	Northing	
C1	Control Station	804247	815620	<u>General Parameters</u>
C2	Control Station	806945	825682	DO, pH, Temperature, Salinity, Turbidity, SS
C3 ⁽³⁾	Control Station	817803	822109	
IM1	Impact Station	807132	817949	<u>DCM Parameters</u>
IM2	Impact Station	806166	818163	Total Alkalinity, Heavy Metals ⁽²⁾
IM3	Impact Station	805594	818784	
IM4	Impact Station	804607	819725	
IM5	Impact Station	804867	820735	
IM6	Impact Station	805828	821060	
IM7	Impact Station	806835	821349	
IM8	Impact Station	808140	821830	
IM9	Impact Station	808811	822094	
IM10	Impact Station	809794	822385	
IM11	Impact Station	811460	822057	
IM12	Impact Station	812046	821459	
SR1A ⁽¹⁾	Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities (HKBCF) Seawater Intake for cooling	812586	820069	<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⁾
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

Monitoring Station	Description	Coordinates		Parameters
SR4A	Sha Lo Wan	807810	817189	
SR5A	San Tau Beach SSSI	810696	816593	
SR6	Tai Ho Bay, Near Tai Ho Stream SSSI	814663	817899	
SR7	Ma Wan Fish Culture Zone (FCZ)	823742	823636	
SR8 ⁽⁵⁾	Seawater Intake for cooling at Hong Kong International Airport (East)	811418	820246	

Notes:

- (1) With the operation of HKBCF, water quality monitoring at SR1 station was commenced on 25 Oct 2018.
- (2) Details of selection criteria for the two heavy metals for regular DCM monitoring refer to the Detailed Plan on Deep Cement Mixing available on the dedicated 3RS website (<http://env.threerunwaysystem.com/en/ep-submissions.html>). DCM specific water quality monitoring parameters (total alkalinity and heavy metals) were only conducted at C1 to C3, SR2, and IM1 to IM12.
- (3) According to the Baseline Water Quality Monitoring Report, C3 station is not adequately representative as a control station of impact/ SR stations during the flood tide. The control reference has been changed from C3 to SR2 from 1 September 2016 onwards.
- (4) Total alkalinity and heavy metals results are collected at SR2 as a control station for regular DCM monitoring.
- (5) 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 abovementioned representative water quality monitoring stations were established as presented in the Baseline Water Quality Monitoring Report. The Action and Limit Levels of general water quality monitoring and regular DCM monitoring stipulated in the EM&A programme for triggering the relevant investigation and follow-up procedures under the programme are provided in **Table 4.2**. The control and impact stations during ebb tide and flood tide for general water quality monitoring and regular DCM monitoring are presented in **Table 4.3**.

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

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

Parameters	Action Level (AL)	Limit Level (LL)
monitoring (Nickel) in µg/L		
Action and Limit Levels SR1A		
SS (mg/l)	33	42
Action and Limit Levels SR8		
SS (mg/l)	52	60

Notes:

- (1) For DO measurement, non-compliance occurs when monitoring result is lower than the limits.
- (2) For parameters other than DO, non-compliance of water quality results when monitoring results is higher than the limits.
- (3) Depth-averaged results are used unless specified otherwise.
- (4) Details of selection criteria for the two heavy metals for regular DCM monitoring refer to the Detailed Plan on Deep Cement Mixing available on the dedicated 3RS website (<http://env.threerunwaysystem.com/en/ep-submissions.html>)
- (5) The Action and Limit Levels for the two representative heavy metals chosen will be the same as that for the intensive DCM monitoring.

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

Control Station	Impact Stations
Flood Tide	
C1	IM1, IM2, IM3, IM4, IM5, IM6, IM7, IM8, SR3
SR2 ⁽¹⁾	IM7, IM8, IM9, IM10, IM11, IM12, SR1A, SR3, SR4A, SR5A, SR6, SR8
Ebb Tide	
C1	SR4A, SR5A, SR6
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 Sep 2016 onwards.

4.2 Monitoring Equipment

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

Table 4.4: Water Quality Monitoring Equipment

Equipment	Brand and Model	Last Calibration Date	Calibration Certificate Provided in
Multifunctional Meter (measurement of DO, pH, temperature, salinity and turbidity)	YSI ProDSS (Serial No. 16H104234)	26 Oct 2018	Appendix D
	YSI ProDSS (Serial No. 17H105557)	26 Oct 2018	
	YSI 6920 V2 (Serial No. 0001C6A7)	20 Aug 2018	Monthly EM&A Report No. 32, Appendix E
	YSI 6920 V2 (Serial No. 00019CB2)	20 Aug 2018	
Digital Titrator (measurement of total alkalinity)	Titrette Digital Burette 50ml Class A (Serial No. 10N64701)	18 Sep 2018	Monthly EM&A Report No. 33, Appendix D

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

Table 4.5: Other Monitoring Equipment

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

4.3 Monitoring Methodology

4.3.1 Measuring Procedure

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

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

4.3.3 Laboratory Measurement / Analysis

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

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

Parameters	Instrumentation	Analytical Method	Reporting Limit
SS	Analytical Balance	APHA 2540D	2 mg/L
Heavy Metals			
Chromium (Cr)	ICP-MS	USEPA 6020A	0.2 µg/L
Nickel (Ni)	ICP-MS	USEPA 6020A	0.2 µg/L

4.4 Summary of Monitoring Results

The water quality monitoring schedule for the reporting period is updated and provided in **Appendix B**. Ebb tide monitoring session on 23 October 2018 was cancelled due to marine traffic arrangement.

The water quality monitoring results for DO, turbidity, total alkalinity and chromium obtained during the reporting period were within their corresponding Action and Limit Levels.

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

Table 4.7 presents a summary of the SS compliance status at IM and SR stations during mid-flood tide for the reporting period.

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

	IM1	IM2	IM3	IM4	IM5	IM6	IM7	IM8	IM9	IM10	IM11	IM12	SR1A	SR3	SR4A	SR5A	SR6	SR7	SR8
2/10/2018																			
4/10/2018																			
6/10/2018																			
9/10/2018					D	D													
11/10/2018					D														
13/10/2018																			
16/10/2018																			
18/10/2018																			
20/10/2018																			
23/10/2018																			
25/10/2018																			
27/10/2018																			
30/10/2018																			
No. of result triggering Action or Limit Level	0	0	0	0	2	1	0	0	0	0	0	1	0	0	0	0	0	0	0

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

Legend:

	The monitoring results were within the corresponding Action and Limit Levels
	Monitoring result triggered the Action Level at monitoring station located upstream of the Project based on dominant tidal flow
D	Monitoring result triggered the Action Level at monitoring station located downstream of the Project based on dominant tidal flow
	No water quality monitoring conducted at SR1A before the operation of HKBCF.
	Upstream station with respect to the Project during the respective tide based on dominant tidal flow

Monitoring result triggered the corresponding Action Level on 9, 11 and 13 October 2018. The case on 13 October 2018 were recorded at location upstream of the Project during flood tide and would unlikely be affected by the Project.

Investigation focusing on the cases that occurred at monitoring stations located downstream of the Project was carried out. Details of the Project's marine construction activities on the concerned monitoring day was collected and findings are summarized in **Table 4.8**.

Table 4.8: Summary of Findings from Investigation of SS Monitoring Results (Mid-Flood Tide)

Date	Marine construction works nearby	Approximate distance from marine construction works	Status of water quality measures (if applicable)	Construction vessels in the vicinity	Turbidity / Silt plume observed near the monitoring station	Action or Limit Level triggered due to Project
09/10/2018	Marine filling, seabed regulation works and DCM works	Around 1 km	Localised and enhanced silt curtain deployed	No	No	No
11/10/2018	Marine filling, seabed regulation works and DCM works	Around 1.5 km	Localised and enhanced silt curtain deployed	No	No	No

The investigation confirmed that marine filling, seabed regulation and DCM works were operating normally with localised and enhanced silt curtains deployed. The localised and enhanced silt curtains were maintained properly except for a section of enhanced silt curtain which was found to be disconnected. Repair work was completed on the same day.

SS results recorded at IM5 and IM6 on 9 October 2018 and at IM5 on 11 October 2018 were within the baseline range. Consider that no observable silt plume during marine works and mitigation measures were properly implemented, the incident was considered not due to Project.

Table 4.9 presents a summary of the nickel compliance status at IM stations during mid-ebb tide for the reporting period.

Table 4.9: Summary of Nickel Compliance Status (Mid-Ebb Tide)

	IM1	IM2	IM3	IM4	IM5	IM6	IM7	IM8	IM9	IM10	IM11	IM12
2/10/2018												
4/10/2018												
6/10/2018												
9/10/2018												
11/10/2018												
13/10/2018												
16/10/2018												
18/10/2018												
20/10/2018												
25/10/2018											D	D
27/10/2018												
30/10/2018												
No. of result triggering Action or Limit Level	0	0	0	0	0	0	0	1	1	1	1	1

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

Monitoring results triggered the corresponding Action Level on 25 October 2018. The case occurred at IM8, IM9 and IM10 were located upstream of the Project during ebb tide and would unlikely be affected by the Project.

Details of the Project's marine construction activities on the concerned monitoring day was collected and findings are summarized in **Table 4.10**.

Table 4.10: Summary of Findings from Investigation of Nickel Monitoring Results (Mid-Ebb Tide)

Date	Marine construction works nearby	Approximate distance from marine construction works	Status of water quality measures (if applicable)	Construction vessels in the vicinity	Turbidity / Silt plume observed near the monitoring station	Action or Limit Level triggered due to Project
25/10/2018	Marine filling and DCM works	Around 1.5 km	Localised and enhanced silt curtain deployed.	No	No	No

According to the investigation findings, it was confirmed that DCM and marine filling works were operating normally with localised and enhanced silt curtains deployed. The silt curtains were maintained properly.

Action Level was triggered at IM11 and IM12 on 25 October 2018. Results from both stations were within the baseline range and there was no observation of silt plumes or other issues during construction works. Besides, nickel Action Level triggered at upstream stations IM8, IM9 and IM10 suggested the presence of external sources that may potentially affect the ambient nickel concentration. As there was no SS exceedance at all impact stations and mitigation measures were properly implemented, this case was considered due to external factors and not related to the Project.

4.5 Conclusion

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

Based on the investigation findings, all results that triggered the corresponding Action and Limit Level were not due to the Project. Therefore, the Project did not cause adverse impact at the water quality sensitive receivers. All required actions under the Event and Action Plan were followed. These cases appeared to be due to natural fluctuation or other sources not related to the Project.

Nevertheless, the non-project related triggers have been attended to and have initiated corresponding actions and measures. 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 DCM works, marine filling, seawall construction, and sand blanket laying works as recommended in the Manual.

5 Waste Management

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

5.1 Action and Limit Levels

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

Table 5.1: Action and Limit Levels for Construction Waste

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

5.2 Waste Management Status

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

Recommendations made included provision and maintenance of proper chemical waste storage area, as well as handling, segregation, and regular disposal of general refuse. The contractors had taken actions to implement the recommended measures.

Based on updated information provided by contractors, construction waste generated in the reporting period is summarized in **Table 5.2**.

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.

Table 5.2: Construction Waste Statistics

	C&D ⁽¹⁾ Material Transferred to Temporary Stockpiling Area (m ³) ⁽²⁾	C&D Material Reused in the Project (m ³)	C&D Material Transferred to Public Fill (m ³)	Chemical Waste (kg)	Chemical Waste (L)	General Refuse (tonne)
Sep 2018 ⁽³⁾⁽⁴⁾	-	5,688	-	-	-	-
Oct 2018 ⁽⁴⁾	3,828	4,735	5,746	11,485	27,280	436

Notes:

- (1) C&D refers to Construction and Demolition.
- (2) The stockpiled material will be reused in the Project.
- (3) Only updated figures are presented.
- (4) Metals were recycled in the reporting period.

6 Chinese White Dolphin Monitoring

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

The small vessel line-transect survey as proposed in the Manual 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 during the construction phase. In addition to the land-based theodolite tracking survey required for impact monitoring as stipulated in the Manual, supplemental theodolite tracking surveys have also been conducted during the implementation for the SkyPier HSF diversion and speed control in order to assist in monitoring the effectiveness of these measures, i.e. in total twice per month at the Sha Chau station and three times per month at the Lung Kwu Chau station.

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 summarized 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 STG & ANI will be calculated from the three preceding survey months. For CWD monitoring for October 2018, data from 1 August 2018 to 31 October 2018 was used to calculate the running quarterly encounter rates STG & ANI;
- (2) Limit Level – two consecutive running quarters mean both the running quarterly encounter rates of the preceding month September 2018 (calculated by data from July 2018 to September 2018) and the running quarterly encounter rates of this month (calculated by data from August 2018 to October 2018).
- (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 follow the waypoints set for construction phase monitoring as proposed in the Manual and depicted in **Figure 6.1** with the waypoint coordinates of all transect lines given in **Table 6.2**, which are subject to on-site refinement based on the actual survey conditions and constraints.

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

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

Waypoint	Easting	Northing	Waypoint	Easting	Northing
2N	803489	806720	7N	808553	807377
3S	804484	802509	8S	809547	800338
3N	804484	807048	8N	809547	807396
4S	805478	802105	9S	810542	800423
4N	805478	807556	9N	810542	807462
5S	806473	801250	10S	811446	801335
5N	806473	808458	10N	811446	809436

6.2.2 Land-based Theodolite Tracking Survey

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

Table 6.3: Land-based Theodolite Survey Station Details

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

6.3 CWD Monitoring Methodology

6.3.1 Small Vessel Line-transect Survey

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

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

As mentioned in **Section 6.2.1**, the transects covered NEL, NWL covering the AW, WL and SWL areas as proposed in the Manual and 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 15-20 m vessel with a flying bridge observation platform about 4 to 5 m 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 minimize 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 photo 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 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 (>1-3 km, 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 2-3 km 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

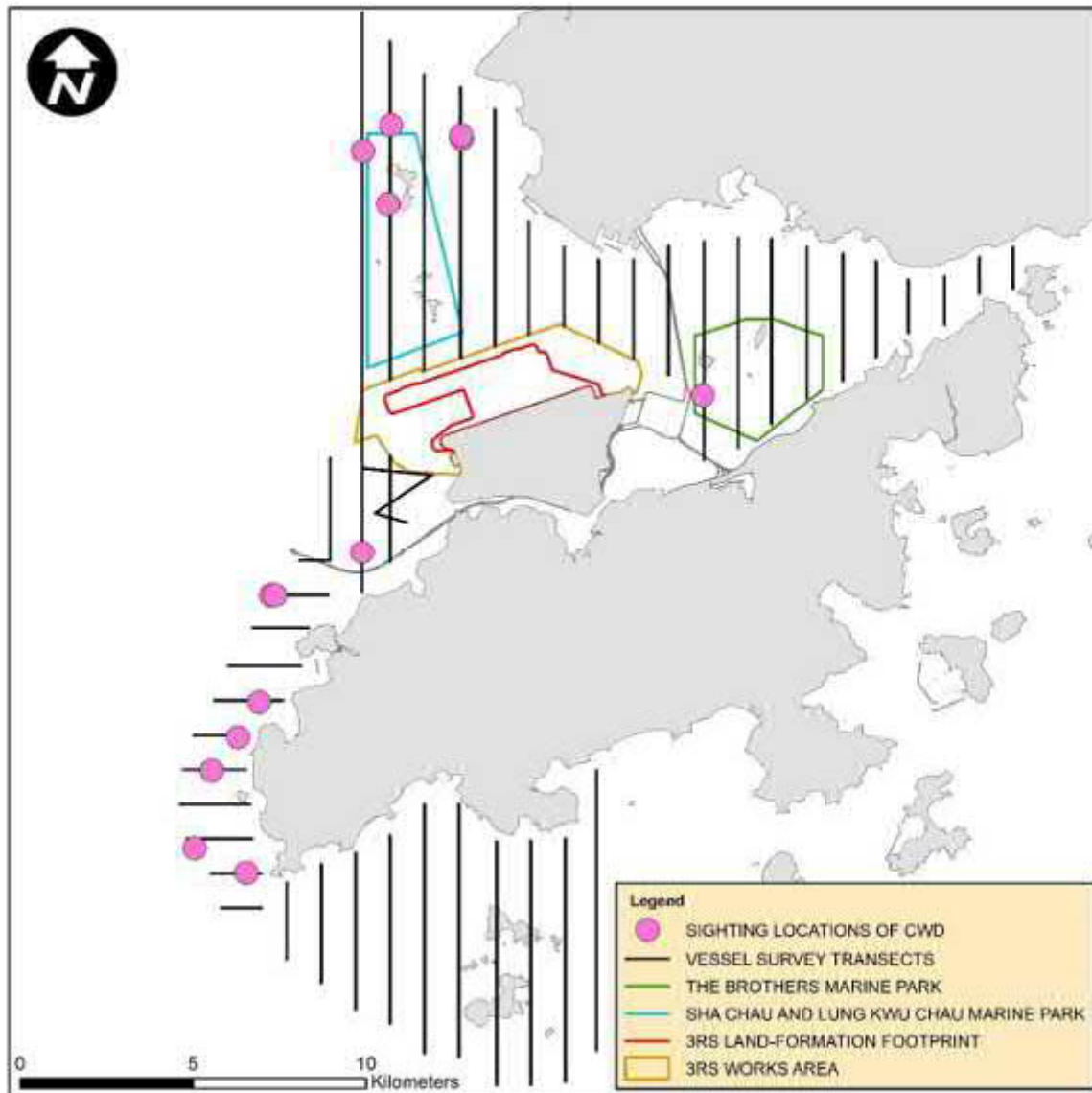
Within this reporting period, two complete sets of small vessel line-transect surveys were conducted on the 4, 5, 8, 11, 12, 23, 24 and 26 October 2018, covering all transects in NEL, NWL, AW, WL and SWL survey areas for twice.

A total of around 448.50 km of survey effort was collected from these surveys, with around 94.5% of the total survey effort 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 October 2018, 14 sightings with 45 dolphins were sighted. Details of cetacean sightings are presented in **Appendix C**.

Distribution of all CWD sightings recorded in October 2018 is illustrated in **Figure 6.3**. In NWL, the majority of CWD sightings were recorded around Lung Kwu Chau while one sighting was recorded at the southwestern part of the survey area near Hong Kong-Zhuhai-Macao Bridge Hong Kong Link Road. In WL, CWD sightings were scattered from Tai O to Fan Lau. It is worth noting that the second CWD sighting in NEL since the commencement of 3RS dolphin monitoring was recorded in this reporting month, after the first CWD sighting in NEL recorded two months ago. Similar to the first sighting, the second sighting consisted of a single individual and was recorded within the Brothers Marine Park near its western boundary. No sightings of CWD were recorded in SWL survey area in this month.

Figure 6.3: Sightings Distribution of Chinese White Dolphins

Remarks: Please note that there are 14 pink circles on the map indicating the sighting locations of CWD. Some of them were very close to each other and therefore appear overlapped on this distribution map.

Encounter Rate

Two types of dolphin encounter rates were calculated based on the data from October 2018. They included the number of dolphin sightings per 100 km survey effort (STG) and total number of dolphins per 100 km survey effort (ANI) in the whole survey area (i.e. NEL, NWL, AW, WL and SWL). In the calculation of dolphin encounter rates, only survey data collected under favourable weather condition (i.e. Beaufort Sea State 3 or below with favourable visibility) were used. The formulae used for calculation of the encounter rates are shown below:

Encounter Rate by Number of Dolphin Sightings (STG)

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

Encounter Rate by Number of Dolphins (ANI)

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

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

In October 2018, a total of around 423.87 km of survey effort were conducted under Beaufort Sea State 3 or below with favourable visibility, whilst a total number of 13 on-effort sightings with 38 dolphins were sighted under such condition. Calculation of the encounter rates in October 2018 are shown in **Appendix C**.

For the running quarter of the reporting period (i.e., from August to October 2018), a total of around 1313.16 km of survey effort were conducted under Beaufort Sea State 3 or below with favourable visibility, whilst a total number of 55 on-effort sightings and a total number of 180 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 October 2018 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 did not trigger Action Level.

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

	Encounter Rate (STG)	Encounter Rate (ANI)
October 2018	3.07	8.97
Running Quarter from August 2018 to October 2018 ⁽¹⁾	4.19	13.71
Action Level	Running quarterly ⁽¹⁾ < 1.86	Running quarterly ⁽¹⁾ < 9.35

Note: (1) Running quarterly encounter rates STG & ANI were calculated from data collected in the reporting period and the two preceding survey months, i.e. the data from August to October 2018, containing six sets of transect surveys for all monitoring areas. Action Level will be triggered if both STG and ANI fall below the criteria.

Group Size

In October 2018, 14 groups with 45 dolphins were sighted, and the average group size of CWDs was 3.21 dolphins per group. Numbers of sightings with small group size (i.e. 1-2 dolphins) and medium group size (i.e. 3-9 dolphins) were similar. No sighting with large group size (i.e. 10 or more dolphins) was recorded.

Activities and Association with Fishing Boats

Five out of 14 sightings of CWDs were recorded engaging in feeding activities in October 2018. No association with operating fishing boats was observed in this reporting month.

Mother-calf Pair

In October 2018, four sightings were recorded with the presence of mother-and-unspotted calf, mother-and-unspotted juvenile or mother-and-spotted juvenile pairs. Two of these sightings were sighted in WL while others were encountered in NWL.

6.4.2 Photo Identification

In October 2018, a total number of 29 different CWD individuals were identified for totally 36 times. A summary of photo identification works is presented in **Table 6.5**. Representative photos of these individuals are given in **Appendix C**.

Table 6.5: Summary of Photo Identification

Individual ID	Date of Sighting (dd-mmm-yy)	Sighting Group No.	Area	Individual ID	Date of Sighting (dd-mmm-yy)	Sighting Group No.	Area
NLMM002	8-Oct-18	3	NWL	SLMM027	4-Oct-18	3	WL
NLMM004	8-Oct-18	4	NWL	SLMM044	4-Oct-18	5	WL
NLMM006	8-Oct-18	5	NWL	WLMM001	24-Oct-18	2	WL
NLMM013	8-Oct-18	5	NWL	WLMM019	8-Oct-18	1	NWL
NLMM015	8-Oct-18	1	NWL	WLMM043	4-Oct-18	1	WL
		3	NWL	WLMM056	24-Oct-18	1	WL
NLMM019	4-Oct-18	5	WL	WLMM060	4-Oct-18	5	WL
NLMM020	4-Oct-18	5	WL		24-Oct-18	2	WL
NLMM023	5-Oct-18	1	NWL	WLMM065	4-Oct-18	1	WL
NLMM040	8-Oct-18	3	NWL		24-Oct-18	1	WL
NLMM041	8-Oct-18	3	NWL	WLMM071	4-Oct-18	5	WL
NLMM043	5-Oct-18	1	NWL		24-Oct-18	2	WL
NLMM058	8-Oct-18	1	NWL	WLMM089	5-Oct-18	1	NWL
NLMM059	12-Oct-18	1	NEL	WLMM114	4-Oct-18	3	WL
NLMM063	4-Oct-18	5	WL	WLMM119	24-Oct-18	2	WL
	8-Oct-18	1	NWL	WLMM127	8-Oct-18	1	NWL
		3	NWL			2	NWL
SLMM007	24-Oct-18	2	WL	WLMM130	24-Oct-18	2	WL

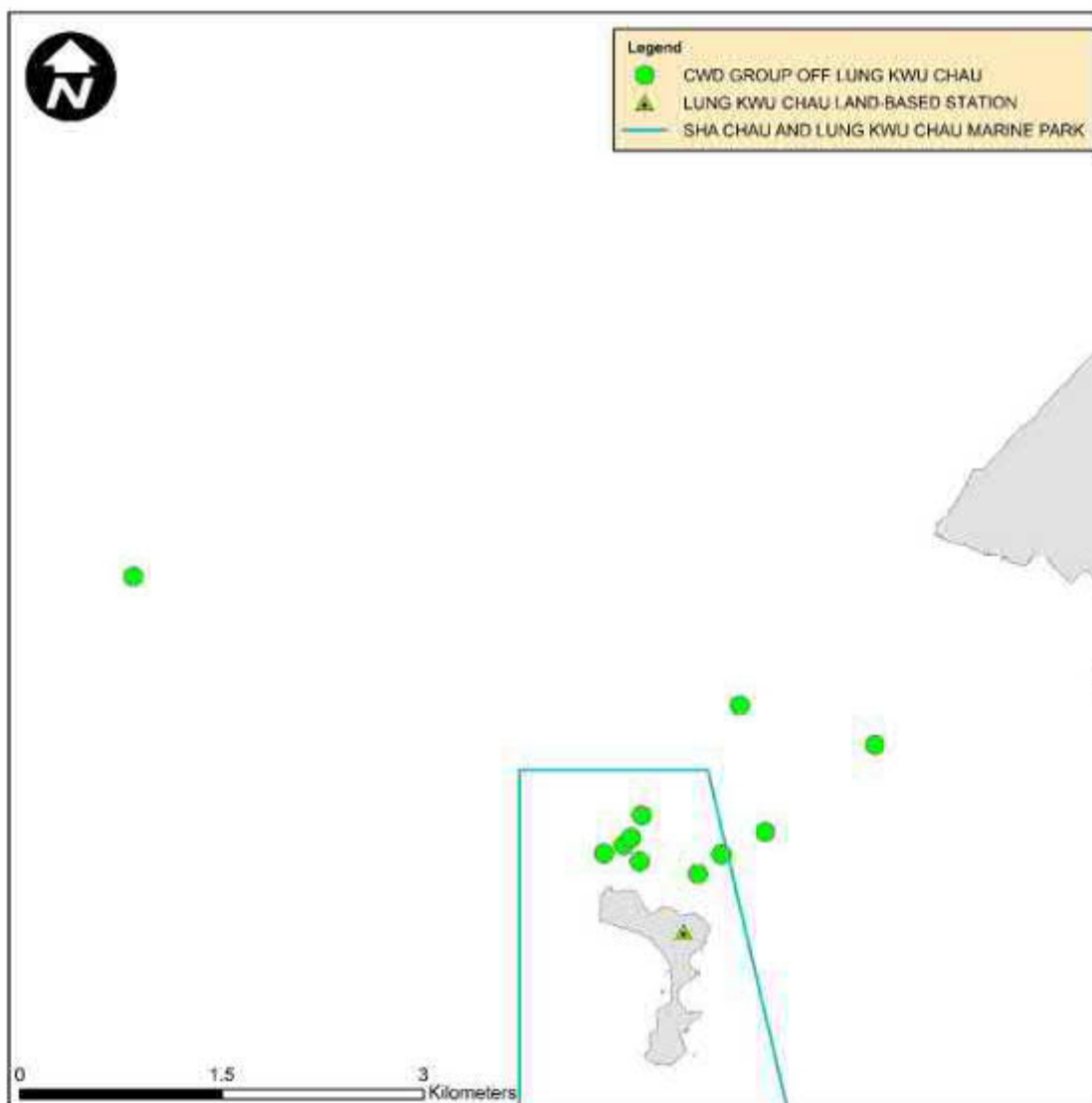
6.4.3 Land-based Theodolite Tracking Survey

Survey Effort

Land-based theodolite tracking surveys were conducted at LKC on 15, 22 and 29 October 2018 and at SC on 8 and 9 October 2018, with a total of five days of land-based theodolite tracking survey effort accomplished in this reporting period. A total number of 11 CWD groups were tracked at LKC station during the surveys. Information of survey effort and CWD groups sighted during these land-based theodolite tracking surveys are presented in **Table 6.6**. Details of the survey effort and CWD groups tracked are presented in **Appendix C**. The first sighting locations of CWD groups tracked at LKC station during land-based theodolite tracking surveys in October 2018 were depicted in **Figure 6.4**. No CWD group was sighted from SC station in this reporting month.

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

Land-based Station	No. of Survey Sessions	Survey Effort (hh:mm)	No. of CWD Groups Sighted	CWD Group Sighting per Survey Hour
Lung Kwu Chau	3	18:00	11	0.61
Sha Chau	2	12:00	0	0
TOTAL	5	30:00	11	0.37

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

6.5 Progress Update on Passive Acoustic Monitoring

Underwater acoustic monitoring using Passive Acoustic Monitoring (PAM) should be undertaken during land formation related construction works. In this reporting period, the Ecological Acoustic Recorder (EAR) was retrieved on 16 October 2018 and subsequently redeployed and positioned at south of Sha Chau Island inside the SCLKCMP with 20% duty cycle (**Figure 6.5**). The EAR deployment is generally for 6 weeks prior to data retrieval for analysis. Acoustic data is reviewed to give an indication of CWDs occurrence patterns and to obtain anthropogenic noise information

simultaneously. Analysis (by a specialized team of acousticians) involved manually browsing through every acoustic recording and logging the occurrence of dolphin signals. All data will be re-played by computer as well as listened to by human ears for accurate assessment of dolphin group presence. As the period of data collection and analysis takes more than 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 contractors for sand blanket laying works, in which dolphin observers were deployed by each contractor in accordance with the MMWP. Teams of at least two dolphin observers were deployed at 12 to 18 dolphin observation stations by the contractors for continuous monitoring of the DEZ by all contractors for ground improvement works (DCM works and PVD installation) and seawall construction 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 654 individuals being trained and the training records kept by the ET. From the contractors' MMWP observation records, no dolphin or other marine mammals were observed within or around the silt curtains. As for DEZ monitoring records, no dolphin or other marine mammals were observed within or around the DEZs in this reporting month. These contractors' records were also audited by the ET during site inspection.

Audits of acoustic decoupling measures for construction vessels were carried out during weekly site inspection and the observations are summarised in **Section 7.1**. Audits of SkyPier high speed ferries route diversion and speed control and construction vessel management are presented in **Section 7.2** 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 five days of land-based theodolite tracking survey effort as scheduled. The running quarterly encounter rates STG and ANI in the reporting period did not trigger the Action Level for CWD monitoring.

7 Environmental Site Inspection and Audit

7.1 Environmental Site Inspection

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

During site inspections, environmental situation, status of implementation of pollution control and mitigation measures were observed both within the site area as well as outside the project sites which was likely to be affected, directly or indirectly, by the site activities. 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 appropriate 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 organized 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 Audit of SkyPier High Speed Ferries

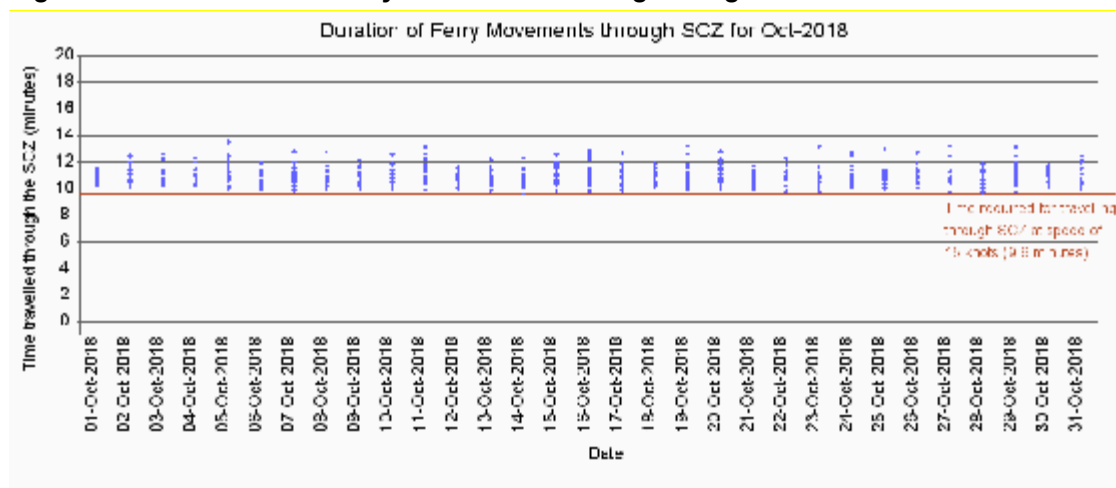
The Marine Travel Routes and Management Plan for High Speed Ferries of SkyPier (the SkyPier Plan) was submitted to the Advisory Council on the Environment for comment and subsequently submitted to and approved by EPD in November 2015 under EP Condition 2.10. The approved SkyPier Plan is available on 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.

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 summarized in **Table 7.1**. The daily movements of all SkyPier HSFs in this reporting period (i.e., 87 to 102 daily movements) were within the maximum daily cap of 125 daily movements. Status of compliance with the annual daily average of 99 movements will be further reviewed in the annual EM&A Report.

In total, 894 ferry movements between HKIA SkyPier and Zhuhai / Macau were recorded in October 2018 and the data are presented in **Appendix G**. The time spent by the SkyPier HSFs travelling through the SCZ in October 2018 were presented in **Figure 7.1**. It will take 9.6 minutes to travel through the SCZ when the SkyPier HSFs adopt the maximum allowable speed of 15 knots within the SCZ. **Figure 7.1** shows that all of the SkyPier HSFs spent more than 9.6 minutes to travel through the SCZ.

Figure 7.1: Duration of the SkyPier HSFs travelling through the SCZ for October 2018



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

One ferry was recorded with minor deviation from the diverted route on 18 October 2018. A notice was sent to the ferry operator and the case is under investigation by ET. The investigation results will be presented in the next monthly EM&A report.

As reported in the Construction Phase Monthly EM&A Report No. 33, one ferry was recorded with minor deviation from the diverted route on 10 September 2018. ET's investigation found that the vessel captain had to give way to other vessels for safety reason.

Two meetings were held with the ferry operators on 23 and 31 October 2018 to review and discuss the deviation cases happened in the past few months as well as to share experience and recommendations to further strengthen the implementation of SkyPier Plan.

Table 7.1: Summary of Key Audit Findings against the SkyPier Plan

Requirements in the SkyPier Plan	1 October to 31 October 2018
Total number of ferry movements recorded and audited	894

Requirements in the SkyPier Plan**1 October to 31 October 2018**

Use diverted route and enter / leave SCZ through Gate Access Points	1 deviation
Speed control in speed control zone	The average speeds taken within the SCZ by all HSFs were within 15 knots (10.0 knots to 14.2 knots), which complied with the SkyPier Plan. The time used by HSFs to travel through SCZ is presented in Figure 7.1 .
Daily Cap (including all SkyPier HSFs)	87 to 102 daily movements (within the maximum daily cap - 125 daily movements).

7.3 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 November 2016 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.
- Four skipper training sessions were held by contractor's Environmental Officer. Competency tests were subsequently conducted with the trained skippers by ET.
- In this reporting period, twelve skippers were trained by ET and seven skippers were trained by contractor's Environmental Officer. In total, 1065 skippers were trained from August 2016 to October 2018.
- The Marine Surveillance System (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.

7.4 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 ground improvement works (DCM works and PVD installation) and seawall construction according to their Method Statement for DEZ Monitoring that followed the specifications and requirements of the DEZ Plan.

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

7.5 Terrestrial Ecological Monitoring

In accordance with the Manual, ecological monitoring shall be undertaken monthly at the HDD daylighting location on Sheung Sha Chau Island during the HDD construction works period from August to March to identify and evaluate any impacts with appropriate actions taken as required to address and minimise any adverse impact found. During the reporting period, it was observed from the monthly ecological monitoring at the HDD daylighting location on Sheung Sha Chau that preparation works for shoreline landscape reinstatement were carried out under the Contract P560(R), and there was no encroachment of any works upon the egret area nor any significant disturbance to the ardeids on the island by the works. No signs of breeding or nursery activities were observed. At the HDD daylighting location, neither nest nor breeding activity of ardeids were found during the monthly ecological monitoring and weekly site inspections in the reporting period. The location map and site photos regarding the monthly ecological monitoring for the HDD works and egret area are provided in **Appendix C** for reference.

7.6 Status of Submissions under Environmental Permits

The current status of submissions under the EP up to the reporting period is presented in **Table 7.2**.

Table 7.2: Status of Submissions under Environmental Permit

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

7.7 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**.

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

7.8.1 Complaints

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

7.8.2 Notifications of Summons or Status of Prosecution

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

7.8.3 Cumulative Statistics

Cumulative statistics on complaints, notifications of summons and status of prosecutions are summarized 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:

Advanced Works:

Contract P560 (R) Aviation Fuel Pipeline Diversion Works

- Trench backfilling;
- Shoreline reinstatement next to the new pipe; and
- Stockpiling of excavated materials from previous HDD operation.

DCM Works:

Contract 3201, 3203, and 3205 DCM Works

- DCM works

Reclamation Works:

Contract 3206 Main Reclamation Works

- Laying of sand blanket;
- PVD installation;
- Seawall construction;
- Marine filling; and
- DCM works.

Airfield Works:

Contract 3301 North Runway Crossover Taxiway

- Cable ducting works;
- Subgrade works;
- Operation of aggregate mixing facility; and
- Precast of duct bank and fabrication of steel works.

Terminal 2 Expansion Works:

Contract 3501 Antenna Farm and Sewage Pumping Station

- Excavation works; and
- Pipe installation.

Contract 3502 Terminal 2 Automated People Mover (APM) Depot Modification Works

- Site clearance;
- Plant mobilization; and
- Brick wall construction.

Contract 3503 Terminal 2 Foundation and Substructure Works

- Site establishment;
- Drainage, utility, and road work;
- Piling and structure works; and
- Demolition of footbridge.

Contract 3505 Terminal 2 Spectrum Lighting Mock-ups

- Assembly of lighting mock up.

Automated People Mover (APM) works:

Contract 3602 Existing APM System Modification Works

- Site establishment;
- Site office construction; and
- Construction of concrete plinth.

Baggage Handling System (BHS) works:

Contract 3603 3RS Baggage Handling System

- Site establishment; and
- BHS modification work at Terminal 1.

Airport Support Infrastructure & Logistic Works:

Contract 3801 APM and BHS Tunnels on Existing Airport Island

- Site establishment;
- Diversion of underground utilities;
- Piling and foundation works; and
- Demolition of footbridge.

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 laying of sand blanket, DCM works, and marine filling;
- DEZ monitoring for ground improvement works (DCM works and PVD installation) and seawall construction;
- Implementation of MMWP for silt curtain deployment by the contractors' dolphin observers;
- Terrestrial ecological monitoring on Sheung Sha Chau;
- Sorting, recycling, storage and disposal of general refuse and construction waste;
- 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**.

9 Conclusion and Recommendation

The key activities of the Project carried out in the reporting period included reclamation works and land-side works. Reclamation works included deep cement mixing (DCM) works, marine filling, seawall construction, laying of sand blanket, and prefabricated vertical drain (PVD) installation. Land-side works involved mainly foundation and substructure work for Terminal 2 expansion, modification and tunnel work for Automated People Mover (APM) and Baggage Handling System (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, terrestrial ecology, 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 DO, turbidity, total alkalinity, and chromium obtained during the reporting period complied with the corresponding Action and Limit Levels stipulated in the EM&A programme. Relevant investigation and follow-up actions will be conducted according to the EM&A programme if the corresponding Action and Limit Levels are triggered. For SS and nickel, some of the testing results triggered the relevant Action and Limit Levels, and the corresponding investigations were conducted accordingly. The investigation findings concluded that the cases were not related to the Project. To conclude, the construction activities during the reporting period did not introduce adverse impact to all water quality sensitive receivers.

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

On the implementation of the SkyPier Plan, the daily movements of all SkyPier high speed ferries (HSFs) in October 2018 were in the range of 87 to 102 daily movements, which are within the maximum daily cap of 125 daily movements. A total of 894 HSF movements under the SkyPier Plan were recorded in the reporting period. All HSFs had travelled through the SCZ with average speeds under 15 knots (10.0 to 14.2 knots), which were in compliance with the SkyPier Plan. One deviation from the diverted route in October 2018 was recorded in the HSF monitoring. In summary, the ET and IEC have audited the HSF movements against the SkyPier Plan and conducted follow up investigations or actions accordingly.

On the implementation of MTRMP-CAV, the MSS automatically recorded the deviation case such as speeding, entering no entry zone, 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

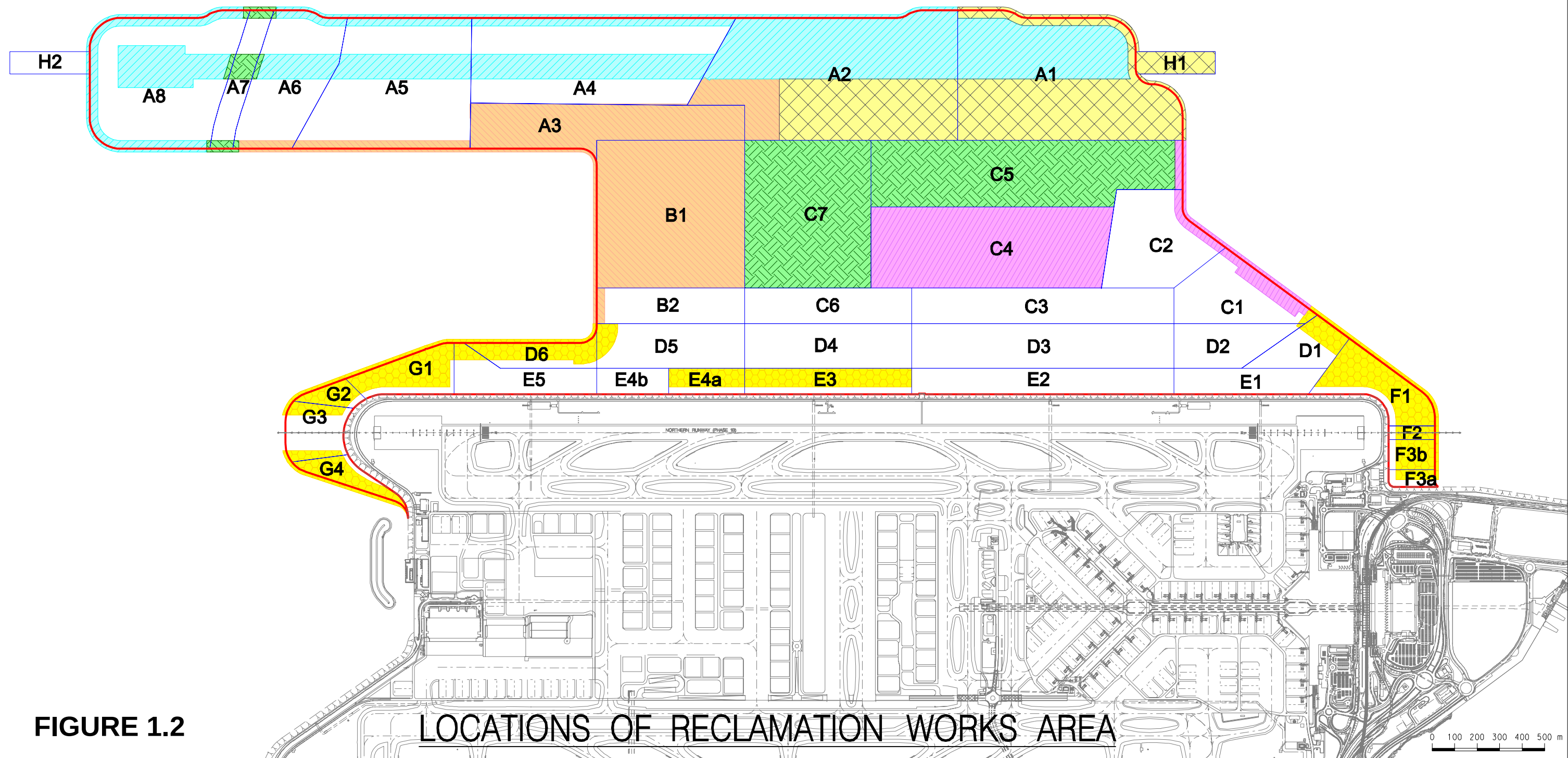
Brothers Marine Park. Three-month rolling programmes for construction vessel activities, which ensures the proposed vessels are necessary and minimal through good planning, were also received from contractors.

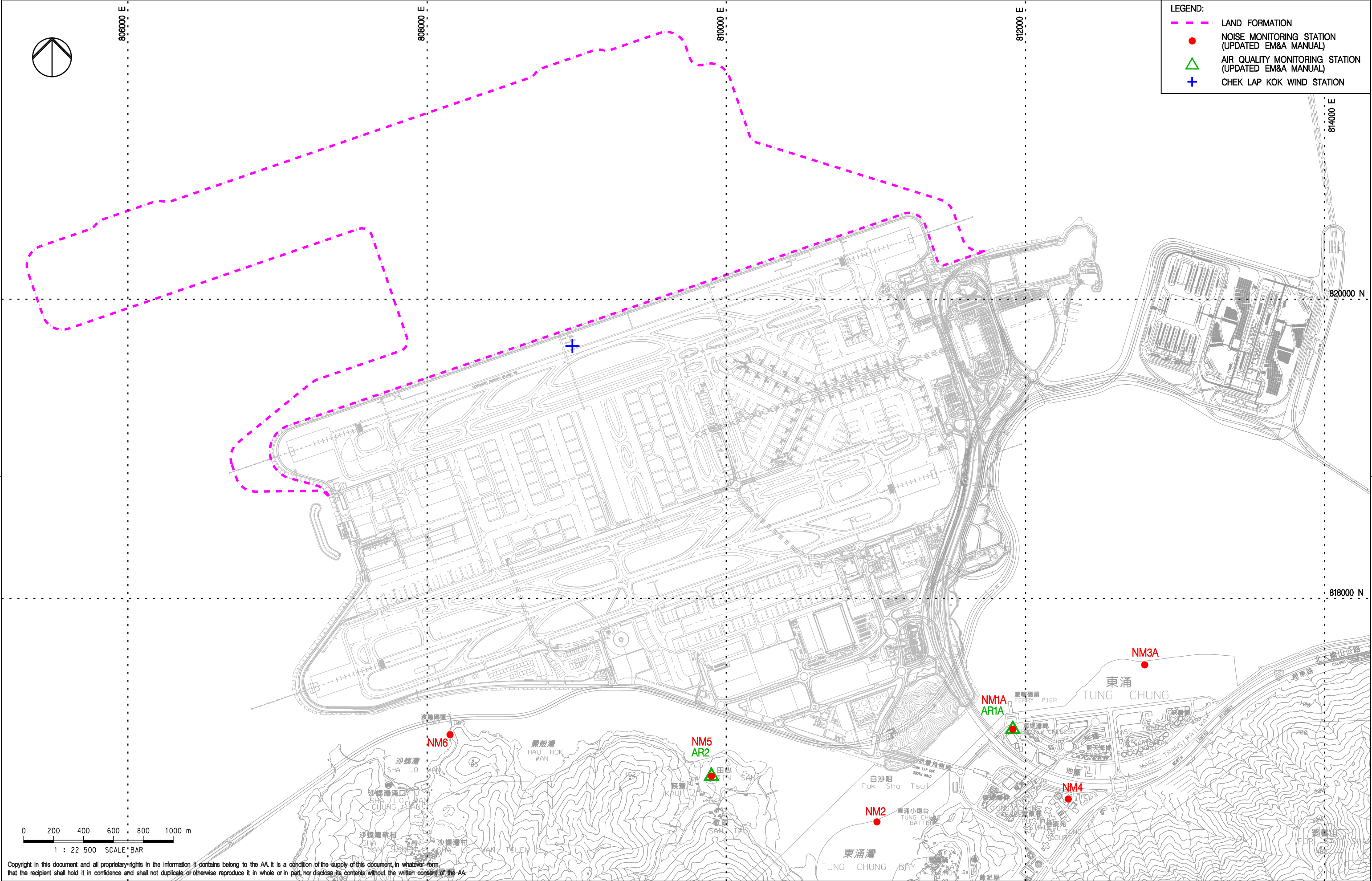
Figures

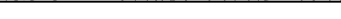


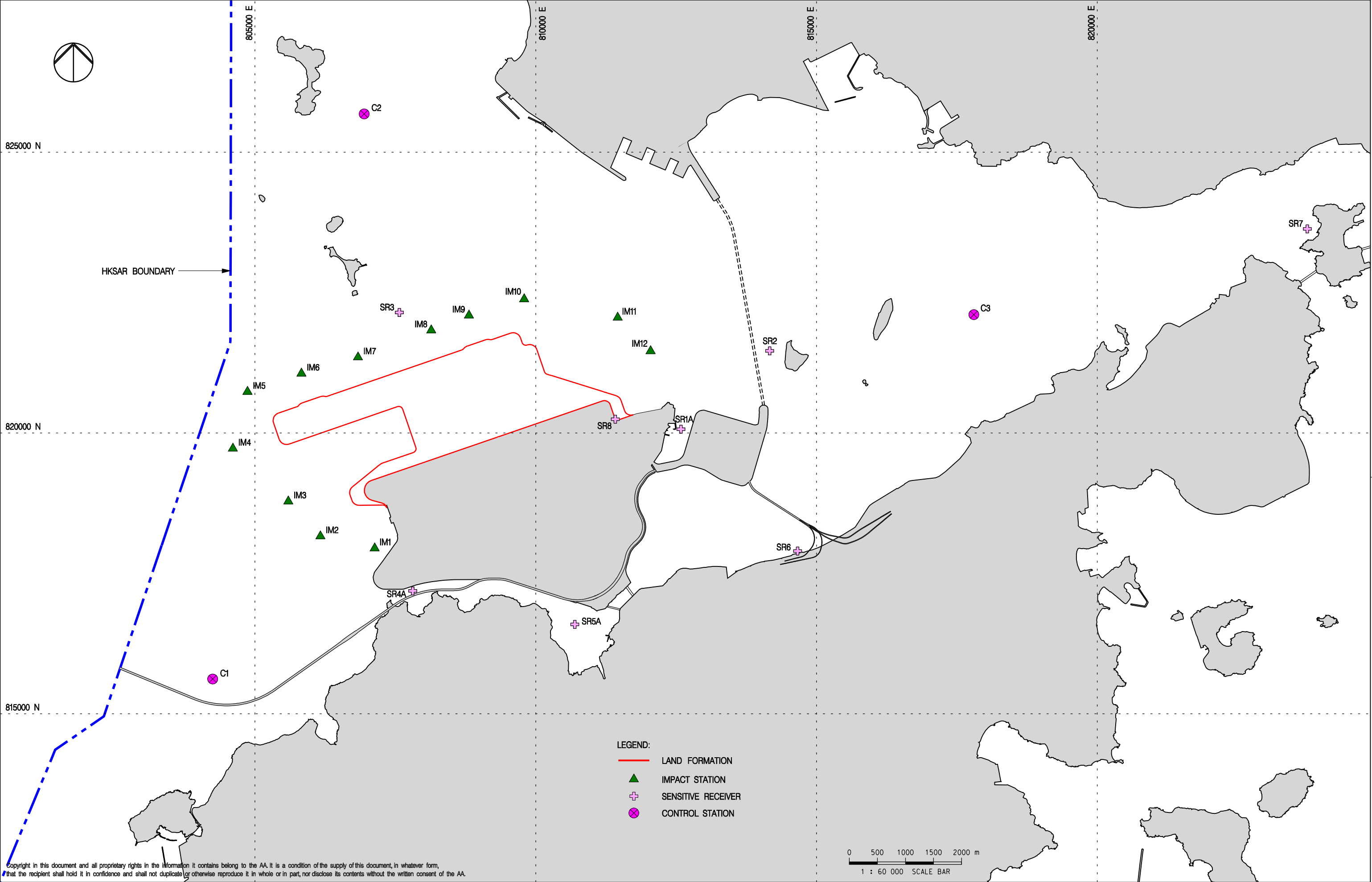
LEGEND:

"A1"	WORKS AREA
	CONTRACT 3201
	CONTRACT 3202
	CONTRACT 3203
	CONTRACT 3204
	CONTRACT 3205
	CONTRACT 3201 / 3202 / 3203 / 3204
	CONTRACT 3206



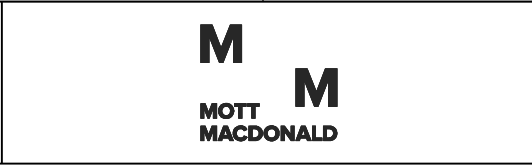


Rev.	Date	Description	Checked	 HONG KONG INTERNATIONAL AIRPORT 香港國際機場 Airport Authority HQA Tower, 1 Sky Plaza Road, Hong Kong International Airport, Lantau, Hong Kong Tel : (852) 2389 7111 M MOTT MACDONALD M	Title		Consultant's Signatures for Approval		Date	EXPANSION OF HONG KONG INTERNATIONAL AIRPORT INTO A THREE-RUNWAY SYSTEM	
A	06JAN16	FIRST ISSUE	RO		Design	TK	29OCT18	Drawing No. FIGURE 2.1	Scale at A3 1 : 22500 Rev. D		
B	29JAN16	GENERAL REVISION	RO		Checkers	TK	29OCT18				
C	11FEB16	GENERAL REVISION	RO		Approver	EC	29OCT18				
D	29OCT18	GENERAL REVISION	SH								



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Rev.	Date	Description	Checked
A	25MAY17	FIRST ISSUE	HY
B	07AUG17	GENERAL REVISION	JL
C	25MAY18	GENERAL REVISION	SH
D	29OCT18	GENERAL REVISION	SH

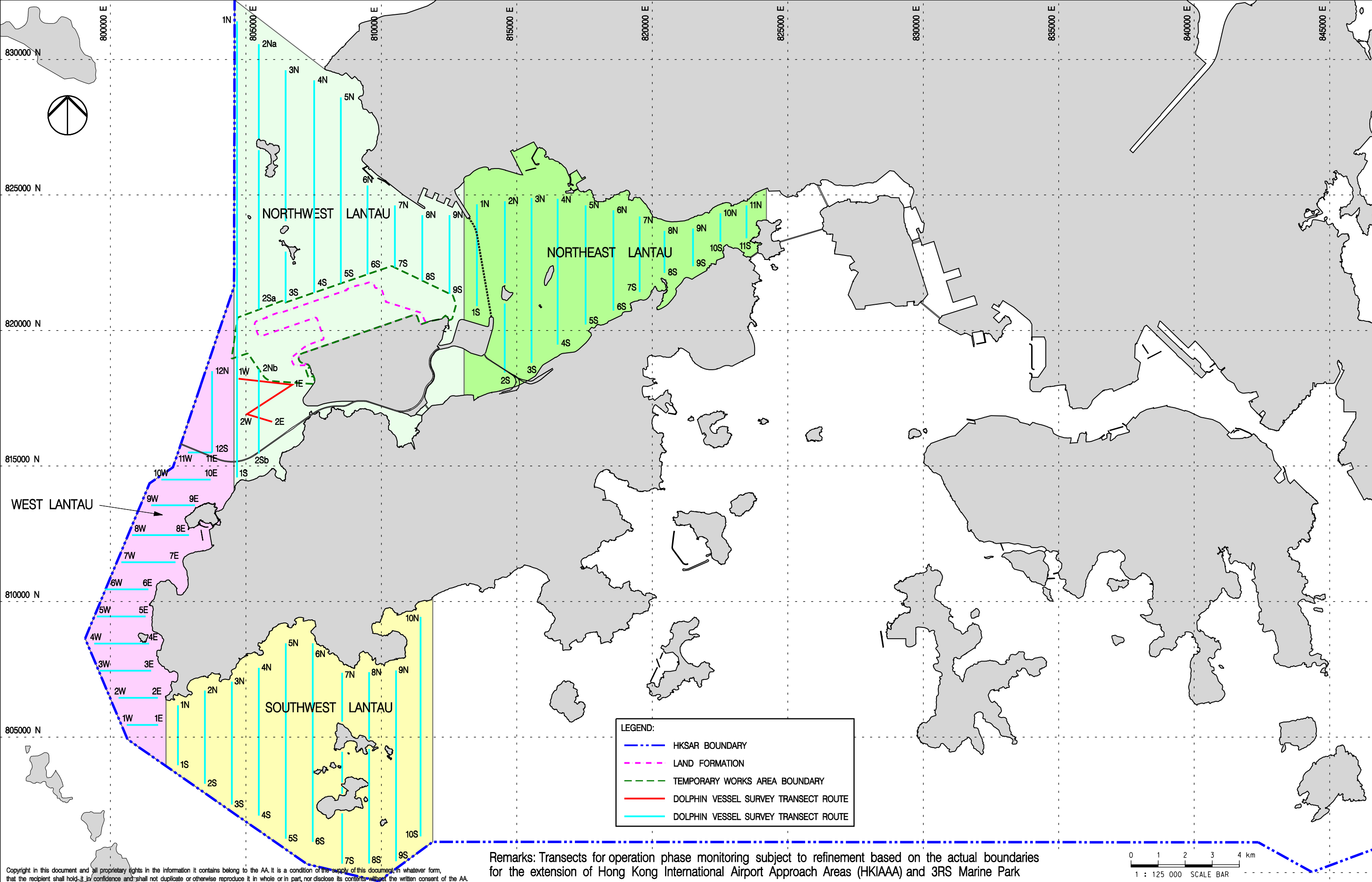


Title
WATER QUALITY MONITORING STATIONS

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

Date
29OCT18
29OCT18
29OCT18

EXPANSION OF HONG KONG INTERNATIONAL AIRPORT INTO A THREE-RUNWAY SYSTEM	
Drawing No.	Scale at A3 1 : 60000
FIGURE 3.1	Rev. D



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

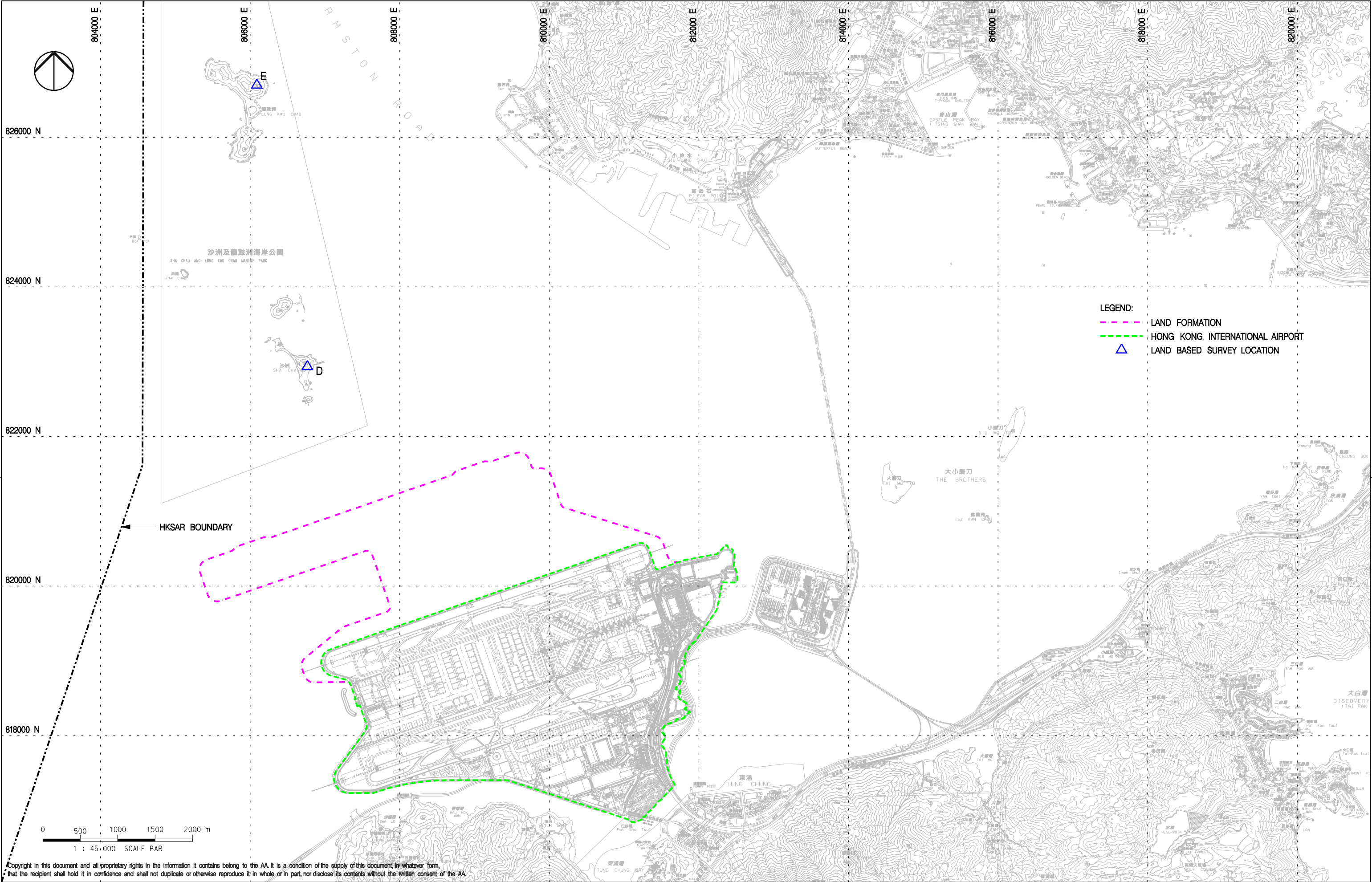
Rev.	Date	Description	Checked
A	02DEC15	FIRST ISSUE	JC
B	27JUL16	GENERAL REVISION	JT
C	06FEB17	GENERAL REVISION	JT
D	01MAR17	GENERAL REVISION	JT
E	29OCT18	GENERAL REVISION	SH



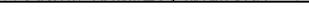
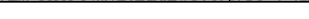
Title
VESSEL BASED DOLPHIN MONITORING TRANSECTS IN CONSTRUCTION, POST-CONSTRUCTION AND OPERATION PHASES

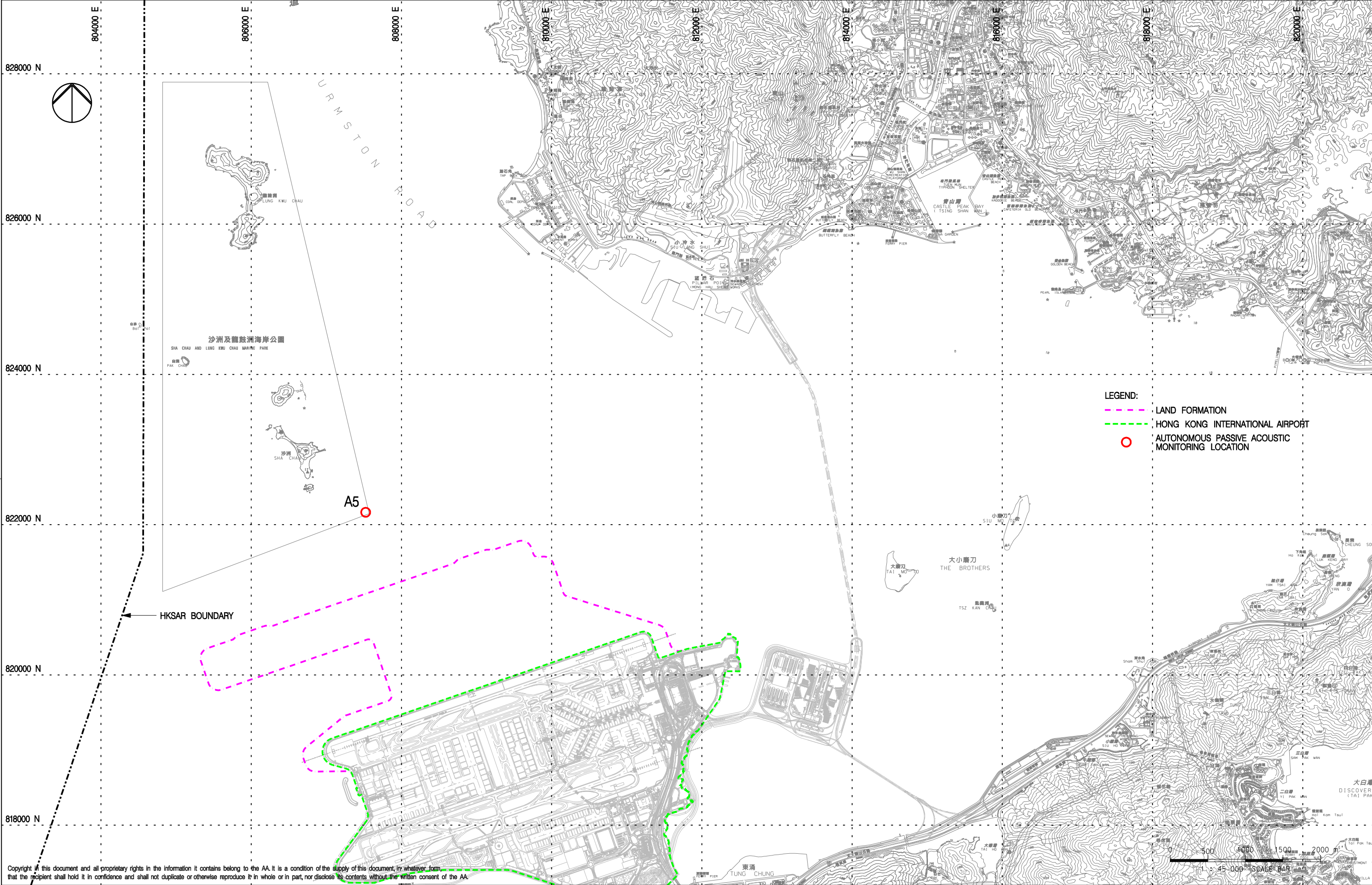
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EXPANSION OF HONG KONG INTERNATIONAL AIRPORT INTO A THREE-RUNWAY SYSTEM	
Drawing No.	Scale at A3 1 : 125000
FIGURE 6.1	Rev. E



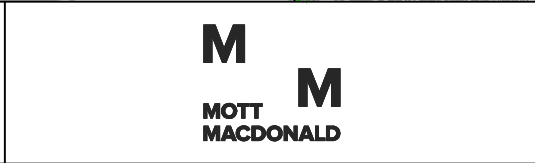
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A	02DEC15	FIRST ISSUE	JC				Design	JC	29OCT18	Drawing No.	Scale at A3 1 : 45000	
B	06FEB17	GENERAL REVISION	JC				Checkers	JC / TK	29OCT18		FIGURE 6.2	Rev. C
C	29OCT18	GENERAL REVISION	SH				Approver	EC	29OCT18			



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Rev.	Date	Description	Checked
A	29AUG17	FIRST ISSUE	JT
B	10OCT17	GENERAL REVISION	PL
C	29OCT18	GENERAL REVISION	SH



Title
LOCATION FOR AUTONOMOUS PASSIVE ACOUSTIC MONITORING

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

Date
29OCT18
29OCT18
29OCT18

EXPANSION OF HONG KONG INTERNATIONAL AIRPORT INTO A THREE-RUNWAY SYSTEM	
Drawing No.	
FIGURE 6.5	
Scale at A3	1 : 45000
Rev.	C

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

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

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

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

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

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

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

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			- All hot bins shall be totally enclosed and dust tight with close-fitted access inspection opening. Gaskets shall be installed to seal off any cracks and edges of any inspection openings. The air shall be extracted and ducted to a dust collection system to meet the required particulates limiting value; and - Appropriate control measures shall be adopted in order to meet the required bitumen emission limit as well as the ambient odour level (2 odour units).		
			Material transportation - The loading, unloading, handling, transfer or storage of other raw materials which may generate airborne dust emissions such as crushed rocks, sands, stone aggregates, reject fines, shall be carried out in such a manner as to minimize dust emissions; - Roadways from the entrance of the plant to the product loading points and/or any other working areas where there are regular movements of vehicles shall be paved or hard surfaced; and - Haul roads inside the Works shall be adequately wetted with water and/or chemical suppressants by water trucks or water sprayers.	Within Concrete Batching Plant / Duration of the construction phase	N/A
			Control of emissions from bitumen decanting - The heating temperature of the particular bitumen type and grade shall not exceed the corresponding temperature limit of the same type listed in Appendix 1 of the Guidance Note; - Tamper-free high temperature cut-off device shall be provided to shut off the fuel supply or electricity in case the upper limit for bitumen temperature is reached; - Proper chimney for the discharge of bitumen fumes shall be provided at high level; - The emission of bitumen fumes shall not exceed the required emission limit; and The air-to-fuel ratio shall be properly controlled to allow complete combustion of the fuel. The fuel burners, if any, shall be maintained properly and free from carbon deposits in the burner nozzles.	Within Concrete Batching Plant / Duration of the construction phase	N/A
			Liquid fuel The receipt, handling and storage of liquid fuel shall be carried out so as to prevent the release of emissions of organic vapours and/or other noxious and offensive emissions to the air.	Within Concrete Batching Plant / Duration of the construction phase	N/A
			Housekeeping A high standard of housekeeping shall be maintained. Waste material, spillage and scattered piles gathered beneath belt conveyors, inside and around enclosures shall be cleared frequently. The minimum clearing frequency is on a weekly basis.	Within Concrete Batching Plant / Duration of the construction phase	N/A
5.2.6.7	2.1	-	Best Practices for Rock Crushing Plants The relevant best practices for dust control as stipulated in the Guidance Note on the Best Practicable Means for Mineral Works (Stone Crushing Plant) BPM 11/1 (95) as well as in the future Specified Process licence should be adopted. These include:	Within Concrete Batching Plant / Duration of the construction phase	N/A

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

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

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

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
8.8.1.2 and 8.8.1.3	5.1	2.26	Marine Construction Activities <u>General Measures to be Applied to All Works Areas</u> ▪ Barges or hoppers shall not be filled to a level which will cause overflow of materials or pollution of water during loading or transportation; ▪ Use of Lean Material Overboard (LMOB) systems shall be prohibited; ▪ Excess materials shall be cleaned from the decks and exposed fittings of barges and hopper dredgers before the vessels are moved; ▪ Plants should not be operated with leaking pipes and any pipe leakages shall be repaired quickly; ▪ Adequate freeboard shall be maintained on barges to reduce the likelihood of decks being washed by wave action; ▪ All vessels shall be sized such that adequate clearance is maintained between vessels and the sea bed at all states of the tide to ensure that undue turbidity is not generated by turbulence from vessel movement or propeller wash; ▪ The works shall not cause foam, oil, grease, litter or other objectionable matter to be present in the water within and adjacent to the works site; and ▪ For ground improvement activities including DCM, the wash water from cleaning of the drilling shaft should be appropriately treated before discharge. The Contractor should ensure the waste water meets the WPCO/TM requirements before discharge. No direct discharge of contaminated water is permitted.	Within construction site / Duration of the construction phase	I
			<u>Specific Measures to be Applied to All Works Areas</u> ▪ The daily maximum production rates shall not exceed those assumed in the water quality assessment in the EIA report; ▪ A maximum of 10 % fines content to be adopted for sand blanket and 20 % fines content for marine filling below +2.5 mPD prior to substantial completion of seawall (until end of Year 2017) shall be specified in the works contract document;	Within construction site / Duration of the construction phase	I
			▪ An advance seawall of at least 200m to be constructed (comprising either rows of contiguous permanent steel cells completed above high tide mark or partially completed seawalls with rock core to high tide mark and filter layer on the inner side) prior to commencement of marine filling activities;		N/A
			▪ Closed grab dredger shall be used to excavate marine sediment; ▪ Silt curtains surrounding the closed grab dredger shall be deployed in accordance with the Silt Curtain Deployment Plan; and		N/A
			▪ The Silt Curtain Deployment Plan shall be implemented.		I

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

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			<u>Specific Measures to be Applied to the Field Joint Excavation Works for the Submarine Cable Diversion</u> - Only closed grabs designed and maintained to avoid spillage shall be used and should seal tightly when operated. Excavated materials shall be disposed at designated marine disposal area in accordance with the Dumping and Sea Ordinance (DASO) permit conditions; and - Silt curtains surrounding the closed grab dredger to be deployed as a precautionary measure.	Within construction site / Duration of the construction phase	N/A
8.8.1.4	5.1	-	Modification of the Existing Seawall Silt curtains shall be deployed around the seawall modification activities to completely enclose the active works areas, and care should be taken to avoid splashing of rockfill / rock armour into the surrounding marine environment. For the connecting sections with the existing outfalls, works for these connection areas should be undertaken during the dry season in order that individual drainage culvert cells may be isolated for interconnection works.	At the existing northern seawall / Duration of the construction phase	N/A
8.8.1.5	5.1	-	Construction of New Stormwater Outfalls and Modifications to Existing Outfalls During operation of the temporary drainage channel, runoff control measures such as bunding or silt fence shall be provided on both sides of the channel to prevent accumulation and release of SS via the temporary channel. Measures should also be taken to minimise the ingress of site drainage into the culvert excavations.	Within construction site / Duration of the construction phase	N/A
8.8.1.6 8.8.1.7	5.1	2.27	Piling Activities for Construction of New Runway Approach Lights and HKIAAA Marker Beacons Silt curtains shall be deployed around the piling activities to completely enclose the piling works and care should be taken to avoid spillage of excavated materials into the surrounding marine environment. <u>For construction of the eastern approach lights at the CMPs</u> - Ground improvement via DCM using a close-spaced layout shall be completed prior to commencement of piling works; - Steel casings shall be installed to enclose the excavation area prior to commencement of excavation; - The excavated materials shall be removed using a closed grab within the steel casings; - No discharge of the cement mixed materials into the marine environment will be allowed; and - Excavated materials shall be treated and reused on-site.	Within construction site / Duration of the construction phase	N/A
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: Install perimeter cut-off drains to direct off-site water around the site and implement internal drainage, erosion and sedimentation control facilities. Channels, earth bunds or sand bag barriers should be provided on site to direct storm water to silt removal facilities. The design of the temporary on-site	Within construction site / Duration of the construction phase	I

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

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.		N/A
10.5.1.1	7.1	-	The following good site practices should be performed during the construction activities include: - Nomination of an approved person, such as a site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site; - Training of site personnel in proper waste management and chemical waste handling procedures; - Provision of sufficient waste disposal points and regular collection for disposal; - Appropriate measures to minimise windblown litter and dust during transportation of waste by either covering trucks by tarpaulin/ similar material or by transporting wastes in enclosed containers. The cover should be extended over the edges of the sides and tailboards; - Stockpiles of C&D materials should be kept wet or covered by impervious sheets to avoid wind-blown dust; - All dusty materials including C&D materials should be sprayed with water immediately prior to any loading transfer operation so as to keep the dusty material wet during material handling at the barging points/ stockpile areas; - C&D materials to be delivered to and from the project site by barges or by trucks should be kept wet or covered to avoid wind-blown dust; - The speed of the trucks including dump trucks carrying C&D or waste materials within the site should be controlled to about 10 km/hour in order to reduce the adverse dust impact and secure the safe movement around the site; and - To avoid or minimise dust emission during transport of C&D or waste materials within the site, each and every main temporary access should be paved with concrete, bituminous hardcore materials or metal plates and kept clear of dusty materials. Unpaved parts of the road should be sprayed with water or a dust suppression chemical so as to keep the entire road surface wet.	Project Site Area / Construction Phase	I
10.5.1.3	7.1	-	The following practices should be performed to achieve waste reduction include: - Use of steel or aluminium formworks and falseworks for temporary works as far as practicable; - Adoption of repetitive design to allow reuse of formworks as far as practicable; - Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal;	Project Site Area / Construction Phase	I

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

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

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

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

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

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
				to completion of construction	
13.11.5.4 to 13.11.5.13	10.3.1	-	SkyPier High Speed Ferries' Speed Restrictions and Route Diversions - SkyPier HSFs operating to / from Zhuhai and Macau would divert north of SCLKC Marine Park with a 15 knot speed limit to apply for the part-journeys that cross high CWD abundance grid squares as indicatively shown in Drawing No. MCL/P132/EIA/13-023 of the EIA Report. Both the alignment of the northerly route and the portion of routings to be subject to the speed limit of 15 knots shall be finalised prior to commencement of construction based on the future review of up-to-date CWD abundance and EM&A data and taking reference to changes in total SkyPier HSF numbers; and - A maximum of 10 knots will be enforced through the designated SCLKC Marine Park area at all times.	Area between the footprint and SCLKC Marine Park during construction phase	I
			Other mitigation measures - The ET will audit various parameters including actual daily numbers of HSFs, compliance with the 15-knot speed limit in the speed control zone and diversion compliance for SkyPier HSFs operating to / from Zhuhai and Macau; and - The effectiveness of the CWD mitigation measures after implementation of initial six month SkyPier HSF diversion and speed restriction will be reviewed.	Area between the footprint and SCLKC Marine Park during construction phase	I
13.11.5.14 to 13.11.5.18	10.3.1	2.31	Dolphin Exclusion Zone Establishment of a 24 hr Dolphin Exclusion Zone (DEZ) with a 250 m radius around the land formation works areas;	Marine waters around land formation works area during construction phase	I
			A DEZ would also be implemented during ground improvement works (e.g. DCM), water jetting works for submarine cables diversion, open trench dredging at the field joint locations and seawall construction; and		I
			A DEZ would also be implemented during bored piling work but as a precautionary measure only.		N/A
13.11.5.19	10.4	2.31	Acoustic Decoupling of Construction Equipment - Air compressors and other noisy equipment that must be mounted on steel barges should be acoustically-decoupled to the greatest extent feasible, for instance by using rubber or air-filled tyres; and - Specific acoustic decoupling measures shall be specified during the detailed design of the project for use during the land formation works.	Around coastal works area during construction phase	I
13.11.5.20	10.6.1	2.29	Spill Response Plan An oil and hazardous chemical spill response plan is proposed to be established during the construction phase as a precautionary measure so that appropriate actions to prevent or reduce risks to CWDs can be undertaken in the event of an accidental spillage.	Construction phase	I

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
13.11.5.21 to 13.11.5.23	10.6.1	-	Construction Vessel Speed Limits and Skipper Training - A speed limit of 10 knots should be strictly observed for construction vessels at areas with the highest CWD densities; and - Vessels traversing through the work areas should be required to use predefined and regular routes (which would presumably become known to resident dolphins) to reduce disturbance to cetaceans due to vessel movements. Specific marine routes shall be specified by the Contractor prior to construction commencing.	All areas north and west of Lantau Island during construction phase	I
Fisheries Impact – Construction Phase					
14.9.1.2 to 14.9.1.5	-	-	Minimisation of Land Formation Area Minimise the overall size of the land formation needed for the additional facilities to minimise the overall loss of habitat for fisheries resources.	Land formation footprint / during detailed design phase to completion of construction	I
14.9.1.6	-	-	Use of Construction Methods with Minimal Risk/Disturbance Use of non-dredge method for the main land formation and ancillary works including the diversion of the aviation fuel pipeline to the AFRF;	During construction phase at marine works area	I
			Use of Deep Cement Mixing (DCM) method instead of conventional seabed dredging for the land formation works to reduce the risk of negative impacts through the elevation of suspended solids and contaminants on fisheries and the marine environment;		I
			Use of bored piling in short duration to form the new approach lights and marker beacons for the new runway; and		N/A
			Use of horizontal directional drilling (HDD) method and water jetting methods for placement of undersea cables and pipelines to minimise the disturbance to fisheries resources.		I
14.9.1.11	-	-	Strict Enforcement of No-Dumping Policy - A policy prohibiting dumping of wastes, chemicals, oil, trash, plastic, or any other substance that would potentially be harmful to dolphins and/or their habitat in the work area; - Mandatory educational programme of the no-dumping policy be made available to all construction site personnel for all project-related works; - Fines for infractions should be implemented; and - Unscheduled, on-site audits shall be implemented.	All works area during the construction phase	I
14.9.1.12	-	-	Good Construction Site Practices - Regular inspection of the integrity and effectiveness of all silt curtains and monitoring of effluents to ensure that any discharge meets effluent discharge guidelines; - Keep the number of working or stationary vessels present on-site to the minimum anytime; and	All works area during the construction phase	I

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			▪ 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.		
14.9.1.13 to 14.9.1.18	-		Mitigation for Indirect Disturbance due to Deterioration of Water Quality ▪ Water quality mitigation measures during construction phases include consideration of alternative construction methods, deployment of silt curtain and good site practices;	All works area during the construction phase	I
			▪ Alternative construction methods including use of non-dredge methods for ground improvement (e.g. Deep Cement Mixing (DCM), prefabricated vertical drains (PVD), sand compaction piles, steel cells, stone columns and vertical sand drains);		I
			▪ Use of bored piling in short duration to form the new approach lights and marker beacons for the new runway; and		N/A
			▪ Use of horizontal directional drilling (HDD) method and water jetting methods for placement of undersea cables and pipelines to minimise the disturbance to fisheries resources.		I
Landscape and Visual Impact – Construction Phase					
Table 15.6	12.3	-	CM1 - The construction area and contractor's temporary works areas should be minimised to avoid impacts on adjacent landscape.	All works areas for duration of works; Upon handover and completion of works.	I
Table 15.6	12.3	-	CM2 - Reduction of construction period to practical minimum.	All works areas for duration of works; Upon handover and completion of works.	I
Table 15.6	12.3	-	CM3 - Phasing of the construction stage to reduce visual impacts during the construction phase.	All works areas for duration of works; Upon handover and completion of works.	I
Table 15.6	12.3	-	CM4 - Construction traffic (land and sea) including construction plants, construction vessels and barges should be kept to a practical minimum.	All works areas for duration of works; Upon handover and completion of works.	I
Table 15.6	12.3	-	CM5 - Erection of decorative mesh screens or construction hoardings around works areas in visually unobtrusive colours.	All works areas for duration of works; Upon handover and completion of works. –	I

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
				may be disassembled in phases	
Table 15.6	12.3	-	CM6 - Avoidance of excessive height and bulk of site buildings and structures.	New passenger concourse, terminal 2 expansion and other proposed airport related buildings and structures under the project; Upon handover and completion of works.	N/A
Table 15.6	12.3	-	CM7 - Control of night-time lighting by hooding all lights and through minimisation of night working periods.	All works areas for duration of works; Upon handover and completion of works. – may be disassembled in phases	I
Table 15.6	12.3	-	CM8 - All existing trees shall be carefully protected during construction. Detailed Tree Protection Specification shall be provided in the Contract Specification. Under this specification, the Contractor shall be required to submit, for approval, a detailed working method statement for the protection of trees prior to undertaking any works adjacent to all retained trees, including trees in contractor's works areas.	All existing trees to be retained; Upon handover and completion of works.	I
Table 15.6	12.3	-	CM9 - Trees unavoidably affected by the works shall be transplanted where practical. A detailed Tree Transplanting Specification shall be provided in the Contract Specification, if applicable. Sufficient time for necessary tree root and crown preparation periods shall be allowed in the project programme.	All existing trees to be affected by the works; Upon handover and completion of works.	I
Table 15.6	12.3	-	CM10 - Land formation works shall be followed with advanced hydroseeding around taxiways and runways as soon as practical.	All affected existing grass areas around runways and verges/Duration of works; Upon handover and completion of works.	N/A
Cultural Heritage Impact – Construction Phase					
Not applicable.					

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

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			Health Impact – Aircraft 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

Oct-18

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1	2 Site Inspection NM6 WQ General & Regular DCM mid-ebb: 18:23 mid-flood: 13:19	3 Site Inspection	4 Site Inspection CWD Survey (Vessel) AR1A, AR2 NM1A, NM4, NM5 WQ General & Regular DCM mid-ebb: 8:17 mid-flood: 16:16	5 Site Inspection CWD Survey (Vessel)	6 WQ General & Regular DCM mid-ebb: 10:42 mid-flood: 17:43
7	8 Site Inspection CWD Survey (Vessel, Land-based) NM6	9 Site Inspection CWD Survey (Land-based) WQ General & Regular DCM mid-ebb: 13:05 mid-flood: 6:47	10 Site Inspection AR1A, AR2 NM1A, NM4, NM5	11 Site Inspection CWD Survey (Vessel) Ecological Monitoring WQ General & Regular DCM mid-ebb: 14:25 mid-flood: 8:24	12 Site Inspection CWD Survey (Vessel)	13 WQ General & Regular DCM mid-ebb: 15:44 mid-flood: 10:03
14	15 Site Inspection CWD Survey (Land-based) AR1A, AR2 NM1A, NM4, NM5	16 Site Inspection WQ General & Regular DCM mid-ebb: 5:24 mid-flood: 17:49	17	18 Site Inspection WQ General & Regular DCM mid-ebb: 7:47 mid-flood: 16:25	19 Site Inspection AR1A, AR2 NM6	20 WQ General & Regular DCM mid-ebb: 10:02 mid-flood: 17:19
21	22 CWD Survey (Land-based)	23 Site Inspection CWD Survey (Vessel) NM6 WQ General & Regular DCM mid-ebb: 12:02* mid-flood: 5:57	24 Site Inspection CWD Survey (Vessel)	25 Site Inspection AR1A, AR2 NM1A, NM4, NM5 WQ General & Regular DCM mid-ebb: 13:14 mid-flood: 7:21	26 Site Inspection CWD Survey (Vessel)	27 WQ General & Regular DCM mid-ebb: 14:33 mid-flood: 8:51
28	29 CWD Survey (Land-based) NM6	30 Site Inspection WQ General & Regular DCM mid-ebb: 17:05 mid-flood: 11:55	31 Site Inspection AR1A, AR2 NM1A, NM4, NM5			
		Notes: CWD - Chinese White Dolphin Air quality and Noise Monitoring Station WQ - Water Quality DCM - Deep Cement Mixing *Ebb tide WQ monitoring session on 23 October was cancelled due to marine traffic management.				

Tentative Monitoring Schedule of Next Reporting Period

Nov-18

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1 Site Inspection General WQ & Regular DCM mid-ebb: 6:20 mid-flood: 14:54	2 Site Inspection	3 General WQ & Regular DCM mid-ebb: 9:20 mid-flood: 16:30
4	5 CWD Survey (Land-based)	6 Site Inspection CWD Survey (Vessel) AR1A, AR2 NM1A, NM4, NM5 General WQ & Regular DCM mid-ebb: 12:01 mid-flood: 18:03	7 Site Inspection CWD Survey (Vessel)	8 Site Inspection CWD Survey (Vessel) NM6 Terrestrial Ecological Monitoring General WQ & Regular DCM mid-ebb: 13:27 mid-flood: 19:00	9 Site Inspection	10 General WQ & Regular DCM mid-ebb: 14:45 mid-flood: 9:13
11	12 CWD Survey (Vessel) AR1A, AR2 NM1A, NM4, NM5	13 Site Inspection CWD Survey (Vessel, Land-based) General WQ & Regular DCM mid-ebb: 4:00 mid-flood: 11:45	14 Site Inspection CWD Survey (Land-based) NM6	15 Site Inspection General WQ & Regular DCM mid-ebb: 5:29 mid-flood: 17:57	16 Site Inspection CWD Survey (Vessel) AR1A, AR2	17 General WQ & Regular DCM mid-ebb: 22:11 mid-flood: 15:50
18	19	20 Site Inspection CWD Survey (Land-based) NM6 General WQ & Regular DCM mid-ebb: 10:42 mid-flood: 17:06	21 Site Inspection CWD Survey (Land-based)	22 Site Inspection CWD Survey (Vessel) AR1A, AR2 NM1A, NM4, NM5 General WQ & Regular DCM mid-ebb: 12:08 mid-flood: 17:57	23 Site Inspection CWD Survey (Vessel)	24 General WQ & Regular DCM mid-ebb: 13:36 mid-flood: 8:03
25	26 NM6	27 Site Inspection General WQ & Regular DCM mid-ebb: 16:01 mid-flood: 10:47	28 Site Inspection AR1A, AR2 NM1A, NM4, NM5	29 Site Inspection General WQ & Regular DCM mid-ebb: 18:15 mid-flood: 12:59	30 Site Inspection	
		Notes: CWD - Chinese White Dolphin Air Quality and Noise Monitoring Station WQ - Water Quality DCM - Deep Cement Mixing NM1A/AR1A - Man Tung Road Park NM4 - Ching Chung Hau Po Woon Primary School NM5/AR2 - Village House, Tin Sum NM6 - House No. 1, Sha Lo Wan				

Appendix C. Monitoring Results

Air Quality Monitoring Results

1-hour TSP Results

Station: AR1A - Man Tung Road Park

Date	Time	Weather	Wind Speed (m/s)	Wind Direction (deg)	1-hr TSP ($\mu\text{g}/\text{m}^3$)	Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
04-Oct-18	8:59	Sunny	5.9	355	22	306	500
04-Oct-18	9:59	Sunny	5.9	346	22	306	500
04-Oct-18	10:59	Sunny	4.5	329	22	306	500
10-Oct-18	8:56	Cloudy	2.6	49	67	306	500
10-Oct-18	9:56	Cloudy	3.1	44	67	306	500
10-Oct-18	10:56	Rainy	2.0	323	NA*	306	500
15-Oct-18	09:01	Fine	3.9	115	37	306	500
15-Oct-18	10:01	Fine	6.9	90	28	306	500
15-Oct-18	11:01	Fine	6.5	105	31	306	500
19-Oct-18	09:03	Sunny	8.2	95	52	306	500
19-Oct-18	10:03	Sunny	8.7	98	50	306	500
19-Oct-18	11:03	Sunny	9.0	92	51	306	500
25-Oct-18	9:07	Sunny	5.6	88	52	306	500
25-Oct-18	10:07	Sunny	5.7	108	54	306	500
25-Oct-18	11:07	Sunny	4.7	97	48	306	500
31-Oct-18	9:01	Sunny	4.0	22	26	306	500
31-Oct-18	10:01	Sunny	6.8	357	24	306	500
31-Oct-18	11:01	Sunny	6.9	357	25	306	500

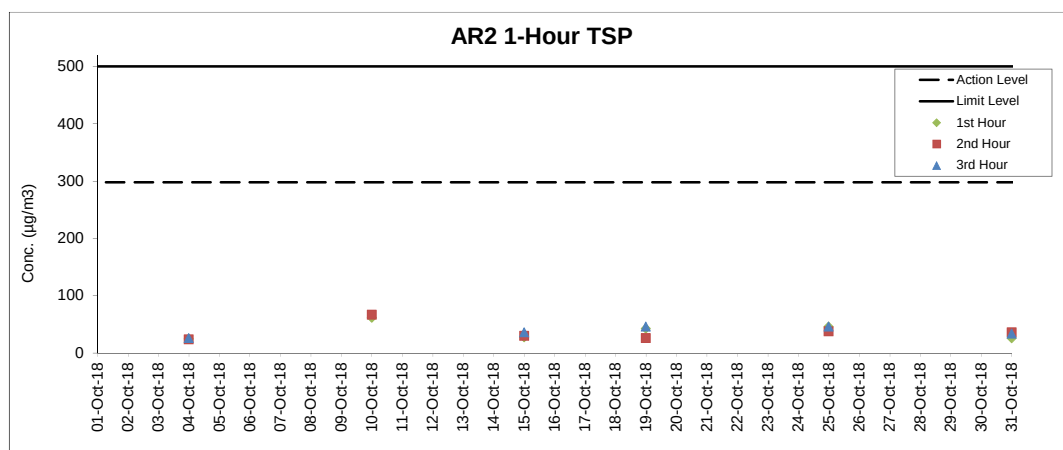
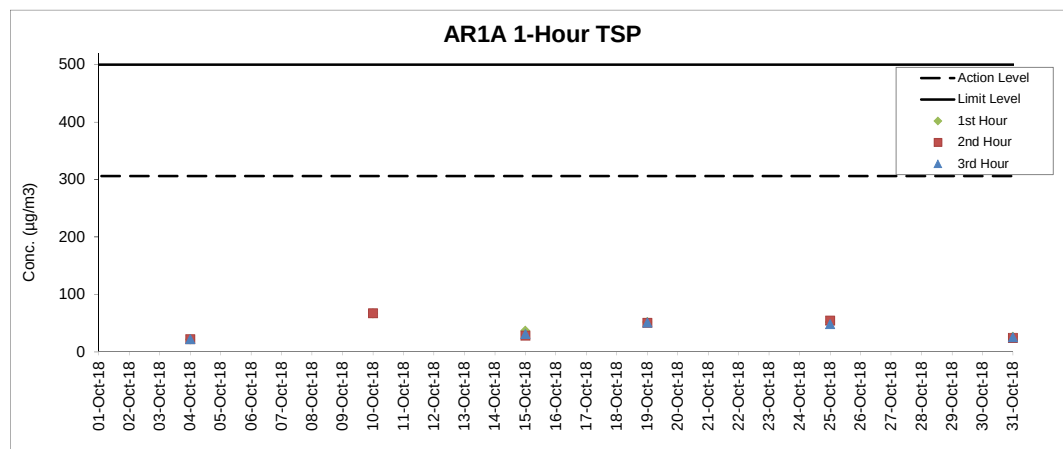
NA*: Abnormal result, which may be caused by malfunction of monitoring equipment during inclement weather, was recorded. The measurement result was discarded after review.

1-hour TSP Results

Station: AR2 - Village House, Tin Sum

Date	Time	Weather	Wind Speed (m/s)	Wind Direction (deg)	1-hr TSP ($\mu\text{g}/\text{m}^3$)	Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
04-Oct-18	8:45	Fine	6.6	357	25	298	500
04-Oct-18	9:45	Fine	5.3	343	24	298	500
04-Oct-18	10:45	Fine	5.9	332	26	298	500
10-Oct-18	8:54	Cloudy	2.8	47	62	298	500
10-Oct-18	9:54	Cloudy	3.2	44	67	298	500
10-Oct-18	10:54	Rainy	1.6	344	NA*	298	500
15-Oct-18	08:46	Sunny	3.8	151	28	298	500
15-Oct-18	9:46	Sunny	6.9	90	30	298	500
15-Oct-18	10:46	Sunny	6.9	101	36	298	500
19-Oct-18	9:00	Fine	7.9	93	43	298	500
19-Oct-18	10:00	Fine	8.8	97	26	298	500
19-Oct-18	11:00	Fine	9.1	92	46	298	500
25-Oct-18	8:50	Cloudy	6.1	87	46	298	500
25-Oct-18	9:50	Cloudy	4.8	108	38	298	500
25-Oct-18	10:50	Cloudy	5.2	97	46	298	500
31-Oct-18	8:48	Sunny	5.0	28	26	298	500
31-Oct-18	9:48	Sunny	6.6	355	36	298	500
31-Oct-18	10:48	Sunny	6.7	358	34	298	500

NA*: Abnormal result, which may be caused by malfunction of monitoring equipment during inclement weather, was recorded. The measurement result was discarded after review.



Noise Monitoring Results

Noise Measurement Results

Station: NM1A- Man Tung Road Park

Date	Weather	Time	Measured L ₁₀ dB(A)	Measured L ₉₀ dB(A)	L _{eq(30mins)} dB(A)
04-Oct-18	Sunny	9:11	72.5	54.5	71
04-Oct-18	Sunny	9:16	71.5	54.5	
04-Oct-18	Sunny	9:21	73.0	56.0	
04-Oct-18	Sunny	9:26	70.0	53.5	
04-Oct-18	Sunny	9:31	72.0	53.5	
04-Oct-18	Sunny	9:36	71.5	54.5	71
10-Oct-18	Fine	9:09	71.5	54.0	
10-Oct-18	Fine	9:14	72.0	54.0	
10-Oct-18	Fine	9:19	72.5	54.0	
10-Oct-18	Fine	9:24	71.5	53.5	
10-Oct-18	Fine	9:29	72.5	53.5	
10-Oct-18	Fine	9:34	72.0	53.0	
15-Oct-18	Sunny	9:17	72.0	54.5	70
15-Oct-18	Sunny	9:22	71.5	54.5	
15-Oct-18	Sunny	9:27	70.0	51.5	
15-Oct-18	Sunny	9:32	72.0	53.5	
15-Oct-18	Sunny	9:37	70.5	54.5	
15-Oct-18	Sunny	9:42	69.5	54.5	
25-Oct-18	Sunny	9:26	72.0	53.0	71
25-Oct-18	Sunny	9:31	73.0	57.0	
25-Oct-18	Sunny	9:36	71.5	54.0	
25-Oct-18	Sunny	9:41	72.5	55.5	
25-Oct-18	Sunny	9:46	69.5	53.5	
25-Oct-18	Sunny	9:51	72.0	53.5	
31-Oct-18	Sunny	9:23	73.0	55.5	72
31-Oct-18	Sunny	9:28	72.5	55.0	
31-Oct-18	Sunny	9:33	72.0	54.5	
31-Oct-18	Sunny	9:38	73.5	55.5	
31-Oct-18	Sunny	9:43	70.0	53.5	
31-Oct-18	Sunny	9:48	74.5	57.0	

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 L ₁₀ dB(A)	Measured L ₉₀ dB(A)	L _{eq(30mins)} dB(A)
04-Oct-18	Sunny	13:27	66.5	59.5	66
04-Oct-18	Sunny	13:32	65.5	59.5	
04-Oct-18	Sunny	13:37	64.5	60.0	
04-Oct-18	Sunny	13:42	64.5	59.0	
04-Oct-18	Sunny	13:47	64.0	60.0	
04-Oct-18	Sunny	13:52	63.5	60.5	
10-Oct-18	Cloudy	13:48	64.0	62.0	66
10-Oct-18	Cloudy	13:53	64.5	62.0	
10-Oct-18	Cloudy	13:58	65.0	62.0	
10-Oct-18	Cloudy	14:03	64.0	61.0	
10-Oct-18	Cloudy	14:08	64.0	61.5	
10-Oct-18	Cloudy	14:13	64.0	61.0	
15-Oct-18	Fine	14:46	63.5	59.5	65
15-Oct-18	Fine	14:51	65.0	59.0	
15-Oct-18	Fine	14:56	63.5	59.5	
15-Oct-18	Fine	15:01	64.5	59.0	
15-Oct-18	Fine	15:06	63.0	58.5	
15-Oct-18	Fine	15:11	63.5	59.0	
25-Oct-18	Sunny	13:50	62.5	58.5	64
25-Oct-18	Sunny	13:55	63.0	58.5	
25-Oct-18	Sunny	14:00	63.0	58.5	
25-Oct-18	Sunny	14:05	62.5	58.5	
25-Oct-18	Sunny	14:10	62.5	58.5	
25-Oct-18	Sunny	14:15	62.5	59.0	
31-Oct-18	Sunny	13:31	63.5	59.0	65
31-Oct-18	Sunny	13:36	64.0	59.0	
31-Oct-18	Sunny	13:41	65.0	59.5	
31-Oct-18	Sunny	13:46	63.5	59.0	
31-Oct-18	Sunny	13:51	63.5	58.5	
31-Oct-18	Sunny	13:56	65.0	59.0	

Remarks:

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

Noise Measurement Results

Station: NM5- Village House, Tin Sum

Date	Weather	Time	Measured L ₁₀ dB(A)	Measured L ₉₀ dB(A)	L _{eq(30mins)} dB(A)
04-Oct-18	Fine	8:47	56.0	51.0	53
04-Oct-18	Fine	8:52	61.0	50.0	
04-Oct-18	Fine	8:57	58.5	50.0	
04-Oct-18	Fine	9:02	59.5	52.0	
04-Oct-18	Fine	9:07	60.5	53.0	
04-Oct-18	Fine	9:12	58.0	50.5	
10-Oct-18	Fine	8:49	54.5	42.0	55
10-Oct-18	Fine	8:54	50.5	42.5	
10-Oct-18	Fine	8:59	52.0	43.5	
10-Oct-18	Fine	9:04	53.5	42.5	
10-Oct-18	Fine	9:09	50.5	42.5	
10-Oct-18	Fine	9:14	57.5	43.0	
15-Oct-18	Sunny	8:53	52.0	42.0	52
15-Oct-18	Sunny	8:58	53.0	43.0	
15-Oct-18	Sunny	9:03	54.5	42.0	
15-Oct-18	Sunny	9:08	51.0	43.5	
15-Oct-18	Sunny	9:13	49.5	42.0	
15-Oct-18	Sunny	9:18	49.5	43.0	
25-Oct-18	Cloudy	9:06	56.0	49.0	59
25-Oct-18	Cloudy	9:11	58.0	49.5	
25-Oct-18	Cloudy	9:16	58.0	49.5	
25-Oct-18	Cloudy	9:21	59.5	48.5	
25-Oct-18	Cloudy	9:26	56.0	49.5	
25-Oct-18	Cloudy	9:31	55.0	49.0	
31-Oct-18	Sunny	9:08	63.0	54.0	57
31-Oct-18	Sunny	9:13	61.5	53.5	
31-Oct-18	Sunny	9:18	62.0	54.0	
31-Oct-18	Sunny	9:23	60.5	52.5	
31-Oct-18	Sunny	9:28	58.0	52.5	
31-Oct-18	Sunny	9:33	58.5	52.0	

Remarks:

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

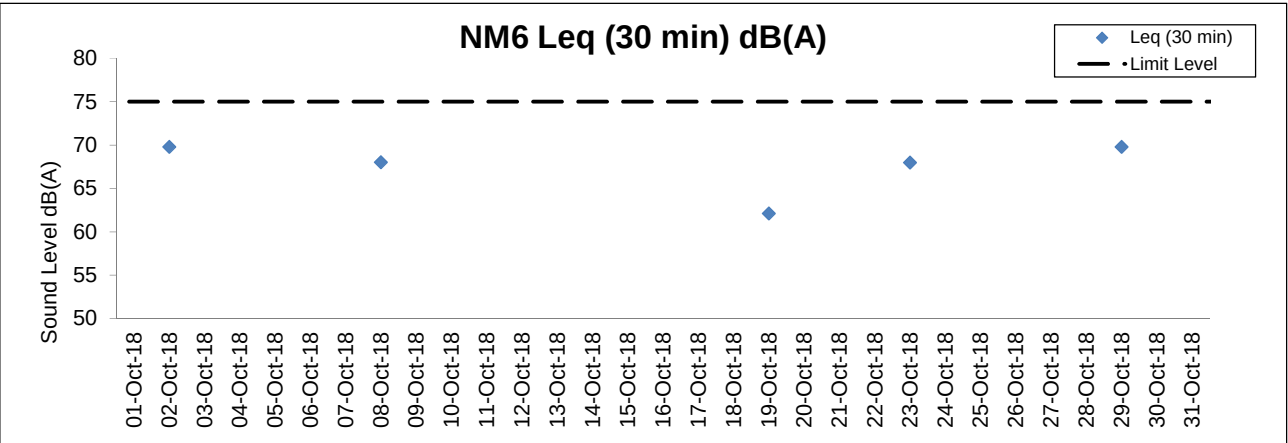
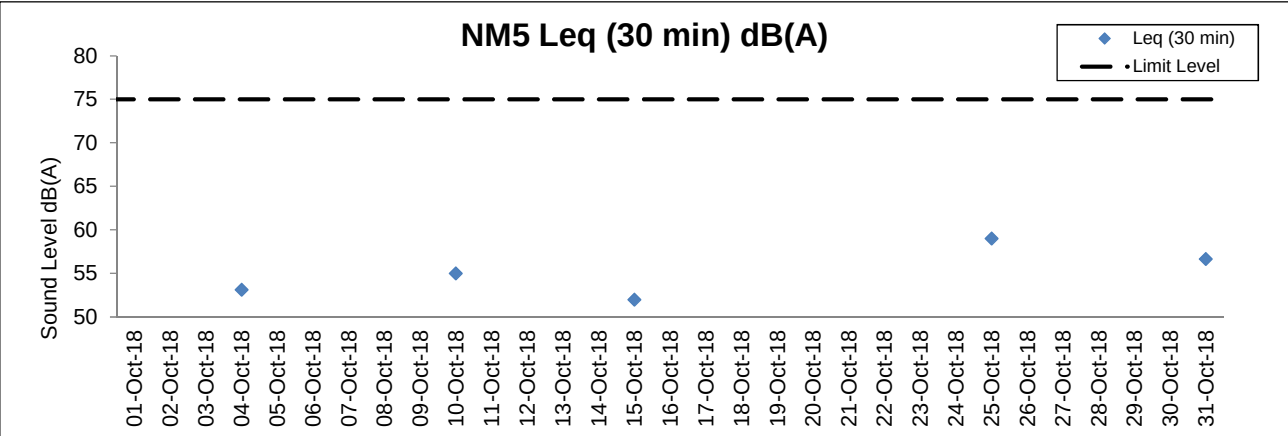
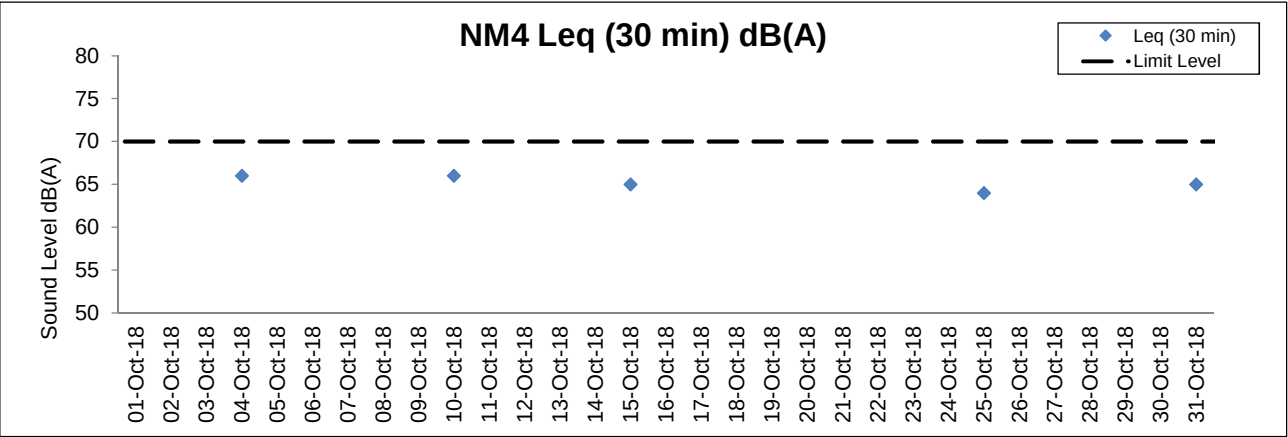
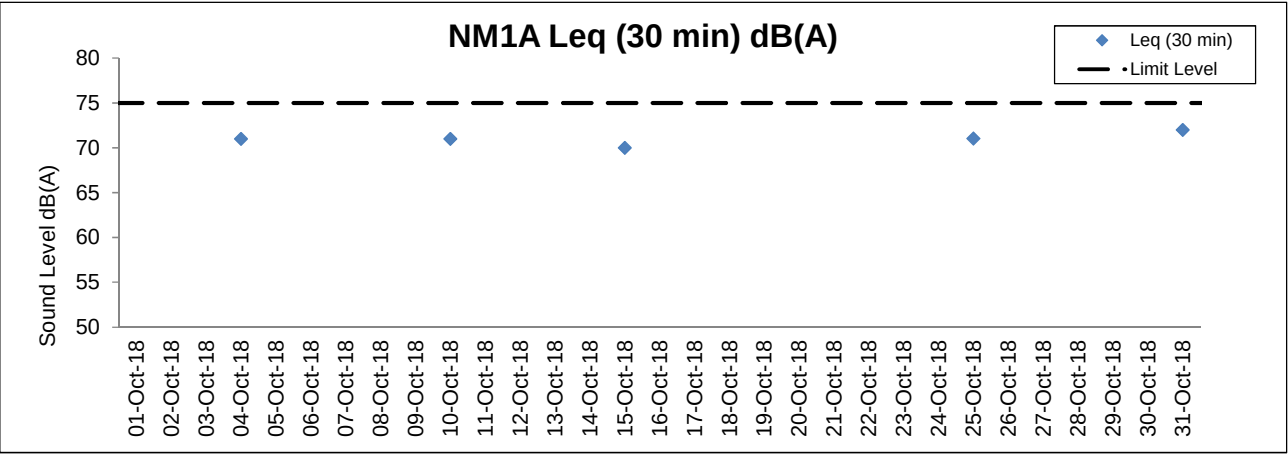
Noise Measurement Results

Station: NM6- House No.1 Sha Lo Wan

Date	Weather	Time	Measured L ₁₀ dB(A)	Measured L ₉₀ dB(A)	L _{eq(30mins)} dB(A)
02-Oct-18	Sunny	9:40	76.0	58.5	70
02-Oct-18	Sunny	9:45	68.5	57.0	
02-Oct-18	Sunny	9:50	74.5	56.0	
02-Oct-18	Sunny	9:55	72.0	57.5	
02-Oct-18	Sunny	10:00	75.5	57.0	
02-Oct-18	Sunny	10:05	71.0	55.0	
08-Oct-18	Sunny	9:44	63.0	55.5	68
08-Oct-18	Sunny	9:49	72.5	55.5	
08-Oct-18	Sunny	9:54	65.0	54.0	
08-Oct-18	Sunny	9:59	68.5	52.0	
08-Oct-18	Sunny	10:04	71.0	53.0	
08-Oct-18	Sunny	10:09	67.5	51.5	
19-Oct-18	Fine	9:41	63.5	54.0	62
19-Oct-18	Fine	9:46	64.0	56.0	
19-Oct-18	Fine	9:51	67.0	55.0	
19-Oct-18	Fine	9:56	72.5	61.0	
19-Oct-18	Fine	10:01	69.5	54.0	
19-Oct-18	Fine	10:06	71.5	54.0	
23-Oct-18	Cloudy	9:52	72.5	56.5	68
23-Oct-18	Cloudy	9:57	75.0	58.5	
23-Oct-18	Cloudy	10:02	72.5	59.0	
23-Oct-18	Cloudy	10:07	69.0	55.5	
23-Oct-18	Cloudy	10:12	68.0	52.5	
23-Oct-18	Cloudy	10:17	67.0	53.0	
29-Oct-18	Sunny	9:48	73.0	59.5	70
29-Oct-18	Sunny	9:53	71.5	61.5	
29-Oct-18	Sunny	9:58	68.5	57.0	
29-Oct-18	Sunny	10:03	74.0	60.0	
29-Oct-18	Sunny	10:08	73.5	59.5	
29-Oct-18	Sunny	10:13	74.0	57.0	

Remarks:

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



Water Quality Monitoring Results

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

Water Quality Monitoring

Water Quality Monitoring Results on 02 October 18 during Mid-Ebb Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (µg/L)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)		
									Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value
C1	Fine	Moderate	18:00	8.6	Surface	1.0	0.6	250	28.4	28.4	8.1	8.1	20.2	20.2	86.4	86.4	6.0	6.0	2.9	2.9	4	4	90	90	815594	804259	<0.2	<0.2	1.6	1.6	
						1.0	0.6	268	28.4	28.4	8.1	8.1	20.2	20.2	86.3	86.4	6.0	6.0	2.9	2.9	4	4	91	91			<0.2	<0.2	1.5	1.5	
					Middle	4.3	0.2	144	27.6	27.6	8.1	8.1	23.8	23.7	82.5	82.5	5.7	5.7	6.0	6.0	6	6	94	94			<0.2	<0.2	1.5	1.5	
						4.3	0.2	151	27.6	27.6	8.1	8.1	23.6	23.7	82.5	82.5	5.7	5.7	6.1	6.0	6	6	94	94			<0.2	<0.2	1.6	1.6	
					Bottom	7.6	0.1	281	27.7	27.7	8.2	8.2	25.9	25.9	82.8	82.8	5.6	5.6	10.1	10.1	6	6	97	97			<0.2	<0.2	1.5	1.5	
						7.6	0.1	293	27.7	27.7	8.2	8.2	25.9	25.9	82.8	82.8	5.6	5.6	9.9	9.9	7	7	97	97			<0.2	<0.2	1.5	1.5	
C2	Fine	Moderate	16:54	12.0	Surface	1.0	0.2	25	28.1	28.1	8.1	8.1	21.4	21.4	77.8	77.8	5.4	5.4	8.7	8.8	5	5	84	85	825668	806922	<0.2	<0.2	2.3	2.4	
						1.0	0.2	27	28.1	28.1	8.1	8.1	21.4	21.4	77.7	77.8	5.4	5.4	8.8	8.5	5	5	85	85			<0.2	<0.2	2.4	2.4	
					Middle	6.0	0.2	21	27.7	27.7	8.1	8.1	23.7	23.7	74.9	74.9	5.2	5.2	9.9	9.9	6	6	87	87			<0.2	<0.2	2.4	2.4	
						6.0	0.2	21	27.7	27.7	8.1	8.1	23.7	23.7	74.8	74.8	5.2	5.2	10.0	10.0	6	6	88	88			<0.2	<0.2	2.4	2.4	
					Bottom	11.0	0.2	316	27.6	27.6	8.2	8.2	25.6	25.6	75.2	75.3	5.1	5.1	14.4	14.4	7	7	89	89			<0.2	<0.2	2.3	2.3	
						11.0	0.2	328	27.6	27.6	8.2	8.2	25.6	25.6	75.3	75.3	5.1	5.1	14.5	14.5	8	8	89	89			<0.2	<0.2	2.3	2.3	
C3	Cloudy	Moderate	18:36	12.6	Surface	1.0	0.1	154	27.8	27.8	8.2	8.2	26.7	26.7	81.1	81.1	5.5	5.5	6.9	6.9	6	6	88	88	822080	817807	<0.2	<0.2	2.5	2.5	
						1.0	0.1	165	27.8	27.8	8.2	8.2	26.6	26.6	81.1	81.1	5.5	5.5	6.9	6.9	5	5	88	88			<0.2	<0.2	2.4	2.4	
					Middle	6.3	0.1	167	27.6	27.6	8.2	8.2	27.2	27.2	76.7	76.8	5.2	5.2	8.4	8.4	6	6	91	91			<0.2	<0.2	2.4	2.4	
						6.3	0.1	180	27.6	27.6	8.2	8.2	27.2	27.2	76.8	76.8	5.2	5.2	8.4	8.4	6	6	91	91			<0.2	<0.2	2.5	2.5	
					Bottom	11.6	0.1	279	27.4	27.4	8.2	8.2	27.9	27.9	76.9	77.0	5.2	5.2	12.9	12.9	6	6	93	93			<0.2	<0.2	2.5	2.5	
						11.6	0.1	294	27.4	27.4	8.2	8.2	27.9	27.9	77.0	77.0	5.2	5.2	12.9	12.9	6	6	93	93			<0.2	<0.2	2.6	2.6	
IM1	Fine	Moderate	17:43	5.3	Surface	1.0	0.2	177	28.4	28.4	8.1	8.1	20.2	20.2	86.5	86.5	6.0	6.0	2.8	2.8	4	4	89	89	817957	807133	<0.2	<0.2	1.6	1.6	
						1.0	0.2	177	28.4	28.4	8.1	8.1	20.2	20.2	86.4	86.5	6.0	6.0	2.8	2.8	3	3	89	89			<0.2	<0.2	1.5	1.5	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	<0.2	<0.2	-	-
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	<0.2	<0.2	-	-
					Bottom	4.3	0.2	180	27.6	27.6	8.1	8.1	22.7	22.7	83.4	83.4	5.8	5.8	4.1	4.1	6	6	92	92			<0.2	<0.2	1.4	1.4	
						4.3	0.2	183	27.6	27.6	8.1	8.1	22.7	22.7	83.4	83.4	5.8	5.8	4.1	4.1	4	4	92	92			<0.2	<0.2	1.4	1.4	
IM2	Fine	Moderate	17:35	7.5	Surface	1.0	0.2	222	28.4	28.4	8.1	8.1	20.2	20.2	86.7	86.7	6.0	6.0	2.8	2.7	5	4	86	86	818147	806149	<0.2	<0.2	1.5	1.4	
						1.0	0.2	243	28.4	28.4	8.1	8.1	20.2	20.2	86.6	86.7	6.0	6.0	2.7	2.7	4	4	86	86			<0.2	<0.2	1.4	1.4	
					Middle	3.8	0.3	216	27.7	27.7	8.1	8.1	22.2	22.2	83.8	83.8	5.8	5.8	4.1	4.1	6	6	91	91			<0.2	<0.2	1.4	1.5	
						3.8	0.3	236	27.7	27.7	8.1	8.1	22.2	22.2	83.8	83.8	5.8	5.8	4.1	4.1	6	6	91	91			<0.2	<0.2	1.5	1.5	
					Bottom	6.5	0.2	0	27.7	27.7	8.1	8.1	25.4	25.4	84.2	84.2	5.8	5.8	7.5	7.5	6	6	94	94			<0.2	<0.2	1.4	1.4	
						6.5	0.2	0	27.7	27.7	8.1	8.1	25.4	25.4	84.2	84.2	5.8	5.8	7.4	7.4	5	5	95	95			<0.2	<0.2	1.4	1.4	
IM3	Fine	Moderate	17:28	8.2	Surface	1.0	0.2	233	28.4	28.4	8.1	8.1	20.2	20.2	86.6	86.6	6.0	6.0	2.7	2.8	5	6	87	88	818782	805621	<0.2	<0.2	1.4	1.6	
						1.0	0.2	242	28.4	28.4	8.1	8.1	20.2	20.2	86.5	86.6	6.0	6.0	2.8	2.8	6	6	88	88			<0.2	<0.2	1.6	1.6	
					Middle	4.1	0.2	140	27.7	27.7	8.1	8.1	22.1	22.1	84.5	84.5	5.9	5.9	3.8	3.9	5	6	90	91			<0.2	<0.2	1.5	1.4	
						4.1	0.2	143	27.7	27.7	8.1	8.1	22.1	22.1	84.5	84.5	5.9	5.9	3.9	3.9	6	6	91	91			<0.2	<0.2	1.4	1.4	
					Bottom	7.2	0.1	149	27.8	27.8	8.1	8.1	25.6	25.6	84.6	84.6	5.8	5.8	8.9	8.9	6	6	95	95			<0.2	<0.2	1.4	1.5	
						7.2	0.1	152	27.8	27.8	8.1	8.1	25.6	25.6	84.6	84.6	5.8	5.8	8.8	8.8	6	6	95	95			<0.2	<0.2	1.5	1.5	
IM4	Fine	Moderate	17:19	7.8	Surface	1.0	0.1	316	27.9	27.9	8.2	8.2	24.0	24.0	87.1	87.1	6.0	6.0	6.2	6.3	6	6	90	91	819707	804632	<0.2	<0.2	1.5	1.4	
						1.0	0.1	332	27.9	27.9	8.2	8.2	24.0	24.0	87.0	87.1	6.0	6.0	6.3	6.3	6	6	91	91			<0.2	<0.2	1.4	1.4	
					Middle	3.9	0.1	99	27.5	27.5	8.2	8.2	26.8	26.8	80.7	80.8	5.5	5.5	20.4	20.5	6	6	94	95			<0.2	<0.2	1.4	1.5	
						3.9	0.1	106	27.5	27.5	8.2	8.2	26.8	26.8	80.8	80.8	5.5	5.5	20.5	20.6	6	6	95	95			<0.2	<0.2	1.5	1.5	
					Bottom	6.8	0.1	116	27.5	27.5	8.2	8.2	26.9	26.9	81.5	81.5	5.5	5.5	24.1	24.7	7	7	97	97			<0.2	<0.2	1.5	1.5	
						6.8	0.1	126	27.5	27.5	8.2	8.2	26.9	26.9	81.5	81.5	5.5	5.5	23.8	23.8	7	7	98	98			<0.2	<0.2	1.3	1.3	
IM5	Fine	Moderate	17:10	7.3	Surface	1.0	0.2	15	27.9	27.9	8.2	8.2	24.7	24.7	86.5	86.5	5.9	5.9	7.1	7.2	6	6	87	88	820734	804892	<0.2	<0.2	1.4	1.4	
						1.0	0.2	16	27.9	27.9	8.2	8.2	24.7	24.7	86.4	86.4	5.9	5.9	7.2	7.2	6	6	88	88			<0.2	<0.2	1.4	1.4	
					Middle	3.7	0.2	291	27.5	27.5	8.2	8.2	26.6	26.5	81.6	81.6	5.6	5.6	18.9	18.7	7	8	91	91			<0.2	<0.2	1.3	1.4	
						3.7	0.2	303	27.5	27.5	8.2	8.2	26.5	26.5	81.6	81.6	5.6	5.6	18.7	18.7	8	8	91	91			<0.2	<0.2	1.4	1.4	
					Bottom	6.3	0.1	88	27.5	27.5	8.2	8.2	26.9	26.9	81.3	81.4	5.5	5.5	34.6	34.6	8	8	97	97			<0.2	<0.2	1.4	1.4	
						6.3	0.1	94	27.5	27.5	8.2	8.2	26.9	26.9	81.5	81.5	5.5	5.5	34.5	34.5	8	8	98	98			<0.2	<0.2	1.5	1.5	
IM6	Fine	Moderate	17:02	7.5	Surface	1.0	0.1	287	27.9	27.9	8.2	8.2	25.7	25.7	87.4	87.4	6.0	5.9	6.0	6.1	8	8	87	87	821040	805808	<0.2	<0.2	1.4	1.4	
						1.0	0.1	315	27.9	27.9	8.2	8.2	25.7	25.7	87.4	87.4	5.9	5.7	6.1	6.1	8	8	87	87			<0.2	<0.2	1.4	1.4	
					Middle	3.8	0.0	261	27.7	27.7	8.2	8.2	26.3	26.3	83.7	83.7	5.7	5.7	10.2	10.3	8	9	92	92			<0.2	<0.2	1.4	1.4	
						3.8	0.0	274	27.7	27.7	8.2	8.2	26.3	26.3	83.7	83.7	5.7	5.7	10.3	10.6	9	9	92	94			<0.2	<0.2	1.4	1.4	
					Bottom	6.5	0.1	133	27.6	27.6	8.2	8.2	26.4	26.4	84.2	84.2	5.7	5.7	10.6	10.6	12	12	94	94			<0.2	<0.2	1.4	1.4	
						6.5	0.1	139	27.6	27.6	8.2	8.2	26.4	26.4	84.2	84.2	5.7	5.7	10.5	10.5	11	11	95	95			<0.2	<0.2	1.5	1.5	
IM7	Fine	Moderate	16:55	8.5	Surface	1.0	0.0	267	28.4	28.4	8.1	8.1	20.2	20.2	86.3	86.3	6.0	6.0	2.9	2.9	10	10	86	87	821343	806836	<0.2	<0.2	1.4	1.4	
						1.0	0.0	271	28.4	28.4	8.1	8.1	20.2	20.2	86.3	86.3	6.0	6.0	2.9	2.9	9	9	87	87			<0.2	<0.2	1.4	1.4	
					Middle	4.3	0.3	77	27.7	27.7	8.1	8.1	22.1	22.1	84.4	84.4	5.9	5.9	3.8	3.8	10	9	91	92			<0.2	<0.2	1.5	1.4	
						4.3	0.3	82	27.7	27.7																					

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

Water Quality Monitoring

Water Quality Monitoring Results on 02 October 18 during Mid-Ebb Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)									
									Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA						
IM9	Fine	Moderate	17:27	7.4	Surface	1.0	0.3	82	27.9	27.9	8.2	8.2	21.9	21.9	83.9	83.9	5.8	5.8	10.6	15.2	9	9	84	87	822089	808839	<0.2	<0.2	2.2	2.2								
						1.0	0.3	88	27.9		8.2	8.2	21.9	21.9	83.9	83.9	5.8		10.7		9		84				<0.2		2.2									
					Middle	3.7	0.2	83	27.7	27.7	8.2	8.2	23.7	23.7	82.8	82.9	5.7	5.7	16.5		8		8				87		<0.2		2.1							
						3.7	0.2	90	27.7		8.2	8.2	23.7	23.7	82.9	82.9	5.7		16.7		9						87		<0.2		2.0							
					Bottom	6.4	0.2	88	27.7	27.7	8.2	8.2	24.4	24.4	85.3	85.4	5.9	5.9	18.3		10		10				89		<0.2		2.2							
						6.4	0.3	96	27.7		8.2	8.2	24.4	24.4	85.4	85.4	5.9		18.3		10						89		<0.2		2.2							
IM10	Fine	Moderate	17:34	6.9	Surface	1.0	0.2	55	28.0	28.0	8.2	8.2	21.4	21.4	86.2	86.2	6.0	5.9	9.3	13.1	4	5	85	87	822399	809781	<0.2	<0.2	2.2	2.1								
						1.0	0.2	57	28.0		8.2	8.2	21.4	21.4	86.1	86.1	6.0		9.4		5		84				<0.2		2.1									
					Middle	3.5	0.2	353	27.9	27.9	8.3	8.3	23.9	23.9	83.7	83.7	5.7	5.7	13.6		5		5				87		<0.2		2.0							
						3.5	0.2	356	27.9		8.3	8.3	23.9	23.9	83.6	83.6	5.7		13.7		5						87		<0.2		2.1							
					Bottom	5.9	0.2	301	27.7	27.7	8.2	8.2	25.0	25.0	82.2	82.2	5.6	5.6	16.2		6		6				89		<0.2		2.1							
						5.9	0.2	314	27.7		8.2	8.2	25.0	25.0	82.2	82.2	5.6		16.2		6						90		<0.2		2.3							
IM11	Fine	Moderate	17:45	7.6	Surface	1.0	0.2	340	27.7	27.7	8.2	8.2	25.2	25.2	79.5	79.5	5.4	5.4	10.5	11.5	6	7	86	90	822051	811487	<0.2	<0.2	2.1	2.1								
						1.0	0.2	349	27.7		8.2	8.2	25.2	25.2	79.4	79.4	5.4		10.5		6		86				<0.2		2.1									
					Middle	3.8	0.2	310	27.6	27.6	8.2	8.2	25.5	25.5	78.4	78.4	5.4	5.4	11.5		7		7				90		<0.2		2.1							
						3.8	0.2	314	27.6		8.2	8.2	25.5	25.5	78.4	78.4	5.4		11.5		7						90		<0.2		2.1							
					Bottom	6.6	0.1	291	27.6	27.6	8.2	8.2	26.3	26.3	77.3	77.3	5.3	5.3	12.4		8		8				92		<0.2		2.1							
						6.6	0.1	319	27.6		8.2	8.2	26.3	26.3	77.2	77.3	5.3		12.4		7						93		<0.2		2.0							
IM12	Cloudy	Moderate	17:54	10.2	Surface	1.0	0.1	109	27.7	27.7	8.2	8.2	25.1	25.1	81.2	81.2	5.6	5.5	10.0	15.0	6	7	86	89	821474	812039	<0.2	<0.2	2.0	2.0								
						1.0	0.1	117	27.7		8.2	8.2	25.1	25.1	81.2	81.2	5.6		10.1		7		86				<0.2		2.0									
					Middle	5.1	0.1	226	27.5	27.5	8.2	8.2	25.6	25.6	76.8	76.8	5.3	5.3	15.4		7		7				90		<0.2		2.0							
						5.1	0.1	241	27.5		8.2	8.2	25.6	25.6	76.8	76.8	5.3		15.4		7						89		<0.2		2.0							
					Bottom	9.2	0.1	227	27.5	27.5	8.2	8.2	25.7	25.7	77.8	77.9	5.3	5.3	19.6		7		8				92		<0.2		2.0							
						9.2	0.1	227	27.5		8.2	8.2	25.7	25.7	77.9	77.9	5.3		19.5		8						92		<0.2		2.0							
SR2	Cloudy	Moderate	18:20	4.8	Surface	1.0	0.3	353	27.9	27.9	8.3	8.3	25.1	25.1	85.5	85.5	5.8	5.8	7.5	7.9	7	8	87	89	821470	814184	<0.2	<0.2	2.1	2.1								
						1.0	0.4	325	27.9		8.3	8.3	25.1	25.1	85.5	85.5	5.8		7.5		7		88				<0.2		2.0									
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-		-				-		-		-	-	-	-	-	-	-	-
						-	-	-	-		-	-	-	-	-	-	-		-		-						-				-		-		-		-	
					Bottom	3.8	0.3	349	27.9	27.9	8.3	8.3	25.3	25.3	85.6	85.7	5.8	5.8	8.3		8		8				90		<0.2		2.0							
						3.8	0.3	359	27.9		8.3	8.3	25.3	25.3	85.7	85.7	5.8		8.2		8						91		<0.2		2.1							
SR3	Fine	Moderate	17:15	9.2	Surface	1.0	0.1	108	28.2	28.2	8.2	8.2	20.2	20.2	83.3	83.3	5.8	5.7	10.5	15.6	6	7	-	-	822152	807597	-	-	-	-								
						1.0	0.1	116	28.2		8.2	8.2	20.2	20.2	83.3	83.3	5.8		10.6		7		-				-		-									
					Middle	4.6	0.2	52	27.7	27.7	8.2	8.2	25.0	25.0	82.5	82.5	5.7	5.7	15.5		6		7				-		-			-						
						4.6	0.2	53	27.7		8.2	8.2	25.1	25.1	82.4	82.4	5.6		15.6		7						-		-		-	-						
					Bottom	8.2	0.2	57	27.6	27.6	8.2	8.2	25.7	25.7	82.2	82.3	5.6	5.6	20.6		8		9				-		-			-						
						8.2	0.2	61	27.6		8.2	8.2	25.7	25.7	82.3	82.3	5.6		20.6		9						-		-		-	-						
SR4A	Fine	Calm	18:22	8.4	Surface	1.0	0.3	65	28.4	28.4	8.1	8.1	20.1	20.1	86.2	86.2	6.0	5.9	3.0	5.6	8	9	-	-	817195	807837	-	-	-	-								
						1.0	0.3	70	28.4		8.1	8.1	20.1	20.1	86.1	86.1	6.0		3.0		7		-				-		-									
					Middle	4.2	0.4	71	27.6	27.6	8.1	8.1	22.5	22.5	82.6	82.6	5.7	5.7	5.2		8		9				-		-			-						
						4.2	0.4	73	27.6		8.1	8.1	22.5	22.5	82.6	82.6	5.7		5.3		9						-		-		-	-						
					Bottom	7.4	0.3	69	27.7	27.7	8.1	8.1	25.7	25.7	82.7	82.7	5.6	5.6	8.6		11		11				-		-			-						
						7.4	0.3	70	27.7		8.1	8.1	25.7	25.7	82.7	82.7	5.6		8.5		11						-		-		-	-						
SR5A	Fine	Calm	18:35	3.8	Surface	1.0	0.1	290	28.4	28.4	8.1	8.1	20.2	20.2	86.5	86.5	6.0	6.0	2.7	2.8	6	7	-	-	816596	810679	-	-	-	-								
						1.0	0.1	310	28.4		8.1	8.1	20.2	20.2	86.5	86.5	6.0		2.7		7		-				-		-									
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-		-				-		-		-	-	-	-	-	-	-	-
						-	-	-	-		-	-	-	-	-	-	-		-		-						-				-		-	-	-	-	-	-
					Bottom	2.8	0.1	322	27.7	27.7	8.1	8.1	22.2	22.2	84.3	84.3	5.9	5.9	2.9		8		8				-		-			-						
						2.8	0.1	344	27.7		8.1	8.1	22.2	22.2	84.3	84.3	5.9		2.9		8						-		-		-	-						
SR6	Fine	Calm	18:58	4.3	Surface	1.0	0.0	43	28.4	28.4	8.1	8.1	20.2	20.2	86.7	86.7	6.0	6.0	2.6	2.6	6	7	-	-	817923	814673	-	-	-	-								
						1.0	0.0	43	28.4		8.1	8.1	20.2	20.2	86.7	86.7	6.0		2.6		7		-				-		-									
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-		-				-		-		-	-	-	-	-	-	-	-
						-	-	-	-		-	-	-	-	-	-	-		-		-						-				-		-	-	-	-	-	-
					Bottom	3.3	0.0	18	27.8	27.8	8.1	8.1	22.1	22.1	85.4	85.4	5.9	5.9	2.6		7		7				-		-			-						
						3.3	0.0	18	27.8		8.1	8.1	22.0	22.0	85.4	85.4	5.9		2.6		7						-		-		-	-						
SR7	Cloudy	Moderate	18:58	16.4	Surface	1.0	0.2	82	27.7	27.7	8.2	8.2	26.6	26.6	78.1	78.1	5.3	5.2	7.8	8.6	5	5	-	-	823609	823749	-	-	-	-								
						1.0	0.2	83	27.7		8.2	8.2	26.6	26.6	78.0	78.0	5.3		7.8		5		-				-		-									
					Middle	8.2	0.1	325	27.5	27.5	8.2	8.2	27.7	27.7	75.0	75.0	5.1	5.1	8.5		5		5				-		-			-						
						8.2	0.1	350	27.5		8.2	8.2	27.7	27.7	75.0	75.0	5.1		8.4		5						-		-		-	-						
					Bottom	15.4	0.1	178	27.5	27.5	8.2	8.2	28.1	28.1	77.3	77.3	5.2	5.2	9.6		6		6				-		-			-						
						15.4	0.1	180	27.5		8.2	8.2	28.1	28.1	77.3	77.3	5.2		9.7		6						-		-		-	-						
SR8	Cloudy	Moderate	18:05	5.3	Surface	1.0	-	-	27.8	27.8	8.3	8.3	24.6	24.6	82.5	82.5	5.7	5.7	10.7	12.0	4	6	-	-	820519	811660	-	-	-	-								
						1.0	-	-	27.8		8.3	8.3	24.6	24.6	82.4	82.4	5.7		10.7		5		-				-		-									
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-		-				-		-		-	-	-	-	-	-	-	-
						-	-	-	-		-	-	-	-	-	-	-		-		-						-				-		-	-	-	-	-	-
					Bottom	4.3	-	-	27.5	27.5	8.2	8.2	25.5	25.5	80.3	80.4	5.5	5.5	13.2		6		6				-		-			-						
						4.3	-	-	27.5		8.2	8.2	25.5	25.5	80.4	80.4	5.5		13.2		7						-		-		-	-						

Water Quality Monitoring Results on 02 October 18 during Mid-Flood Tide

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

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

Water Quality Monitoring

Water Quality Monitoring Results on 02 October 18 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)					
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA	Value	DA
IM9	Fine	Moderate	14:09	7.3	Surface	1.0	0.2	63	27.9	27.9	8.1	8.1	21.1	21.0	86.0	86.1	6.0	6.0	8.3	6.0	6	84	86	86	822084	808801	<0.2		1.3	1.4				
						1.0	0.2	63	27.9	27.9	8.1	8.1	21.0	21.0	86.1	86.1	6.0	6.0	8.2	6.0	7	84	86	<0.2		1.4								
					Middle	3.7	0.1	34	27.9	27.9	8.2	8.2	22.2	22.2	86.4	86.4	6.0	6.0	9.6	6.0	8	86	86	86	86	86	<0.2		1.4					
						3.7	0.2	36	27.9	27.9	8.2	8.2	22.2	22.2	86.3	86.4	6.0	6.0	9.7	6.0	9	86	86	86	86	86	<0.2		1.3					
					Bottom	6.3	0.1	291	27.8	27.8	8.2	8.2	23.8	23.8	86.0	86.0	5.9	5.9	10.8	5.9	10	88	89	89	89	89	89	<0.2			1.4			
						6.3	0.1	304	27.8	27.8	8.2	8.2	23.8	23.8	86.0	86.0	5.9	5.9	10.8	5.9	10	89	89	89	89	89	89	<0.2			1.3			
IM10	Fine	Moderate	14:01	7.9	Surface	1.0	0.3	345	28.0	28.0	8.3	8.3	23.3	23.3	86.3	86.3	5.9	5.9	11.1	5.9	7	85	88	88	822407	809782	<0.2		1.4	1.4				
						1.0	0.3	317	28.0	27.7	8.3	8.2	23.3	24.3	84.0	84.0	5.8	5.8	11.1	5.8	8	85	88	88	88	88	<0.2		1.4					
					Middle	4.0	0.4	305	27.7	27.7	8.2	8.2	24.3	24.3	84.0	84.0	5.8	5.8	13.1	5.8	7	88	88	88	88	88	<0.2		1.4					
						4.0	0.4	320	27.7	27.5	8.2	8.2	24.3	24.7	84.0	82.8	5.8	5.7	13.3	5.7	8	88	91	91	91	91	<0.2		1.4					
					Bottom	6.9	0.3	297	27.5	27.5	8.2	8.2	24.7	24.7	82.8	82.8	5.7	5.7	19.6	5.7	8	91	91	91	91	91	91	<0.2			1.4			
						6.9	0.3	310	27.5	27.5	8.2	8.2	24.7	24.7	82.8	82.8	5.7	5.7	19.7	5.7	8	91	91	91	91	91	91	<0.2			1.3			
IM11	Fine	Moderate	13:49	7.2	Surface	1.0	0.4	299	27.8	27.8	8.2	8.2	25.1	25.1	81.9	82.0	5.6	5.6	11.5	5.6	10	86	89	89	822062	811479	<0.2		1.3	1.4				
						1.0	0.4	302	27.8	27.7	8.2	8.2	25.1	25.1	82.0	81.6	5.6	5.6	11.5	5.6	10	87	89	89	89	89	<0.2		1.4					
					Middle	3.6	0.3	307	27.7	27.7	8.2	8.2	25.1	25.1	81.6	81.5	5.6	5.6	12.5	5.6	11	89	89	89	89	89	<0.2		1.4					
						3.6	0.4	310	27.7	27.6	8.2	8.2	25.1	25.3	81.5	81.9	5.6	5.6	12.5	5.6	10	89	92	92	92	92	<0.2		1.4					
					Bottom	6.2	0.3	316	27.6	27.6	8.2	8.2	25.3	25.3	81.9	82.0	5.6	5.6	15.4	5.6	10	92	92	92	92	92	92	<0.2			1.6			
						6.2	0.3	330	27.6	27.6	8.2	8.2	25.3	25.3	82.0	82.0	5.6	5.6	15.4	5.6	10	92	92	92	92	92	92	<0.2			1.5			
IM12	Fine	Moderate	13:42	9.9	Surface	1.0	0.3	267	27.7	27.7	8.2	8.2	25.1	25.1	81.2	81.2	5.6	5.6	13.8	5.6	10	87	89	89	821443	812068	<0.2		1.5	1.4				
						1.0	0.3	275	27.7	27.7	8.2	8.2	25.1	25.1	81.2	81.2	5.6	5.6	13.9	5.6	9	87	89	89	89	89	<0.2		1.5					
					Middle	5.0	0.3	271	27.5	27.5	8.2	8.2	25.3	25.3	79.8	79.9	5.5	5.5	16.7	5.5	10	89	90	90	90	90	<0.2		1.4					
						5.0	0.3	287	27.5	27.5	8.2	8.2	25.3	25.3	79.9	79.9	5.5	5.5	17.1	5.5	11	90	92	92	92	92	<0.2		1.4					
					Bottom	8.9	0.3	264	27.5	27.5	8.2	8.2	25.3	25.3	80.8	80.8	5.5	5.5	21.4	5.5	11	92	92	92	92	92	92	<0.2			1.4			
						8.9	0.3	274	27.5	27.5	8.2	8.2	25.3	25.3	80.8	80.8	5.5	5.5	20.9	5.5	11	92	92	92	92	92	92	<0.2			1.4			
SR2	Fine	Moderate	13:12	4.5	Surface	1.0	0.3	314	27.7	27.7	8.2	8.2	24.9	24.9	84.3	84.3	5.8	5.8	12.0	5.8	10	85	85	88	821456	814145	<0.2		1.5	1.5				
						1.0	0.4	319	27.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.2			1.5		
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-		
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-		
					Bottom	3.5	0.3	315	27.7	27.7	8.2	8.2	24.8	24.8	85.6	85.6	5.9	5.9	13.3	5.9	13	91	91	91	91	91	91	91	91		<0.2		1.4	
						3.5	0.3	324	27.7	27.7	8.2	8.2	24.8	24.8	85.6	85.6	5.9	5.9	13.4	5.9	13	91	91	91	91	91	91	91	<0.2			1.5		
SR3	Fine	Moderate	14:22	9.3	Surface	1.0	0.1	50	28.2	28.2	8.1	8.1	20.0	20.1	83.0	83.0	5.8	5.8	8.8	5.8	7	-	-	-	822162	807563	-	-	-	-				
						1.0	0.1	53	28.2	27.6	8.1	8.2	20.1	23.4	82.9	81.3	5.8	5.6	8.8	5.6	7	-	-	-	-	-	-	-	-					
					Middle	4.7	0.1	69	27.6	27.6	8.2	8.2	23.4	23.4	81.3	81.3	5.6	5.6	13.4	5.6	8	-	-	-	-	-	-	-	-		-			
						4.7	0.1	73	27.6	27.5	8.2	8.3	23.4	25.0	81.3	83.3	5.6	5.7	13.5	5.7	9	-	-	-	-	-	-	-	-		-			
					Bottom	8.3	0.2	51	27.5	27.5	8.3	8.3	25.0	25.0	83.3	83.3	5.7	5.7	18.7	5.7	10	-	-	-	-	-	-	-	-		-	-		
						8.3	0.2	53	27.5	27.5	8.3	8.3	25.0	25.0	83.3	83.3	5.7	5.7	18.7	5.7	9	-	-	-	-	-	-	-	-		-	-		
SR4A	Fine	Calm	12:17	9.2	Surface	1.0	0.2	61	27.9	27.9	8.2	8.2	24.6	24.6	90.1	90.1	6.2	6.2	7.8	6.2	8	-	-	-	817189	807812	-	-	-	-				
						1.0	0.2	64	27.9	27.7	8.2	8.1	24.6	25.7	90.0	84.8	6.2	5.8	7.7	5.8	9	-	-	-	-	-	-	-	-					
					Middle	4.6	0.1	356	27.7	27.7	8.1	8.1	25.7	25.7	84.8	84.8	5.8	5.8	7.3	5.8	8	-	-	-	-	-	-	-	-		-			
						4.6	0.1	356	27.7	27.6	8.1	8.1	25.7	25.9	84.8	85.6	5.8	5.9	7.3	5.8	8	-	-	-	-	-	-	-	-		-			
					Bottom	8.2	0.0	39	27.6	27.6	8.1	8.1	25.9	25.9	85.6	85.7	5.8	5.9	7.8	5.8	10	-	-	-	-	-	-	-	-		-	-		
						8.2	0.0	40	27.6	27.7	8.1	8.1	25.9	25.4	85.7	84.5	5.9	5.8	7.8	5.9	9	-	-	-	-	-	-	-	-		-	-		
SR5A	Fine	Calm	12:01	4.3	Surface	1.0	0.1	250	27.7	27.7	8.1	8.1	25.4	25.4	84.5	84.5	5.8	5.8	5.5	5.8	7	-	-	-	816578	810688	-	-	-	-				
						1.0	0.1	262	27.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-			
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-			
					Bottom	3.3	0.0	299	27.9	27.9	8.1	8.1	25.3	25.3	85.5	85.5	5.8	5.8	5.2	5.8	7	-	-	-	-	-	-	-	-		-	-		
						3.3	0.0	309	27.9	27.7	8.1	8.1	25.3	25.0	85.5	84.7	5.8	5.8	5.2	5.8	8	-	-	-	-	-	-	-	-		-	-		
SR6	Fine	Calm	11:38	4.6	Surface	1.0	0.1	220	27.7	27.7	8.1	8.1	25.0	25.0	84.7	84.7	5.8	5.8	4.5	5.8	5	-	-	-	817877	814645	-	-	-	-				
						1.0	0.1	236	27.7	-	-	-	-	-	-	-	-	5.8	4.6	6	-	-	-	-	-	-	-	-	-					
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-			
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-			
					Bottom	3.6	0.1	232	27.7	27.7	8.1	8.1	25.1	25.1	84.0	84.0	5.8	5.8	6.0	5.8	6	-	-	-	-	-	-	-	-		-	-		
						3.6	0.1	245	27.7	27.7	8.1	8.1	25.1	25.1	84.0	84.0	5.8	5.8	6.0	5.8	6	-	-	-	-	-	-	-	-		-	-		
SR7	Fine	Rough	12:22	16.2	Surface	1.0	0.1	51	27.7	27.7	8.2	8.2	25.8	25.8	77.3	77.3	5.3	5.3	8.3	5.3	4	-	-	-	823654	823728	-	-	-	-				
						1.0	0.1	52	27.7	27.4	8.2	8.2	25.8	27.5	77.2	73.7	5.3	5.0	8.3	5.0	5	-	-	-	-	-	-	-	-					
					Middle	8.1	0.2	106	27.4	27.4	8.2	8.2	27.5	27.5	73.8	73.8	5.0	5.0	12.6	5.0	6	-	-	-	-	-	-	-	-		-			
						8.1	0.3	107	27.4	27.4	8.2	8.2	27.5	28.0	73.8	74.5	5.0	5.0	12.7	5.0	7	-	-	-	-	-	-	-	-		-			
					Bottom	15.2	0.3	208	27.4	27.4	8.2	8.2	28.0	28.0	74.5	74.7	5.0	5.1	14.3	5.1	7	-	-	-	-	-	-	-	-		-	-		
						15.2	0.4	227	27.4	27.4	8.2	8.2	28.0	28.0	74.7	74.7	5.1	5.1	14.2	5.1	7	-	-	-	-	-	-	-	-		-	-		
SR8	Fine																																	

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

Water Quality Monitoring

Water Quality Monitoring Results on 04 October 18 during Mid-Ebb Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)			
									Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA
C1	Sunny	Moderate	08:16	8.9	Surface	1.0	0.7	206	27.3	27.3	8.2	8.2	23.2	23.2	87.7	87.7	6.1	5.9	4.2	12.2	6	9	84	87	815600	804258	<0.2		1.8	1.7		
						1.0	0.8	207	27.3	27.3	8.2	8.2	23.2	23.2	87.7	87.7	6.1	5.9	4.2	12.2	7	8	85	87			<0.2		1.7			
					Middle	4.5	0.5	229	27.5	27.5	8.2	8.2	27.5	27.5	83.1	83.1	5.6	5.8	14.0	9	9	86	87	<0.2				1.9				
						4.5	0.5	251	27.5	27.5	8.2	8.2	27.5	27.5	83.1	83.1	5.6	5.8	14.0	9	9	86	87	<0.2			<0.2	2.0				
					Bottom	7.9	0.3	208	27.5	27.5	8.2	8.2	27.7	27.7	85.6	85.6	5.8	5.8	18.4	10	10	91	89	<0.2				1.5				
						7.9	0.3	221	27.5	27.5	8.2	8.2	27.7	27.7	85.6	85.6	5.8	5.8	18.4	10	10	89	89	<0.2				1.5				
C2	Sunny	Moderate	10:00	11.3	Surface	1.0	1.1	171	27.5	27.5	8.0	8.0	21.1	21.1	82.0	81.8	5.8	5.6	2.5	3.8	3	4	82	85	825664	806951	<0.2		1.0	1.0		
						1.0	1.1	174	27.5	27.5	8.0	8.0	21.1	21.1	81.5	81.8	5.7	5.6	2.6	4	4	82	85	<0.2				1.0				
					Middle	5.7	0.8	176	27.5	27.5	8.0	8.0	23.3	23.3	79.9	79.9	5.5	5.5	3.2	4	4	86	88	<0.2				1.0				
						5.7	0.8	186	27.5	27.5	8.0	8.0	23.3	23.3	79.9	79.9	5.5	5.5	3.2	4	4	86	88	<0.2				1.0				
					Bottom	10.3	0.4	179	27.6	27.6	8.0	8.0	27.8	27.8	75.4	75.5	5.1	5.1	6.0	5	5	88	89	<0.2				1.0				
						10.3	0.4	190	27.6	27.6	8.0	8.0	27.8	27.8	75.5	75.5	5.1	5.1	5.6	6	6	89	89	<0.2				0.9				
C3	Sunny	Moderate	07:45	12.2	Surface	1.0	0.3	109	27.3	27.3	7.9	7.9	27.1	27.1	80.2	80.2	5.5	5.4	1.9	1.8	5	6	87	90	822136	817807	<0.2		0.8	0.7		
						1.0	0.3	109	27.3	27.3	7.9	7.9	27.1	27.1	80.1	80.2	5.5	5.4	1.9	5	5	87	91	<0.2				0.7				
					Middle	6.1	0.2	110	27.4	27.4	7.9	7.9	27.6	27.6	78.8	78.8	5.3	5.3	1.5	6	6	90	93	<0.2				0.7				
						6.1	0.2	110	27.4	27.4	7.9	7.9	27.6	27.6	78.8	78.8	5.3	5.3	1.5	6	6	90	93	<0.2				0.7				
					Bottom	11.2	0.3	48	27.5	27.5	7.9	7.9	28.0	28.0	78.3	78.6	5.3	5.3	2.0	8	7	94	93	<0.2				0.7				
						11.2	0.3	50	27.5	27.5	7.9	7.9	28.0	28.0	78.8	78.6	5.3	5.3	2.0	7	7	94	93	<0.2				0.7				
IM1	Sunny	Moderate	08:40	4.5	Surface	1.0	0.1	86	27.3	27.3	8.2	8.2	25.8	25.8	86.7	86.7	6.0	6.0	6.4	7.6	4	5	86	87	817958	807123	<0.2		1.6	1.6		
						1.0	0.1	90	27.3	27.3	8.2	8.2	25.8	25.8	86.7	86.7	6.0	6.0	6.4	4	4	85	87	<0.2				2.0				
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-			-	-	<0.2			-
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	<0.2			-
					Bottom	3.5	0.0	108	27.4	27.4	8.2	8.2	26.6	26.6	88.7	88.7	6.1	6.1	8.7	6	6	89	89	<0.2				1.5				
						3.5	0.0	113	27.4	27.4	8.2	8.2	26.6	26.6	88.7	88.7	6.1	6.1	8.7	6	6	88	89	<0.2				1.3				
IM2	Sunny	Moderate	08:48	6.9	Surface	1.0	0.6	207	27.3	27.3	8.2	8.2	25.1	25.1	89.1	89.1	6.1	6.1	7.4	17.5	5	5	85	87	818152	806158	<0.2		1.5	1.2		
						1.0	0.6	226	27.3	27.3	8.2	8.2	25.1	25.1	89.1	89.1	6.1	6.1	7.4	5	5	85	87	<0.2				1.4				
					Middle	3.5	0.5	198	27.3	27.3	8.2	8.2	25.5	25.5	87.2	87.2	6.0	6.0	17.3	5	5	86	88	<0.2				1.4				
						3.5	0.5	215	27.3	27.3	8.2	8.2	25.5	25.5	87.2	87.2	6.0	6.0	17.3	5	5	88	89	<0.2				1.0				
					Bottom	5.9	0.4	189	27.3	27.3	8.2	8.2	25.8	25.8	87.6	87.6	6.0	6.0	27.9	5	5	91	89	<0.2				1.0				
						5.9	0.4	198	27.3	27.3	8.2	8.2	25.8	25.8	87.6	87.6	6.0	6.0	27.9	6	6	89	89	<0.2				1.1				
IM3	Sunny	Moderate	09:03	6.5	Surface	1.0	0.8	211	27.4	27.4	8.2	8.2	24.1	24.1	87.7	87.7	6.1	6.1	10.3	13.7	8	9	87	88	818808	805569	<0.2		1.3	1.3		
						1.0	0.8	228	27.4	27.4	8.2	8.2	24.1	24.1	87.7	87.7	6.1	6.1	10.3	8	8	86	88	<0.2				1.4				
					Middle	3.3	0.7	208	27.4	27.4	8.2	8.2	24.6	24.6	87.1	87.1	6.0	6.0	14.8	8	9	88	88	<0.2				1.4				
						3.3	0.7	217	27.4	27.4	8.2	8.2	24.6	24.6	87.1	87.1	6.0	6.0	14.8	9	9	88	88	<0.2				1.1				
					Bottom	5.5	0.5	205	27.4	27.4	8.2	8.2	24.8	24.8	87.3	87.3	6.0	6.0	16.0	10	10	89	90	<0.2				1.2				
						5.5	0.5	216	27.4	27.4	8.2	8.2	24.8	24.8	87.3	87.3	6.0	6.0	16.0	11	11	90	89	<0.2				1.3				
IM4	Sunny	Moderate	09:15	6.8	Surface	1.0	0.7	221	27.5	27.5	8.2	8.2	24.3	24.3	86.7	86.7	6.0	6.0	9.8	11.9	9	10	85	87	819711	804588	<0.2		1.9	1.6		
						1.0	0.7	228	27.5	27.5	8.2	8.2	24.3	24.3	86.7	86.7	6.0	6.0	9.8	9	9	86	88	<0.2				2.0				
					Middle	3.4	0.6	230	27.5	27.5	8.2	8.2	24.6	24.6	86.9	86.9	6.0	6.0	12.6	10	10	87	88	<0.2				2.0				
						3.4	0.6	239	27.5	27.5	8.2	8.2	24.6	24.6	86.9	86.9	6.0	6.0	12.6	10	10	88	89	<0.2				1.2				
					Bottom	5.8	0.4	229	27.5	27.5	8.2	8.2	24.7	24.7	87.7	87.7	6.0	6.0	13.4	11	11	91	89	<0.2				1.3				
						5.8	0.5	231	27.5	27.5	8.2	8.2	24.7	24.7	87.7	87.7	6.0	6.0	13.4	11	11	89	89	<0.2				1.4				
IM5	Sunny	Moderate	09:24	6.6	Surface	1.0	0.7	246	27.5	27.5	8.1	8.1	24.1	24.1	85.7	85.7	5.9	5.9	13.4	12.6	16	17	84	86	820711	804865	<0.2		2.2	1.9		
						1.0	0.7	262	27.5	27.5	8.1	8.1	24.1	24.1	85.7	85.7	5.9	5.9	13.4	17	17	86	87	<0.2				2.2				
					Middle	3.3	0.5	242	27.5	27.5	8.1	8.1	24.3	24.3	85.6	85.6	5.9	5.9	13.1	18	18	87	87	<0.2				2.4				
						3.3	0.6	247	27.5	27.5	8.1	8.1	24.3	24.3	85.6	85.6	5.9	5.9	13.1	18	18	87	87	<0.2				1.4				
					Bottom	5.6	0.4	236	27.4	27.4	8.2	8.2	25.0	25.0	86.8	86.8	6.0	6.0	11.2	18	18	90	91	<0.2				1.6				
						5.6	0.5	241	27.4	27.4	8.2	8.2	25.0	25.0	86.8	86.8	6.0	6.0	11.2	18	18	91	91	<0.2				1.5				
IM6	Sunny	Moderate	09:35	7.3	Surface	1.0	0.8	235	27.5	27.5	8.1	8.1	22.3	22.3	86.6	86.6	6.0	6.1	4.7	7.3	5	9	87	88	821088	805828	<0.2		1.9	1.8		
						1.0	0.8	248	27.5	27.5	8.1	8.1	22.3	22.3	86.6	86.6	6.0	6.1	4.7	5	5	85	86	<0.2				1.8				
					Middle	3.7	0.7	247	27.5	27.5	8.1	8.1	22.6	22.6	87.5	87.5	6.1	6.1	8.0	10	10	88	88	<0.2				1.7				
						3.7	0.8	262	27.5	27.5	8.1	8.1	22.6	22.6	87.5	87.5	6.1	6.1	8.0	10	10	88	88	<0.2				1.7				
					Bottom	6.3	0.6	260	27.5	27.5	8.1	8.1	22.8	22.8	89.9	89.9	6.3	6.3	9.1	11	11	89	90	<0.2				1.7				
						6.3	0.6	271	27.5	27.5	8.1	8.1	22.8	22.8	89.9	89.9	6.3	6.3	9.1	12	12	90	91	<0.2				1.7				
IM7	Sunny	Moderate	09:36	7.0	Surface	1.0	0.8	239	27.5	27.5	8.1	8.1	22.2	22.2	85.9	85.9	6.0	6.0	5.1	6.2	8	9	87	88	821322	806825	<0.2		2.2	1.9		
						1.0	0.8	239	27.5	27.5	8.1	8.1	22.2	22.2	85.9	85.9	6.0	6.0	5.1	7	7	85	86	<0.2				2.0				
					Middle	3.5	0.8	246	27.5	27.5	8.1	8.1	22.7	22.7	85.6	85.6	6.0	6.0	8.5	8	8	90	88	<0.2				2.2				
						3.5	0.8	255	27.5	27.5	8.1	8.1	22.7	22.7	85.6	85.6	6.0	6.0	8.5	9	9	88	89	<0.2				1.6				
					Bottom	6.0	0.6	258	27.5	27.5	8.1	8.1	22.6	22.6	86.1	86.1	6.0	6.0	5.1	9	9	89	91	<0.2				1.7				
						6.0	0.6	259	27.5	27.5	8.1	8.1	22.6	22.6	86.1	86.1	6.0	6.0	5.1	10	10	91	91	<0.2				1.6				
IM8	Sunny	Moderate	09:28	7.4	Surface	1.0	0.6	182	27.5	27.5	8.0	8.0	24.5	24.5	83.2	83.2	5.7	5.7	1.8	3.6	4	5	85	88	821829	808149	<0.2		1.0	0.9		
						1.0	0.7	192	27.5	27.5	8.0	8.0	24.5	24.5	83.2	83.1	5.7	5.7	1.8	6	5	85	88	<0.2				0.9				
					Middle	3.7	0.4	189	27.5	27																						

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

Water Quality Monitoring

Water Quality Monitoring Results on 04 October 18 during Mid-Ebb Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)								
									Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA	Value	DA			
IM9	Sunny	Moderate	09:20	6.9	Surface	1.0	0.4	157	27.6	27.6	8.0	8.0	25.1	25.2	82.8	82.8	5.7	1.8	5.7	1.8	2.6	4	5	85	88	822078	808815	<0.2	1.0	1.0							
						1.0	0.5	168	27.6		8.0	8.0	25.2	25.2	82.8	82.8	5.7	1.9		4		85		<0.2					0.9								
					Middle	3.5	0.3	149	27.6	27.6	8.0	8.0	25.5	25.5	82.8	82.8	5.7	1.9	5.7	1.9	6	88	91	89	92			91	<0.2	1.0	1.0						
						3.5	0.3	163	27.6		8.0	8.0	25.5	25.5	82.8	82.8	5.7	1.9		6		89		<0.2					1.0								
					Bottom	5.9	0.1	92	27.4	27.4	8.1	8.1	26.7	26.7	83.9	84.0	5.7	3.9	5.7	3.9	6	92	91	90	92			91	<0.2	1.0	1.0						
						5.9	0.1	97	27.4		8.1	8.1	26.7	26.7	84.0	84.0	5.7	4.3		6		91		<0.2					1.0								
					IM10	Sunny	Moderate	09:10	7.7	Surface	1.0	0.6	136	27.7	27.7	8.0	8.0	25.3	25.3	82.8	82.8	5.7	1.3	5.6	1.4			5.3	4	4	86	89	822411	809766	<0.2	1.0	1.0
											1.0	0.6	141	27.7		8.0	8.0	25.3	25.3	82.7	82.8	5.7	1.4		4				86		<0.2					1.0	
Middle	3.9	0.6	132	27.6						27.6	8.0	8.0	26.5	26.5	80.9	80.9	5.5	4.1	5.5	4.2	5.4	4	5	89	90	92	91	<0.2	1.0	1.0							
	3.9	0.6	143	27.6							8.0	8.0	26.5	26.5	80.8	80.9	5.5	4.2		4		89		<0.2				1.0									
Bottom	6.7	0.4	121	27.5						27.5	8.0	8.0	27.1	27.1	79.4	79.5	5.4	10.1	5.4	10.1	5	90	92	91	<0.2	1.0	0.9										
	6.7	0.5	126	27.5							8.0	8.0	27.1	27.1	79.5	79.5	5.4	10.4		5		92			<0.2	0.9											
IM11	Sunny	Moderate	08:53	7.8						Surface	1.0	0.7	109	27.5	27.5	8.0	8.0	25.8	25.8	84.8	84.8	5.8	1.0	5.8	1.0	6.7	4	4	86	89	822084	811477			<0.2	1.0	1.0
											1.0	0.7	117	27.5		8.0	8.0	25.8	25.8	84.7	84.8	5.8	1.0		4		86		<0.2							0.9	
					Middle	3.9	0.5	107	27.4	27.4	8.1	8.1	26.6	26.6	83.6	83.6	5.7	7.5	5.7	7.5	5.7	3	3	89	92	91	<0.2	1.0	0.8								
						3.9	0.5	107	27.4		8.1	8.1	26.6	26.6	83.6	83.6	5.7	7.6		4		89		<0.2			0.8										
					Bottom	6.8	0.4	105	27.4	27.4	8.1	8.1	26.8	26.8	83.3	83.4	5.7	11.7	5.7	11.4	5	90	91	89	<0.2	1.0	1.1										
						6.8	0.4	113	27.4		8.1	8.1	26.8	26.8	83.4	83.4	5.7	11.4		3		91			<0.2	1.1											
					IM12	Sunny	Moderate	08:42	9.9	Surface	1.0	0.5	110	27.4	27.4	8.0	8.0	26.1	26.1	85.2	85.2	5.8	3.0	5.8	2.9	7.2	5	6	87	89			821439	812073	<0.2	0.9	0.8
											1.0	0.6	111	27.4		8.0	8.0	26.1	26.1	85.2	85.2	5.8	2.9		4		86		<0.2							1.1	
Middle	5.0	0.5	103	27.3						27.3	8.1	8.1	26.8	26.8	84.5	84.5	5.8	5.3	5.8	5.4	6	90	89	90	89	<0.2	0.8	0.8									
	5.0	0.5	103	27.3							8.1	8.1	26.8	26.8	84.5	84.5	5.8	5.3		6		90				<0.2	0.8										
Bottom	8.9	0.3	83	27.5						27.5	8.1	8.1	27.4	27.4	84.3	84.4	5.7	13.6	5.7	13.6	7	90	89	<0.2	1.0	0.8											
	8.9	0.4	91	27.5							8.1	8.1	27.4	27.4	84.5	84.4	5.7	12.8		7		89		<0.2	1.0												
SR2	Sunny	Moderate	08:11	4.4						Surface	1.0	0.6	95	27.2	27.2	8.0	8.0	25.5	25.5	87.1	87.1	6.0	1.1	6.0	1.1	4.5	4	5	86	89	821483	814146			<0.2	0.8	0.8
											1.0	0.6	96	27.2		8.0	8.0	25.5	25.5	87.1	87.1	6.0	1.1		4		85		<0.2							0.8	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	<0.2	-			-				
						-	-	-	-		-	-	-	-	-	-	-	-		-		-		-			-		-	-				-	-		
					Bottom	3.4	0.3	99	27.5	27.5	8.0	8.0	27.3	27.3	81.7	81.8	5.5	8.0	5.6	7.9	6	92	92	91	<0.2		0.9	0.8									
						3.4	0.4	108	27.5		8.0	8.0	27.3	27.3	81.9	81.8	5.6	7.9		7		92			<0.2		0.8										
SR3	Sunny	Moderate	09:36	7.8	Surface	1.0	0.8	181	27.4	27.4	8.0	8.0	23.7	23.7	83.5	83.4	5.8	2.5	5.7	2.5	4.0	5	5	-	-	822126	807578	-	-	-							
						1.0	0.8	186	27.4		8.0	8.0	23.6	23.7	83.2	83.4	5.8	2.5		4		-		-					-								
					Middle	3.9	0.4	198	27.5	27.5	8.0	8.0	25.9	25.8	81.4	81.4	5.6	3.6	5.6	3.6		5.5	5	5	-			-	-	-	-	-					
						3.9	0.4	210	27.5		8.0	8.0	25.8	25.8	81.4	81.4	5.6	3.6		4			-		-								-				
					Bottom	6.8	0.3	227	27.4	27.4	8.1	8.1	27.2	27.2	81.1	81.2	5.5	5.9	5.5	6.0		5	-	-	-			-	-	-	-	-					
						6.8	0.3	235	27.4		8.1	8.1	27.3	27.2	81.2	81.2	5.5	6.0		5			-										-	-			
SR4A	Sunny	Moderate	07:56	8.7	Surface	1.0	0.1	246	27.5	27.5	8.2	8.2	26.1	26.1	82.7	82.7	5.7	3.7	5.7	3.7	5.6	6	6	-	-	817202	807823	-	-	-							
						1.0	0.1	248	27.5		8.2	8.2	26.1	26.1	82.7	82.7	5.7	3.7		6		-		-					-								
					Middle	4.4	0.2	227	27.4	27.4	8.2	8.2	27.0	27.0	82.8	82.8	5.6	6.0	5.6	6.0		5.7	6	5	-			-	-	-	-	-					
						4.4	0.2	244	27.4		8.2	8.2	27.0	27.0	82.8	82.8	5.6	6.0		5			-		-								-				
					Bottom	7.7	0.1	236	27.5	27.5	8.2	8.2	27.5	27.5	83.8	83.8	5.7	7.1	5.7	7.1		6	-	-	-			-	-	-	-	-					
						7.7	0.1	256	27.5		8.2	8.2	27.5	27.5	83.8	83.8	5.7	7.1		6			-										-	-			
SR5A	Sunny	Moderate	07:39	3.7	Surface	1.0	0.1	330	27.6	27.6	8.2	8.2	25.9	25.9	86.2	86.2	5.9	2.0	5.9	2.0	4.3	3	4	-	-	816615	810682	-	-	-							
						1.0	0.1	338	27.6		8.2	8.2	25.9	25.9	86.2	86.2	5.9	2.0		4		-		-					-								
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-			-	-	-	-	-					
						-	-	-	-		-	-	-	-	-	-	-	-		-			-		-				-				-	-			
					Bottom	2.7	0.0	269	27.7	27.7	8.1	8.1	26.2	26.2	88.5	88.5	6.0	6.6	6.0	6.6		6	4	4	-			-	-	-	-	-	-				
						2.7	0.0	284	27.7		8.1	8.1	26.2	26.2	88.5	88.5	6.0	6.6		4			-		-									-			
SR6	Sunny	Moderate	07:06	4.3	Surface	1.0	0.0	12	27.6	27.6	8.1	8.1	24.5	24.5	83.5	83.5	5.7	4.1	5.7	4.1	4.7	6	7	-	-	817920	814667	-	-	-							
						1.0	0.0	12	27.6		8.1	8.1	24.5	24.5	83.5	83.5	5.7	4.1		7		-		-					-								
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-			-	-	-	-	-					
						-	-	-	-		-	-	-	-	-	-	-	-		-			-		-				-				-				
					Bottom	3.3	0.1	69	27.8	27.8	8.1	8.1	25.4	25.4	86.0	86.0	5.9	5.2	5.9	5.2		6	7	7	-			-	-	-	-	-	-				
						3.3	0.1	73	27.8		8.1	8.1	25.4	25.4	86.0	86.0	5.9	5.2		7			-		-									-			
SR7	Sunny	Moderate	07:06	16.2	Surface	1.0	0.7	79	27.1	27.1	7.9	7.9	27.2	27.2	82.9	82.9	5.7	1.4	5.6	1.4	1.5	4	4	-	-	823656	823737	-	-	-							
						1.0	0.7	84	27.1		7.9	7.9	27.2	27.2	82.8	82.9	5.7	1.4		3		-		-					-								
					Middle	8.1	0.3	80	27.3	27.3	7.9	7.9	28.4	28.4	79.4	79.4	5.4	1.4	5.4	1.4		5.3	3	6	-			-	-	-	-	-					
						8.1	0.4	85	27.3		7.9	7.9	28.4	28.4	79.4	79.4	5.4	1.4		4			-		-								-				
					Bottom	15.2	0.2	15	27.3	27.3	7.8	7.8	28.8	28.8	78.7	78.8	5.3	1.7	5.3	1.7		6	-	-	-			-	-	-	-	-					
						15.2	0.2	15	27.3		7.8	7.8	28.8	28.8	78.8	78.8	5.3	1.7		6			-										-	-			
SR8	Sunny	Moderate	08:32	5.1	Surface	1.0	-	-	27.2	27.2	8.1	8.1	25.7	25.7	88.8	88.8	6.1	1.6	6.1	1.6	4.1	5	4	-	-	820474	811654	-	-	-							
						1.0	-	-	27.2		8.1	8.1	25.7	25.7	88.8	88.8	6.1	1.6		4		-		-					-								
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-			-	-	-	-	-					
						-	-	-	-		-	-	-	-	-	-	-	-		-			-		-				-				-	-			
					Bottom	4.1	-	-	27.3	27.3	8.1	8.1	26.1	26.1	89.2	89.4	6.1	6.5	6.1	6.5		6	-	-	-			-	-	-	-	-	-				
						4.1	-	-	27.3		8.1	8.1	26.2	26.1	89.2	89.4	6.1	6.7		6			-											-	-		

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

Water Quality Monitoring

Water Quality Monitoring Results on 04 October 18 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)											
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA								
C1	Sunny	Moderate	15:35	8.1	Surface	1.0	0.1	171	27.8	27.8	8.2	8.2	24.7	24.7	91.9	91.9	6.3	6.3	3.3	6	6	87	89	815648	804267	<0.2	1.9	1.8												
						1.0	0.1	183	27.8	27.8	8.2	8.2	24.7	24.7	91.9	91.9	6.3	6.3	3.3	6	6	86	89																	
					Middle	4.1	0.1	127	27.4	27.4	8.2	8.2	26.1	26.1	87.6	87.6	6.0	6.2	7.5	7	7	88	89						815648	804267	<0.2	1.9	1.8							
						4.1	0.1	132	27.4	27.4	8.2	8.2	26.1	26.1	87.6	87.6	6.0	6.2	7.5	7	7	91	89																	
					Bottom	7.1	0.1	71	27.5	27.5	8.2	8.2	26.4	26.4	90.1	90.1	6.1	6.1	7.6	8	8	89	89											815648	804267	<0.2	1.9	1.8		
						7.1	0.1	77	27.5	27.5	8.2	8.2	26.4	26.4	90.1	90.1	6.1	6.1	7.6	9	9	90	89																	
						7.1	0.1	77	27.5	27.5	8.2	8.2	26.4	26.4	90.1	90.1	6.1	6.1	7.6	9	9	90	89																	
C2	Sunny	Moderate	14:35	10.8	Surface	1.0	0.8	170	27.7	27.7	7.9	7.9	19.5	19.5	79.5	79.5	5.6	5.6	4.4	6	6	81	87	825701	806935	<0.2	2.1	2.1												
						1.0	0.9	176	27.7	27.7	7.9	7.9	19.5	19.5	79.4	79.4	5.6	5.4	4.4	6	6	81	87																	
					Middle	5.4	0.2	188	27.6	27.6	8.0	8.0	25.4	25.4	74.3	74.3	5.1	5.1	5.2	7	7	88	89						825701	806935	<0.2	2.1	2.1							
						5.4	0.3	188	27.6	27.6	8.0	8.0	25.4	25.4	74.2	74.3	5.1	5.1	5.2	7	10	87	89																	
					Bottom	9.8	0.1	224	27.6	27.6	8.0	8.0	28.3	28.3	73.9	73.9	5.0	5.0	12.3	8	8	92	89											825701	806935	<0.2	2.1	2.1		
						9.8	0.1	244	27.6	27.6	8.0	8.0	28.3	28.3	73.9	73.9	5.0	5.0	12.4	8	91	91	89																	
						9.8	0.1	244	27.6	27.6	8.0	8.0	28.3	28.3	73.9	73.9	5.0	5.0	12.4	8	91	91																		
C3	Sunny	Moderate	16:20	11.6	Surface	1.0	0.5	260	27.6	27.6	8.1	8.1	26.8	26.8	84.9	84.8	5.8	5.8	1.8	3	3	87	89	822138	817799	<0.2	2.5	2.5												
						1.0	0.5	270	27.6	27.6	8.1	8.1	26.8	26.8	84.7	84.8	5.8	5.6	1.7	3	3	86	89																	
					Middle	5.8	0.5	266	27.5	27.5	8.1	8.1	27.2	27.3	79.6	79.5	5.4	5.4	2.6	4	4	88	89						822138	817799	<0.2	2.5	2.5							
						5.8	0.5	282	27.5	27.5	8.1	8.1	27.3	27.3	79.3	79.5	5.4	5.4	2.6	4	92	89																		
					Bottom	10.6	0.4	265	27.6	27.6	8.0	8.0	28.8	28.8	74.6	74.6	5.0	5.0	6.4	4	4	92	89											822138	817799	<0.2	2.5	2.5		
						10.6	0.4	265	27.6	27.6	8.0	8.0	28.8	28.8	74.6	74.6	5.0	5.0	6.4	4	92	89																		
						10.6	0.4	266	27.6	27.6	8.0	8.0	28.8	28.8	74.7	74.7	5.0	5.0	6.6	4	92	92																		
IM1	Sunny	Moderate	15:16	4.9	Surface	1.0	0.2	21	27.7	27.7	8.2	8.2	26.0	26.0	87.7	87.7	6.0	6.0	8.3	5	5	87	89	817931	807147	<0.2	1.8	1.8												
						1.0	0.2	23	27.7	27.7	8.2	8.2	26.0	26.0	87.7	87.7	6.0	6.0	8.3	4	4	88	89																	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						-	89	817931	807147	<0.2						1.8	1.8
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						-	89										
					Bottom	3.9	0.2	15	27.5	27.5	8.2	8.2	26.3	26.3	87.0	87.0	5.9	5.9	12.8	6	6	89	89						817931	807147				<0.2	1.8	1.8				
						3.9	0.2	16	27.5	27.5	8.2	8.2	26.3	26.3	87.0	87.0	5.9	5.9	12.8	7	7	92	89																	
						3.9	0.2	16	27.5	27.5	8.2	8.2	26.3	26.3	87.0	87.0	5.9	5.9	12.8	7	92	92																		
IM2	Sunny	Moderate	15:08	6.6	Surface	1.0	0.2	213	27.6	27.6	8.3	8.3	24.8	24.8	89.6	89.6	6.2	6.2	8.4	7	7	85	88	818188	806157	<0.2	2.0	1.9												
						1.0	0.2	220	27.6	27.6	8.3	8.3	24.8	24.8	89.6	89.6	6.2	6.1	8.4	7	8	86	88																	
					Middle	3.3	0.1	254	27.4	27.4	8.3	8.3	25.6	25.6	86.9	86.9	6.0	6.0	10.7	7	7	87	88								818188	806157	<0.2				2.0	1.8		
						3.3	0.1	271	27.4	27.4	8.3	8.3	25.6	25.6	86.9	86.9	6.0	6.0	10.7	8	8	88	89																	
					Bottom	5.6	0.1	358	27.4	27.4	8.2	8.2	25.8	25.8	87.2	87.2	6.0	6.0	11.3	8	8	89	89						818188	806157				<0.2	2.0	1.8				
						5.6	0.1	329	27.4	27.4	8.2	8.2	25.8	25.8	87.2	87.2	6.0	6.0	11.3	8	91	91																		
						5.6	0.1	329	27.4	27.4	8.2	8.2	25.8	25.8	87.2	87.2	6.0	6.0	11.3	8	91	91																		
IM3	Sunny	Moderate	15:01	7.3	Surface	1.0	0.4	222	27.7	27.7	8.1	8.1	23.2	23.2	89.0	89.0	6.2	6.2	6.7	9	9	85	89	818770	805573	<0.2	2.1	2.0												
						1.0	0.4	240	27.7	27.7	8.1	8.1	23.2	23.2	89.0	89.0	6.2	6.2	6.7	9	9	87	89																	
					Middle	3.7	0.3	227	27.5	27.5	8.2	8.2	24.5	24.5	88.7	88.7	6.1	6.1	12.0	8	8	89	89								818770	805573	<0.2				2.1	1.9		
						3.7	0.3	234	27.5	27.5	8.2	8.2	24.5	24.5	88.7	88.7	6.1	6.1	12.0	8	90	90																		
					Bottom	6.3	0.2	209	27.4	27.4	8.2	8.2	24.8	24.8	89.3	89.3	6.2	6.2	13.3	10	10	91	89						818770	805573				<0.2	2.1	1.8				
						6.3	0.2	215	27.4	27.4	8.2	8.2	24.8	24.8	89.3	89.3	6.2	6.2	13.3	8	92	92																		
						6.3	0.2	215	27.4	27.4	8.2	8.2	24.8	24.8	89.3	89.3	6.2	6.2	13.3	8	92	92																		
IM4	Sunny	Moderate	14:52	6.7	Surface	1.0	0.4	237	27.5	27.5	8.1	8.1	22.6	22.6	86.0	86.0	6.0	6.0	15.7	11	11	86	89	819751	804621	<0.2	2.0	2.0												
						1.0	0.4	248	27.5	27.5	8.1	8.1	22.6	22.6	86.0	86.0	6.0	6.0	15.7	11	85	89																		
					Middle	3.4	0.2	230	27.5	27.5	8.1	8.1	23.6	23.6	85.3	85.3	5.9	5.9	19.0	14	13	89	89								819751	804621	<0.2				2.2	2.0		
						3.4	0.2	236	27.5	27.5	8.1	8.1	23.6	23.6	85.3	85.3	5.9	5.9	19.0	13	89	89																		
					Bottom	5.7	0.1	260	27.5	27.5	8.1	8.1	24.4	24.4	86.1	86.1	5.9	5.9	18.5	15	15	92	89						819751	804621				<0.2	2.0	2.0				
						5.7	0.1	264	27.5	27.5	8.1	8.1	24.4	24.4	86.1	86.1	5.9	5.9	18.5	15	90	90																		
						5.7	0.1	264	27.5	27.5	8.1	8.1	24.4	24.4	86.1	86.1	5.9	5.9	18.5	15	90	90																		
IM5	Sunny	Moderate	14:44	6.8	Surface	1.0	0.6	250	27.6	27.6	8.1	8.1	23.4	23.4	84.8	84.8	5.9	5.9	11.4	8	8	86	89	820736	804867	<0.2	2.4	2.2												
						1.0	0.7	271	27.6	27.6	8.1	8.1	23.4	23.4	84.8	84.8	5.9	5.9	11.4	8	8	86	89																	
					Middle	3.4	0.5	236	27.5	27.5	8.1	8.1	24.4	24.4	84.7	84.7	5.8	5.8	15.2	9	8	89	89								820736	804867	<0.2				2.3	2.2		
						3.4	0.5	258	27.5	27.5	8.1	8.1	24.4	24.4	84.7	84.7	5.8	5.8	15.2	8	91	91																		
					Bottom	5.8	0.4	210	27.6	27.6	8.1	8.1	25.3	25.3	91.6	91.6	6.3	6.3	13.3	12	12	91	89						820736	804867				<0.2	2.0	2.2				
						5.8	0.4	211	27.6	27.6	8.1	8.1	25.3	25.3	91.6	91.6	6.3	6.3	13.3	12	90	90																		
						5.8	0.4	211	27.6	27.6	8.1	8.1	25.3	25.3	91.6	91.6	6.3	6.3	13.3	12	90	90																		
IM6	Sunny	Moderate	14:38	6.7	Surface	1.0	0.7	247	27.7	27.7	8.1	8.1	23.0	23.0	84.9	84.9	5.9	6.0	6.6	6	7	87	88	821070	805803	<0.2	2.4	2.2												
						1.0	0.7	264	27.7	27.7	8.1	8.1	23.0	23.0	84.9	84.9	5.9	6.0	6.6	7	8	86	88																	
					Middle	3.4	0.7	248	27.6	27.6	8.1	8.1	23.1	23.1	87.1	87.1	6.0	6.0	8.7	8	8	88	88								821070	805803	<0.2				2.5	1.9		
						3.4	0.7	253	27.6	27.6	8.1	8.1	23.1	23.1	87.1	87.1	6.0	6.0	8.7	8	91	88																		
					Bottom	5.7	0.5	248	27.7	27.7	8.1	8.1	23.1	23.1	91.3	91.3	6.3	6.3	8.2	8	8	91	88						821070	805803				<0.2	2.0	1.9				
						5.7	0.5	248	27.7	27.7	8.1	8.1	23.1	23.1	91.3	91.3	6.3	6.3	8.2	8	90	90																		
						5.7	0.6	259	27.7	27.7	8.1	8.1	23.1	23.1	91.3	91.3	6.3	6.3	8.2	9	90	90																		
IM7	Sunny	Moderate	14:31	6.4	Surface	1.0	0.7	238	27.8	27.8	8.1	8.1	21.2	21.2	85.0	85.0	5.9	6.0	3.6	3	3	85	88	821348	806820	<0.2	3.4	2.8												
						1.0	0.7	256	27.8	27.8	8.1	8.1	21.2	21.2	85.0	85.0	5.9	6.0	3.6	3																				

Water Quality Monitoring

Water Quality Monitoring Results on 04 October 18 during Mid-Flood Tide

DA: Depth-Averaged

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

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

Note: Access to SR8 was blocked by barge. The monitoring at SR8 was slightly shifted to the closest safe and accessible location temporarily.

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

Water Quality Monitoring

Water Quality Monitoring Results on 06 October 18 during Mid-Ebb Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)			Nickel (µg/L)				
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	Average	DA	Value	DA			
C1	Fine	Moderate	09:57	8.1	Surface	1.0	0.9	211	26.8	26.8	8.2	8.2	26.6	26.6	86.4	86.4	6.0		5.9		12		86		815612	804273	<0.2	<0.2		1.8				
						1.0	1.0	219	26.8	8.2	8.2	26.6	26.6	86.4	86.4	6.0	5.9	6.0		13		87		<0.2			<0.2		1.8					
					Middle	4.1	0.7	238	26.9	26.9	8.2	8.2	27.2	27.2	84.8	84.9	5.8		6.2		13	13	89	90			<0.2	<0.2	<0.2	1.9				
						4.1	0.7	239	26.9		8.2		27.2		84.9		5.8		6.2		13		89				<0.2	<0.2		2.0				
					Bottom	7.1	0.6	233	26.9	26.9	8.2	8.2	27.5	27.5	86.0	86.1	5.9	5.9	6.2		13		93				<0.2	<0.2		2.0				
						7.1	0.6	253	26.9	26.9	8.2	8.2	27.5		86.1		5.9		6.2		14		94				<0.2	<0.2		1.7				
C2	Fine	Moderate	12:26	11.4	Surface	1.0	0.9	153	27.1	27.1	8.1	8.1	24.9	24.9	91.2	91.2	6.3		6.7		3		83		825666	806948	<0.2	<0.2		1.9				
						1.0	1.0	158	27.1	8.1	8.1	24.9	24.9	91.2	91.2	6.3	6.2	6.8		3		83		<0.2			<0.2		1.9					
					Middle	5.7	0.8	145	27.2	27.2	8.2	8.2	25.8	25.8	87.1	87.1	6.0		8.7		3	4	86	86			<0.2	<0.2	<0.2	1.9				
						5.7	0.9	153	27.2		8.2		25.8		87.0		6.0		8.5		4		85				<0.2	<0.2		2.4				
					Bottom	10.4	0.8	152	27.2	27.2	8.2	8.2	27.0	27.0	89.9	90.0	6.1	6.2	11.1		4		89				<0.2	<0.2		2.1				
						10.4	0.8	166	27.2	27.2	8.2	8.2	27.0		90.1		6.2		11.6		5		89				<0.2	<0.2		2.0				
C3	Fine	Moderate	09:44	12.3	Surface	1.0	0.5	92	26.7	26.7	8.2	8.2	27.0	27.0	87.2	87.2	6.0		1.3		2		86		822104	817830	<0.2	<0.2		2.3				
						1.0	0.5	93	26.7	8.2	8.2	27.0	27.0	87.2	87.2	6.0	5.9	1.3		2		87		<0.2			<0.2		1.9					
					Middle	6.2	0.4	55	26.8	26.8	8.2	8.2	27.5	27.5	84.7	84.7	5.8		1.6		3	3	90	90			<0.2	<0.2	<0.2	1.9				
						6.2	0.4	56	26.8		8.2		27.5		84.7		5.8		1.7		4		91				<0.2	<0.2		1.8				
					Bottom	11.3	0.4	43	27.1	27.1	8.2	8.2	28.4	28.4	86.5	86.6	5.9	5.9	2.1		4		93				<0.2	<0.2		2.2				
						11.3	0.4	44	27.1		8.2		28.4		86.7		5.9		2.1		5		94				<0.2	<0.2		2.0				
IM1	Fine	Moderate	10:21	5.3	Surface	1.0	0.5	176	27.2	27.2	8.2	8.2	26.0	26.0	86.5	86.5	5.9		9.0		9		83		817923	807128	<0.2	<0.2		2.3				
						1.0	0.5	183	27.2	8.2	8.2	26.0	26.0	86.4	86.5	5.9	5.9	9.1		9		83		<0.2			<0.2		2.2					
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	<0.2	-		-	
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-	-	-	-	
					Bottom	4.3	0.1	188	27.1	27.1	8.2	8.2	26.4	26.4	88.5	88.6	6.1	6.1	11.2		9		85				<0.2	<0.2		2.0				
						4.3	0.1	204	27.1		8.2		26.4		88.7		6.1		11.2		9		86				<0.2	<0.2		2.1				
IM2	Fine	Moderate	10:29	6.7	Surface	1.0	0.8	213	27.3	27.3	8.2	8.2	26.2	26.2	87.5	87.4	6.0		14.3		7		82		818152	806164	<0.2	<0.2		2.0				
						1.0	0.9	217	27.2	8.2	8.2	26.3	26.2	87.2	87.0	6.0	6.0	14.4		7		83		<0.2			<0.2		2.0					
					Middle	3.4	0.7	207	27.2	27.2	8.2	8.2	26.4	26.5	86.9	87.0	6.0		16.4		8	8	86	87			<0.2	<0.2	<0.2	1.8				
						3.4	0.8	215	27.1		8.2		26.5		87.0		6.0		17.1		8		86				<0.2	<0.2		2.0				
					Bottom	5.7	0.4	182	27.1	27.1	8.2	8.2	26.6	26.5	88.5	88.6	6.1	6.1	18.6		8		92				<0.2	<0.2		1.9				
						5.7	0.4	190	27.1		8.2		26.5		88.6		6.1		18.1		9		92				<0.2	<0.2		1.8				
IM3	Fine	Moderate	10:37	7.1	Surface	1.0	0.9	210	27.0	27.0	8.2	8.2	25.7	25.7	89.7	89.7	6.2		9.0		6		85		818774	805606	<0.2	<0.2		2.0				
						1.0	0.9	217	27.0	8.2	8.2	25.7	25.7	89.7	89.7	6.2	6.2	9.2		5		86		<0.2			<0.2		1.9					
					Middle	3.6	0.8	219	26.9	26.9	8.2	8.2	25.8	25.8	89.7	89.7	6.2		11.0		6	6	89	89			<0.2	<0.2	<0.2	1.9				
						3.6	0.9	239	26.9		8.2		25.8		89.7		6.2		11.3		6		90				<0.2	<0.2		1.8				
					Bottom	6.1	0.6	209	26.9	26.9	8.2	8.2	25.8	25.8	91.1	91.1	6.3	6.3	16.9		7		93				<0.2	<0.2		2.0				
						6.1	0.7	209	26.9	26.9	8.2	8.2	25.8		91.1		6.3		16.9		7		93				<0.2	<0.2		1.9				
IM4	Fine	Moderate	10:49	7.0	Surface	1.0	1.1	223	27.1	27.1	8.2	8.2	25.8	25.8	89.5	89.5	6.2		8.7		4		86		819742	804602	<0.2	<0.2		2.0				
						1.0	1.2	235	27.1	8.2	8.2	25.8	25.8	89.5	89.5	6.2	6.2	8.8		4		86		<0.2			<0.2		2.0					
					Middle	3.5	0.9	214	27.0	27.0	8.2	8.2	25.9	25.9	90.0	90.0	6.2		14.2		5	6	89	90			<0.2	<0.2	<0.2	2.0				
						3.5	0.9	215	27.0		8.2		25.9		90.0		6.2		14.1		4		90				<0.2	<0.2		1.8				
					Bottom	6.0	0.6	220	27.0	27.0	8.2	8.2	25.9	25.9	91.4	91.5	6.3	6.3	13.0		8		94				<0.2	<0.2		2.2				
						6.0	0.7	229	27.0		8.2		25.9		91.5		6.3		13.0		9		94				<0.2	<0.2		2.0				
IM5	Fine	Moderate	11:05	6.3	Surface	1.0	1.0	200	27.0	27.0	8.2	8.2	25.5	25.5	90.9	90.9	6.3		9.0		5		86		820721	804882	<0.2	<0.2		2.0				
						1.0	1.0	212	27.0	8.2	8.2	25.5	25.5	90.9	90.9	6.3	6.3	9.0		5		87		<0.2			<0.2		1.8					
					Middle	3.2	0.9	216	26.8	26.8	8.2	8.2	25.9	25.9	89.9	89.9	6.2		10.6		7	6	89	90			<0.2	<0.2	<0.2	2.2				
						3.2	0.9	217	26.8		8.2		25.9		89.8		6.2		10.6		6		90				<0.2	<0.2		1.9				
					Bottom	5.3	0.7	233	26.8	26.8	8.2	8.2	25.9	25.9	92.0	92.1	6.4	6.4	12.3		6		93				<0.2	<0.2		1.8				
						5.3	0.8	246	26.8		8.2		25.9		92.2		6.4		12.7		7		93				<0.2	<0.2		1.9				
IM6	Fine	Moderate	11:17	6.1	Surface	1.0	1.2	235	27.0	27.0	8.2	8.2	25.5	25.5	90.9	90.9	6.3		8.6		6		86		821078	805851	<0.2	<0.2		1.8				
						1.0	1.2	249	27.0	8.2	8.2	25.5	25.5	90.9	90.9	6.3	6.3	8.6		6		87		<0.2			<0.2		1.8					
					Middle	3.1	1.1	231	26.8	26.8	8.2	8.2	25.8	25.8	90.0	90.0	6.2		9.8		6	7	89	90			<0.2	<0.2	<0.2	1.8				
						3.1	1.2	243	26.8		8.2		25.8		90.0		6.2		9.9		7		89				<0.2	<0.2		1.8				
					Bottom	5.1	0.8	239	26.7	26.7	8.2	8.2	25.9	25.9	90.5	90.5	6.3	6.3	11.4		8		94				<0.2	<0.2		1.9				
						5.1	0.9	253	26.7	26.7	8.2	8.2	25.9		90.6		6.3		11.3		7		95				<0.2	<0.2		1.8				
IM7	Fine	Moderate	11:38	7.3	Surface	1.0	1.0	250	27.1	27.1	8.2	8.2	25.6	25.6	90.6	90.6	6.2		8.5		5		85		821344	806814	<0.2	<0.2		1.9				
						1.0	1.1	266	27.1	8.2	8.2	25.6	25.6	90.5	90.8	6.2	6.3	8.5		4		85		<0.2			<0.2		1.9					
					Middle	3.7	0.9	243	26.9	26.9	8.2	8.2	25.8	25.8	90.8	90.8	6.3		9.1		5	5	90	90			<0.2	<0.2	<0.2	1.7				
						3.7	0.9	261	26.9		8.2		25.8		90.8		6.3		9.1		5		90				<0.2	<0.2		1.9				
					Bottom	6.3	0.9	249	26.7	26.7	8.2	8.2	26.0	26.0	92.1	92.1	6.4	6.4	10.0		6		94				<0.2	<0.2		1.9				
						6.3	0.9	255	26.7		8.2		26.0		92.1		6.4		10.0		6		95				<0.2	<0.2		2.2				
IM8	Fine	Moderate	11:55	7.5	Surface	1.0	0.4	156	27.0	26.9	8.2	8.2	26.1	26.1	91.5	91.5	6.3		5.4		5		86		821817	808133	<0.2	<0.2		2.1				
						1.0	0.5	163	26.9	8.2	8.2	26.1	26.1	91.5	91.5	6.3	6.4	5.4		6		86		<0.2			<0.2		1.9					
					Middle	3.8																												

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

Water Quality Monitoring

Water Quality Monitoring Results on 06 October 18 during Mid-Ebb Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)			Nickel (µg/L)					
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	Average	DA	Value	DA				
IM9	Fine	Moderate	11:49	7.2	Surface	1.0	0.5	132	27.1	27.0	8.2	8.2	25.8	25.8	91.2	91.2	6.3	6.3	5.3	6.9	6	6	86	89	822081	808793	<0.2	<0.2	-	1.9	1.9				
						1.0	0.5	137	27.0	26.7	8.2	8.2	25.8	26.0	91.1	91.0	6.3	6.3	5.4	7.0	5	6	87	89			<0.2	<0.2	<0.2	1.9	1.9				
					Middle	3.6	0.4	115	26.7	26.7	8.2	8.2	26.3	26.3	91.0	91.0	6.3	6.3	7.0	7.0	5	6	88	89			<0.2	<0.2	<0.2	1.9	1.9				
						3.6	0.4	115	26.7	26.7	8.2	8.2	26.3	26.4	91.0	92.1	6.3	6.4	8.1	8.3	6	6	92	92			<0.2	<0.2	<0.2	1.8	1.9				
					Bottom	6.2	0.3	95	26.7	26.7	8.2	8.2	26.4	26.4	92.0	92.1	6.4	6.4	8.1	8.3	6	6	92	92			<0.2	<0.2	<0.2	1.8	1.9				
						6.2	0.3	101	26.7	26.7	8.2	8.2	26.4	26.4	92.1	92.1	6.4	6.4	8.1	8.3	6	6	92	92			<0.2	<0.2	<0.2	1.8	1.9				
IM10	Fine	Moderate	11:26	7.3	Surface	1.0	0.7	110	26.9	26.9	8.2	8.2	26.0	26.0	90.3	90.2	6.2	6.2	5.3	7.2	5	7	87	90	822363	809809	<0.2	<0.2	-	1.9	2.0				
						1.0	0.8	110	26.9	26.8	8.2	8.2	26.0	26.4	90.1	89.1	6.2	6.1	5.5	7.6	6	6	87	89			<0.2	<0.2	<0.2	1.9	2.0				
					Middle	3.7	0.7	95	26.8	26.8	8.2	8.2	26.4	26.4	89.0	89.1	6.1	6.1	7.6	7.7	6	6	89	89			<0.2	<0.2	<0.2	1.9	2.0				
						3.7	0.7	101	26.8	26.8	8.2	8.2	26.4	26.5	89.1	90.5	6.1	6.2	7.7	8.4	6	8	89	93			<0.2	<0.2	<0.2	1.9	2.2				
					Bottom	6.3	0.4	97	26.8	26.8	8.2	8.2	26.5	26.5	90.4	90.5	6.2	6.2	8.4	8.5	8	8	93	93			<0.2	<0.2	<0.2	1.9	2.2				
						6.3	0.4	106	26.8	26.8	8.2	8.2	26.5	26.5	90.5	90.5	6.2	6.2	8.5	8.5	8	8	93	93			<0.2	<0.2	<0.2	1.9	2.1				
IM11	Fine	Moderate	11:26	7.0	Surface	1.0	0.7	104	27.1	27.1	8.2	8.2	26.2	26.2	89.4	89.4	6.1	6.2	12.8	16.5	7	7	86	90	822041	811448	<0.2	<0.2	-	1.9	1.9				
						1.0	0.7	110	27.1	27.0	8.2	8.2	26.2	26.4	89.4	89.4	6.2	6.2	13.1	19.0	7	6	87	90			<0.2	<0.2	<0.2	1.8	1.8				
					Middle	3.5	0.6	98	27.0	27.0	8.2	8.2	26.4	26.4	89.4	89.4	6.2	6.2	19.0	19.2	7	8	90	93			<0.2	<0.2	<0.2	1.8	1.9				
						3.5	0.7	104	27.0	27.0	8.2	8.2	26.4	26.4	89.4	90.6	6.2	6.2	19.2	17.7	6	8	90	93			<0.2	<0.2	<0.2	1.8	1.9				
					Bottom	6.0	0.5	101	27.0	27.0	8.2	8.2	26.4	26.4	90.6	90.7	6.2	6.2	17.7	17.4	8	8	93	92			<0.2	<0.2	<0.2	1.9	1.9				
						6.0	0.5	110	27.0	27.0	8.2	8.2	26.4	26.4	90.7	90.7	6.2	6.2	17.4	17.4	8	8	92	92			<0.2	<0.2	<0.2	1.9	1.9				
IM12	Fine	Moderate	11:19	7.5	Surface	1.0	0.6	105	27.0	27.0	8.2	8.2	26.1	26.1	90.3	90.3	6.2	6.2	12.6	18.0	12	12	86	90	821437	812057	<0.2	<0.2	-	1.8	1.8				
						1.0	0.7	113	27.0	26.9	8.2	8.2	26.1	26.2	90.3	90.4	6.2	6.2	12.6	17.5	12	13	86	90			<0.2	<0.2	<0.2	1.7	1.8				
					Middle	3.8	0.6	106	26.9	26.9	8.2	8.2	26.2	26.2	90.4	90.4	6.2	6.2	17.5	17.7	13	13	90	93			<0.2	<0.2	<0.2	1.8	1.8				
						3.8	0.6	113	26.9	26.9	8.2	8.2	26.2	26.2	90.4	91.4	6.2	6.3	17.7	23.9	13	13	90	93			<0.2	<0.2	<0.2	1.8	1.8				
					Bottom	6.5	0.4	109	26.9	26.9	8.2	8.2	26.2	26.2	91.4	91.5	6.3	6.3	23.9	23.9	13	13	93	93			<0.2	<0.2	<0.2	1.8	1.9				
						6.5	0.4	117	26.9	26.9	8.2	8.2	26.2	26.2	91.5	91.5	6.3	6.3	23.9	23.9	13	13	93	93			<0.2	<0.2	<0.2	1.9	1.9				
SR2	Fine	Moderate	10:47	4.6	Surface	1.0	0.5	66	27.1	27.1	8.2	8.2	26.4	26.4	89.0	89.1	6.1	6.1	5.6	6.3	4	4	86	89	821464	814159	<0.2	<0.2	-	1.7	1.9				
						1.0	0.5	67	27.1	-	-	-	-	89.1	89.1	6.1	6.1	5.7	5.7	4	4	86	89	<0.2			<0.2	<0.2	-	1.9					
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	<0.2	<0.2	-	-	-	
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	<0.2	<0.2	-	-	-	
					Bottom	3.6	0.2	48	27.1	27.1	8.2	8.2	26.8	26.8	92.1	92.2	6.3	6.3	7.0	6.9	4	4	90	92			<0.2	<0.2	<0.2	1.8	1.9				
						3.6	0.2	52	27.1	27.1	8.2	8.2	26.8	26.8	92.3	92.3	6.3	6.3	6.9	6.9	5	5	92	92			<0.2	<0.2	<0.2	1.8	1.9				
SR3	Fine	Moderate	12:02	8.6	Surface	1.0	0.6	200	27.1	27.1	8.2	8.2	26.2	26.2	90.6	90.6	6.2	6.2	7.8	11.6	4	4	-	-	822136	807549	-	-	-	-	-				
						1.0	0.6	207	27.1	26.9	8.2	8.2	26.2	26.3	90.6	90.7	6.2	6.2	7.9	12.7	4	6	-	-			-	-	-	-	-				
					Middle	4.3	0.5	207	26.9	26.9	8.2	8.2	26.3	26.3	90.6	90.7	6.2	6.3	12.7	12.9	6	5	-	-			-	-	-	-	-	-	-	-	
						4.3	0.5	223	26.9	26.9	8.2	8.2	26.3	26.3	90.7	91.5	6.3	6.3	12.9	14.1	5	-	-	-			-	-	-	-	-	-	-	-	
					Bottom	7.6	0.4	216	26.9	26.9	8.2	8.2	26.3	26.3	91.4	91.5	6.3	6.3	14.1	14.3	6	5	-	-			-	-	-	-	-	-	-	-	-
						7.6	0.4	237	26.9	26.9	8.2	8.2	26.3	26.3	91.5	91.5	6.3	6.3	14.3	14.3	5	5	-	-			-	-	-	-	-	-	-	-	-
SR4A	Fine	Calm	09:40	9.5	Surface	1.0	0.3	247	26.8	26.8	8.2	8.2	26.6	26.6	86.5	86.5	6.0	6.0	6.2	6.4	6	6	-	-	817209	807832	-	-	-	-	-				
						1.0	0.3	270	26.8	26.9	8.2	8.2	26.6	26.9	86.5	85.6	6.0	5.9	6.1	6.3	6	6	-	-			-	-	-	-	-	-	-		
					Middle	4.8	0.3	244	26.9	26.9	8.2	8.2	26.9	26.9	85.6	85.5	5.9	5.9	6.3	6.3	6	6	-	-			-	-	-	-	-	-	-	-	
						4.8	0.3	251	26.9	27.0	8.2	8.2	26.9	27.6	85.5	86.4	5.9	5.9	6.3	6.6	6	7	-	-			-	-	-	-	-	-	-	-	
					Bottom	8.5	0.3	256	27.0	27.0	8.2	8.2	27.6	27.6	86.3	86.4	5.9	5.9	6.6	6.6	7	6	-	-			-	-	-	-	-	-	-	-	-
						8.5	0.3	258	27.0	27.0	8.2	8.2	27.6	27.6	86.4	86.4	5.9	5.9	6.6	6.6	6	6	-	-			-	-	-	-	-	-	-	-	-
SR5A	Fine	Calm	09:25	4.6	Surface	1.0	0.1	333	27.0	27.0	8.1	8.1	28.1	28.1	81.7	81.5	5.6	5.6	7.0	7.1	4	4	-	-	816601	810669	-	-	-	-	-				
						1.0	0.1	335	27.0	-	-	-	-	81.2	81.2	5.5	5.5	7.0	7.1	4	4	-	-	-			-	-	-	-	-	-	-		
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-	-	-	-	-	
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-	-	-	-	-	
					Bottom	3.6	0.3	304	27.1	27.1	8.1	8.1	28.3	28.3	81.2	81.2	5.5	5.5	7.1	7.1	5	4	-	-			-	-	-	-	-	-	-	-	-
						3.6	0.3	332	27.1	27.2	8.1	8.1	28.3	28.8	81.2	81.1	5.5	5.5	7.1	7.1	4	4	-	-			-	-	-	-	-	-	-	-	-
SR6	Fine	Calm	08:59	4.3	Surface	1.0	0.1	66	27.1	27.1	8.1	8.1	28.2	28.2	80.6	80.5	5.5	5.5	7.4	7.7	5	5	-	-	817883	814668	-	-	-	-	-				
						1.0	0.1	66	27.1	-	-	-	-	80.4	80.4	5.5	5.5	7.4	7.4	5	5	-	-	-			-	-	-	-	-	-	-		
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-	-	-	-	-	
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-	-	-	-	-	
					Bottom	3.3	0.0	300	27.2	27.2	8.1	8.1	28.8	28.8	81.0	81.0	5.5	5.5	8.0	8.0	6	6	-	6			-	-	-	-	-	-	-	-	-
						3.3	0.0	305	27.2	27.2	8.1	8.1	28.8	28.8	81.1	81.1	5.5	5.5	8.0	8.0	6	6	-	6			-	-	-	-	-	-	-	-	-
SR7	Fine	Moderate	09:13	19.8	Surface	1.0	0.5	55	27.0	27.0	8.2	8.2	28.3	28.3	79.9	79.9	5.4	5.4	2.9	4.3	3	3	-	-	823657	823720	-	-	-	-	-				
						1.0	0.5	57	27.0	27.2	8.2	8.1	28.3	29.2	79.8	78.4	5.4	5.3	3.0	5.4	3	4	-	-			-	-	-	-	-	-	-		
					Middle	9.9	0.4	47	27.2	27.2	8.1	8.1	29.2	29.2	78.4	78.5	5.3	5.3	5.4	5.4	3	4	-	-			-	-	-	-	-	-	-	-	
						9.9	0.4	51	27.2	27.3	8.1	8.1	29.2	29.3	78.5	79.4	5.3	5.4	5.4																

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

Water Quality Monitoring

Water Quality Monitoring Results on 06 October 18 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)			Nickel (µg/L)				
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	Average	DA	Value	DA			
C1	Sunny	Moderate	17:24	8.2	Surface	1.0	0.1	166	27.4	27.4	8.2	8.2	26.0	26.0	88.0	88.0	6.0	6.0	10.4	10.7	6	7	87	90	815613	804233	<0.2	<0.2		1.9	2.0			
						1.0	0.1	169	27.4	8.2	8.2	26.0	26.0	88.0	88.0	6.0	6.0	10.5	10.7	6	7	87	90	<0.2			<0.2	<0.2	2.0					
					Middle	4.1	0.1	90	27.4	27.4	8.2	8.2	26.0	26.0	88.0	88.0	6.0	6.0	10.9	10.7	6	7	90	93			<0.2	<0.2	<0.2	2.0				
						4.1	0.1	96	27.4	27.4	8.2	8.2	26.0	26.0	88.0	88.0	6.0	6.0	10.9	10.7	7	8	90	93			<0.2	<0.2	<0.2	2.0				
					Bottom	7.2	0.1	70	27.4	27.4	8.2	8.2	25.9	25.9	88.5	88.6	6.1	6.1	10.6	10.7	8	9	93	94			<0.2	<0.2	<0.2	2.0				
						7.2	0.1	74	27.4	27.4	8.2	8.2	25.9	25.9	88.6	88.6	6.1	6.1	10.6	10.7	7	8	94	94			<0.2	<0.2	<0.2	1.9				
C2	Sunny	Moderate	15:58	10.9	Surface	1.0	0.9	165	27.6	27.6	8.1	8.1	23.8	23.8	88.2	88.2	6.1	6.0	8.4	11.2	4	5	86	90	825689	806923	<0.2	<0.2		2.4	2.0			
						1.0	0.9	180	27.6	8.1	8.1	23.8	23.8	88.1	88.1	6.1	6.0	8.5	11.2	5	5	86	90	<0.2			<0.2	<0.2	2.5					
					Middle	5.5	0.6	153	27.2	27.2	8.1	8.1	25.7	25.7	84.2	84.2	5.8	5.8	10.8	11.2	5	5	89	90			<0.2	<0.2	<0.2	1.7				
						5.5	0.7	153	27.2	27.2	8.1	8.1	25.7	25.7	84.1	84.2	5.8	5.8	10.3	11.2	5	5	90	93			<0.2	<0.2	<0.2	1.8				
					Bottom	9.9	0.4	148	27.3	27.3	8.1	8.1	26.7	26.7	85.0	85.1	5.8	5.8	14.3	11.2	5	5	93	93			<0.2	<0.2	<0.2	1.8				
						9.9	0.5	158	27.3	27.3	8.1	8.1	26.7	26.7	85.1	85.1	5.8	5.8	14.7	11.2	6	6	93	93			<0.2	<0.2	<0.2	2.0				
C3	Sunny	Moderate	17:50	11.6	Surface	1.0	0.5	253	27.4	27.4	8.2	8.2	26.8	26.8	86.8	86.7	5.9	5.8	4.5	6.4	3	4	85	90	822112	817782	<0.2	<0.2		1.9	1.9			
						1.0	0.5	277	27.4	27.4	8.2	8.2	26.8	26.8	86.6	86.7	5.9	5.8	4.6	6.4	3	4	87	90			<0.2	<0.2	<0.2	1.9				
					Middle	5.8	0.5	250	27.2	27.2	8.2	8.2	27.4	27.4	83.5	83.5	5.7	5.7	6.4	6.5	3	4	90	93			<0.2	<0.2	<0.2	2.0				
						5.8	0.6	263	27.2	27.2	8.2	8.2	27.4	27.4	83.5	83.5	5.7	5.7	6.5	6.5	4	5	90	93			<0.2	<0.2	<0.2	2.0				
					Bottom	10.6	0.5	249	27.3	27.3	8.2	8.2	27.8	27.8	86.3	86.5	5.9	5.9	8.1	8.0	5	4	93	93			<0.2	<0.2	<0.2	1.9				
						10.6	0.5	249	27.3	27.3	8.2	8.2	27.8	27.8	86.6	86.5	5.9	5.9	8.0	8.0	4	4	93	93			<0.2	<0.2	<0.2	1.9				
IM1	Sunny	Moderate	17:03	4.3	Surface	1.0	0.3	22	27.5	27.5	8.2	8.2	25.9	25.9	89.4	89.4	6.1	6.1	9.6	10.0	4	5	87	88	817948	807107	<0.2	<0.2		1.9	1.9			
						1.0	0.3	22	27.5	8.2	8.2	25.9	25.9	89.4	89.4	6.1	6.1	9.7	10.0	4	5	87	88	<0.2			<0.2	<0.2	1.8					
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	<0.2		-	-	-
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-		-	-	
					Bottom	3.3	0.3	29	27.3	27.3	8.2	8.2	25.9	25.9	91.8	91.9	6.3	6.3	10.3	10.3	6	4	89	90			<0.2	<0.2	<0.2	2.0				
						3.3	0.3	29	27.3	27.3	8.2	8.2	25.9	25.9	92.0	91.9	6.3	6.3	10.3	10.3	7	4	90	90			<0.2	<0.2	<0.2	1.9				
IM2	Sunny	Moderate	16:56	6.6	Surface	1.0	0.3	216	27.4	27.4	8.2	8.1	25.8	25.8	88.3	88.3	6.1	6.1	8.8	9.9	3	4	86	90	818150	806181	<0.2	<0.2		1.8	1.9			
						1.0	0.3	220	27.4	27.4	8.1	8.1	25.8	25.8	88.2	88.3	6.0	6.0	9.0	9.9	3	4	86	90			<0.2	<0.2	<0.2	2.0				
					Middle	3.3	0.1	12	27.4	27.4	8.1	8.1	25.9	25.9	88.4	88.4	6.1	6.1	9.9	9.9	4	4	89	90			<0.2	<0.2	<0.2	1.9				
						3.3	0.1	12	27.4	27.4	8.1	8.1	25.9	25.9	88.4	88.4	6.1	6.1	9.9	9.9	3	4	90	90			<0.2	<0.2	<0.2	2.0				
					Bottom	5.6	0.2	18	27.4	27.4	8.2	8.2	25.9	25.9	89.9	90.0	6.2	6.2	11.0	10.9	6	5	94	94			<0.2	<0.2	<0.2	2.0				
						5.6	0.2	19	27.4	27.4	8.2	8.2	25.9	25.9	90.0	90.0	6.2	6.2	10.9	10.9	5	5	94	94			<0.2	<0.2	<0.2	1.9				
IM3	Sunny	Moderate	16:48	7.1	Surface	1.0	0.6	231	27.6	27.6	8.1	8.1	24.7	24.7	89.4	89.4	6.1	6.2	8.4	8.8	3	4	87	86	818812	805598	<0.2	<0.2		1.8	2.1			
						1.0	0.7	245	27.6	27.6	8.1	8.1	24.7	24.7	89.4	89.4	6.2	6.2	8.3	8.7	4	4	86	89			<0.2	<0.2	<0.2	2.0				
					Middle	3.6	0.3	260	27.4	27.4	8.1	8.1	25.3	25.3	89.7	89.7	6.2	6.2	8.7	8.7	4	4	89	90			<0.2	<0.2	<0.2	2.0				
						3.6	0.3	261	27.4	27.4	8.1	8.1	25.3	25.3	89.7	89.7	6.2	6.2	8.7	8.7	4	4	90	90			<0.2	<0.2	<0.2	2.3				
					Bottom	6.1	0.2	328	27.3	27.3	8.2	8.2	25.8	25.8	91.7	91.8	6.3	6.3	9.4	9.4	4	5	94	94			<0.2	<0.2	<0.2	2.2				
						6.1	0.3	358	27.3	27.3	8.2	8.2	25.8	25.8	91.9	91.8	6.3	6.3	9.4	9.4	5	5	94	94			<0.2	<0.2	<0.2	2.2				
IM4	Sunny	Moderate	16:39	7.0	Surface	1.0	0.3	246	27.5	27.5	8.1	8.1	25.0	25.0	89.0	89.1	6.1	6.1	9.7	10.4	5	6	86	90	819734	804614	<0.2	<0.2		2.3	2.2			
						1.0	0.4	267	27.5	27.5	8.1	8.1	25.0	25.0	89.1	89.1	6.1	6.1	9.8	10.5	5	6	86	89			<0.2	<0.2	<0.2	1.9				
					Middle	3.5	0.3	210	27.4	27.4	8.1	8.1	25.3	25.3	89.1	89.1	6.1	6.1	10.5	10.5	6	5	89	90			<0.2	<0.2	<0.2	2.1				
						3.5	0.3	222	27.4	27.4	8.1	8.1	25.3	25.5	89.1	90.6	6.1	6.2	10.5	11.1	5	7	90	94			<0.2	<0.2	<0.2	2.2				
					Bottom	6.0	0.5	200	27.4	27.4	8.1	8.1	25.5	25.5	90.6	90.7	6.2	6.2	11.1	10.8	7	6	94	94			<0.2	<0.2	<0.2	2.3				
						6.0	0.5	207	27.4	27.4	8.1	8.1	25.5	25.5	90.8	90.8	6.2	6.2	10.8	10.8	6	6	94	94			<0.2	<0.2	<0.2	2.4				
IM5	Sunny	Moderate	16:27	6.3	Surface	1.0	0.9	232	27.4	27.4	8.1	8.1	25.0	25.0	89.6	89.6	6.2	6.2	10.8	11.4	6	7	86	90	820733	804843	<0.2	<0.2		2.4	2.3			
						1.0	1.0	232	27.4	27.4	8.1	8.1	25.0	25.0	89.6	89.6	6.2	6.2	10.8	11.2	7	7	87	89			<0.2	<0.2	<0.2	2.3				
					Middle	3.2	1.0	222	27.4	27.4	8.1	8.1	25.1	25.1	90.0	90.1	6.2	6.2	11.2	11.2	7	7	89	90			<0.2	<0.2	<0.2	2.2				
						3.2	1.0	242	27.4	27.4	8.1	8.1	25.1	25.1	90.1	90.1	6.2	6.2	11.2	11.2	8	7	90	92			<0.2	<0.2	<0.2	2.3				
					Bottom	5.3	0.9	219	27.4	27.4	8.1	8.1	25.3	25.3	91.3	91.3	6.3	6.3	12.0	12.1	7	8	92	93			<0.2	<0.2	<0.2	2.4				
						5.3	0.9	234	27.4	27.4	8.1	8.1	25.3	25.3	91.3	91.3	6.3	6.3	12.1	10.8	9	9	93	93			<0.2	<0.2	<0.2	2.2				
IM6	Sunny	Moderate	16:14	6.1	Surface	1.0	0.9	261	27.5	27.5	8.1	8.1	24.4	24.4	89.2	89.3	6.1	6.1	12.0	14.9	4	5	86	90	821049	805838	<0.2	<0.2		2.2	2.2			
						1.0	1.0	275	27.5	27.5	8.1	8.1	24.4	24.4	89.3	89.3	6.2	6.1	12.1	15.7	4	5	86	89			<0.2	<0.2	<0.2	2.9				
					Middle	3.1	0.9	269	27.3	27.3	8.1	8.1	25.4	25.4	88.9	89.0	6.1	6.1	15.7	15.8	5	6	89	90			<0.2	<0.2	<0.2	1.9				
						3.1	1.0	294	27.3	27.3	8.1	8.1	25.4	25.6	89.0	91.5	6.1	6.3	15.8	17.6	6	6	90	93			<0.2	<0.2	<0.2	2.0				
					Bottom	5.1	0.7	230	27.3	27.3	8.1	8.1	25.6	25.6	91.5	91.6	6.3	6.3	17.6	16.4	6	6	93	93			<0.2	<0.2	<0.2	2.0				
						5.1	0.8	240	27.3	27.3	8.1	8.1	25.6	25.6	91.7	91.6	6.3	6.3	17.6	16.4	6	6	93	93			<0.2	<0.2	<0.2	2.0				
IM7	Sunny	Moderate	15:58	7.5	Surface	1.0	1.0	249	27.6	27.6	8.1	8.1	23.3	23.3	88.4	88.4	6.1	6.0	10.5	15.4	5	6	86	90	821340	806846	<0.2	<0.2		1.9	2.0			
						1.0	1.0	250	27.6	27.6	8.1	8.1	23.3	23.3	88.4	88.4	6.1	6.0	10.5	15.4	5	6	87	90			<0.2	<0.2	<0.2	2.0				
					Middle	3.8	0.9	261	27.3	27.3	8.1	8.1	24.5	24.5	85.1																			

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

Water Quality Monitoring

Water Quality Monitoring Results on 06 October 18 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)			Nickel (µg/L)				
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	Average	DA	Value	DA			
IM9	Sunny	Moderate	16:28	6.2	Surface	1.0	0.3	166	27.5	27.5	8.1	8.1	25.4	25.4	89.2	89.2	6.1	6.1	5.3	6.0	7	8	87	90	822108	808799	<0.2	<0.2	<0.2	2.1	1.9			
						1.0	0.4	174	27.5	27.5	8.1	8.1	25.4	25.4	89.2	89.2	6.1	6.1	5.3	6.0	6	8	87	90			<0.2	<0.2	<0.2	2.1	1.8			
					Middle	3.1	0.2	195	27.4	27.4	8.1	8.1	25.7	25.7	89.3	89.3	6.1	6.1	6.2	6.0	7	8	89	93			<0.2	<0.2	<0.2	2.0	1.8			
						3.1	0.2	200	27.4	27.4	8.1	8.1	25.7	25.7	89.3	89.3	6.1	6.1	6.3	6.0	8	8	90	93			<0.2	<0.2	<0.2	1.8	1.8			
					Bottom	5.2	0.2	213	27.4	27.4	8.1	8.1	25.9	25.9	90.1	90.2	6.2	6.2	6.5	6.0	9	8	93	94			<0.2	<0.2	<0.2	1.8	1.8			
						5.2	0.2	231	27.4	27.4	8.1	8.1	25.9	25.9	90.2	90.2	6.2	6.2	6.5	6.0	8	8	94	94			<0.2	<0.2	<0.2	1.8	1.8			
IM10	Sunny	Moderate	16:36	6.1	Surface	1.0	0.3	124	27.6	27.6	8.1	8.1	25.1	25.1	89.7	89.7	6.2	6.2	4.2	4.6	5	6	86	89	822410	809786	<0.2	<0.2	<0.2	1.9	2.0			
						1.0	0.3	124	27.6	27.6	8.1	8.1	25.1	25.1	89.6	89.6	6.2	6.2	4.3	4.6	5	6	87	90			<0.2	<0.2	<0.2	1.9	2.0			
					Middle	3.1	0.2	133	27.4	27.4	8.1	8.1	25.8	25.8	89.6	89.7	6.1	6.1	4.7	4.6	6	6	89	90			<0.2	<0.2	<0.2	2.1	2.0			
						3.1	0.2	133	27.4	27.4	8.1	8.1	25.8	25.8	89.7	89.7	6.1	6.1	4.6	4.6	6	6	90	92			<0.2	<0.2	<0.2	2.0	2.3			
					Bottom	5.1	-	263	27.3	27.3	8.2	8.2	26.0	26.0	91.5	91.7	6.3	6.3	5.0	5.0	7	6	92	93			<0.2	<0.2	<0.2	2.3	2.0			
						5.1	-	282	27.3	27.3	8.2	8.2	26.0	26.0	91.8	91.8	6.3	6.3	5.0	5.0	6	6	92	92			<0.2	<0.2	<0.2	2.0	2.0			
IM11	Sunny	Moderate	16:47	6.6	Surface	1.0	0.1	275	27.4	27.4	8.2	8.2	26.2	26.2	89.3	89.3	6.1	6.1	4.3	5.1	6	6	88	89	822070	811466	<0.2	<0.2	<0.2	2.3	2.2			
						1.0	0.1	301	27.4	27.4	8.2	8.2	26.2	26.2	89.2	89.2	6.1	6.1	4.4	5.1	5	6	89	91			<0.2	<0.2	<0.2	2.2	2.1			
					Middle	3.3	0.1	326	27.4	27.4	8.2	8.2	26.3	26.3	89.0	89.1	6.1	6.1	5.4	5.1	5	6	91	91			<0.2	<0.2	<0.2	2.1	2.1			
						3.3	0.1	355	27.4	27.4	8.2	8.2	26.3	26.3	89.1	89.1	6.1	6.1	5.4	5.6	6	7	91	93			<0.2	<0.2	<0.2	2.1	2.1			
					Bottom	5.6	0.1	333	27.4	27.4	8.2	8.2	26.3	26.3	90.4	90.5	6.2	6.2	5.6	5.6	7	8	93	93			<0.2	<0.2	<0.2	2.1	2.2			
						5.6	0.2	343	27.4	27.4	8.2	8.2	26.3	26.3	90.5	90.5	6.2	6.2	5.6	5.6	8	8	93	93			<0.2	<0.2	<0.2	2.2	2.2			
IM12	Sunny	Moderate	16:54	7.6	Surface	1.0	0.1	280	27.5	27.5	8.2	8.2	26.4	26.4	90.0	90.0	6.1	6.1	6.0	8.0	4	5	86	87	821440	812069	<0.2	<0.2	<0.2	2.0	2.0			
						1.0	0.1	302	27.5	27.5	8.2	8.2	26.4	26.4	90.0	90.0	6.1	6.1	6.1	8.0	4	5	87	89			<0.2	<0.2	<0.2	2.0	2.0			
					Middle	3.8	0.1	319	27.4	27.4	8.2	8.2	26.4	26.4	91.3	91.4	6.2	6.2	8.4	8.0	5	5	89	90			<0.2	<0.2	<0.2	2.0	2.0			
						3.8	0.2	343	27.4	27.4	8.2	8.2	26.4	26.4	91.4	91.4	6.2	6.2	8.4	8.0	4	5	90	94			<0.2	<0.2	<0.2	2.0	2.1			
					Bottom	6.6	0.2	318	27.3	27.3	8.2	8.2	26.4	26.4	94.0	94.1	6.4	6.4	9.5	8.0	5	5	94	94			<0.2	<0.2	<0.2	2.1	2.1			
						6.6	0.2	329	27.3	27.3	8.2	8.2	26.4	26.4	94.2	94.1	6.4	6.4	9.4	8.0	5	5	94	94			<0.2	<0.2	<0.2	2.1	2.1			
SR2	Sunny	Moderate	17:20	4.2	Surface	1.0	0.2	315	27.1	27.1	8.2	8.2	26.2	26.2	93.2	93.2	6.4	6.4	6.5	7.8	7	8	86	86	821461	814172	<0.2	<0.2	<0.2	2.0	2.1			
						1.0	0.2	322	27.1	27.1	8.2	8.2	26.2	26.2	93.2	93.2	6.4	6.4	6.6	7.8	7	8	86	86			<0.2	<0.2	<0.2	2.1	2.1			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	<0.2	-	-	-	-
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	<0.2	-	-	-	-
					Bottom	3.2	0.2	299	27.0	27.0	8.2	8.2	26.4	26.4	96.2	96.3	6.6	6.6	8.9	7.8	9	8	90	91			<0.2	<0.2	<0.2	2.1	2.1			
						3.2	0.2	321	27.0	27.0	8.2	8.2	26.4	26.4	96.4	96.4	6.6	6.6	9.2	7.8	8	8	91	91			<0.2	<0.2	<0.2	2.2	2.2			
SR3	Sunny	Moderate	16:14	8.2	Surface	1.0	0.6	175	27.6	27.6	8.1	8.1	24.6	24.6	90.6	90.6	6.2	6.2	7.7	12.2	2	4	-	-	822122	807574	-	-	-	-	-			
						1.0	0.6	181	27.6	27.6	8.1	8.1	24.6	24.6	90.5	90.5	6.2	6.2	7.9	12.2	3	4	-	-			-	-	-	-				
					Middle	4.1	0.5	197	27.3	27.3	8.2	8.2	25.9	25.9	89.8	89.9	6.2	6.2	13.3	12.2	4	5	-	-			-	-	-	-	-	-	-	
						4.1	0.5	209	27.3	27.3	8.2	8.2	25.9	25.9	89.9	89.9	6.2	6.2	13.4	12.2	5	5	-	-			-	-	-	-	-	-	-	
					Bottom	7.2	0.4	206	27.3	27.3	8.2	8.2	26.0	26.0	92.8	92.9	6.4	6.4	15.5	12.2	5	5	-	-			-	-	-	-	-	-	-	-
						7.2	0.4	208	27.3	27.3	8.2	8.2	26.0	26.0	93.0	93.0	6.4	6.4	15.5	12.2	6	6	-	-			-	-	-	-	-	-	-	-
SR4A	Sunny	Moderate	17:42	8.7	Surface	1.0	0.5	255	27.0	27.0	8.2	8.2	25.8	25.8	89.6	89.6	6.2	6.2	11.6	12.9	4	6	-	-	817170	807789	-	-	-	-	-			
						1.0	0.6	278	27.0	27.0	8.2	8.2	25.9	25.9	89.5	89.5	6.2	6.2	12.1	12.9	5	6	-	-			-	-	-	-	-			
					Middle	4.4	0.5	248	27.0	27.0	8.2	8.2	25.9	25.9	89.6	89.7	6.2	6.2	13.0	12.9	6	6	-	-			-	-	-	-	-	-		
						4.4	0.6	264	27.0	27.0	8.2	8.2	25.9	25.9	89.8	89.8	6.2	6.2	13.1	12.9	6	6	-	-			-	-	-	-	-	-		
					Bottom	7.7	0.4	243	27.0	27.0	8.2	8.2	25.9	25.9	90.5	90.6	6.2	6.2	13.6	12.9	7	6	-	-			-	-	-	-	-	-	-	
						7.7	0.4	244	27.0	27.0	8.2	8.2	25.9	25.9	90.6	90.6	6.2	6.2	14.0	12.9	7	6	-	-	-	-	-	-	-	-	-			
SR5A	Sunny	Calm	17:58	4.3	Surface	1.0	0.4	311	27.4	27.4	8.2	8.2	26.3	26.3	87.9	87.9	6.0	6.0	8.6	8.9	6	6	-	-	816566	810705	-	-	-	-	-			
						1.0	0.5	336	27.4	27.4	8.2	8.2	26.3	26.3	87.9	87.9	6.0	6.0	8.6	8.9	6	6	-	-			-	-	-	-	-			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-	-	-	-	
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-	-	-	-	
					Bottom	3.3	0.3	310	27.4	27.4	8.2	8.2	26.4	26.4	87.8	87.9	6.0	6.0	9.1	8.9	6	7	-	-			-	-	-	-	-	-	-	-
						3.3	0.4	328	27.4	27.4	8.2	8.2	26.4	26.4	87.9	87.9	6.0	6.0	9.1	8.9	6	7	-	-	-	-	-	-	-	-	-	-		
SR6	Fine	Calm	18:24	4.2	Surface	1.0	0.2	209	27.5	27.5	8.2	8.2	26.3	26.3	88.6	88.5	6.1	6.1	8.4	8.6	6	7	-	-	817885	814681	-	-	-	-	-			
						1.0	0.2	220	27.4	27.4	8.2	8.2	26.3	26.3	88.4	88.4	6.0	6.0	8.5	8.6	6	7	-	-			-	-	-	-	-			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-	-	-	-	
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-	-	-	-	
					Bottom	3.2	0.1	216	27.4	27.4	8.2	8.2	26.4	26.4	87.9	87.9	6.0	6.0	8.7	8.7	7	7	-	-			-	-	-	-	-	-	-	-
						3.2	0.1	229	27.4	27.4	8.2	8.2	26.4	26.4	88.0	88.0	6.0	6.0	8.7	8.7	7	7	-	-	-	-	-	-	-	-	-	-		
SR7	Sunny	Moderate	18:27	19.3	Surface	1.0	0.1	55	27.4	27.4	8.2	8.2	27.2	27.2	85.4	85.4	5.8	5.8	3.5	5.1	5	4	-	-	823612	823716	-	-	-	-	-			
						1.0	0.1	55	27.4	27.4	8.2	8.2	27.2	27.2	85.3	85.3	5.8	5.8	3.6	5.1	4	4	-	-			-	-	-	-	-	-		
					Middle	9.7	0.3	106	27.3	27.3	8.2	8.2	28.2	28.2	83.4	83.4	5.7	5.7	5.9	6.0	4	4	-	-			-	-	-	-	-	-	-	
						9.7	0.3	108	27.3	27.3	8.2	8.2	28.2	28.2	83.4	83.4	5.7	5.7	6.0	6.0	6	6	-	-			-	-	-	-	-	-	-	
					Bottom																													

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

Water Quality Monitoring

Water Quality Monitoring Results on 09 October 18 during Mid-Ebb Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)		
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value
C1	Cloudy	Calm	12:31	8.9	Surface	1.0	0.1	138	27.3	27.3	8.2	8.2	27.7	27.7	95.2	95.2	6.5	6.5	8.7	8.7	8	8	87	87	90	815624	804238	<0.2	0.9		
						1.0	0.1	148	27.3		8.2	8.2	27.7	27.7	95.2	95.2	6.5	6.5	8.8	8.8	9	9	87	87				<0.2	1.0		
					Middle	4.5	0.2	203	27.2	27.2	8.2	8.2	28.8	28.8	94.8	94.8	6.4	6.4	13.0	13.0	8	8	90	90				<0.2	1.0		
						4.5	0.2	216	27.2		8.2	8.2	28.8	28.8	94.8	94.8	6.4	6.4	13.1	13.1	9	9	91	91				<0.2	1.0		
					Bottom	7.9	0.2	228	27.2	27.2	8.2	8.2	29.1	29.1	94.6	94.6	6.4	6.4	14.8	14.8	12	12	93	93				<0.2	0.9		
						7.9	0.2	233	27.2		8.2	8.2	29.1	29.1	94.6	94.6	6.4	6.4	14.7	14.7	10	10	92	92				<0.2	1.0		
C2	Fine	Moderate	11:23	13.0	Surface	1.0	0.2	56	27.5	27.5	8.1	8.1	25.5	25.5	86.9	86.9	6.0	6.0	18.4	18.4	11	11	84	84	87	825695	806945	<0.2	1.4		
						1.0	0.2	58	27.5		8.1	8.1	25.5	25.5	86.9	86.9	6.0	6.0	18.7	18.7	11	11	84	84				<0.2	1.4		
					Middle	6.5	0.3	81	27.4	27.4	8.1	8.1	26.1	26.1	87.2	87.2	6.0	6.0	19.6	19.6	11	11	88	88				<0.2	1.4		
						6.5	0.3	83	27.4		8.1	8.1	26.1	26.5	87.2	87.8	6.0	6.0	20.1	20.1	10	10	87	87				<0.2	1.4		
					Bottom	12.0	0.4	50	27.4	27.4	8.1	8.1	26.5	26.5	87.8	87.8	6.0	6.0	22.1	22.1	13	13	90	90				<0.2	1.5		
						12.0	0.5	51	27.4		8.1	8.1	26.5	26.5	87.7	87.7	6.0	6.0	22.2	22.2	13	13	91	91				<0.2	1.4		
C3	Misty	Moderate	13:11	12.6	Surface	1.0	0.6	69	27.6	27.6	8.2	8.2	26.8	26.8	85.4	85.4	5.8	5.8	10.7	10.7	8	8	85	86	90	822088	817796	<0.2	1.0		
						1.0	0.6	69	27.6		8.2	8.2	26.8	26.8	85.4	85.4	5.8	5.8	10.7	10.7	8	8	86	86				<0.2	0.9		
					Middle	6.3	0.4	80	27.4	27.4	8.1	8.1	27.6	27.6	81.3	81.3	5.5	5.5	14.0	14.0	9	9	90	90				<0.2	1.0		
						6.3	0.4	84	27.4		8.1	8.1	27.6	28.0	81.3	81.4	5.5	5.5	14.1	14.1	8	8	90	90				<0.2	1.0		
					Bottom	11.6	0.5	104	27.4	27.4	8.1	8.1	28.0	28.0	81.4	81.4	5.5	5.5	17.1	17.1	9	9	93	93				<0.2	1.0		
						11.6	0.5	108	27.4		8.1	8.1	28.0	28.0	81.4	81.4	5.5	5.5	17.1	17.1	10	10	93	93				<0.2	1.0		
IM1	Cloudy	Calm	12:12	5.5	Surface	1.0	0.1	210	27.5	27.5	8.2	8.2	27.8	27.8	91.7	91.7	6.2	6.2	12.4	12.4	7	7	85	85	90	817961	807115	<0.2	1.0		
						1.0	0.1	215	27.5		8.2	8.2	27.8	27.8	91.7	91.7	6.2	6.2	12.6	12.6	7	7	86	86				<0.2	1.0		
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	<0.2	-
						-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	<0.2
					Bottom	4.5	0.1	204	27.2	27.2	8.1	8.1	28.3	28.3	91.5	91.5	6.2	6.2	18.8	18.8	9	9	94	94				<0.2	0.9		
						4.5	0.1	218	27.2		8.1	8.1	28.3	28.3	92.1	91.8	6.2	6.2	18.1	18.1	9	9	95	95				<0.2	0.9		
IM2	Cloudy	Moderate	12:05	7.6	Surface	1.0	0.0	76	27.3	27.3	8.2	8.2	28.4	28.4	95.6	95.6	6.5	6.5	10.3	10.3	6	6	85	87	90	818168	806162	<0.2	0.8		
						1.0	0.0	83	27.3		8.2	8.2	28.4	28.4	95.5	95.6	6.5	6.5	10.4	10.4	7	7	87	87				<0.2	0.9		
					Middle	3.8	0.1	24	27.2	27.2	8.2	8.2	28.7	28.7	94.9	94.9	6.4	6.4	12.2	12.2	8	8	90	91				<0.2	0.9		
						3.8	0.1	24	27.2		8.2	8.2	28.7	28.7	94.9	94.9	6.4	6.4	12.2	12.2	8	8	91	91				<0.2	0.8		
					Bottom	6.6	0.0	89	27.2	27.2	8.2	8.2	28.8	28.8	94.5	94.5	6.4	6.4	13.6	13.6	11	11	93	93				<0.2	0.8		
						6.6	0.0	93	27.2		8.2	8.2	28.8	28.8	94.6	94.6	6.4	6.4	13.6	13.6	11	11	95	95				<0.2	0.8		
IM3	Cloudy	Moderate	11:59	7.9	Surface	1.0	0.2	81	27.3	27.3	8.2	8.2	28.0	28.0	94.3	94.4	6.4	6.4	14.4	14.4	8	8	86	88	90	818773	805579	<0.2	1.0		
						1.0	0.2	84	27.3		8.2	8.2	28.0	28.0	94.4	94.4	6.4	6.4	14.7	14.7	8	8	88	88				<0.2	0.8		
					Middle	4.0	0.1	355	27.2	27.2	8.2	8.2	28.8	28.8	94.3	94.3	6.4	6.4	17.3	17.3	11	11	90	91				<0.2	1.0		
						4.0	0.1	327	27.2		8.2	8.2	28.7	28.8	94.3	94.3	6.4	6.4	17.1	17.1	10	10	91	91				<0.2	0.9		
					Bottom	6.9	0.0	327	27.2	27.2	8.2	8.2	29.0	29.0	94.0	93.9	6.4	6.4	22.4	22.4	12	12	92	92				<0.2	0.9		
						6.9	0.0	356	27.2		8.2	8.2	29.0	29.0	93.8	93.8	6.3	6.3	22.6	22.6	11	11	94	94				<0.2	0.9		
IM4	Cloudy	Moderate	11:50	8.5	Surface	1.0	0.1	144	27.3	27.3	8.2	8.2	28.0	28.0	91.6	91.6	6.2	6.2	15.3	15.3	12	12	85	87	90	819725	804628	<0.2	1.2		
						1.0	0.1	151	27.3		8.2	8.2	28.0	28.0	91.5	91.5	6.2	6.2	15.6	15.6	14	14	87	87				<0.2	1.2		
					Middle	4.3	0.1	17	27.2	27.2	8.2	8.2	28.5	28.5	91.5	91.6	6.2	6.2	17.3	17.3	15	15	89	91				<0.2	1.2		
						4.3	0.1	18	27.2		8.2	8.2	28.5	28.5	91.6	91.6	6.2	6.2	18.9	18.9	15	15	91	91				<0.2	1.2		
					Bottom	7.5	0.1	313	27.2	27.2	8.2	8.2	28.6	28.6	91.4	91.4	6.2	6.2	20.4	20.4	17	17	94	94				<0.2	1.2		
						7.5	0.1	333	27.2		8.2	8.2	28.6	28.6	91.4	91.4	6.2	6.2	21.9	21.9	16	16	94	94				<0.2	1.1		
IM5	Cloudy	Moderate	11:41	8.6	Surface	1.0	0.2	3	27.2	27.2	8.2	8.2	28.2	28.2	90.8	90.8	6.2	6.2	15.5	15.5	16	16	85	87	90	820733	804882	<0.2	0.8		
						1.0	0.2	3	27.2		8.2	8.2	28.2	28.2	90.8	90.8	6.2	6.2	16.3	16.3	17	17	87	87				<0.2	0.8		
					Middle	4.3	0.2	4	27.2	27.2	8.2	8.2	28.2	28.2	90.7	90.7	6.2	6.2	17.4	17.4	17	17	89	91				<0.2	0.8		
						4.3	0.2	4	27.2		8.2	8.2	28.2	28.2	90.7	90.7	6.2	6.2	18.8	18.8	17	17	91	91				<0.2	0.9		
					Bottom	7.6	0.1	334	27.2	27.2	8.2	8.1	28.2	28.2	91.3	91.6	6.2	6.2	20.6	20.6	19	19	93	94				<0.2	0.8		
						7.6	0.1	307	27.2		8.1	8.1	28.2	28.2	91.8	91.8	6.2	6.2	21.7	21.7	19	19	94	94				<0.2	0.7		
IM6	Cloudy	Moderate	11:33	7.6	Surface	1.0	0.1	289	27.5	27.5	8.2	8.2	26.6	26.6	90.5	90.6	6.2	6.2	12.1	12.1	9	9	85	86	90	821063	805808	<0.2	1.2		
						1.0	0.1	315	27.5		8.2	8.2	26.6	26.6	90.6	90.6	6.2	6.2	13.4	13.4	10	10	86	89				<0.2	1.8		
					Middle	3.8	0.1	2	27.3	27.3	8.2	8.2	27.9	27.9	90.6	90.6	6.1	6.1	15.5	15.5	10	10	89	90				<0.2	1.3		
						3.8	0.1	2	27.3		8.2	8.2	27.9	27.9	90.6	90.6	6.1	6.1	15.7	15.7	10	10	90	94				<0.2	1.3		
					Bottom	6.6	0.1	331	27.2	27.2	8.2	8.2	28.2	28.2	90.6	90.6	6.1	6.1	20.8	20.8	11	11	94	94				<0.2	1.2		
						6.6	0.1	337	27.3		8.2	8.2	28.2	28.2	90.6	90.6	6.1	6.1	20.9	20.9	11	11	95	95				<0.2	1.2		
IM7	Cloudy	Moderate	11:24	9.0	Surface	1.0	0.1	352	27.5	27.5	8.1	8.1	25.9	25.8	88.4	88.5	6.0	6.0	13.7	13.7	10	10	84	85	89	821356	806816	<0.2	1.4		
						1.0	0.1	324	27.5		8.2	8.1	25.7	25.7	88.5	88.5	6.1	6.1	13.9	13.9	10	10	85	89				<0.2	1.4		
					Middle	4.5	0.1	7	27.3	27.3	8.2	8.2	27.0	26.9	88.7	88.7	6.1	6.1	16.4	16.4	12	12	89	90				<0.2	1.5		
						4.5	0.1	7	27.3		8.2	8.2	26.9	26.9	88.7	88.7	6.1	6.1	16.5	16.5	13	13	90	93				<0.2	1.3		
					Bottom	8.0	0.1	22	27.3	27.3	8.2	8.2	27.7	27.7	88.8	88.8	6.0	6.0	21.5	21.5	14	14	93	94				<0.2	1.4		
						8.0	0.1	22	27.3		8.2	8.2	27.7	27.7	88.7	88.8	6.0	6.0	21.6	21.6	14	14	95	95				<0.2	1.4		
IM8	Fine	Moderate	11:48	8.5	Surface	1.0	0.4	120	27.7	27.7	8.1	8.1	25.1	25.1	88.3	88.4	6.0	6.0	16.5	16.5	6	6	84	85	88	821811	808159	<0.2	1.4		
						1.0	0.4	122	27.7		8.1	8.1	25.1	25.1	88.4	88.4	6.1	6.1	16.6	16.6	6	6	85	88				<0.2	1.4		
					Middle	4.3																									

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

Water Quality Monitoring

Water Quality Monitoring Results on 09 October 18 during Mid-Ebb Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)					
									Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA	Value	DA
IM9	Fine	Moderate	11:55	8.2	Surface	1.0	0.5	118	27.7	27.7	8.1	8.1	25.0	25.0	87.2	87.2	6.0	6.1	16.0	18.4	6	8	84	88	822106	808803	<0.2	<0.2	1.4	1.4				
						1.0	0.5	124	27.7		8.1	8.1	25.0	25.0	87.2	87.2	6.0		16.0		7		85				<0.2		1.4					
					Middle	4.1	0.4	77	27.4	27.4	8.1	8.1	25.8	25.8	88.3	88.3	6.1	6.1	18.4	8	87	<0.2	1.5											
						4.1	0.4	84	27.4		8.2	8.1	25.8	25.8	88.3	88.3	6.1		18.2	8	88	<0.2	1.4											
					Bottom	7.2	0.5	73	27.3	27.3	8.2	8.2	27.2	27.2	89.1	89.2	6.1	6.1	20.8	9	92	<0.2	1.4											
						7.2	0.5	73	27.3		8.2	8.2	27.2	27.2	89.2	89.2	6.1		20.8	9	91	<0.2	1.4											
IM10	Misty	Moderate	12:03	7.7	Surface	1.0	0.6	101	27.6	27.6	8.1	8.1	25.5	25.5	87.7	87.7	6.0	6.0	16.1	19.1	9	11	84	88	822361	809784	<0.2	<0.2	1.3	1.4				
						1.0	0.6	107	27.6		8.1	8.1	25.5	25.5	87.6	87.7	6.0		16.3		9		85				<0.2		1.4					
					Middle	3.9	0.6	86	27.5	27.5	8.1	8.1	25.8	25.8	88.0	88.1	6.0	6.1	18.8	10	87	<0.2	1.4											
						3.9	0.6	87	27.5		8.1	8.1	25.8	25.8	88.1	88.1	6.0		19.2	10	88	<0.2	1.3											
					Bottom	6.7	0.4	75	27.4	27.4	8.2	8.2	26.9	26.9	89.5	89.6	6.1	6.1	22.2	12	91	<0.2	1.3											
						6.7	0.4	81	27.4		8.2	8.2	27.0	26.9	89.6	89.6	6.1		22.2	12	91	<0.2	1.4											
IM11	Misty	Moderate	12:14	9.4	Surface	1.0	0.4	112	27.6	27.6	8.2	8.2	25.9	25.9	86.9	87.0	5.9	5.9	13.9	18.2	10	11	85	88	822079	811476	<0.2	<0.2	1.3	1.3				
						1.0	0.4	118	27.6		8.2	8.2	26.0	25.9	87.0	87.0	5.9		14.0		11		85				<0.2		1.2					
					Middle	4.7	0.4	108	27.4	27.4	8.2	8.2	26.4	26.4	86.2	86.2	5.9	5.9	18.6	10	88	<0.2	1.3											
						4.7	0.4	108	27.4		8.2	8.2	26.4	26.4	86.2	86.2	5.9		18.7	10	88	<0.2	1.2											
					Bottom	8.4	0.2	109	27.4	27.4	8.2	8.2	26.6	26.6	86.3	86.3	5.9	5.9	22.0	12	90	<0.2	1.3											
						8.4	0.2	112	27.4		8.2	8.2	26.6	26.6	86.3	86.3	5.9		21.9	11	91	<0.2	1.3											
IM12	Misty	Moderate	12:20	10.0	Surface	1.0	0.5	111	27.6	27.6	8.2	8.2	25.9	25.9	88.7	88.7	6.1	6.1	18.4	20.3	8	9	85	88	821434	812048	<0.2	<0.2	1.3	1.3				
						1.0	0.5	117	27.6		8.2	8.2	26.0	25.9	88.7	88.7	6.1		18.7		7		85				<0.2		1.3					
					Middle	5.0	0.5	102	27.4	27.4	8.2	8.2	26.7	26.7	89.0	89.0	6.1	6.1	20.0	9	88	<0.2	1.4											
						5.0	0.5	107	27.4		8.2	8.2	26.7	26.7	89.0	89.0	6.1		20.1	9	88	<0.2	1.3											
					Bottom	9.0	0.4	86	27.4	27.4	8.2	8.2	27.1	27.1	89.0	89.1	6.1	6.1	21.9	9	91	<0.2	1.3											
						9.0	0.4	86	27.4		8.2	8.2	27.1	27.1	89.1	89.1	6.1		22.4	10	91	<0.2	1.2											
SR2	Misty	Moderate	12:46	5.1	Surface	1.0	0.4	93	27.5	27.5	8.2	8.2	26.3	26.3	87.8	87.8	6.0	6.0	13.1	13.8	7	7	85	88	821453	814153	<0.2	<0.2	1.2	1.2				
						1.0	0.4	93	27.6		8.2	8.2	26.3	26.3	87.8	87.8	6.0		13.1		7		86				<0.2		1.2					
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-		-		<0.2	-		
						-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	<0.2			-							
					Bottom	4.1	0.2	95	27.5	27.5	8.2	8.2	26.6	26.6	88.0	88.1	6.0	6.0	14.5	7	89	<0.2	1.2											
						4.1	0.2	96	27.5		8.2	8.2	26.6	26.6	88.1	88.1	6.0		14.5	8	90	<0.2	1.2											
SR3	Fine	Moderate	11:42	9.7	Surface	1.0	0.3	142	27.5	27.5	8.1	8.1	25.5	25.5	87.4	87.5	6.0	6.0	17.4	19.9	10	11	-	-	822170	807560	-	-	-	-				
						1.0	0.3	148	27.5		8.1	8.1	25.5	25.5	87.6	87.5	6.0		17.5		11		-				-		-					
					Middle	4.9	0.3	99	27.5	27.5	8.1	8.1	26.1	26.1	88.5	88.5	6.0	6.0	19.6	12	-	-	-	-			-		-		-			
						4.9	0.3	105	27.5		8.1	8.1	26.1	26.1	88.4	88.5	6.0		19.9	12	-	-	-	-			-							
					Bottom	8.7	0.4	80	27.3	27.3	8.2	8.2	27.4	27.4	89.5	89.5	6.1	6.1	22.7	12	-	-	-	-			-		-		-			
						8.7	0.4	87	27.3		8.2	8.2	27.4	27.4	89.5	89.5	6.1		22.4	12	-	-	-	-										
SR4A	Cloudy	Calm	12:51	9.5	Surface	1.0	0.3	65	27.4	27.4	8.2	8.2	28.3	28.3	92.3	92.3	6.2	6.2	13.1	17.4	8	9	-	-	817199	807811	-	-	-	-				
						1.0	0.3	67	27.4		8.2	8.2	28.3	28.3	92.3	92.3	6.2		13.1		9		-				-		-					
					Middle	4.8	0.4	80	27.2	27.2	8.2	8.2	28.4	28.4	91.1	91.1	6.2	6.2	18.3	9	-	-	-	-			-		-		-			
						4.8	0.4	81	27.2		8.2	8.2	28.4	28.4	91.1	91.1	6.2		18.6	9	-	-	-	-										
					Bottom	8.5	0.2	66	27.2	27.2	8.2	8.2	28.4	28.4	91.1	91.1	6.2	6.2	20.2	11	-	-	-	-			-		-		-			
						8.5	0.3	69	27.2		8.2	8.2	28.4	28.4	91.1	91.1	6.2		21.1	11	-	-	-	-										
SR5A	Cloudy	Calm	13:07	4.3	Surface	1.0	0.1	43	27.4	27.4	8.1	8.1	27.4	27.4	87.3	87.3	5.9	5.9	10.6	12.2	7	7	-	-	816590	810705	-	-	-	-				
						1.0	0.1	43	27.4		8.1	8.1	27.4	27.4	87.3	87.3	5.9		10.8		7		-				-		-					
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-		-		-	-	-	
						-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-			-		-		-	-		
					Bottom	3.3	0.0	47	27.3	27.3	8.1	8.1	27.5	27.5	87.1	87.3	5.9	5.9	13.5	9	-	-	-	-			-		-		-	-	-	-
						3.3	0.0	47	27.3		8.1	8.1	27.5	27.5	87.3	87.3	5.9		14.0	8	-	-	-	-										
SR6	Cloudy	Calm	13:48	3.9	Surface	1.0	0.0	106	27.5	27.5	8.1	8.1	26.9	26.9	87.8	87.8	6.0	6.0	6.0	6.2	8	7	-	-	817894	814670	-	-	-	-				
						1.0	0.0	113	27.5		8.1	8.1	26.9	26.9	87.7	87.8	6.0		6.1		7		-				-		-					
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-		-		-	-	-	
						-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-			-		-		-	-		
					Bottom	2.9	0.0	98	27.4	27.4	8.1	8.1	26.9	26.9	87.9	88.2	6.0	6.0	6.5	9	-	-	-	-			-		-		-	-	-	-
						2.9	0.0	105	27.5		8.1	8.1	26.9	26.9	88.2	88.1	6.0		6.3	10	-	-	-	-										
SR7	Misty	Moderate	13:38	16.1	Surface	1.0	0.7	79	27.6	27.6	8.2	8.2	27.5	27.5	85.4	85.3	5.8	5.8	10.5	15.9	6	5	-	-	823618	823722	-	-	-	-				
						1.0	0.7	84	27.6		8.2	8.2	27.5	27.5	85.2	85.3	5.8		10.5		5		-				-		-					
					Middle	8.1	0.5	58	27.5	27.5	8.2	8.2	27.8	27.8	83.6	83.6	5.7	5.7	16.0	5	-	-	-	-			-		-		-	-		
						8.1	0.5	58	27.5		8.2	8.2	27.8	27.8	83.6	83.6	5.7		16.1	6	-	-	-	-										
					Bottom	15.1	0.2	19	27.5	27.5	8.1	8.1	27.8	27.8	83.8	83.9	5.7	5.7	21.3	7	-	-	-	-			-		-		-	-	-	
						15.1	0.2	20	27.5		8.1	8.1	27.8	27.8	83.9	83.9	5.7		21.1	8	-	-	-	-										
SR8	Misty	Moderate	12:32	5.9	Surface	1.0	-	-	27.5	27.5	8.3	8.3	26.5	26.5	89.3	89.4	6.1	6.1	18.9	20.5	11	10	-	-	820485	811678	-	-	-	-				
						1.0	-	-	27.5		8.3	8.3	26.5	26.5	89.3	89.4	6.1		19.6		10		-				-		-					
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-		-		-	-	-	
						-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-			-		-		-	-		
					Bottom	4.9	-	-	27.4	27.4	8.4	8.4	27.0	27.0	89.8	89.9	6.1	6.1	21.6	13	-	-	-	-			-		-		-	-	-	-
						4.9	-	-	27.4		8.4	8.4	27.0	27.0	89.9	89.9	6.1		21.7	13	-	-	-	-										

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

Water Quality Monitoring

Water Quality Monitoring Results on 09 October 18 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)				
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA	Value
C1	Fine	Moderate	06:27	9.6	Surface	1.0	0.5	59	27.2	27.2	8.2	8.2	28.8	28.8	95.8	95.9	6.5	6.5	22.0	17.5	18	20	85	89	815641	804252	<0.2	1.2	1.1				
						1.0	0.5	61	27.2		8.2	8.2	28.8	95.9	6.5	21.9	17		86		<0.2		1.0										
					Middle	4.8	0.6	53	27.2	8.2	8.2	29.2	29.2	95.9	95.9	6.5	13.9	20	89	<0.2	1.1												
						4.8	0.7	57	27.2	8.2	8.2	29.2	95.9	6.5	13.9	20	90	<0.2	1.2														
					Bottom	8.6	0.5	55	27.2	8.2	8.2	29.5	29.5	95.5	95.5	6.4	16.8	23	93	<0.2	1.1												
						8.6	0.5	56	27.2	8.2	8.2	29.5	95.5	6.4	16.7	23	93	<0.2	1.1														
C2	Fine	Moderate	07:51	13.1	Surface	1.0	0.2	327	27.4	27.4	8.1	8.1	25.6	25.6	86.6	86.6	5.9	5.9	15.6	18.7	19	21	85	88	825687	806949	<0.2	1.4	1.4				
						1.0	0.2	330	27.4		8.1	8.1	25.6	86.6	5.9	15.7	19		85		<0.2		1.3										
					Middle	6.6	0.2	1	27.4	8.2	8.2	25.8	25.8	86.8	86.9	5.9	19.3	20	87	<0.2	1.4												
						6.6	0.3	1	27.4	8.2	8.2	25.8	86.9	6.0	19.3	21	87	<0.2	1.4														
					Bottom	12.1	0.4	39	27.3	8.2	8.2	26.4	26.4	87.6	87.6	6.0	21.0	24	90	<0.2	1.4												
						12.1	0.4	40	27.3	8.2	8.2	26.4	87.6	6.0	21.0	25	91	<0.2	1.3														
C3	Cloudy	Moderate	05:59	12.4	Surface	1.0	0.3	242	27.4	27.4	8.1	8.1	27.6	27.6	82.1	82.2	5.6	5.6	17.3	19.4	6	7	87	90	822108	817773	<0.2	1.0	1.0				
						1.0	0.3	258	27.4		8.1	8.1	27.6	82.2	5.6	17.5	7		87		<0.2		1.0										
					Middle	6.2	0.3	242	27.3	8.1	8.1	27.7	27.7	81.7	81.7	5.5	18.7	7	89	<0.2	1.0												
						6.2	0.3	258	27.3	8.1	8.1	27.7	81.7	5.5	19.2	8	90	<0.2	1.0														
					Bottom	11.4	0.3	239	27.3	8.1	8.1	27.7	82.4	5.6	21.5	8	93	<0.2	1.0														
						11.4	0.3	247	27.3	8.1	8.1	27.7	82.4	5.6	22.3	8	93	<0.2	1.0														
IM1	Fine	Moderate	06:45	5.8	Surface	1.0	0.1	317	27.3	27.3	8.2	8.2	27.8	27.8	89.7	89.7	6.1	6.1	18.3	19.2	10	12	84	89	817975	807118	<0.2	1.4	1.3				
						1.0	0.1	344	27.3		8.2	8.2	27.8	89.7	6.1	18.8	11		85		<0.2		1.4										
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-		-	-	-	-
						4.8	0.2	15	27.2	8.1	8.1	28.2	28.2	89.9	89.9	6.1	19.7	14	93	<0.2	1.1												
					Bottom	4.8	0.2	15	27.2	8.1	8.1	28.2	28.2	89.8	89.9	6.1	19.8	14	94	<0.2	1.1												
						1.0	0.4	7	27.3	8.2	8.2	28.6	28.6	95.1	95.1	6.4	16.4	16	85	<0.2	0.8												
IM2	Fine	Moderate	06:53	8.3	Surface	1.0	0.4	7	27.3	27.3	8.2	8.2	28.6	28.6	95.0	95.1	6.4	6.4	16.4	18.6	16	17	86	90	818188	806156	<0.2	0.8	0.8				
						1.0	0.4	7	27.3		8.2	8.2	28.6	95.0	6.4	16.9	15		86		<0.2		0.8										
					Middle	4.2	0.4	0	27.3	8.2	8.2	28.6	28.6	94.1	94.1	6.4	18.6	16	90	<0.2	0.8												
						4.2	0.4	0	27.3	8.2	8.2	28.6	94.1	6.4	18.4	17	91	<0.2	0.8														
					Bottom	7.3	0.3	355	27.2	8.2	8.2	28.6	28.6	92.9	92.9	6.3	20.6	18	92	<0.2	0.8												
						7.3	0.3	327	27.2	8.2	8.2	28.6	92.9	6.3	20.8	19	93	<0.2	0.8														
IM3	Fine	Moderate	07:03	8.4	Surface	1.0	0.4	47	27.2	27.2	8.2	8.2	28.6	28.6	94.3	94.3	6.4	6.4	19.5	20.6	13	15	85	90	818808	805587	<0.2	0.9	0.9				
						1.0	0.5	49	27.2		8.2	8.2	28.6	94.3	6.4	19.6	12		85		<0.2		0.9										
					Middle	4.2	0.4	34	27.2	8.2	8.2	28.8	28.8	93.9	93.9	6.4	20.7	14	90	<0.2	0.9												
						4.2	0.4	35	27.2	8.2	8.2	28.8	93.9	6.4	20.8	14	91	<0.2	0.9														
					Bottom	7.4	0.3	29	27.2	8.2	8.2	28.9	28.9	93.5	93.5	6.3	21.6	18	93	<0.2	0.8												
						7.4	0.3	31	27.2	8.2	8.2	28.9	93.5	6.3	21.5	18	93	<0.2	0.8														
IM4	Fine	Moderate	07:12	8.6	Surface	1.0	0.3	9	27.2	27.2	8.2	8.2	28.2	28.2	92.0	92.0	6.2	6.2	15.3	18.0	18	20	85	90	819724	804598	<0.2	1.0	1.0				
						1.0	0.3	9	27.2		8.2	8.2	28.2	92.0	6.2	15.1	19		86		<0.2		0.9										
					Middle	4.3	0.3	10	27.2	8.2	8.2	28.2	28.2	90.3	90.3	6.1	18.3	20	89	<0.2	1.0												
						4.3	0.3	10	27.2	8.2	8.2	28.2	90.3	6.1	18.3	20	91	<0.2	1.1														
					Bottom	7.6	0.2	19	27.2	8.2	8.2	28.2	28.2	90.3	90.3	6.1	20.4	22	94	<0.2	1.0												
						7.6	0.2	19	27.2	8.2	8.2	28.2	90.3	6.1	20.6	22	95	<0.2	1.0														
IM5	Fine	Moderate	07:23	8.1	Surface	1.0	0.3	37	27.2	27.2	8.2	8.2	28.1	28.1	90.9	90.9	6.2	6.2	14.8	16.5	27	29	85	90	820717	804891	<0.2	0.9	1.0				
						1.0	0.4	38	27.2		8.2	8.2	28.1	90.9	6.2	14.9	27		87		<0.2		0.9										
					Middle	4.1	0.3	27	27.2	8.2	8.2	28.2	28.2	90.5	90.5	6.1	15.4	29	90	<0.2	1.0												
						4.1	0.3	27	27.2	8.2	8.2	28.2	90.5	6.1	15.7	28	90	<0.2	1.0														
					Bottom	7.1	0.2	2	27.2	8.1	8.1	28.2	28.2	90.6	90.6	6.1	18.2	32	93	<0.2	1.0												
						7.1	0.2	2	27.2	8.1	8.1	28.2	90.6	6.1	19.7	32	94	<0.2	1.0														
IM6	Fine	Moderate	07:30	8.0	Surface	1.0	0.1	5	27.3	27.3	8.2	8.2	27.9	27.9	90.4	90.4	6.1	6.1	13.1	16.4	23	29	86	90	821071	805822	<0.2	1.1	1.1				
						1.0	0.2	5	27.3		8.2	8.2	27.9	90.4	6.1	13.2	24		87		<0.2		1.1										
					Middle	4.0	0.1	358	27.3	8.2	8.2	28.0	28.1	90.4	90.4	6.1	15.7	29	89	<0.2	1.1												
						4.0	0.1	329	27.3	8.2	8.2	28.1	90.4	6.1	15.9	29	91	<0.2	1.1														
					Bottom	7.0	0.1	300	27.3	8.2	8.2	28.2	90.4	6.1	19.8	35	93	<0.2	1.0														
						7.0	0.1	307	27.3	8.2	8.2	28.1	90.5	6.1	20.6	36	94	<0.2	1.1														
IM7	Fine	Moderate	07:40	9.3	Surface	1.0	0.1	336	27.5	27.5	8.1	8.1	25.7	25.7	88.1	88.1	6.0	6.0	14.7	18.1	6	9	87	90	821349	806843	<0.2	1.5	1.5				
						1.0	0.1	309	27.5		8.1	8.1	25.7	88.1	6.0	15.0	5		86		<0.2		1.6										
					Middle	4.7	0.1	342	27.3	8.2	8.2	26.4	26.4	88.2	88.3	6.0	21.9	8	89	<0.2	1.5												
						4.7	0.1	315	27.3	8.2	8.2	26.4	88.3	6.0	22.3	9	90	<0.2	1.5														
					Bottom	8.3	0.1	67	27.3	8.2	8.2	27.6	27.6	88.2	88.2	6.0	17.9	14	93	<0.2	1.5												
						8.3	0.1	67	27.3	8.2	8.2	27.6	88.2	6.0	16.7	14	94	<0.2	1.4														
IM8	Fine	Moderate	07:23	8.8	Surface	1.0	0.3	38	27.4	27.4	8.1	8.1	25.3	25.3	87.2	87.2	6.0	6.1	15.7	18.3	6	7	85	88	821821	808165	<0.2	1.5	1.5				
						1.0	0.3	38	27.4		8.1	8.1	25.3	87.2	6.0	15.8	7		85		<0.2		1.5										
					Middle	4.4	0.4	58	27.3	8.2	8.2	26.0	26.0	88.3	88.3	6.1	17.1	7	87	<0.2	1.5												
						4.4	0.4	60	27.3	8.2	8.2	26.0	88.3	6.1	17.2	8	88	<0.2	1.5														
					Bottom	7.8	0.4	50	27.3	8.2	8.2	27.0	27.0	90.2	90.2	6.2	22.0	8	92	<0.2	1.5												
						7.8	0.5	50	27.3	8.2	8.2	27.0	90.2	6.2	22.1	8	92	<0.2	1.5														

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

Water Quality Monitoring

Water Quality Monitoring Results on 09 October 18 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)					
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA	Value	DA
IM9	Fine	Moderate	07:17	8.2	Surface	1.0	0.3	82	27.4	27.4	8.2	8.2	25.8	25.8	87.4	87.4	6.0	6.0	16.7	18.9	7	8	85	88	822085	808815	<0.2	1.5	1.5					
						1.0	0.3	87	27.4	27.4	8.2	8.2	25.8	25.8	87.4	87.4	6.0	6.0	16.8	8	8	85	88											
					Middle	4.1	0.2	84	27.3	27.3	8.2	8.2	26.5	26.5	87.6	87.6	6.0	6.0	18.3	7	8	88	88											
						4.1	0.2	88	27.3	27.3	8.2	8.2	26.5	26.5	87.6	87.6	6.0	6.0	18.4	8	8	88	88											
					Bottom	7.2	0.2	59	27.3	27.3	8.2	8.2	26.6	26.6	87.8	87.8	6.0	6.0	21.6	9	9	91	91											
						7.2	0.2	60	27.3	27.3	8.2	8.2	26.6	26.6	87.8	87.8	6.0	6.0	21.6	10	10	91	91											
IM10	Fine	Moderate	07:08	8.8	Surface	1.0	0.2	67	27.4	27.4	8.1	8.1	25.2	25.2	86.2	86.2	5.9	5.9	15.7	18.1	9	8	85	86	822398	809794	<0.2	1.5	1.5					
						1.0	0.2	70	27.4	27.4	8.1	8.1	25.2	25.2	86.2	86.2	5.9	5.9	15.7	8	10	86	88											
					Middle	4.4	0.2	5	27.3	27.3	8.2	8.2	25.8	25.8	86.2	86.2	5.9	5.9	17.8	10	10	88	87											
						4.4	0.2	5	27.3	27.4	8.2	8.1	25.8	26.4	86.2	86.5	5.9	5.9	18.0	12	12	87	91											
					Bottom	7.8	0.3	327	27.4	27.4	8.1	8.1	26.4	26.4	86.5	86.5	5.9	5.9	20.7	12	12	91	91											
						7.8	0.3	327	27.4	27.4	8.1	8.1	26.4	26.4	86.5	86.5	5.9	5.9	20.6	12	12	91	91											
IM11	Fine	Moderate	06:57	8.9	Surface	1.0	0.3	321	27.4	27.4	8.2	8.2	26.6	26.6	86.7	86.7	5.9	5.9	16.2	19.1	18	18	86	86	822060	811436	<0.2	1.2	1.2					
						1.0	0.3	321	27.4	27.4	8.2	8.2	26.6	26.6	86.7	86.7	5.9	5.9	16.4	18	18	86	86											
					Middle	4.5	0.3	329	27.4	27.4	8.2	8.2	26.6	26.6	86.2	86.2	5.9	5.9	19.8	19	19	88	88											
						4.5	0.3	345	27.4	27.4	8.2	8.2	26.6	26.6	86.1	86.2	5.9	5.9	20.1	18	18	88	88											
					Bottom	7.9	0.2	322	27.4	27.4	8.2	8.2	26.6	26.6	86.5	86.5	5.9	5.9	21.0	19	19	91	91											
						7.9	0.2	347	27.4	27.4	8.2	8.2	26.6	26.6	86.6	86.6	5.9	5.9	20.9	20	20	91	91											
IM12	Fine	Moderate	06:49	9.4	Surface	1.0	0.2	226	27.4	27.4	8.2	8.2	26.6	26.6	86.3	86.3	5.9	5.9	15.1	17.8	12	12	85	86	821477	812030	<0.2	1.3	1.3					
						1.0	0.3	241	27.4	27.4	8.2	8.2	26.6	26.6	86.2	86.2	5.9	5.9	15.2	12	14	86	88											
					Middle	4.7	0.3	221	27.4	27.4	8.2	8.2	26.6	26.6	86.2	86.3	5.9	5.9	17.5	14	14	88	88											
						4.7	0.3	226	27.4	27.4	8.2	8.2	26.6	26.6	86.3	86.3	5.9	5.9	17.7	14	14	88	88											
					Bottom	8.4	0.3	210	27.4	27.4	8.2	8.1	26.6	26.6	86.2	86.2	5.9	5.9	20.6	15	15	92	91											
						8.4	0.3	226	27.4	27.4	8.1	8.1	26.6	26.6	86.2	86.2	5.9	5.9	20.6	16	16	91	91											
SR2	Fine	Moderate	06:21	5.3	Surface	1.0	0.3	354	27.4	27.4	8.1	8.1	26.6	26.6	86.6	86.7	5.9	5.9	16.2	18.3	18	17	85	86	821444	814183	<0.2	1.3	1.3					
						1.0	0.3	326	27.4	27.4	8.1	8.1	26.6	26.6	86.7	86.7	5.9	5.9	16.1	17	19	86	88											
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						-	-	-	-	-
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						-	-	-	-	-
					Bottom	4.3	0.3	352	27.4	27.4	8.1	8.1	26.6	26.6	87.6	87.6	6.0	6.0	20.4	22	22	88	88											
						4.3	0.3	324	27.4	27.4	8.1	8.1	26.6	26.6	87.6	87.6	6.0	6.0	20.5	20	20	88	88											
SR3	Fine	Moderate	07:30	10.0	Surface	1.0	0.5	66	27.4	27.4	8.2	8.2	26.2	26.2	88.7	88.7	6.1	6.1	14.1	17.2	16	15	-	-	822151	807597	-	-	-					
						1.0	0.6	67	27.4	27.4	8.2	8.2	26.2	26.2	88.6	88.6	6.1	6.1	14.2	16	16	-	-											
					Middle	5.0	0.5	77	27.3	27.3	8.2	8.2	26.9	26.9	88.8	88.8	6.1	6.1	17.2	16	16	-	-											
						5.0	0.6	81	27.3	27.3	8.2	8.2	26.9	26.9	88.8	88.8	6.1	6.1	17.4	16	16	-	-											
					Bottom	9.0	0.5	78	27.3	27.3	8.2	8.2	27.0	27.0	88.8	88.8	6.0	6.1	20.1	18	18	-	-											
						9.0	0.6	80	27.3	27.3	8.2	8.2	27.0	27.0	88.8	88.8	6.1	6.1	20.4	18	18	-	-											
SR4A	Fine	Calm	06:05	6.1	Surface	1.0	0.5	72	27.2	27.2	8.2	8.2	27.8	27.8	89.5	89.5	6.1	6.1	20.4	15.6	19	20	-	-	817207	807816	-	-	-					
						1.0	0.5	76	27.2	27.2	8.2	8.2	27.8	27.8	89.5	89.5	6.1	6.1	20.5	19	21	-	-											
					Middle	3.1	0.5	80	27.2	27.2	8.1	8.1	27.8	27.8	89.4	89.4	6.1	6.1	9.4	19	19	-	-											
						3.1	0.5	82	27.2	27.2	8.1	8.1	27.8	27.8	89.4	89.4	6.1	6.1	9.5	19	19	-	-											
					Bottom	5.1	0.4	81	27.2	27.2	8.1	8.1	27.8	27.8	89.4	89.5	6.1	6.1	16.9	24	24	-	-											
						5.1	0.4	83	27.2	27.2	8.1	8.1	27.8	27.8	89.5	89.5	6.1	6.1	16.8	25	25	-	-											
SR5A	Fine	Calm	05:45	4.0	Surface	1.0	0.1	181	27.2	27.2	8.1	8.0	27.3	27.3	86.7	86.7	5.9	5.9	9.9	9.9	9	8	-	-	816580	810668	-	-	-					
						1.0	0.1	198	27.2	27.2	8.0	8.0	27.3	27.3	86.7	86.7	5.9	5.9	10.3	8	9	-	-											
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						-	-	-	-	-
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						-	-	-	-	-
					Bottom	3.0	0.1	184	27.2	27.2	7.9	7.8	27.3	27.3	87.6	88.1	6.0	6.0	9.5	10	10	-	-											
						3.0	0.1	186	27.2	27.2	7.8	7.8	27.3	27.3	88.6	88.6	6.0	6.0	9.8	10	10	-	-											
SR6	Fine	Calm	05:13	3.1	Surface	1.0	0.2	190	27.3	27.3	8.2	8.2	27.1	27.1	86.2	86.2	5.9	5.9	8.9	9.9	12	13	-	-	817910	814690	-	-	-					
						1.0	0.2	190	27.3	27.3	8.2	8.2	27.1	27.1	86.2	86.2	5.9	5.9	9.0	13	13	-	-											
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						-	-	-	-	-
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						-	-	-	-	-
					Bottom	2.1	0.1	202	27.3	27.3	8.2	8.2	27.1	27.1	88.3	88.3	6.0	6.0	10.8	17	17	-	-											
						2.1	0.1	213	27.3	27.3	8.2	8.2	27.1	27.1	88.3	88.3	6.0	6.0	10.8	17	17	-	-											
SR7	Cloudy	Moderate	05:30	16.3	Surface	1.0	0.1	47	27.4	27.4	8.2	8.2	27.3	27.3	82.1	82.1	5.6	5.6	13.9	16.2	8	8	-	-	823613	823730	-	-	-					
						1.0	0.1	48	27.4	27.4	8.2	8.1	27.3	27.8	81.3	81.3	5.5	5.5	13.9	10	10	-	-											
					Middle	8.2	0.3	75	27.3	27.3	8.1	8.1	27.8	27.8	81.3	81.3	5.5	5.5	15.4	8	8	-	-											
						8.2	0.3	75	27.3	27.3	8.1	8.1	27.8	27.9	81.0	81.0	5.5	5.5	15.4	9	9	-	-											
					Bottom	15.3	0.2	86	27.4	27.4	8.2	8.2	27.9	27.9	81.0	81.0	5.5	5.5	19.2	10	10	-	-											
						15.3	0.2	90	27.4	27.4	8.2	8.2	27.9	27.9	81.0	81.0	5.5	5.5	19.2	10	10	-	-											
SR8	Fine	Moderate	06:37	5.8	Surface	1.0	-	-	27.4	27.4	8.1	8.1	26.4	26.4	88.1	88.1	6.0	6.0	16.5	17.4	12	13	-	-	820512	811673	-	-	-					
						1.0	-	-	27.4	27.4	8.1	8.1	26.4	26.4	88.1	88.1	6.0	6.0	16.6	12	13	-	-											
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						-	-	-	-	-
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						-	-	-	-	-
					Bottom	4.8	-	-	27.4	27.4	8.1	8.1	26.5	26.5	90.1	90.2	6.2	6.2	18.2	18	18	-	-											
						4.8	-	-	27.4	27.4	8.1	8.1	26.5	26.5	90.2	90.2	6.2	6.2	18.2	17	17	-	-											

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

Water Quality Monitoring

Water Quality Monitoring Results on 11 October 18 during Mid-Ebb Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)				
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA	
C1	Cloudy	Rough	13:50	8.8	Surface	1.0	0.4	102	26.8	26.8	8.2	8.2	28.2	28.2	93.2	93.2	6.4	6.4	12.4	13.4	10	10	87	90	815611	804252	<0.2	0.6					
						1.0	0.4	102	26.8	26.8	8.2	8.2	28.2	28.2	93.2	93.2	6.4	6.4	12.5	13.4	11	10	87	90			<0.2	0.7					
					Middle	4.4	0.3	71	26.9	26.9	8.2	8.2	28.6	28.6	92.0	92.0	6.3	6.3	13.4	13.5	9	11	89	90			<0.2	0.6					
						4.4	0.3	77	26.9	26.9	8.2	8.2	28.6	28.6	92.0	92.0	6.3	6.3	13.5	14.4	11	11	89	92			<0.2	0.8					
					Bottom	7.8	0.1	32	26.9	26.9	8.1	8.1	29.1	29.1	90.9	90.9	6.2	6.2	14.4	14.4	11	10	92	93			<0.2	0.9					
						7.8	0.1	32	26.9	26.9	8.1	8.1	29.1	29.1	90.9	90.9	6.2	6.2	14.4	14.4	10	10	93	93			<0.2	0.8					
C2	Cloudy	Moderate	12:57	12.1	Surface	1.0	0.3	334	27.0	27.0	8.1	8.1	25.5	25.5	86.7	86.7	6.0	6.0	11.5	16.6	12	11	85	86	825655	806954	<0.2	1.5					
						1.0	0.3	353	27.0	27.0	8.1	8.1	25.5	25.5	86.7	86.7	6.0	6.0	11.5	16.6	12	11	84	88			<0.2	1.5					
					Middle	6.1	0.3	1	26.9	26.9	8.1	8.1	25.9	25.9	87.5	87.5	6.0	6.0	16.2	16.2	10	10	86	86			<0.2	1.5					
						6.1	0.3	1	26.9	26.9	8.1	8.1	25.9	25.9	87.5	87.5	6.0	6.0	16.2	16.2	10	10	86	88			<0.2	1.6					
					Bottom	11.1	0.3	2	26.9	26.9	8.1	8.1	26.0	26.0	88.2	88.2	6.1	6.1	22.2	22.2	11	10	88	85			<0.2	1.4					
						11.1	0.3	2	26.9	26.9	8.1	8.1	26.0	26.0	88.2	88.2	6.1	6.1	22.2	22.2	10	10	85	85			<0.2	1.6					
C3	Cloudy	Moderate	14:53	12.2	Surface	1.0	0.0	102	27.2	27.2	8.1	8.1	28.0	28.0	83.9	83.9	5.7	5.7	4.7	5.5	10	10	87	88	822113	817794	<0.2	1.4					
						1.0	0.0	110	27.2	27.2	8.1	8.1	28.0	28.0	83.8	83.8	5.7	5.7	4.7	5.5	10	10	85	88			<0.2	1.4					
					Middle	6.1	0.2	61	27.2	27.2	8.1	8.1	28.3	28.3	82.4	82.4	5.6	5.6	5.6	5.6	9	10	88	88			<0.2	1.4					
						6.1	0.2	64	27.2	27.2	8.1	8.1	28.3	28.3	82.4	82.4	5.6	5.6	5.6	5.6	9	10	88	89			<0.2	1.5					
					Bottom	11.2	0.3	41	27.2	27.2	8.1	8.1	28.6	28.6	82.9	82.9	5.6	5.6	6.2	6.2	10	10	89	91			<0.2	1.4					
						11.2	0.3	43	27.2	27.2	8.1	8.1	28.6	28.6	82.9	82.9	5.6	5.6	6.2	6.2	10	10	91	91			<0.2	1.5					
IM1	Cloudy	Moderate	13:30	5.7	Surface	1.0	0.1	313	26.7	26.7	8.1	8.1	26.7	26.7	88.5	88.6	6.1	6.1	15.5	16.9	12	12	83	83	817969	807151	<0.2	0.9					
						1.0	0.1	318	26.7	26.7	8.1	8.1	26.7	26.7	88.7	88.7	6.1	6.1	15.4	15.4	11	11	83	83			<0.2	0.9					
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	85	818151	806144	<0.2	-
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	85			<0.2	-
					Bottom	4.7	0.1	86	26.6	26.6	8.1	8.1	26.8	26.8	89.2	89.2	6.2	6.2	18.3	18.3	13	13	86	87			<0.2	1.0					
						4.7	0.1	89	26.6	26.6	8.1	8.1	26.8	26.8	89.2	89.2	6.2	6.2	18.3	18.3	12	12	87	87			<0.2	1.0					
IM2	Cloudy	Moderate	13:24	8.0	Surface	1.0	0.3	43	26.7	26.7	8.2	8.2	27.4	27.4	93.0	93.0	6.4	6.4	13.5	14.0	11	10	88	88	818151	806144	<0.2	0.8					
						1.0	0.3	43	26.7	26.7	8.2	8.2	27.4	27.4	92.9	93.0	6.4	6.4	13.6	13.6	10	10	89	87			<0.2	0.9					
					Middle	4.0	0.1	14	26.7	26.7	8.2	8.2	27.5	27.5	91.8	91.8	6.3	6.3	12.2	12.4	9	10	88	87			<0.2	0.9					
						4.0	0.1	14	26.7	26.7	8.2	8.2	27.5	27.5	91.7	91.8	6.3	6.3	12.4	12.4	10	10	87	92			<0.2	1.0					
					Bottom	7.0	0.2	10	26.8	26.8	8.2	8.2	27.6	27.6	90.1	90.1	6.2	6.2	16.0	16.0	10	10	92	92			<0.2	1.0					
						7.0	0.2	10	26.8	26.8	8.2	8.2	27.6	27.6	90.1	90.1	6.2	6.2	16.1	16.1	10	10	92	92			<0.2	1.0					
IM3	Cloudy	Moderate	13:17	8.3	Surface	1.0	0.3	67	26.8	26.8	8.2	8.2	27.4	27.4	92.0	91.9	6.3	6.3	15.1	19.3	13	14	86	86	818784	805577	<0.2	0.9					
						1.0	0.3	69	26.8	26.8	8.2	8.2	27.4	27.4	91.8	92.0	6.3	6.3	15.5	15.5	13	13	86	90			<0.2	0.9					
					Middle	4.2	0.2	56	26.8	26.8	8.2	8.2	27.7	27.7	90.5	90.4	6.2	6.2	22.7	22.4	13	15	90	91			<0.2	0.9					
						4.2	0.3	61	26.8	26.8	8.2	8.2	27.7	27.7	90.2	90.5	6.2	6.2	22.4	22.4	15	16	91	92			<0.2	1.0					
					Bottom	7.3	0.3	63	26.8	26.8	8.2	8.2	28.0	28.0	89.9	89.9	6.1	6.1	20.0	20.0	16	16	92	93			<0.2	1.1					
						7.3	0.3	66	26.8	26.8	8.2	8.2	28.0	28.0	89.9	89.9	6.1	6.1	20.1	20.1	16	16	93	93			<0.2	1.0					
IM4	Cloudy	Moderate	13:08	6.2	Surface	1.0	0.4	18	26.8	26.8	8.2	8.2	27.5	27.5	90.8	90.8	6.2	6.2	13.2	15.5	12	12	86	87	819741	804598	<0.2	1.3					
						1.0	0.4	18	26.8	26.8	8.2	8.2	27.5	27.5	90.8	90.8	6.2	6.2	13.5	13.5	12	12	87	89			<0.2	1.3					
					Middle	3.1	0.3	355	26.8	26.8	8.2	8.2	27.7	27.7	89.4	89.4	6.1	6.1	14.4	14.0	17	15	89	90			<0.2	1.3					
						3.1	0.3	327	26.8	26.8	8.2	8.2	27.7	27.7	89.4	89.4	6.1	6.1	14.0	14.0	15	19	90	94			<0.2	1.4					
					Bottom	5.2	0.5	356	26.9	26.9	8.2	8.2	27.9	27.9	89.0	89.0	6.1	6.1	19.0	19.0	19	18	94	95			<0.2	1.3					
						5.2	0.5	328	26.9	26.9	8.2	8.2	27.9	27.9	88.9	88.9	6.1	6.1	19.1	19.1	18	18	95	95			<0.2	1.3					
IM5	Cloudy	Moderate	12:57	7.6	Surface	1.0	0.4	19	26.7	26.7	8.2	8.2	26.9	26.9	90.7	90.7	6.2	6.2	12.1	14.6	14	13	83	83	820760	804877	<0.2	1.2					
						1.0	0.5	19	26.7	26.7	8.2	8.2	26.9	26.9	90.7	90.7	6.2	6.2	12.2	13	13	14	83	86			<0.2	1.2					
					Middle	3.8	0.5	22	26.8	26.8	8.2	8.2	27.0	27.0	88.8	88.8	6.1	6.1	14.2	14.4	14	15	86	87			<0.2	1.2					
						3.8	0.6	23	26.8	26.8	8.2	8.2	27.0	27.0	88.8	88.8	6.1	6.1	14.4	14.4	15	24	87	89			<0.2	1.3					
					Bottom	6.6	0.3	9	26.8	26.8	8.2	8.2	27.0	27.0	88.6	88.7	6.1	6.1	17.4	17.5	24	24	89	90			<0.2	1.3					
						6.6	0.3	9	26.8	26.8	8.2	8.2	27.0	27.0	88.7	88.7	6.1	6.1	17.5	17.5	24	24	90	90			<0.2	1.4					
IM6	Cloudy	Moderate	12:49	7.8	Surface	1.0	0.1	3	26.8	26.8	8.1	8.1	26.4	26.4	88.8	88.8	6.1	6.1	14.2	16.9	11	13	86	87	821081	805811	<0.2	1.5					
						1.0	0.1	3	26.8	26.8	8.1	8.1	26.4	26.4	88.7	88.8	6.1	6.1	14.2	14.2	10	10	87	91			<0.2	1.5					
					Middle	3.9	0.1	11	26.8	26.8	8.1	8.1	26.4	26.4	87.7	87.8	6.0	6.1	15.3	15.4	10	10	91	91			<0.2	1.5					
						3.9	0.1	11	26.8	26.8	8.1	8.1	26.4	26.4	87.8	87.8	6.1	6.1	15.4	15.4	10	17	91	93			<0.2	1.6					
					Bottom	6.8	0.2	5	26.8	26.8	8.1	8.1	26.5	26.5	86.8	86.7	6.0	6.0	21.1	21.1	17	17	93	94			<0.2	1.6					
						6.8	0.2	5	26.8	26.8	8.1	8.1	26.5	26.5	86.7	86.8	6.0	6.0	21.1	21.1	17	17	94	94			<0.2	1.6					
IM7	Cloudy	Moderate	12:41	8.9	Surface	1.0	0.2	295	26.9	26.9	8.1	8.1	24.8	24.8	86.4	86.4	6.0	6.0	14.1	18.1	12	13	87	87	821321	806828	<0.2	1.6					
						1.0	0.2	312	26.9	26.9	8.1	8.1	24.8	24.8	86.4	86.4	6.0	6.0	14.1	19.1	12	12	87	89			<0.2	1.6					
					Middle	4.5	0.2	291	26.8	26.8	8.2	8.2	25.6	25.6	86.4	86.5	6.0	6.0	19.1	19.2	13	13	89	90			<0.2	1.5					
						4.5	0.2	294	26.8	26.8	8.2	8.2	25.6	25.6	86.5	86.5	6.0	6.0	19.2	13	13	15	90	92			<0.2	1.6					
					Bottom	7.9	0.1	302	26.8	26.8	8.2	8.2	26.0	26.0	86.3	86.2	6.0	6.0	21.1	21.1	15	13	92	92			<0.2	1.6					
						7.9	0.1	318	26.8	26.8	8.2	8.2	26.0	26.0	86.1	86.1	6.0	6.0	21.1	21.1	13	13	92	92			<0.2	1.5					
IM8	Cloudy	Moderate	13:22	7.6	Surface	1.0	0.2	131	26.9	26.9	8.1	8.1	25.5	25.5	87.6	87.6	6.1	6.1	12.3	14.7	13	14	83	83	821858	808136	<0.2	1.5					
						1.0	0.2	135	26.9	26.9	8.1	8.1	25.5	25.5	87.																		

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

Water Quality Monitoring

Water Quality Monitoring Results on 11 October 18 during Mid-Ebb Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)		
									Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value
IM9	Cloudy	Moderate	13:29	7.7	Surface	1.0	0.1	63	26.9	26.9	8.2	8.2	25.8	25.8	87.9	87.9	6.1		18.4		15		84		822075	808808	<0.2		1.6		
						1.0	0.1	63	26.9	26.9	8.2	8.2	25.8	25.8	87.9	87.9	6.1		18.4		16		83				<0.2		1.5		
					Middle	3.9	0.1	58	26.8	26.8	8.2	8.2	26.1	26.1	88.9	88.9	6.1	6.1	14.1		15		86				<0.2		1.3		
						3.9	0.1	60	26.8		8.2	8.2	26.1	26.1	88.9	88.9	6.1		14.1		14		85				<0.2		1.4		
					Bottom	6.7	0.2	36	26.8	26.8	8.1	8.1	26.1	26.1	90.7	90.7	6.3	6.3	18.3		12		88				<0.2		2.1		
						6.7	0.2	38	26.8	26.8	8.1	8.1	26.1	26.1	90.7	90.7	6.3	6.3	18.3		10		88				<0.2		1.4		
IM10	Cloudy	Moderate	13:36	7.4	Surface	1.0	0.1	40	27.0	27.0	8.2	8.2	26.2	26.2	87.4	87.4	6.0		14.0		13		85		822367	809774	<0.2		1.5		
						1.0	0.1	43	27.0	26.9	8.2	8.2	26.2	26.2	87.4	87.4	6.0	6.0	14.0		13		84				<0.2		1.8		
					Middle	3.7	0.1	40	26.9	26.9	8.2	8.2	26.3	26.3	87.5	87.5	6.0		17.8		13		87				<0.2		1.4		
						3.7	0.1	42	26.9		8.2	8.2	26.3	26.3	87.5	87.5	6.0		17.8		11		87				<0.2		1.6		
					Bottom	6.4	0.1	44	26.8	26.8	8.2	8.2	26.5	26.5	87.8	87.8	6.1	6.1	17.4		12		89				<0.2		1.5		
						6.4	0.1	46	26.8	26.8	8.2	8.2	26.5	26.5	87.8	87.8	6.1	6.1	17.4		11		88				<0.2		1.6		
IM11	Cloudy	Moderate	13:48	8.4	Surface	1.0	0.1	271	27.0	27.0	8.1	8.1	26.6	26.6	86.3	86.3	5.9		14.5		11		85		822054	811453	<0.2		1.4		
						1.0	0.1	272	27.0		8.1	8.1	26.6	26.6	86.3	86.3	5.9	6.0	14.5		11		87				<0.2		1.5		
					Middle	4.2	0.1	246	27.1	27.1	8.1	8.1	26.7	26.7	86.8	86.8	6.0		18.8		11		87				<0.2		1.5		
						4.2	0.1	250	27.1		8.1	8.1	26.7	26.7	86.8	86.8	6.0		18.8		10		88				<0.2		1.4		
					Bottom	7.4	0.1	214	27.1	27.1	8.1	8.1	26.7	26.7	88.3	88.3	6.1	6.1	20.8		11		89				<0.2		1.4		
						7.4	0.1	232	27.1	27.1	8.1	8.1	26.7	26.7	88.3	88.3	6.1	6.1	20.8		11		91				<0.2		1.5		
IM12	Cloudy	Moderate	13:57	7.9	Surface	1.0	0.1	60	27.0	27.0	8.1	8.1	26.4	26.4	87.5	87.5	6.0		9.2		11		86		821474	812063	<0.2		2.2		
						1.0	0.1	63	27.0	27.0	8.1	8.1	26.4	26.4	87.5	87.5	6.0	6.1	9.2		10		87				<0.2		1.5		
					Middle	4.0	0.2	51	27.0	27.0	8.1	8.1	26.4	26.4	88.1	88.1	6.1		10.0		14		88				<0.2		1.4		
						4.0	0.2	53	27.0		8.1	8.1	26.4	26.4	88.1	88.1	6.1		10.0		15		87				<0.2		1.6		
					Bottom	6.9	0.2	48	27.0	27.0	8.1	8.1	26.4	26.4	90.5	90.5	6.2	6.2	10.3		13		85				<0.2		1.7		
						6.9	0.2	51	27.0	27.0	8.1	8.1	26.4	26.4	90.5	90.5	6.2	6.2	10.3		11		86				<0.2		1.3		
SR2	Cloudy	Moderate	14:21	4.3	Surface	1.0	0.1	63	27.0	27.0	8.1	8.1	26.5	26.5	88.2	88.2	6.1		9.0		11		87		821458	814144	<0.2		1.4		
						1.0	0.2	68	27.0		8.1	8.1	26.5	26.5	88.2	88.2	6.1	6.1	9.0		10		86				<0.2		1.2		
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.1	-	10	-	88				<0.2		-	
						-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-					-		-	
					Bottom	3.3	0.1	134	26.9	26.9	8.1	8.1	26.6	26.6	91.7	91.8	6.3	6.3	9.3		10		89				<0.2		1.4		
						3.3	0.1	134	26.9	26.9	8.1	8.1	26.6	26.6	91.8	91.8	6.3	6.3	8.9		9		90				<0.2		1.4		
SR3	Cloudy	Moderate	13:16	8.2	Surface	1.0	0.3	68	26.8	26.8	8.1	8.1	26.2	26.2	89.0	89.0	6.1		18.6		10		-		822173	807570	-		-		
						1.0	0.3	73	26.8	26.8	8.1	8.1	26.2	26.2	89.0	89.0	6.1	6.2	18.6		12		-				-		-		
					Middle	4.1	0.3	78	26.8	26.8	8.1	8.1	26.5	26.5	89.3	89.3	6.2		14.9		11		-				-		-		
						4.1	0.4	85	26.8		8.1	8.1	26.5	26.5	89.3	89.3	6.2		14.9		10		-				-		-		
					Bottom	7.2	0.2	55	26.8	26.8	8.1	8.1	26.7	26.7	89.8	89.8	6.2	6.2	18.9		12		-				-		-		
						7.2	0.3	59	26.8	26.8	8.1	8.1	26.7	26.7	89.8	89.8	6.2	6.2	18.9		10		-				-		-		
SR4A	Cloudy	Moderate	14:10	8.5	Surface	1.0	0.3	56	26.7	26.7	8.1	8.1	27.1	27.1	90.5	90.4	6.2		22.0		18		-		817199	807810	-		-		
						1.0	0.3	60	26.7	26.7	8.1	8.1	27.1	27.1	90.3	90.3	6.2	6.2	22.0		17		-				-		-		
					Middle	4.3	0.2	55	26.7	26.7	8.1	8.1	27.1	27.1	90.2	90.2	6.2		20.3		18		-				-		-		
						4.3	0.3	58	26.7		8.1	8.1	27.1	27.1	90.2	90.2	6.2		20.5		19		-				-		-		
					Bottom	7.5	0.2	54	26.7	26.7	8.1	8.1	27.1	27.1	89.8	89.8	6.2	6.2	24.3		18		-				-		-		
						7.5	0.2	58	26.7	26.7	8.1	8.1	27.1	27.1	89.8	89.8	6.2	6.2	24.3		19		-				-		-		
SR5A	Cloudy	Moderate	14:25	5.0	Surface	1.0	0.1	1	26.8	26.8	8.1	8.1	26.5	26.5	86.2	86.3	5.9		13.8		12		-		816600	810689	-		-		
						1.0	0.1	1	26.8		8.1	8.1	26.5	26.5	86.3	86.3	6.0	6.0	13.8		12		-				-		-		
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.3	-	11	-	-				-		-	
						-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-					-		-	
					Bottom	4.0	0.1	9	26.8	26.8	8.1	8.1	26.5	26.5	88.0	88.1	6.1	6.1	14.8		10		-				-		-		
						4.0	0.1	9	26.8		8.1	8.1	26.5	26.5	88.1	88.1	6.1	6.1	14.8		10		-				-		-		
SR6	Cloudy	Moderate	14:53	4.8	Surface	1.0	0.1	62	27.0	27.0	8.1	8.1	26.1	26.1	87.4	87.4	6.0		11.0		10		-		817914	814644	-		-		
						1.0	0.1	62	27.0		8.1	8.1	26.1	26.1	87.3	87.3	6.0	6.0	11.0		10		-				-		-		
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10.8	-	11	-	-				-		-	
						-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-					-		-	
					Bottom	3.8	0.1	60	26.9	26.9	8.1	8.1	26.1	26.1	88.8	88.9	6.1	6.1	10.5		11		-				-		-		
						3.8	0.1	62	26.9	26.9	8.1	8.1	26.1	26.1	89.0	88.9	6.1	6.1	10.5		11		-				-		-		
SR7	Cloudy	Moderate	15:21	15.4	Surface	1.0	0.4	86	27.2	27.2	8.1	8.1	28.4	28.4	82.5	82.5	5.6		5.1		11		-		823627	823765	-		-		
						1.0	0.4	94	27.2	27.2	8.1	8.1	28.4	28.4	82.5	82.5	5.6	5.6	5.1		12		-				-		-		
					Middle	7.7	0.3	74	27.2	27.2	8.1	8.1	28.6	28.6	82.1	82.1	5.6		7.1		11		-				-		-		
						7.7	0.3	75	27.2		8.1	8.1	28.6	28.6	82.1	82.1	5.6		7.1		12		-				-		-		
					Bottom	14.4	0.1	73	27.2	27.2	8.1	8.1	28.8	28.8	83.9	83.9	5.7	5.7	9.2		13		-				-		-		
						14.4	0.1	79	27.2	27.2	8.1	8.1	28.8	28.8	83.9	83.9	5.7	5.7	9.2		12		-				-		-		
SR8	Cloudy	Moderate	14:07	4.6	Surface	1.0	-	-	26.8	26.8	8.2	8.2	26.1	26.1	91.7	91.7	6.3		11.8		13		-		820527	811662	-		-		
						1.0	-	-	26.8		8.2	8.2	26.1	26.1	91.7	91.7	6.3	6.3	11.8		13		-				-		-		
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.6	-	11	-	-				-		-	
						-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-					-		-	
					Bottom	3.6	-	-	26.8	26.8	8.1	8.1	26.2	26.2	93.1	93.1	6.4	6.4	17.3		9		-				-		-		

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

Water Quality Monitoring

Water Quality Monitoring Results on 11 October 18 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)		
									Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value
C1	Cloudy	Rough	07:48	8.9	Surface	1.0	0.7	51	26.7	26.7	8.2	8.2	27.2	27.2	90.9	90.9	6.2		16.2		20		86		90	815612	804218	<0.2	1.1		
						1.0	0.7	54	26.7		8.2		27.2	90.9	6.2		16.2		18		87		<0.2	1.2							
					Middle	4.5	0.6	37	26.9	26.9	8.2	8.2	28.5	28.5	90.2	90.2	6.1	6.2	37.6		14		90					<0.2	1.2		
						4.5	0.6	40	26.9		8.2		28.5	90.2	6.1		38.0		16		91		<0.2	1.0							
					Bottom	7.9	0.5	32	27.0	27.0	8.1	8.1	29.0	29.0	88.6	88.6	6.0	6.0	59.0		13		93					<0.2	1.0		
						7.9	0.5	32	27.0		8.1		29.0	88.5	88.6	6.0		58.7		13		92		<0.2	1.0						
C2	Cloudy	Moderate	09:29	12.2	Surface	1.0	0.4	357	27.0	27.0	8.1	8.1	25.1	25.1	85.6	85.6	5.9		15.0		8		83		86	825670	806937	<0.2	1.5		
						1.0	0.4	328	27.0		8.1		25.1	85.6	5.9		15.0		7		84		<0.2	1.4							
					Middle	6.1	0.4	1	26.9	26.9	8.1	8.1	25.7	25.7	86.1	86.1	6.0	6.0	11.3		6		85					<0.2	1.4		
						6.1	0.4	1	26.9		8.1		25.7	86.1	6.0		11.3		7		87		<0.2	1.4							
					Bottom	11.2	0.4	352	26.9	26.9	8.1	8.1	25.6	25.6	88.0	88.0	6.1	6.1	13.6		7		88					<0.2	1.4		
						11.2	0.4	324	26.9		8.1		25.6	88.0	88.0	6.1		13.6		6		87		<0.2	1.4						
C3	Cloudy	Moderate	07:30	11.5	Surface	1.0	0.5	256	27.1	27.1	8.1	8.1	26.8	26.8	84.6	84.6	5.8		14.0		10		85		88	822123	817800	<0.2	1.5		
						1.0	0.5	262	27.1		8.1		26.8	84.6	5.8		14.0		10		87		<0.2	1.6							
					Middle	5.8	0.5	253	27.3	27.3	8.1	8.1	27.6	27.6	81.8	81.8	5.6	5.7	14.1		9		86					<0.2	1.5		
						5.8	0.6	261	27.3		8.1		27.6	81.8	5.6		14.1		9		88		<0.2	1.4							
					Bottom	10.5	0.3	252	27.3	27.3	8.1	8.1	27.6	27.6	82.7	82.7	5.6	5.6	15.2		8		89					<0.2	1.4		
						10.5	0.4	261	27.3		8.1		27.6	82.7	82.7	5.6		15.2		9		90		<0.2	1.5						
IM1	Cloudy	Rough	08:05	5.6	Surface	1.0	0.3	10	26.6	26.6	8.1	8.1	26.8	26.8	89.0	89.0	6.1		14.8		12		85		88	817944	807157	<0.2	1.1		
						1.0	0.3	10	26.6		8.1		26.8	89.0	6.1		14.9		12		86		<0.2	1.2							
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	6.1	-		-		-					-		<0.2	-
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	-
					Bottom	4.6	0.1	349	26.6	26.6	8.1	8.1	26.9	26.9	87.1	87.1	6.0	6.0	21.7		20		91					<0.2	1.1		
						4.6	0.1	321	26.6		8.1		26.9	87.1	6.0		21.1		18		91		<0.2	1.2							
IM2	Cloudy	Rough	08:12	7.7	Surface	1.0	0.3	15	26.7	26.7	8.2	8.2	26.9	26.9	89.3	89.3	6.2		11.4		16		86		90	818157	806173	<0.2	1.3		
						1.0	0.4	15	26.7		8.2		26.9	89.3	6.2		11.4		15		87		<0.2	1.2							
					Middle	3.9	0.4	20	26.7	26.7	8.2	8.2	26.9	26.9	88.0	88.1	6.1	6.2	13.5		21		90					<0.2	1.3		
						3.9	0.5	21	26.7		8.2		26.9	88.1	6.1		13.4		24		91		<0.2	1.2							
					Bottom	6.7	0.4	25	26.7	26.7	8.1	8.1	26.9	26.9	86.6	86.6	6.0	6.0	21.8		25		93					<0.2	1.2		
						6.7	0.4	27	26.7		8.1		26.9	86.6	6.0		21.9		23		94		<0.2	1.2							
IM3	Cloudy	Rough	08:18	6.3	Surface	1.0	0.3	348	26.7	26.7	8.2	8.2	27.1	27.1	89.0	89.1	6.1		13.1		15		83		87	818768	805593	<0.2	1.4		
						1.0	0.3	320	26.7		8.2		27.1	89.1	6.1		13.1		13		84		<0.2	1.3							
					Middle	3.2	0.4	19	26.7	26.7	8.2	8.2	27.1	27.1	88.0	88.0	6.1	6.1	14.3		12		86					<0.2	1.2		
						3.2	0.4	20	26.7		8.2		27.1	87.9	6.1		14.7		12		87		<0.2	1.2							
					Bottom	5.3	0.4	6	26.8	26.8	8.1	8.1	27.2	27.2	85.8	85.8	5.9	5.9	20.4		23		89					<0.2	1.2		
						5.3	0.4	6	26.8		8.1		27.2	85.7	85.8	5.9		20.4		24		91		<0.2	1.2						
IM4	Cloudy	Rough	08:27	8.3	Surface	1.0	0.4	20	26.7	26.7	8.2	8.2	26.8	26.8	89.6	89.7	6.2		11.0		14		86		90	819701	804622	<0.2	1.1		
						1.0	0.4	20	26.7		8.2		26.8	89.7	6.2		11.0		16		86		<0.2	1.0							
					Middle	4.2	0.5	16	26.8	26.8	8.2	8.2	27.1	27.1	88.7	88.7	6.1	6.2	18.1		15		89					<0.2	1.2		
						4.2	0.5	16	26.8		8.2		27.1	88.6	6.1		18.2		14		91		<0.2	1.0							
					Bottom	7.3	0.4	8	26.8	26.8	8.2	8.2	27.1	27.1	88.0	88.0	6.0	6.0	21.2		24		93					<0.2	1.4		
						7.3	0.4	8	26.8		8.2		27.1	88.0	88.0	6.0		21.1		22		93		<0.2	1.1						
IM5	Cloudy	Rough	08:34	7.5	Surface	1.0	0.5	14	26.7	26.7	8.2	8.2	26.7	26.7	89.9	89.9	6.2		16.7		17		86		91	820741	804889	<0.2	1.2		
						1.0	0.6	14	26.7		8.2		26.7	89.9	6.2		16.7		16		87		<0.2	1.2							
					Middle	3.8	0.4	356	26.7	26.7	8.2	8.2	26.8	26.8	88.5	88.5	6.1	6.2	20.1		26		90					<0.2	1.2		
						3.8	0.4	328	26.7		8.2		26.8	88.5	6.1		20.4		28		91		<0.2	1.2							
					Bottom	6.5	0.4	6	26.7	26.7	8.1	8.1	26.8	26.8	86.9	86.9	6.0	6.0	22.3		28		94					<0.2	1.2		
						6.5	0.4	6	26.7		8.1		26.8	86.8	86.9	6.0		22.3		27		95		<0.2	1.1						
IM6	Cloudy	Rough	08:40	7.6	Surface	1.0	0.3	35	26.8	26.8	8.2	8.2	26.2	26.2	89.2	89.2	6.2		16.1		13		89		89	821069	805853	<0.2	1.2		
						1.0	0.3	36	26.8		8.2		26.2	89.2	6.2		16.2		14		90		<0.2	1.2							
					Middle	3.8	0.2	357	26.8	26.8	8.2	8.2	26.4	26.4	87.3	87.3	6.0	6.1	17.7		20		83					<0.2	1.3		
						3.8	0.2	328	26.8		8.2		26.4	87.3	6.0		17.9		20		84		<0.2	1.2							
					Bottom	6.6	0.3	328	26.8	26.8	8.1	8.1	26.6	26.6	87.3	87.3	6.0	6.0	21.5		19		93					<0.2	1.2		
						6.6	0.4	328	26.8		8.1		26.5	86.2	86.3	5.9		21.7		17		93		<0.2	1.2						
IM7	Cloudy	Rough	08:47	9.1	Surface	1.0	0.1	16	26.9	26.9	8.1	8.1	24.8	24.8	86.1	86.2	6.0		13.6		11		88		91	821361	806840	<0.2	1.4		
						1.0	0.1	17	26.9		8.1		24.8	86.2	6.0		13.7		12		89		<0.2	1.5							
					Middle	4.6	0.1	315	26.9	26.9	8.1	8.1	25.5	25.4	85.6	85.6	5.9	6.0	16.8		15		90					<0.2	1.4		
						4.6	0.1	319	26.9		8.1		25.4	85.5	5.9		16.9		13		91		<0.2	1.5							
					Bottom	8.1	0.0	58	26.8	26.8	8.1	8.1	25.7	25.7	85.2	85.2	5.9	5.9	21.0		12		93					<0.2	1.4		
						8.1	0.0	62	26.8		8.1		25.7	85.2	5.9		21.0		14		94		<0.2	1.4							
IM8	Cloudy	Moderate	08:58	7.6	Surface	1.0	0.6	57	26.9	26.9	8.1	8.1	25.4	25.4	86.1	86.1	6.0		17.0		16		83		86	821829	808129	<0.2	1.5		
						1.0	0.6	57	26.9		8.1		25.4	86.1	6.0		17.0		14		84		<0.2	1.5							
					Middle	3.8	0.6	50	26.9	26.9	8.1	8.1	25.6	25.6	86.5	86.5	6.0	6.0	16.5		16		85					<0.2	1.4		
						3.8	0.6	50	26.9		8.1		25.6	86.5	6.0		16.5		16		87		<0.2	1.2							
					Bottom	6.6	0.4	54	26.8	26.8	8.2	8.2	26.3	26.3	87.6	87.6	6.0	6.0	16.2		18		88					<0.2	1.5		
						6.6	0.5	56	26.8		8.2		26.3	87.6	87.6	6.0		16.2		19		88		<0.2	1.4						

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

Water Quality Monitoring

Water Quality Monitoring Results on 11 October 18 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)					
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA	Value	DA
IM9	Cloudy	Moderate	08:51	7.5	Surface	1.0	0.1	41	26.9	26.9	8.1	8.1	25.5	25.5	86.5	86.5	6.0		11.1		15		84		822118	808796	<0.2	1.4	1.4					
						1.0	0.1	42	26.9	26.9	8.1	8.1	25.5	25.5	86.5	86.5	6.0		11.1		16		83											
					Middle	3.8	0.3	60	26.9	26.9	8.1	8.1	25.5	25.5	87.1	87.1	6.0	6.0	12.4		14		85											
						3.8	0.3	64	26.9	26.9	8.1	8.1	25.5	25.5	87.1	87.1	6.0	6.0	12.4		14		86											
					Bottom	6.5	0.3	80	26.9	26.9	8.1	8.1	25.8	25.8	88.4	88.4	6.1	6.1	13.5		14		89											
						6.5	0.3	81	26.9	26.9	8.1	8.1	25.8	25.8	88.4	88.4	6.1	6.1	13.5		14		88											
IM10	Cloudy	Moderate	08:40	7.2	Surface	1.0	0.2	60	27.0	27.0	8.2	8.2	25.6	25.6	86.3	86.3	6.0		14.5		20		85		822363	809787	<0.2	1.5	1.5					
						1.0	0.2	65	27.0	27.0	8.2	8.2	25.6	25.6	86.3	86.3	6.0	6.0	14.5		19		85											
					Middle	3.6	0.1	39	27.0	27.0	8.2	8.2	25.8	25.8	86.4	86.4	6.0	6.0	16.6		19		86											
						3.6	0.1	42	27.0	27.0	8.2	8.2	25.8	25.8	86.4	86.4	6.0	6.0	16.6		20		87											
					Bottom	6.2	0.3	4	26.9	26.9	8.1	8.1	26.4	26.4	86.7	86.7	6.0	6.0	16.2		20		88											
						6.2	0.4	4	26.9	26.9	8.1	8.1	26.4	26.4	86.7	86.7	6.0	6.0	16.2		18		85											
IM11	Cloudy	Moderate	08:29	8.2	Surface	1.0	0.4	344	27.1	27.1	8.2	8.2	26.6	26.6	85.9	85.9	5.9		12.8		22		85		822045	811463	<0.2	1.6	1.5					
						1.0	0.4	316	27.1	27.1	8.2	8.2	26.6	26.6	85.9	85.9	5.9	5.9	12.8		20		84											
					Middle	4.1	0.4	332	27.1	27.1	8.2	8.2	26.6	26.6	86.3	86.3	5.9	5.9	13.6		22		86											
						4.1	0.4	337	27.1	27.1	8.2	8.2	26.6	26.6	86.3	86.3	5.9	5.9	13.4		21		87											
					Bottom	7.2	0.4	307	27.1	27.1	8.1	8.1	26.6	26.6	87.4	87.4	6.0	6.0	11.3		23		88											
						7.2	0.4	332	27.1	27.1	8.1	8.1	26.6	26.6	87.4	87.4	6.0	6.0	11.3		21		88											
IM12	Cloudy	Moderate	08:23	7.8	Surface	1.0	0.4	298	27.1	27.1	8.2	8.2	26.6	26.6	85.7	85.7	5.9		13.8		19		84		821480	812054	<0.2	1.7	1.5					
						1.0	0.5	299	27.1	27.1	8.2	8.2	26.6	26.6	85.7	85.7	5.9	5.9	13.8		21		87											
					Middle	3.9	0.4	293	27.1	27.1	8.1	8.1	26.7	26.7	86.0	86.0	5.9	5.9	11.7		19		87											
						3.9	0.4	316	27.1	27.1	8.1	8.1	26.7	26.7	86.0	86.0	5.9	5.9	11.7		19		88											
					Bottom	6.8	0.2	295	27.1	27.1	8.1	8.1	26.7	26.7	87.2	87.2	6.0	6.0	16.1		24		90											
						6.8	0.2	321	27.1	27.1	8.1	8.1	26.7	26.7	87.2	87.2	6.0	6.0	16.1		24		89											
SR2	Cloudy	Moderate	07:54	3.7	Surface	1.0	0.4	316	27.1	27.1	8.1	8.1	26.6	26.6	85.8	85.8	5.9		15.8		20		86		821473	814170	<0.2	1.5	1.4					
						1.0	0.4	320	27.1	27.1	8.1	8.1	26.6	26.6	85.8	85.8	5.9	5.9	15.8		21		85											
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						-	-	-	-	-
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						-	-	-	-	-
					Bottom	2.7	0.3	301	27.1	27.1	8.1	8.1	26.6	26.6	86.5	86.5	5.9	5.9	22.1		9		88											
						2.7	0.3	315	27.1	27.1	8.1	8.1	26.6	26.6	86.5	86.5	5.9	5.9	22.1		10		88											
SR3	Cloudy	Moderate	09:06	8.2	Surface	1.0	0.5	75	26.8	26.8	8.2	8.2	26.0	26.0	87.8	87.8	6.1		16.4		21		-		822165	807555	-	-	-					
						1.0	0.6	76	26.8	26.8	8.2	8.2	26.0	26.0	87.8	87.8	6.1	6.1	16.4		20		-											
					Middle	4.1	0.5	80	26.8	26.8	8.2	8.2	26.3	26.3	88.2	88.2	6.1	6.1	14.2		19		-											
						4.1	0.6	84	26.8	26.8	8.2	8.2	26.3	26.3	88.2	88.2	6.1	6.1	14.2		20		-											
					Bottom	7.2	0.5	85	26.8	26.8	8.2	8.2	26.4	26.4	89.0	89.0	6.1	6.1	15.8		20		-											
						7.2	0.5	92	26.8	26.8	8.2	8.2	26.4	26.4	89.0	89.0	6.1	6.1	15.8		20		-											
SR4A	Cloudy	Moderate	07:26	9.8	Surface	1.0	0.3	55	26.8	26.8	8.1	8.1	26.6	26.6	83.5	83.5	5.8		15.5		14		-		817187	807834	-	-	-					
						1.0	0.3	58	26.8	26.8	8.1	8.1	26.6	26.6	83.5	83.5	5.8	5.8	15.5		15		-											
					Middle	4.9	0.3	67	26.7	26.7	8.0	8.0	26.6	26.6	83.1	83.1	5.7	5.7	21.0		14		-											
						4.9	0.3	70	26.7	26.7	8.0	8.0	26.6	26.6	83.0	83.0	5.7	5.7	21.2		14		-											
					Bottom	8.8	0.2	60	26.7	26.7	8.0	8.0	26.8	26.8	79.8	79.7	5.5	5.5	26.3		13		-											
						8.8	0.2	61	26.7	26.7	8.0	8.0	26.8	26.8	79.5	79.5	5.5	5.5	26.4		13		-											
SR5A	Cloudy	Calm	07:10	4.4	Surface	1.0	0.1	305	26.8	26.8	8.0	8.0	26.4	26.4	81.0	80.8	5.6		13.0		16		-		816583	810707	-	-	-					
						1.0	0.1	334	26.8	26.8	8.0	8.0	26.4	26.4	80.5	80.5	5.6	5.6	13.0		15		-											
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						-	-	-	-	-
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						-	-	-	-	-
					Bottom	3.4	0.0	312	26.8	26.8	7.9	7.9	26.4	26.4	77.6	77.5	5.4	5.4	13.6		14		-											
						3.4	0.0	329	26.8	26.8	7.9	7.9	26.4	26.4	77.5	77.5	5.3	5.3	13.6		15		-											
SR6	Cloudy	Calm	06:44	4.6	Surface	1.0	0.1	254	27.0	27.0	8.0	8.0	26.3	26.3	85.8	85.9	5.9		17.1		18		-		817923	814654	-	-	-					
						1.0	0.2	264	27.0	27.0	8.0	8.0	26.3	26.3	85.9	85.9	5.9	5.9	17.2		17		-											
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						-	-	-	-	-
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						-	-	-	-	-
					Bottom	3.6	0.1	258	27.0	27.0	8.0	8.0	26.3	26.3	86.7	86.7	6.0	6.0	19.4		19		-											
						3.6	0.1	271	27.0	27.0	8.0	8.0	26.3	26.3	86.8	86.8	6.0	6.0	19.5		17		-											
SR7	Cloudy	Moderate	06:59	16.4	Surface	1.0	0.1	50	27.2	27.2	8.1	8.1	27.9	27.9	82.1	82.1	5.6		10.9		13		-		823662	823751	-	-	-					
						1.0	0.2	51	27.2	27.2	8.1	8.1	27.9	27.9	82.1	82.1	5.6	5.6	10.9		12		-											
					Middle	8.2	0.3	82	27.2	27.2	8.1	8.1	28.0	28.0	81.4	81.4	5.5	5.5	12.9		11		-											
						8.2	0.3	89	27.2	27.2	8.1	8.1	28.0	28.0	81.4	81.4	5.5	5.5	12.9		12		-											
					Bottom	15.4	0.2	90	27.2	27.2	8.1	8.1	28.0	28.0	81.3	81.3	5.5	5.5	13.3		12		-											
						15.4	0.2	95	27.2	27.2	8.1	8.1	28.0	28.0	81.3	81.3	5.5	5.5	13.3		12		-											
SR8	Cloudy	Moderate	08:08	4.1	Surface	1.0	-	-	27.0	27.0	8.1	8.1	26.2	26.2	87.0	87.0	6.0		12.0		16		-		820484	811633	-	-	-					
						1.0	-	-	27.0	27.0	8.1	8.1	26.2	26.2	87.0	87.0	6.0	6.0	12.0		16		-											
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						-	-	-	-	-
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						-	-	-	-	-
					Bottom	3.1	-	-	26.9	26.9	8.1	8.1	26.3	26.3	87.6	87.6	6.0	6.0	14.3		14		-											
						3.1	-	-	26.9	26.9	8.1	8.1	26.3	26.3	87.6	87.6	6.0	6.0	14.3		14		-											

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

Water Quality Monitoring

Water Quality Monitoring Results on 13 October 18 during Mid-Ebb Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)			
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA
C1	Cloudy	Moderate	14:57	9.1	Surface	1.0	0.1	133	26.6	26.6	8.2	8.2	28.9	28.9	89.2	89.2	6.1	6.1	5.8	6.1	8	8	87	87	815648	804245	<0.2	1.3	1.4			
						1.0	0.1	139	26.6	26.6	8.2	8.2	28.9	28.9	89.2	89.2	6.1	6.1	5.9	10	86	86	<0.2	1.3								
					Middle	4.6	0.1	357	26.5	26.5	8.2	8.2	29.1	29.1	88.1	88.1	6.0	6.1	7.9	12	90	90	<0.2	1.4								
						4.6	0.1	338	26.5	26.5	8.2	8.2	29.1	29.1	88.0	88.1	6.0	6.0	7.9	12	91	91	<0.2	1.4								
					Bottom	8.1	0.0	326	26.4	26.4	8.2	8.2	29.4	29.4	87.5	87.6	6.0	6.0	13.0	13	93	93	<0.2	1.4								
						8.1	0.0	327	26.4	26.4	8.2	8.2	29.4	29.4	87.6	87.6	6.0	6.0	12.9	13	92	92	<0.2	1.5								
C2	Cloudy	Moderate	14:01	11.8	Surface	1.0	0.2	33	26.6	26.6	8.1	8.1	27.0	27.0	83.5	83.5	5.8	5.8	5.4	5.4	18	19	83	82	825704	806936	<0.2	1.2	1.3			
						1.0	0.2	35	26.6	26.6	8.1	8.1	27.0	27.0	83.5	83.5	5.8	5.8	5.4	19	82	82	<0.2	1.5								
					Middle	5.9	0.3	51	26.6	26.6	8.1	8.1	27.1	27.1	82.6	82.6	5.7	5.8	6.7	21	87	87	<0.2	1.2								
						5.9	0.3	53	26.6	26.7	8.1	8.1	27.1	28.1	82.5	81.9	5.7	5.6	6.7	21	86	90	<0.2	1.4								
					Bottom	10.8	0.2	59	26.7	26.7	8.1	8.1	28.1	28.1	81.9	81.9	5.6	5.6	12.1	24	90	90	<0.2	1.4								
						10.8	0.2	59	26.7	26.7	8.1	8.1	28.1	28.1	81.9	81.9	5.6	5.6	12.1	25	90	90	<0.2	1.3								
C3	Cloudy	Moderate	15:58	11.8	Surface	1.0	0.4	58	27.0	27.0	8.2	8.2	30.5	30.5	85.9	85.9	5.8	5.8	3.1	3.1	10	10	87	86	822114	817791	<0.2	1.3	1.2			
						1.0	0.4	58	27.0	27.0	8.2	8.2	30.5	30.5	85.9	85.9	5.8	5.8	3.1	10	86	90	<0.2	1.1								
					Middle	5.9	0.3	83	27.0	27.0	8.2	8.2	30.5	30.5	84.8	84.8	5.7	5.7	3.8	11	90	91	<0.2	1.3								
						5.9	0.4	84	27.0	26.8	8.2	8.2	30.5	30.7	84.8	83.7	5.7	5.6	3.9	12	91	94	<0.2	1.3								
					Bottom	10.8	0.2	82	26.8	26.8	8.2	8.2	30.7	30.7	83.7	83.7	5.6	5.6	7.8	11	94	94	<0.2	1.2								
						10.8	0.3	88	26.8	26.5	8.2	8.2	30.7	30.7	83.7	83.7	5.6	5.6	7.8	12	94	94	<0.2	1.2								
IM1	Cloudy	Moderate	14:39	5.4	Surface	1.0	0.1	177	26.5	26.5	8.2	8.2	29.3	29.3	88.2	88.2	6.0	6.0	5.9	9	87	86	817920	807135	<0.2	1.4	1.3					
						1.0	0.1	194	26.5	26.5	8.2	8.2	29.3	29.3	88.2	88.2	6.0	6.0	5.9	9	86	86			<0.2	1.3						
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-		-	-	-	<0.2	-
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-		-	-	-	-	-
					Bottom	4.4	0.1	185	26.5	26.5	8.2	8.2	29.4	29.4	88.0	88.0	6.0	6.0	6.9	12	90	90			<0.2	1.2						
						4.4	0.1	186	26.5	26.5	8.2	8.2	29.4	29.4	88.0	88.0	6.0	6.0	6.9	12	92	92			<0.2	1.3						
IM2	Cloudy	Moderate	14:34	7.8	Surface	1.0	0.2	50	26.5	26.5	8.2	8.2	29.4	29.4	87.8	87.8	6.0	6.0	11.1	11	85	86	818151	806161	<0.2	1.3	1.4					
						1.0	0.2	52	26.5	26.5	8.2	8.2	29.4	29.4	87.7	87.8	6.0	6.0	11.2	10	86	90			<0.2	1.3						
					Middle	3.9	0.1	32	26.5	26.5	8.2	8.2	29.4	29.4	87.5	87.5	6.0	6.0	12.4	11	90	91			<0.2	1.4						
						3.9	0.1	33	26.5	26.4	8.2	8.2	29.4	29.4	87.5	87.4	6.0	6.0	12.4	12	91	93			<0.2	1.2						
					Bottom	6.8	0.1	71	26.4	26.4	8.2	8.2	29.4	29.4	87.4	87.4	6.0	6.0	14.4	14	93	94			<0.2	1.6						
						6.8	0.1	74	26.5	26.5	8.2	8.2	29.4	29.4	87.4	87.4	6.0	6.0	14.4	14	94	94			<0.2	1.3						
IM3	Cloudy	Moderate	14:28	8.1	Surface	1.0	0.2	44	26.6	26.6	8.2	8.2	28.6	28.6	89.1	89.1	6.1	6.1	8.2	8.2	11	11	86	85	818762	805600	<0.2	1.6	1.6			
						1.0	0.2	44	26.6	26.5	8.2	8.2	28.6	28.7	89.1	89.1	6.1	6.1	8.2	11	85	91	<0.2	1.6								
					Middle	4.1	0.1	49	26.5	26.5	8.2	8.2	28.7	28.7	88.4	88.4	6.1	6.1	9.5	12	91	91	<0.2	1.7								
						4.1	0.1	53	26.5	26.5	8.2	8.2	28.7	28.7	88.4	88.4	6.1	6.1	9.4	12	91	91	<0.2	1.4								
					Bottom	7.1	0.2	41	26.5	26.5	8.2	8.2	29.2	29.2	88.5	88.5	6.0	6.0	9.6	13	92	91	<0.2	1.4								
						7.1	0.2	41	26.5	26.5	8.2	8.2	29.2	29.2	88.5	88.5	6.0	6.0	9.6	13	91	91	<0.2	1.7								
IM4	Cloudy	Moderate	14:21	8.4	Surface	1.0	0.3	33	26.6	26.6	8.1	8.1	27.8	27.8	87.5	87.5	6.0	6.0	8.0	8.1	10	10	86	87	819741	804624	<0.2	1.3	1.3			
						1.0	0.3	34	26.6	26.5	8.1	8.1	27.8	28.3	87.5	87.4	6.0	6.0	8.1	10	87	90	<0.2	1.3								
					Middle	4.2	0.2	39	26.5	26.5	8.1	8.1	28.3	28.3	87.4	87.4	6.0	6.0	10.5	12	91	91	<0.2	1.2								
						4.2	0.2	41	26.5	26.5	8.1	8.1	28.3	28.3	87.4	87.4	6.0	6.0	10.5	13	90	92	<0.2	1.3								
					Bottom	7.4	0.1	340	26.5	26.5	8.2	8.2	28.6	28.6	87.6	87.6	6.0	6.0	10.3	16	92	92	<0.2	1.2								
						7.4	0.1	347	26.5	26.5	8.2	8.2	28.6	28.6	87.6	87.6	6.0	6.0	10.4	14	92	92	<0.2	1.2								
IM5	Cloudy	Moderate	14:11	7.6	Surface	1.0	0.1	21	26.7	26.7	8.1	8.1	27.7	27.7	88.3	88.3	6.1	6.1	6.5	6.6	10	12	83	84	820712	804853	<0.2	1.5	1.5			
						1.0	0.1	21	26.7	26.6	8.1	8.2	27.7	28.1	88.3	88.0	6.1	6.0	6.6	12	86	88	<0.2	1.7								
					Middle	3.8	0.2	28	26.6	26.6	8.2	8.2	28.1	28.1	88.0	88.0	6.0	6.0	8.1	13	86	88	<0.2	1.5								
						3.8	0.2	30	26.6	26.5	8.2	8.2	28.1	28.8	88.0	88.1	6.0	6.0	8.1	13	88	90	<0.2	1.6								
					Bottom	6.6	0.1	30	26.5	26.5	8.2	8.2	28.8	28.8	88.1	88.1	6.0	6.0	10.6	15	90	91	<0.2	1.2								
						6.6	0.1	31	26.5	26.5	8.2	8.2	28.8	28.8	88.1	88.1	6.0	6.0	10.5	14	91	91	<0.2	1.6								
IM6	Cloudy	Moderate	14:03	8.0	Surface	1.0	0.1	27	26.5	26.5	8.2	8.2	28.2	28.2	88.0	88.0	6.0	6.0	8.8	8.9	16	17	84	83	821053	805822	<0.2	1.4	1.5			
						1.0	0.1	28	26.5	26.4	8.2	8.2	28.2	29.9	88.0	88.9	6.0	6.1	8.9	17	86	87	<0.2	1.6								
					Middle	4.0	0.3	333	26.4	26.4	8.2	8.2	29.9	29.9	88.9	88.8	6.1	6.1	12.6	16	86	87	<0.2	1.5								
						4.0	0.3	340	26.4	26.4	8.2	8.2	29.9	29.9	88.8	88.8	6.1	6.1	12.4	17	87	90	<0.2	1.4								
					Bottom	7.0	0.1	65	26.4	26.4	8.2	8.2	30.0	30.0	88.4	88.4	6.0	6.0	17.9	19	90	90	<0.2	1.8								
						7.0	0.1	68	26.4	26.4	8.2	8.2	30.0	30.0	88.4	88.4	6.0	6.0	17.9	18	90	90	<0.2	1.3								
IM7	Cloudy	Moderate	14:00	9.4	Surface	1.0	0.0	20	26.6	26.6	8.1	8.1	27.0	27.0	83.6	83.6	5.8	5.8	5.1	5.1	11	11	80	81	821329	806836	<0.2	1.3	1.5			
						1.0	0.0	21	26.6	26.6	8.1	8.1	27.0	27.0	83.5	82.9	5.8	5.7	5.1	11	81	85	<0.2	1.2								
					Middle	4.7	0.1	327	26.6	26.6	8.1	8.1	27.0	27.0	82.9	82.9	5.7	5.7	5.8	12	85	86	<0.2	1.5								
						4.7	0.1	339	26.6	26.7	8.1	8.1	27.0	27.3	82.9	82.2	5.7	5.7	5.8	12	86	88	<0.2	1.5								
					Bottom	8.4	0.1	43	26.7	26.7	8.1	8.1	27.3	27.3	82.2	82.2	5.7	5.7	7.2	13	88	89	<0.2	1.6								
						8.4	0.1	43	26.7	26.4	8.1	8.1	27.3	27.3	82.2	82.2	5.7	5.7	7.1	14	89	94	<0.2	1.7								
IM8	Cloudy	Moderate	14:31	8.9	Surface	1.0	0.2	99	26.7	26.7	8.1	8.1	27.7	27.7	88.6	88.6	6.1	6.1	6.9	6.9	13	13	87	87	821827	808168	<0.2	1.6	1.7			
						1.0	0.2	102	26.7	26.5	8.1	8.2	27.7	28.2	88.6	88.8	6.1	6.1	6.9	13	87	91	<0.2	1.6								
					Middle	4.5	0.3	92	26.5	26.5	8.2	8.2	28.2	28.2	88.7	88.8	6.1	6.1	8.9	16	91	91	<0.2	1.6								
						4.5	0.3	94	26.5	26.4	8.2	8.2	28.2	29.2	88.8	90.6	6.1	6.2	8.7	17	91	95	<0.2	1.8								
					Bottom	7.9	0.3	67	26.4	26.4	8.2	8.2	29.2	29.2	90.6	90.6	6.2	6.2	13.5	17	95	94	<0.2	1.8								
						7.9	0.3	70	26.4	26.4	8.2	8.2	29.2	29.2	90.6	90.6	6.2	6.2	13.5	17	94	94	<0.2									

Water Quality Monitoring Results on 13 October 18 during Mid-Ebb Tide

Note: Access to SR8 was blocked by barge and its wires. The monitoring at SR8 was slightly shifted to the closest safe and accessible location temporarily.

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

Water Quality Monitoring

Water Quality Monitoring Results on 13 October 18 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (µg/L)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)							
									Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA	Value	DA		
C1	Cloudy	Moderate	09:32	8.8	Surface	1.0	0.6	55	26.4	26.4	8.2	8.2	29.4	29.4	87.4	87.4	6.0		13.1		11		82		815604	804255		804255	<0.2	2.0	1.9					
						1.0	0.6	55	26.4	26.4	8.2	8.2	29.4	29.4	87.4	87.4	6.0		13.0		11		84						<0.2	1.8						
					Middle	4.4	0.4	52	26.4	26.4	8.2	8.2	29.4	29.4	87.1	87.1	6.0	6.0	16.5		13		87						<0.2	1.9						
						4.4	0.5	53	26.4	26.4	8.2	8.2	29.4	29.4	87.1	87.1	6.0		16.6		12		87						<0.2	1.6						
					Bottom	7.8	0.5	59	26.4	26.4	8.2	8.2	29.4	29.4	87.2	87.2	6.0	6.0	18.4		15		89						<0.2	1.8						
						7.8	0.5	63	26.4	26.4	8.2	8.2	29.4	29.4	87.2	87.2	6.0	6.0	18.4		15		89						<0.2	2.0						
C2	Cloudy	Moderate	11:18	11.6	Surface	1.0	0.3	356	26.6	26.6	8.1	8.1	27.1	27.1	84.6	84.6	5.8		5.1		10		87		825661	806928		806928	<0.2	2.1	1.8					
						1.0	0.3	328	26.6	26.6	8.1	8.1	27.1	27.1	84.6	84.6	5.8		5.2		9		87						<0.2	2.0						
					Middle	5.8	0.3	11	26.7	26.7	8.1	8.1	27.3	27.3	82.3	82.3	5.7	5.8	8.6		10		91						<0.2	1.8						
						5.8	0.3	11	26.7	26.7	8.1	8.1	27.3	27.3	82.3	82.3	5.7		8.7		11		91						<0.2	1.7						
					Bottom	10.6	0.3	294	26.7	26.7	8.1	8.1	28.4	28.4	83.7	83.8	5.7	5.7	16.8		12		95						<0.2	1.6						
						10.6	0.3	303	26.7	26.7	8.1	8.1	28.4	28.4	83.8	83.8	5.7		16.7		12		94						<0.2	1.6						
C3	Cloudy	Moderate	09:30	11.4	Surface	1.0	0.5	255	26.5	26.5	8.2	8.2	29.5	29.5	86.9	86.9	5.9		5.0		9		83		822137	817795		817795	<0.2	1.7	1.7					
						1.0	0.5	256	26.5	26.5	8.2	8.2	29.5	29.5	86.9	86.9	5.9	5.8	5.0		10		83						<0.2	1.7						
					Middle	5.7	0.6	253	26.7	26.7	8.2	8.2	29.7	29.7	83.7	83.7	5.7		8.9		11		87						<0.2	1.8						
						5.7	0.6	255	26.7	26.7	8.2	8.2	29.7	29.7	83.7	83.7	5.7		9.0		10		87						<0.2	1.7						
					Bottom	10.4	0.4	259	26.8	26.8	8.2	8.2	30.1	30.1	83.6	83.7	5.7	5.7	15.9		12		90						<0.2	1.7						
						10.4	0.5	278	26.8	26.8	8.2	8.2	30.1	30.1	83.8	83.7	5.7	5.7	15.9		12		90						<0.2	1.4						
IM1	Cloudy	Moderate	09:48	5.5	Surface	1.0	0.2	322	26.5	26.5	8.2	8.2	29.2	29.2	87.9	87.9	6.0		9.1		22		86		817935	807106		807106	<0.2	1.7	1.7					
						1.0	0.2	345	26.5	26.5	8.2	8.2	29.2	29.2	87.9	87.9	6.0	6.0	9.1		22		85						<0.2	1.7						
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					-	-		-	-	-	<0.2	1.7
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					-	-		-	-	-	-	-
					Bottom	4.5	0.2	21	26.4	26.4	8.2	8.2	29.3	29.3	87.6	87.6	6.0	6.0	10.3		22		91						<0.2	1.7						
						4.5	0.2	22	26.4	26.4	8.2	8.2	29.3	29.3	87.6	87.6	6.0	6.0	10.4		23		92						<0.2	1.7						
IM2	Cloudy	Moderate	09:55	8.0	Surface	1.0	0.4	30	26.4	26.4	8.2	8.2	29.2	29.2	88.1	88.1	6.0		8.4		12		87		818156	806179		806179	<0.2	1.6	1.6					
						1.0	0.4	30	26.4	26.4	8.2	8.2	29.2	29.2	88.1	88.1	6.0	6.0	8.5		12		86						<0.2	1.7						
					Middle	4.0	0.3	27	26.4	26.4	8.2	8.2	29.3	29.3	87.5	87.5	6.0		12.1		14		90						<0.2	1.6						
						4.0	0.3	28	26.4	26.4	8.2	8.2	29.3	29.3	87.5	87.5	6.0		12.2		15		91						<0.2	1.6						
					Bottom	7.0	0.3	11	26.4	26.4	8.2	8.2	29.5	29.5	87.4	87.4	6.0	6.0	20.3		19		92						<0.2	1.6						
						7.0	0.3	11	26.4	26.4	8.2	8.2	29.5	29.5	87.4	87.4	6.0	6.0	20.2		20		91						<0.2	1.7						
IM3	Cloudy	Moderate	10:02	8.1	Surface	1.0	0.4	25	26.4	26.4	8.2	8.2	29.1	29.1	87.8	87.8	6.0		10.8		12		85		818787	805621		805621	<0.2	1.7	1.7					
						1.0	0.4	25	26.4	26.4	8.2	8.2	29.1	29.1	87.8	87.8	6.0	6.0	10.8		12		87						<0.2	1.7						
					Middle	4.1	0.3	29	26.4	26.4	8.2	8.2	29.2	29.2	87.4	87.4	6.0	6.0	12.2		13		90						<0.2	1.7						
						4.1	0.3	29	26.4	26.4	8.2	8.2	29.2	29.2	87.4	87.4	6.0		12.2		13		91						<0.2	1.7						
					Bottom	7.1	0.2	13	26.4	26.4	8.2	8.2	29.2	29.2	87.4	87.4	6.0	6.0	13.3		13		93						<0.2	1.6						
						7.1	0.2	13	26.4	26.4	8.2	8.2	29.2	29.2	87.4	87.4	6.0	6.0	13.4		14		91						<0.2	1.7						
IM4	Cloudy	Moderate	10:09	8.2	Surface	1.0	0.4	21	26.5	26.5	8.1	8.1	27.7	27.7	86.9	86.9	6.0		10.6		22		85		819732	804632		804632	<0.2	1.7	1.7					
						1.0	0.5	22	26.5	26.5	8.1	8.1	27.7	27.7	86.9	86.9	6.0	6.0	10.6		23		84						<0.2	1.7						
					Middle	4.1	0.3	17	26.5	26.5	8.1	8.1	27.8	27.8	85.7	85.7	5.9		12.8		14		88						<0.2	1.7						
						4.1	0.4	17	26.5	26.5	8.1	8.1	27.8	27.8	85.7	85.7	5.9		12.6		13		90						<0.2	1.8						
					Bottom	7.2	0.3	20	26.5	26.5	8.1	8.1	27.8	27.8	85.9	85.9	5.9	5.9	17.6		15		91						<0.2	1.6						
						7.2	0.3	20	26.5	26.5	8.1	8.1	27.8	27.8	85.9	85.9	5.9	5.9	17.7		16		91						<0.2	1.6						
IM5	Cloudy	Moderate	10:16	7.4	Surface	1.0	0.4	25	26.6	26.6	8.1	8.1	27.4	27.4	86.6	86.6	6.0		7.7		12		87		820761	804883		804883	<0.2	1.6	1.6					
						1.0	0.4	27	26.6	26.6	8.1	8.1	27.4	27.4	86.6	86.6	6.0	6.0	7.7		13		86						<0.2	1.6						
					Middle	3.7	0.3	10	26.5	26.5	8.1	8.1	27.8	27.8	86.6	86.6	6.0		10.3		13		91						<0.2	1.7						
						3.7	0.4	10	26.5	26.5	8.1	8.1	27.8	27.8	86.6	86.6	6.0		10.4		14		90						<0.2	1.6						
					Bottom	6.4	0.2	44	26.4	26.4	8.1	8.1	28.5	28.5	86.6	86.6	5.9	5.9	12.1		15		92						<0.2	1.5						
						6.4	0.2	47	26.4	26.4	8.1	8.1	28.5	28.5	86.6	86.6	5.9	5.9	12.1		15		91						<0.2	1.8						
IM6	Cloudy	Moderate	10:22	7.6	Surface	1.0	0.2	11	26.6	26.6	8.1	8.1	27.3	27.3	85.9	85.9	5.9		8.0		10		86		821072	805802		805802	<0.2	1.4	1.6					
						1.0	0.2	11	26.6	26.6	8.1	8.1	27.3	27.3	85.9	85.9	5.9	5.9	8.0		11		83						<0.2	1.6						
					Middle	3.8	0.2	37	26.4	26.4	8.1	8.1	28.2	28.3	86.4	86.4	5.9		16.2		11		91						<0.2	1.6						
						3.8	0.2	39	26.4	26.4	8.1	8.1	28.3	28.3	86.4	86.4	5.9		16.4		11		91						<0.2	1.6						
					Bottom	6.6	0.2	52	26.4	26.4	8.1	8.1	28.7	28.7	86.2	86.2	5.9	5.9	23.3		12		91						<0.2	1.7						
						6.6	0.2	52	26.4	26.4	8.1	8.1	28.7	28.7	86.2	86.2	5.9	5.9	23.4		12		92						<0.2	1.7						
IM7	Cloudy	Moderate	10:30	9.0	Surface	1.0	0.0	18	26.6	26.6	8.1	8.1	27.1	27.1	83.4	83.4	5.8		5.8		10		84		821336	806829		806829	<0.2	1.7	1.6					
						1.0	0.0	18	26.6	26.6	8.1	8.1	27.1	27.1	83.4	83.4	5.8	5.8	5.8		10		84						<0.2	1.6						
					Middle	4.5	0.1	350	26.6	26.6	8.1	8.1	27.1	27.1	82.7	82.7	5.7		5.9		11		86						<0.2	1.5						
						4.5	0.1	322	26.6	26.6	8.1	8.1	27.1	27.1	82.7	82.7	5.7		5.9		12		87						<0.2	1.5						
					Bottom	8.0	0.1	57	26.7	26.7	8.1	8.1	27.2	27.2	83.0	83.1	5.7	5.7	6.6		13		91						<0.2	1.5						
						8.0	0.2	61	26.7	26.7	8.1	8.1	27.2	27.2	83.1	83.1	5.7	5.7	6.5		13		91						<0.2	1.6						
IM8	Cloudy	Moderate	10:51	7.8	Surface	1.0	0.3	54	26.6	26.6	8.1	8.1	27.4	27.4	87.1	87.1	6.0		8.3		11		87		821830	808133		808133	<0.2	1.5	1.6					
						1.0	0.3	58	26.6	26.6	8.1	8.1	27.4	27.4	87.1	87.1	6.0	6.0	8.3		12		87						<0.2	1.8						
					Middle	3.9	0.2	49	26.5	26.5	8.1	8.1	27.8	27.8	86.9	86.9	6.0		11.5		13		92						<0.2	1.6						
						3.9	0.2	49	26.5	26.5	8.1	8.1	27.8	27.8	86.9	86.9	6.0		11.7		12		92						<0.2	1.						

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

Water Quality Monitoring

Water Quality Monitoring Results on 13 October 18 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)				
									Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA	Value
IM9	Cloudy	Moderate	10:44	7.8	Surface	1.0	0.1	30	26.5	26.5	8.1	8.1	27.7	27.7	87.1	87.1	6.0	6.0	11.6	6.0	19	20	87	91	822096	808787	<0.2	<0.2	1.5	1.5			
						1.0	0.1	31	26.5	26.5	8.1	8.1	27.7	27.7	87.1	87.1	6.0	6.0	11.7	6.0	20	20	87	91	822096	808787	<0.2	<0.2	1.6	1.6			
					Middle	3.9	0.1	66	26.5	26.5	8.1	8.1	27.8	27.8	86.3	86.3	5.9	5.9	16.8	6.0	19	20	92	91	822096	808787	<0.2	<0.2	1.6	1.5			
						3.9	0.2	69	26.5	26.5	8.1	8.1	27.8	27.8	86.3	86.3	5.9	5.9	16.6	6.0	20	20	91	95	822096	808787	<0.2	<0.2	1.5	1.4			
					Bottom	6.8	0.2	70	26.5	26.5	8.1	8.1	27.8	27.8	86.7	86.8	6.0	6.0	20.7	6.0	20	21	95	96	822096	808787	<0.2	<0.2	1.4	1.4			
						6.8	0.2	73	26.5	26.5	8.1	8.1	27.8	27.8	86.8	86.8	6.0	6.0	20.1	6.0	21	21	96	96	822096	808787	<0.2	<0.2	1.4	1.4			
IM10	Cloudy	Moderate	10:35	8.2	Surface	1.0	0.4	314	26.4	26.4	8.2	8.2	29.2	29.2	88.1	88.1	6.0	6.0	9.7	6.0	12	12	88	92	822393	809812	<0.2	<0.2	1.5	1.5			
						1.0	0.5	344	26.4	26.4	8.2	8.2	29.2	29.2	88.1	88.1	6.0	6.0	9.7	6.0	12	14	87	92	822393	809812	<0.2	<0.2	1.5	1.5			
					Middle	4.1	0.4	308	26.4	26.4	8.2	8.2	29.2	29.2	87.5	87.5	6.0	6.0	12.4	6.0	13	14	92	91	822393	809812	<0.2	<0.2	1.5	1.5			
						4.1	0.5	333	26.4	26.4	8.2	8.2	29.2	29.2	87.5	88.2	6.0	6.0	12.5	6.0	14	16	91	95	822393	809812	<0.2	<0.2	1.5	1.5			
					Bottom	7.2	0.3	307	26.4	26.4	8.2	8.2	29.2	29.2	88.2	88.2	6.0	6.0	13.9	6.0	16	16	95	96	822393	809812	<0.2	<0.2	1.5	1.6			
						7.2	0.3	325	26.4	26.4	8.2	8.2	29.2	29.2	88.2	88.2	6.0	6.0	13.8	6.0	16	16	96	96	822393	809812	<0.2	<0.2	1.6	1.6			
IM11	Cloudy	Moderate	10:24	7.9	Surface	1.0	0.3	269	26.4	26.4	8.2	8.2	29.2	29.2	88.4	88.4	6.0	6.0	7.7	6.0	11	12	88	92	822078	811446	<0.2	<0.2	1.5	1.5			
						1.0	0.3	273	26.4	26.4	8.2	8.2	29.2	29.2	88.4	88.4	6.0	6.0	7.8	6.0	12	12	87	92	822078	811446	<0.2	<0.2	1.6	1.6			
					Middle	4.0	0.3	291	26.4	26.4	8.2	8.2	29.4	29.3	87.4	87.4	6.0	6.0	13.6	6.0	11	11	92	91	822078	811446	<0.2	<0.2	1.6	1.5			
						4.0	0.3	313	26.4	26.4	8.2	8.2	29.3	29.3	87.4	87.4	6.0	6.0	13.6	6.0	11	13	91	96	822078	811446	<0.2	<0.2	1.5	1.6			
					Bottom	6.9	0.3	301	26.4	26.4	8.2	8.2	29.6	29.6	87.4	87.4	6.0	6.0	18.1	6.0	13	12	96	95	822078	811446	<0.2	<0.2	1.6	1.4			
						6.9	0.3	319	26.4	26.4	8.2	8.2	29.6	29.6	87.4	87.4	6.0	6.0	18.0	6.0	12	12	95	95	822078	811446	<0.2	<0.2	1.4	1.4			
IM12	Cloudy	Moderate	10:17	8.7	Surface	1.0	0.3	231	26.5	26.5	8.2	8.2	29.2	29.2	87.9	87.9	6.0	6.0	9.2	6.0	23	23	88	91	821457	812047	<0.2	<0.2	1.5	1.5			
						1.0	0.3	240	26.5	26.5	8.2	8.2	29.2	29.2	87.9	87.9	6.0	6.0	9.2	6.0	23	24	87	92	821457	812047	<0.2	<0.2	1.5	1.4			
					Middle	4.4	0.2	238	26.4	26.4	8.2	8.2	29.3	29.3	87.7	87.7	6.0	6.0	11.8	6.0	24	25	92	91	821457	812047	<0.2	<0.2	1.6	1.5			
						4.4	0.2	259	26.4	26.4	8.2	8.2	29.3	29.3	87.7	88.1	6.0	6.0	11.8	6.0	25	25	91	95	821457	812047	<0.2	<0.2	1.6	1.6			
					Bottom	7.7	0.2	262	26.4	26.4	8.2	8.2	29.4	29.4	88.1	88.2	6.0	6.0	15.3	6.0	25	26	95	95	821457	812047	<0.2	<0.2	1.5	1.5			
						7.7	0.2	263	26.4	26.4	8.2	8.2	29.4	29.4	88.2	88.2	6.0	6.0	15.3	6.0	26	26	95	95	821457	812047	<0.2	<0.2	1.5	1.5			
SR2	Cloudy	Moderate	09:49	4.0	Surface	1.0	0.6	322	26.3	26.3	8.2	8.2	29.4	29.4	89.5	89.5	6.1	6.1	8.4	6.1	8	8	87	90	821464	814170	<0.2	<0.2	1.5	1.5			
						1.0	0.7	331	26.3	26.3	8.2	8.2	29.4	29.4	89.5	89.5	6.1	6.1	8.5	6.1	8	8	88	90	821464	814170	<0.2	<0.2	1.5	1.5			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	90	821464	814170	<0.2	<0.2	-	-	
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	90	821464	814170	<0.2	<0.2	-	-
					Bottom	3.0	0.5	318	26.4	26.4	8.2	8.2	29.4	29.4	89.5	89.6	6.1	6.1	13.4	6.1	11	11	92	91	821464	814170	<0.2	<0.2	1.6	1.5			
						3.0	0.6	336	26.4	26.4	8.2	8.2	29.4	29.4	89.6	89.6	6.1	6.1	13.4	6.1	11	11	91	91	821464	814170	<0.2	<0.2	1.5	1.5			
SR3	Cloudy	Moderate	10:58	9.1	Surface	1.0	0.1	25	26.6	26.6	8.1	8.1	27.3	27.3	85.7	85.7	5.9	5.9	8.3	6.0	10	9	-	-	822120	807571	-	-	-	-			
						1.0	0.1	27	26.6	26.6	8.1	8.1	27.3	27.3	85.7	85.7	5.9	5.9	8.4	6.0	9	9	-	-	822120	807571	-	-	-	-			
					Middle	4.6	0.2	71	26.4	26.4	8.1	8.1	28.5	28.5	86.8	86.8	6.0	6.0	11.2	6.0	11	10	-	-	-	-	822120	807571	-	-	-	-	
						4.6	0.2	74	26.4	26.4	8.1	8.1	28.5	28.5	86.8	86.8	6.0	6.0	11.1	6.0	10	11	-	-	-	-	822120	807571	-	-	-	-	
					Bottom	8.1	0.4	48	26.4	26.4	8.2	8.2	29.0	29.0	87.9	88.0	6.0	6.0	17.8	6.0	11	12	-	-	-	-	822120	807571	-	-	-	-	
						8.1	0.4	50	26.4	26.4	8.2	8.2	29.0	29.0	88.0	88.0	6.0	6.0	17.9	6.0	12	12	-	-	-	-	822120	807571	-	-	-	-	
SR4A	Cloudy	Calm	09:09	8.5	Surface	1.0	0.1	88	26.3	26.3	8.2	8.2	29.3	29.3	89.4	89.4	6.1	6.1	7.3	6.1	9	9	-	-	817200	807820	-	-	-	-			
						1.0	0.1	88	26.3	26.3	8.2	8.2	29.3	29.3	89.4	89.4	6.1	6.1	7.4	6.1	9	9	-	-	817200	807820	-	-	-	-			
					Middle	4.3	0.3	98	26.3	26.3	8.2	8.2	29.4	29.4	89.0	89.0	6.1	6.1	12.4	6.1	9	9	-	-	-	-	817200	807820	-	-	-	-	
						4.3	0.3	103	26.3	26.3	8.2	8.2	29.4	29.4	89.0	89.0	6.1	6.1	12.6	6.1	9	10	-	-	-	-	817200	807820	-	-	-	-	
					Bottom	7.5	0.3	85	26.4	26.4	8.2	8.2	29.4	29.4	88.9	89.0	6.1	6.1	16.0	6.1	10	10	-	-	-	-	817200	807820	-	-	-	-	
						7.5	0.4	87	26.4	26.4	8.2	8.2	29.4	29.4	89.0	89.0	6.1	6.1	16.0	6.1	10	10	-	-	-	-	817200	807820	-	-	-	-	
SR5A	Cloudy	Calm	08:59	5.2	Surface	1.0	0.1	231	26.5	26.5	8.2	8.2	29.5	29.5	86.6	86.6	5.9	5.9	4.6	6.0	10	10	-	-	816612	810689	-	-	-	-			
						1.0	0.2	245	26.5	26.5	8.2	8.2	29.5	29.5	86.6	86.6	5.9	5.9	4.6	6.0	10	10	-	-	816612	810689	-	-	-	-			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
					Bottom	4.2	0.1	257	26.6	26.6	8.2	8.2	29.6	29.6	86.2	86.2	5.9	5.9	5.1	5.9	5.1	12	12	12	12	-	-	816612	810689	-	-	-	-
						4.2	0.2	257	26.6	26.6	8.2	8.2	29.6	29.6	86.2	86.2	5.9	5.9	5.1	5.9	5.1	12	12	12	12	-	-	816612	810689	-	-	-	-
SR6	Cloudy	Calm	08:28	4.5	Surface	1.0	0.2	220	26.7	26.7	8.1	8.1	30.2	30.2	82.9	82.9	5.6	5.6	7.8	6.0	9	10	-	-	817898	814674	-	-	-	-			
						1.0	0.2	225	26.7	26.7	8.1	8.1	30.2	30.2	82.9	82.9	5.6	5.6	7.9	6.0	10	10	-	-	817898	814674	-	-	-	-			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
					Bottom	3.5	0.1	229	26.7	26.7	8.1	8.1	30.2	30.2	82.8	82.8	5.6	5.6	9.5	5.6	11	11	-	-	-	-	817898	814674	-	-	-	-	
						3.5	0.1	236	26.7	26.7	8.1	8.1	30.2	30.2	82.8	82.8	5.6	5.6	9.6	5.6	12	12	-	-	-	-	817898	814674	-	-	-	-	
SR7	Cloudy	Moderate	09:01	15.2	Surface	1.0	0.1	313	26.7	26.7	8.1	8.1	30.2	30.2	83.0	83.0	5.6	5.6	8.5	6.0	10	10	-	-	823628	823758	-	-	-	-			
						1.0																											

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

Water Quality Monitoring

Water Quality Monitoring Results on 16 October 18 during Mid-Ebb Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)				
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA	Value
C1	Cloudy	Moderate	04:49	8.0	Surface	1.0	0.1	117	26.4	26.4	8.1	8.1	25.7	25.7	92.9	92.9	6.5	6.5	4.4	4.4	6	6	81	86	815631	804228	<0.2	2.1					
						1.0	0.1	117	26.4	26.4	8.1	8.1	25.7	25.7	92.9	92.9	6.5	6.5	4.4	4.4	7	7	82	86									
					Middle	4.0	0.2	141	26.4	26.4	8.1	8.1	25.9	25.9	91.3	91.3	6.4	6.4	6.0	6.0	6	6	87	90									
						4.0	0.2	142	26.4	26.4	8.1	8.1	25.9	25.9	91.3	91.3	6.4	6.4	6.0	6.0	7	7	87	90									
					Bottom	7.0	0.3	155	26.5	26.5	8.2	8.2	29.7	29.7	87.1	87.2	5.9	5.9	13.7	13.6	6	6	90	91									
						7.0	0.3	156	26.5	26.5	8.2	8.2	29.7	29.7	87.3	87.3	5.9	5.9	13.6	13.6	6	6	91	91									
C2	Rainy	Moderate	06:02	11.4	Surface	1.0	0.2	153	26.6	26.6	8.0	8.0	26.2	26.2	88.1	88.0	6.1	6.1	7.1	7.1	3	4	82	87	825706	806943	<0.2	3.1					
						1.0	0.2	130	26.6	26.6	8.0	8.0	26.2	26.2	87.8	88.0	6.1	6.1	7.1	7.1	4	3	83	86									
					Middle	5.7	0.3	124	26.6	26.6	8.1	8.1	26.8	26.8	85.5	85.5	5.9	5.9	7.3	7.4	4	4	86	86									
						5.7	0.3	133	26.6	26.6	8.1	8.1	26.8	26.8	85.4	85.5	5.9	5.9	7.4	7.6	5	5	92	92									
					Bottom	10.4	0.3	175	26.6	26.6	8.1	8.1	29.2	29.2	85.5	86.0	5.8	5.9	7.6	7.7	4	4	92	92									
						10.4	0.3	177	26.6	26.6	8.1	8.1	29.1	29.2	86.5	86.0	5.9	5.9	7.7	7.4	5	5	92	92									
C3	Rainy	Moderate	04:08	11.4	Surface	1.0	0.1	67	26.5	26.5	8.1	8.1	28.6	28.6	88.1	88.1	6.0	6.0	6.3	6.3	5	5	80	86	822114	817804	<0.2	3.1					
						1.0	0.1	72	26.5	26.5	8.1	8.1	28.6	28.6	88.0	88.1	6.0	6.0	6.4	6.4	5	5	83	85									
					Middle	5.7	0.1	83	26.5	26.5	8.1	8.1	28.6	28.6	87.7	87.6	6.0	6.0	7.1	7.2	6	6	86	90									
						5.7	0.1	84	26.5	26.5	8.1	8.1	28.7	28.6	87.5	87.6	6.0	6.0	7.2	7.4	6	6	86	90									
					Bottom	10.4	0.1	83	26.5	26.5	8.1	8.0	29.1	29.0	86.8	87.3	5.9	6.0	8.4	8.5	8	8	90	90									
						10.4	0.1	83	26.5	26.5	8.0	8.0	28.8	29.0	87.8	87.3	6.0	6.0	8.5	8.5	8	8	90	90									
IM1	Cloudy	Moderate	04:29	5.4	Surface	1.0	0.1	163	26.4	26.4	8.2	8.2	26.7	26.7	92.7	92.7	6.4	6.4	4.0	4.1	3	3	87	89	817939	807123	<0.2	2.6					
						1.0	0.1	167	26.4	26.4	8.2	8.2	26.7	26.7	92.6	92.7	6.4	6.4	4.1	4.1	3	3	87	89									
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					-	-	-	-	-
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					-	-	-	-	-
					Bottom	4.4	0.2	152	26.5	26.5	8.2	8.2	27.8	27.8	91.0	91.0	6.3	6.3	6.0	6.0	5	5	90	90									
						4.4	0.2	152	26.5	26.5	8.2	8.2	27.8	27.8	91.0	91.0	6.3	6.3	6.0	6.0	4	4	90	90									
IM2	Cloudy	Moderate	04:22	6.8	Surface	1.0	0.2	172	26.4	26.4	8.2	8.2	26.8	26.8	92.6	92.6	6.4	6.4	5.9	6.0	6	6	83	87	818148	806163	<0.2	1.9					
						1.0	0.2	182	26.4	26.4	8.2	8.2	26.8	26.8	92.6	92.6	6.4	6.4	6.0	6.0	6	6	84	87									
					Middle	3.4	0.2	207	26.4	26.4	8.2	8.2	27.4	27.4	92.7	92.7	6.4	6.4	8.1	8.2	7	7	88	90									
						3.4	0.2	221	26.4	26.4	8.2	8.2	27.4	27.4	92.7	92.7	6.4	6.4	8.2	8.2	8	8	88	90									
					Bottom	5.8	0.1	198	26.5	26.5	8.2	8.2	27.7	27.7	92.6	92.7	6.4	6.4	11.0	10.9	10	9	90	91									
						5.8	0.1	199	26.5	26.5	8.2	8.2	27.7	27.7	92.7	92.7	6.4	6.4	10.9	10.9	9	9	91	91									
IM3	Cloudy	Rough	04:15	7.0	Surface	1.0	0.2	181	26.4	26.4	8.1	8.1	25.6	25.6	91.9	91.9	6.4	6.4	7.7	7.7	6	7	83	89	818760	805604	<0.2	2.9					
						1.0	0.2	186	26.4	26.4	8.1	8.1	25.6	25.6	91.9	91.9	6.4	6.4	7.7	7.7	7	7	84	88									
					Middle	3.5	0.1	166	26.4	26.4	8.2	8.2	26.6	26.6	91.8	91.8	6.4	6.4	8.4	8.4	7	8	88	89									
						3.5	0.1	162	26.4	26.4	8.2	8.2	26.6	26.6	91.8	91.8	6.4	6.4	8.4	8.4	8	8	89	93									
					Bottom	6.0	0.1	202	26.5	26.5	8.2	8.2	27.8	27.7	91.8	91.8	6.3	6.3	8.5	8.5	10	10	93	94									
						6.0	0.1	203	26.5	26.5	8.2	8.2	27.7	27.7	91.8	91.8	6.3	6.3	8.5	8.5	10	10	94	94									
IM4	Cloudy	Rough	04:05	7.1	Surface	1.0	0.3	220	26.4	26.4	8.1	8.1	26.7	26.7	92.0	92.0	6.4	6.4	5.2	5.2	5	6	86	91	819733	804634	<0.2	3.1					
						1.0	0.4	247	26.4	26.4	8.1	8.1	26.7	26.7	92.0	92.0	6.4	6.4	5.2	5.2	6	7	86	90									
					Middle	3.6	0.2	217	26.4	26.4	8.1	8.1	26.8	26.8	91.1	91.1	6.3	6.3	7.0	7.0	7	6	90	95									
						3.6	0.2	219	26.4	26.4	8.1	8.1	26.8	26.8	91.0	91.0	6.3	6.3	7.0	7.0	6	8	90	95									
					Bottom	6.1	0.2	245	26.4	26.4	8.1	8.1	27.1	27.1	90.7	90.7	6.3	6.3	10.1	10.1	8	8	95	96									
						6.1	0.2	217	26.4	26.4	8.1	8.1	27.1	27.1	90.7	90.7	6.3	6.3	10.1	10.1	8	8	96	96									
IM5	Cloudy	Rough	03:57	6.4	Surface	1.0	0.4	243	26.5	26.5	8.1	8.1	24.5	24.5	88.8	88.8	6.2	6.2	9.6	9.6	9	10	85	87	820725	804864	<0.2	3.3					
						1.0	0.4	253	26.5	26.5	8.1	8.1	24.5	24.5	88.8	88.8	6.2	6.2	9.6	9.9	10	11	85	86									
					Middle	3.2	0.4	238	26.5	26.5	8.1	8.1	25.7	25.7	88.8	88.9	6.2	6.2	9.9	10.0	10	11	86	89									
						3.2	0.4	260	26.5	26.5	8.1	8.1	25.7	25.7	88.9	88.9	6.2	6.2	10.0	9.3	13	13	86	89									
					Bottom	5.4	0.1	197	26.5	26.5	8.1	8.1	26.1	26.1	89.8	89.9	6.2	6.2	9.3	9.3	13	13	89	89									
IM6	Cloudy	Rough	03:50	6.1	Surface	1.0	0.5	234	26.5	26.5	8.0	8.0	24.0	24.0	87.4	87.4	6.1	6.1	5.9	5.9	6	7	84	88	821045	805849	<0.2	2.6					
						1.0	0.5	244	26.5	26.5	8.0	8.0	24.0	24.0	87.4	87.4	6.1	6.1	5.9	5.9	7	8	84	87									
					Middle	3.1	0.3	244	26.5	26.5	8.0	8.0	24.1	24.1	87.5	87.5	6.1	6.1	9.0	9.0	7	7	87	88									
						3.1	0.3	252	26.5	26.5	8.0	8.0	24.1	24.1	87.5	87.5	6.1	6.1	9.0	9.7	7	9	88	90									
					Bottom	5.1	0.3	229	26.5	26.5	8.0	8.0	24.2	24.2	87.6	87.7	6.2	6.2	9.7	9.7	9	9	90	92									
						5.1	0.3	233	26.5	26.5	8.0	8.0	24.2	24.2	87.7	87.7	6.2	6.2	9.7	9.7	9	9	92	92									
IM7	Cloudy	Rough	03:43	7.2	Surface	1.0	0.5	216	26.6	26.6	8.0	8.0	23.0	23.0	86.1	86.1	6.1	6.1	5.0	5.1	4	5	82	87	821370	806819	<0.2	3.3					
						1.0	0.5	232	26.6	26.6	8.0	8.0	23.0	23.0	86.0	86.2	6.1	6.1	5.1	6.5	5	5	84	87									
					Middle	3.6	0.5	226	26.6	26.6	8.0	8.0	23.0	23.0	86.2	86.2	6.1	6.1	6.5	6.6	5	5	87	88									
						3.6	0.5	234	26.6	26.6	8.0	8.0	23.0	23.0	86.2	86.2	6.1	6.1	6.6	6.5	5	5	88	91									
					Bottom	6.2	0.4	231	26.6	26.6	8.0	8.0	23.5	23.5	86.5	86.5	6.1	6.1	10.7	10.7	6	6	91	92									
						6.2	0.4	234	26.6	26.6	8.0	8.0	23.5	23.5	86.5	86.5	6.1	6.1	10.7	10.7	6	6	92	92									
IM8	Rainy	Moderate	05:21	7.7	Surface	1.0	0.1	127	26.6	26.6	8.0	8.0	26.0	26.0	88.0	88.0	6.1	6.1	6.1	6.3	3	3	82	86	821839	808163	<0.2	3.0					
						1.0	0.1	129	26.6	26.6	8.0	8.0	26.0	26.0	88.0	88.0	6.1	6.1	6.3	6.3	3	3	82	88									
					Middle	3.9	0.3	122	26.6	26.6	8.1	8.1	26.8	26.8	85.2	85.2	5.9	5.9	7.4	7.5	3	3	88	88									
						3.9	0.3	154	26.6	26.6	8.1	8.1	26.8	26.8	85.1	85.2	5.9	5.9	7.5	7.6	3	3	88	89									
					Bottom	6.7	0.1	172	26.6	26.6	8.1	8.1	29.6	29.6	83.0	84.4	5.6	5.7	7.6	7.7	4	4	89	89									
						6.7	0.1	183	26.6	26.6	8.1	8.1	29.6	29.6	85.7	85.7	5.8	5.8	7.7	7.4	4	4	89	89									

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

Water Quality Monitoring

Water Quality Monitoring Results on 16 October 18 during Mid-Ebb Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)			
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA
IM9	Rainy	Moderate	05:08	6.9	Surface	1.0	0.0	149	26.6	26.6	8.1	8.1	26.5	26.6	88.9	88.9	6.2	6.1	8.6	9.4	4	6	81	87	822084	808796	<0.2	-	3.0	-		
						1.0	0.0	157	26.6	26.6	8.1	8.1	26.6	26.6	88.8	88.7	6.1	6.1	8.7	9.3	4	6	82	87			<0.2	-	3.1	-		
					Middle	3.5	0.1	142	26.6	26.6	8.1	8.1	26.8	26.8	88.6	88.7	6.1	6.1	9.3	9.6	6	6	87	88			<0.2	<0.2	3.1	3.1		
						3.5	0.2	115	26.6	26.6	8.1	8.1	26.8	26.8	88.7	88.7	6.1	6.1	9.6	10.1	6	6	88	90			<0.2	<0.2	3.0	3.0		
					Bottom	5.9	0.2	129	26.6	26.6	8.1	8.1	27.3	27.3	88.1	88.2	6.1	6.1	10.1	10.3	9	8	90	92			<0.2	<0.2	3.0	3.1		
						5.9	0.2	131	26.6	26.6	8.1	8.1	27.3	27.3	88.2	88.2	6.1	6.1	10.3	11.5	8	6	92	92			<0.2	<0.2	3.1	-		
IM10	Rainy	Moderate	04:54	7.2	Surface	1.0	0.1	77	26.6	26.6	8.0	8.0	26.5	26.5	89.0	89.2	6.2	6.2	8.5	9.7	4	6	83	87	822395	809796	<0.2	-	3.1	-		
						1.0	0.1	79	26.6	26.6	8.0	8.1	26.6	26.6	89.4	90.1	6.2	6.2	8.7	9.5	4	6	84	86			<0.2	<0.2	3.1	3.1		
					Middle	3.6	0.0	114	26.6	26.6	8.1	8.1	27.1	27.1	90.1	90.2	6.2	6.2	9.5	9.7	5	5	86	87			<0.2	<0.2	3.1	-		
						3.6	0.0	114	26.6	26.6	8.1	8.1	27.1	27.5	90.2	89.7	6.2	6.2	9.7	10.5	5	8	87	91			<0.2	<0.2	3.2	3.1		
					Bottom	6.2	0.0	105	26.6	26.6	8.1	8.1	27.5	27.4	89.7	88.7	6.2	6.2	10.5	11.5	8	6	91	92			<0.2	<0.2	3.1	-		
						6.2	0.0	128	26.6	26.6	8.1	8.1	27.4	26.7	88.7	89.1	6.1	6.2	11.5	8.1	8	4	92	81			<0.2	<0.2	3.0	3.1		
IM11	Rainy	Moderate	04:44	7.9	Surface	1.0	0.1	138	26.6	26.6	8.1	8.1	26.7	26.7	89.2	89.1	6.2	6.2	8.1	11.5	2	4	81	85	822035	811443	<0.2	-	3.2	-		
						1.0	0.1	147	26.6	26.6	8.1	8.1	26.7	26.8	88.9	89.3	6.1	6.2	8.7	12.5	3	4	82	85			<0.2	<0.2	3.1	3.1		
					Middle	4.0	0.1	118	26.6	26.6	8.1	8.1	26.8	26.8	89.3	89.4	6.2	6.2	12.5	12.5	3	4	85	86			<0.2	<0.2	3.0	-		
						4.0	0.1	129	26.6	26.6	8.1	8.1	26.8	26.7	89.4	88.8	6.2	6.1	12.5	13.5	4	4	86	89			<0.2	<0.2	3.1	3.1		
					Bottom	6.9	0.0	152	26.6	26.6	8.1	8.1	27.7	27.5	88.8	88.9	6.1	6.1	13.5	13.6	4	5	89	89			<0.2	<0.2	3.0	3.2		
						6.9	0.0	173	26.6	26.6	8.1	8.1	27.5	26.8	89.0	90.3	6.1	6.2	13.6	7.4	5	6	89	81			<0.2	<0.2	3.2	-		
IM12	Rainy	Moderate	04:36	8.2	Surface	1.0	0.1	121	26.6	26.6	8.1	8.1	26.8	26.8	89.4	91.1	6.2	6.3	7.4	12.1	5	6	81	86	821448	812054	<0.2	-	3.0	-		
						1.0	0.1	130	26.6	26.6	8.1	8.1	26.8	26.8	91.1	90.3	6.3	6.3	7.4	7.7	4	6	82	85			<0.2	<0.2	3.1	3.1		
					Middle	4.1	0.0	115	26.6	26.6	8.1	8.1	27.0	27.0	90.8	90.8	6.3	6.3	7.7	7.7	5	6	86	85			<0.2	<0.2	3.2	-		
						4.1	0.0	115	26.6	26.6	8.1	8.1	27.0	27.8	90.7	90.1	6.3	6.2	7.7	21.2	6	6	86	90			<0.2	<0.2	3.0	3.0		
					Bottom	7.2	0.1	136	26.6	26.6	8.1	8.1	27.8	27.8	90.1	90.0	6.2	6.2	21.2	21.4	6	7	90	91			<0.2	<0.2	3.0	3.1		
						7.2	0.1	109	26.6	26.6	8.1	8.1	27.8	27.5	89.8	90.0	6.2	6.0	21.4	7.7	7	8	91	82			<0.2	<0.2	3.1	-		
SR2	Rainy	Moderate	04:16	4.5	Surface	1.0	0.4	88	26.5	26.5	8.1	8.1	27.5	27.5	87.6	87.2	6.0	6.0	7.7	7.8	7	7	82	83	821476	814144	<0.2	-	3.1	-		
						1.0	0.4	90	26.5	26.5	8.1	-	27.5	27.5	86.8	87.2	6.0	6.0	7.8	7.8	7	7	83	90			<0.2	-	3.1	-		
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	-	86		-	<0.2	-	-	-
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Bottom	3.5	0.2	109	26.4	26.4	8.0	8.0	27.6	27.6	82.2	81.4	5.7	5.7	7.9	7.9	9	10	90	90			<0.2	<0.2	3.2	3.1		
						3.5	0.2	118	26.4	26.4	8.0	8.0	27.6	27.6	80.5	81.4	5.6	5.7	7.9	7.9	10	8	90	90			<0.2	<0.2	3.1	-		
SR3	Rainy	Moderate	05:40	8.5	Surface	1.0	0.1	129	26.6	26.6	8.1	8.1	26.0	26.0	88.0	88.1	6.1	6.1	5.2	6.0	3	5	-	-	822126	807592	-	-	-	-		
						1.0	0.1	131	26.6	26.6	8.1	8.1	26.0	26.0	88.1	88.1	6.1	6.1	5.9	6.7	4	5	-	-			-	-	-	-		
					Middle	4.3	0.2	122	26.6	26.6	8.1	8.1	26.6	26.6	84.1	83.3	5.8	5.8	6.7	6.9	5	5	-	-			-	-	-	-		
						4.3	0.3	153	26.6	26.6	8.1	8.1	26.6	26.6	83.3	83.7	5.8	5.8	6.9	7.4	5	5	-	-			-	-	-	-		
					Bottom	7.5	0.2	187	26.6	26.6	8.1	8.1	29.7	29.7	84.1	86.6	5.7	5.8	7.4	7.6	6	7	-	-			-	-	-	-		
						7.5	0.2	202	26.6	26.6	8.1	8.1	29.7	29.7	86.6	85.4	5.9	5.9	7.6	7.6	7	5	-	-			-	-	-	-		
SR4A	Cloudy	Moderate	05:09	9.6	Surface	1.0	0.3	146	26.6	26.6	8.2	8.2	28.7	28.7	90.5	90.5	6.2	6.2	6.1	7.1	7	8	-	-	817189	807792	-	-	-	-		
						1.0	0.3	167	26.6	26.6	8.2	8.2	28.7	28.7	90.5	90.5	6.2	6.2	6.0	6.6	7	8	-	-			-	-	-	-		
					Middle	4.8	0.3	146	26.6	26.6	8.2	8.2	28.7	28.7	90.1	90.1	6.2	6.2	6.6	6.5	7	8	-	-			-	-	-	-		
						4.8	0.3	153	26.6	26.6	8.2	8.2	28.7	28.7	90.1	90.1	6.2	6.2	6.5	8.7	8	8	-	-			-	-	-	-		
					Bottom	8.6	0.2	149	26.6	26.6	8.2	8.2	28.7	28.7	89.9	89.9	6.2	6.2	8.7	8.7	8	9	-	-			-	-	-	-		
						8.6	0.2	173	26.6	26.6	8.2	8.2	28.7	28.7	89.9	89.9	6.2	6.2	8.7	8.7	9	8	-	-			-	-	-	-		
SR5A	Cloudy	Moderate	05:26	4.7	Surface	1.0	0.1	106	26.5	26.5	8.2	8.2	28.8	28.8	91.0	91.0	6.2	6.2	6.4	9.9	6	6	-	-	816590	810712	-	-	-	-		
						1.0	0.1	119	26.5	26.5	8.2	-	28.8	28.8	91.0	91.0	6.2	6.2	6.5	6.5	6	6	-	-			-	-	-	-		
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-			-	-	-	-
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
					Bottom	3.7	0.1	106	26.5	26.5	8.2	8.2	28.9	28.9	91.0	91.1	6.2	6.2	13.4	13.3	6	6	-	-			-	-	-	-	-	-
						3.7	0.1	112	26.5	26.5	8.2	8.2	28.9	28.9	91.1	91.1	6.2	6.2	13.3	13.3	6	6	-	-			-	-	-	-	-	-
SR6	Cloudy	Moderate	06:02	4.5	Surface	1.0	0.1	141	26.3	26.3	8.2	8.2	28.4	28.4	90.4	90.4	6.2	6.2	6.7	7.2	7	10	-	-	817913	814638	-	-	-	-		
						1.0	0.1	155	26.3	26.3	8.2	8.2	28.5	28.5	90.4	90.4	6.2	6.2	6.7	6.7	7	10	-	-			-	-	-	-		
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	-	-			-	-	-	-
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
					Bottom	3.5	0.1	165	26.4	26.4	8.2	8.2	29.1	29.1	91.4	91.4	6.3	6.3	7.6	7.6	12	12	-	-			-	-	-	-	-	-
						3.5	0.1	190	26.4	26.4	8.2	8.2	29.1	29.1	91.4	91.4	6.3	6.3	7.6	7.6	12	12	-	-			-	-	-	-	-	-
SR7	Rainy	Moderate	03:40	16.3	Surface	1.0	0.7	80	26.5	26.5	8.0	8.0	28.6	28.6	88.2	88.1	6.0	6.0	5.0	6.7	4	4	-	-	823653	823736	-	-	-	-		
						1.0	0.8	83	26.5	26.5	8.0	8.0	28.6	28.7	88.0	87.3	6.0	6.0	5.4	6.1	3	4	-	-			-	-	-	-		
					Middle	8.2	0.6	99	26.5	26.5	8.0	8.0	28.7	28.7	87.3	87.4	6.0	6.0	6.1	6.1	4	4	-	-			-	-	-	-		
						8.2	0.7	106	26.5	26.5	8.0	8.0	28.7	29.2	87.4	84.9	6.0	5.8	6.1	8.7	4	5	-	-			-	-	-	-		
					Bottom	15.3	0.2	130	26.5	26.5	8.0	8.0	29.2	29.2	87.4	85.3	5.8	5.8	8.7	8.8	5	5	-	-			-	-	-	-		
						15.3	0.2	136	26.5	26.5	8.0	8.0	29.2	29.2	85.3	85.1	5.8	5.8</														

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

Water Quality Monitoring

Water Quality Monitoring Results on 16 October 18 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)		
									Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value
C1	Cloudy	Moderate	17:12	8.6	Surface	1.0	0.0	85	26.3	26.3	8.1	8.1	25.8	25.8	93.3	93.3	6.5	6.5	2.7	2.7	5		81				<0.2		1.8		
						1.0	0.0	88	26.3	26.3	8.1	8.1	25.8	25.8	93.3	93.3	6.5	6.5	2.7	2.7	5		82				<0.2		1.9		
					Middle	4.3	0.1	82	26.5	26.5	8.2	8.2	30.2	30.2	89.9	89.9	6.1	6.1	5.7	5.7	6	6	87				<0.2		1.7		
						4.3	0.1	82	26.5	26.5	8.2	8.2	30.2	30.2	89.9	89.9	6.1	6.1	5.7	5.7	4		88				<0.2		1.8		
					Bottom	7.6	0.1	67	26.5	26.5	8.2	8.2	31.0	31.0	89.3	89.3	6.0	6.0	9.2	9.2	6		90				<0.2		1.7		
						7.6	0.1	70	26.5	26.5	8.2	8.2	31.0	31.0	89.3	89.3	6.0	6.0	9.2	9.2	7	6	90	86	815638	804255	<0.2	<0.2	1.7	1.8	
C2	Cloudy	Moderate	16:04	11.7	Surface	1.0	0.1	136	26.7	26.7	8.0	8.0	22.3	22.3	86.4	86.4	6.1	6.1	7.5	7.5	5		82				<0.2		3.2		
						1.0	0.1	144	26.7		8.0	8.0	22.3	22.3	86.4	86.4	6.1	6.1	7.5	7.5	4		82				<0.2		3.2		
					Middle	5.9	0.1	333	26.6	26.6	8.0	8.0	26.6	26.6	84.7	84.7	5.9	5.9	9.4	9.4	5	5	86	87	825681	806951	<0.2	<0.2	3.1	3.2	
						5.9	0.1	345	26.6		8.0	8.0	26.6	26.6	84.7	84.7	5.9	5.9	9.4	9.4	5		87				<0.2		3.2		
					Bottom	10.7	0.1	307	26.7	26.7	8.0	8.0	29.0	28.9	84.1	84.3	5.7	5.8	12.0	11.5	6		92				<0.2		3.2		
						10.7	0.1	323	26.7		8.0	8.0	28.9	28.9	84.5	84.3	5.8	5.8	11.5	11.5	7	5	92	87	822099	817793	<0.2	<0.2	3.2	3.2	
C3	Fine	Moderate	17:44	9.8	Surface	1.0	0.0	207	26.6	26.6	8.1	8.1	29.0	29.0	88.7	88.7	6.1	6.1	6.0	6.0	4		82				<0.2		3.2		
						1.0	0.0	223	26.6		8.1	8.1	29.0	29.0	88.7	88.7	6.1	6.1	6.0	6.0	4		84				<0.2		3.2		
					Middle	4.9	0.1	249	26.6	26.6	8.1	8.1	29.6	29.6	86.7	86.5	5.9	5.9	6.3	6.3	5	5	87	87	822099	817793	<0.2	<0.2	3.1	3.1	
						4.9	0.1	249	26.6		8.1	8.1	29.6	29.6	86.3	86.5	5.9	5.9	6.2	6.2	5		88				<0.2		3.1		
					Bottom	8.8	0.1	238	26.6	26.6	8.1	8.1	30.3	30.3	84.2	84.3	5.7	5.7	6.7	6.7	5		90				<0.2		3.0		
						8.8	0.1	247	26.6	26.6	8.1	8.1	30.3	30.3	84.4	84.3	5.7	5.7	6.9	6.9	6	5	90	87	822099	817793	<0.2	<0.2	3.2	3.2	
IM1	Rainy	Moderate	16:53	5.1	Surface	1.0	0.1	94	26.3	26.3	8.2	8.2	25.3	25.3	96.3	96.3	6.7	6.8	4.3	4.3	6		83				<0.2		1.8		
						1.0	0.1	98	26.3		8.2	8.2	25.3	25.3	96.3	96.3	6.8	6.8	4.3	4.3	7		84				<0.2		1.8		
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			85	817961	807117	-	<0.2	-	1.8
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					-	-	-		
					Bottom	4.1	0.1	139	26.3	26.3	8.2	8.2	25.5	25.5	96.5	96.6	6.7	6.8	5.2	5.2	8		85				<0.2		1.8		
						4.1	0.1	145	26.3		8.2	8.2	25.5	25.5	96.6	96.6	6.8	6.8	5.2	5.2	8	7	86	87	822099	817793	<0.2	<0.2	1.9	1.8	
IM2	Rainy	Moderate	16:45	7.3	Surface	1.0	0.2	90	26.4	26.4	8.2	8.2	25.8	25.8	94.5	94.5	6.6	6.6	3.3	3.3	6		82				<0.2		1.8		
						1.0	0.2	91	26.4	26.4	8.2	8.2	25.8	25.8	94.5	94.5	6.6	6.6	3.3	3.3	5		83				<0.2		1.9		
					Middle	3.7	0.1	0	26.4	26.4	8.1	8.1	26.0	26.0	92.9	92.9	6.5	6.5	5.9	5.9	6	7	87	87	818174	806153	<0.2	<0.2	1.8	1.8	
						3.7	0.2	0	26.4		8.1	8.1	26.0	26.0	92.8	92.9	6.5	6.5	6.0	6.0	7		87				<0.2		1.8		
					Bottom	6.3	0.1	80	26.5	26.5	8.1	8.1	27.7	27.7	88.8	88.8	6.1	6.1	10.8	10.8	8		90				<0.2		1.8		
						6.3	0.2	83	26.5	26.5	8.1	8.1	27.7	27.7	88.8	88.8	6.1	6.1	10.7	10.7	8	7	91	87	818174	806153	<0.2	<0.2	1.8	1.8	
IM3	Rainy	Moderate	16:39	7.5	Surface	1.0	0.1	77	26.4	26.4	8.1	8.1	26.1	26.1	93.5	93.5	6.5	6.5	2.8	2.8	6		82				<0.2		1.8		
						1.0	0.1	80	26.4		8.1	8.1	26.1	26.1	93.5	93.5	6.5	6.5	2.8	2.8	6		82				<0.2		1.8		
					Middle	3.8	0.1	91	26.5	26.5	8.1	8.1	26.3	26.3	92.1	92.1	6.4	6.4	3.6	3.6	7	7	86	87	818174	805577	<0.2	<0.2	1.8	1.8	
						3.8	0.1	99	26.5		8.1	8.1	26.3	26.3	92.1	92.1	6.4	6.4	3.6	3.6	6		86				<0.2		1.8		
					Bottom	6.5	0.1	60	26.5	26.5	8.1	8.1	27.8	27.8	88.9	89.0	6.1	6.1	10.1	10.1	8		91				<0.2		1.8		
						6.5	0.1	65	26.5	26.5	8.1	8.1	27.8	27.8	89.0	89.0	6.1	6.1	10.0	10.0	8	7	92	87	818174	805577	<0.2	<0.2	1.7	1.7	
IM4	Rainy	Moderate	16:30	7.6	Surface	1.0	0.2	52	26.4	26.4	8.1	8.1	26.5	26.5	92.0	92.0	6.4	6.4	3.5	3.5	6		81				<0.2		1.7		
						1.0	0.2	53	26.4	26.4	8.1	8.1	26.5	26.5	92.0	92.0	6.4	6.4	3.6	3.6	6		82				<0.2		1.6		
					Middle	3.8	0.1	355	26.5	26.5	8.1	8.1	26.9	26.9	88.8	88.8	6.1	6.1	6.7	6.7	7	8	86	86	819747	804603	<0.2	<0.2	1.7	1.7	
						3.8	0.1	327	26.5		8.1	8.1	26.9	26.9	88.8	88.8	6.1	6.1	6.9	6.9	8		86				<0.2		1.8		
					Bottom	6.6	0.1	342	26.5	26.5	8.1	8.1	28.1	28.1	87.4	87.4	6.0	6.0	12.1	12.1	10		91				<0.2		1.7		
						6.6	0.2	315	26.5	26.5	8.1	8.1	28.1	28.1	87.4	87.4	6.0	6.0	12.1	12.1	10	8	91	86	819747	804603	<0.2	<0.2	1.7	1.7	
IM5	Rainy	Moderate	16:22	6.9	Surface	1.0	0.1	340	26.4	26.4	8.2	8.2	26.4	26.4	94.5	94.5	6.6	6.6	4.8	4.8	7		83				<0.2		1.6		
						1.0	0.1	340	26.4		8.2	8.2	26.4	26.4	94.5	94.5	6.6	6.6	4.8	4.8	7		84				<0.2		1.7		
					Middle	3.5	0.2	8	26.5	26.5	8.2	8.2	26.5	26.5	93.8	93.8	6.5	6.5	5.9	5.9	8	8	87	86	820739	804881	<0.2	<0.2	1.7	1.7	
						3.5	0.2	8	26.5		8.2	8.2	26.5	26.5	93.8	93.8	6.5	6.5	5.8	5.8	8		87				<0.2		1.7		
					Bottom	5.9	0.1	26	26.5	26.5	8.2	8.2	27.3	27.3	91.6	91.7	6.3	6.3	8.0	8.0	9		88				<0.2		1.7		
						5.9	0.2	26	26.5	26.5	8.2	8.2	27.3	27.3	91.7	91.7	6.3	6.3	8.1	8.1	8	8	88	86	820739	804881	<0.2	<0.2	1.6	1.6	
IM6	Rainy	Moderate	16:14	7.0	Surface	1.0	0.0	139	26.6	26.6	8.0	8.0	22.0	22.0	90.4	90.5	6.4	6.4	3.4	3.4	6		81				<0.2		2.9		
						1.0	0.0	148	26.6		8.0	8.0	22.0	22.0	90.5	90.5	6.4	6.4	3.4	3.4	6		82				<0.2		3.0		
					Middle	3.5	0.1	39	26.5	26.5	8.1	8.1	26.0	26.0	93.0	93.0	6.5	6.5	8.4	8.4	8	8	87	86	821040	805824	<0.2	<0.2	2.5	2.7	
						3.5	0.1	42	26.5		8.1	8.1	26.0	26.0	93.0	93.0	6.5	6.5	8.3	8.3	8		89				<0.2		2.4		
					Bottom	6.0	0.1	20	26.5	26.5	8.2	8.2	27.2	27.2	92.8	92.8	6.4	6.4	12.8	12.8	9		89				<0.2		2.7		
						6.0	0.1	21	26.5	26.5	8.2	8.2	27.2	27.2	92.8	92.8	6.4	6.4	12.8	12.8	9	8	90	86	821040	805824	<0.2	<0.2	2.8	2.8	
IM7	Rainy	Moderate	16:05	8.5	Surface	1.0	0.1	263	26.6	26.6	8.0	8.0	23.0	23.0	94.5	94.5	6.6	6.6	3.4	3.4	4		86				<0.2		3.2		
						1.0	0.1	284	26.6		8.0	8.0	23.0	23.0	94.5	94.5	6.6	6.6	3.4	3.4	5		87				<0.2		3.1		
					Middle	4.3	0.1	76	26.5	26.5	8.1	8.1	23.0	23.0	93.8	93.8	6.5	6.5	8.4	8.4	4	5	91	91	821331	806843	<0.2	<0.2	3.1	3.1	
						4.3	0.1	77	26.5		8.1	8.1	23.0	23.0	93.8	93.8	6.5	6.5	8.3	8.3	5		92				<0.2		3.2		
					Bottom	7.5	0.1	81	26.5	26.5	8.2	8.2	27.2	27.2	92.8	92.8	6.4	6.4	12.8	12.8	5										

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

Water Quality Monitoring

Water Quality Monitoring Results on 16 October 18 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)							
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA				
IM9	Cloudy	Moderate	16:35	7.3	Surface	1.0	0.2	130	26.6	26.6	8.0	8.0	22.1	22.1	87.3	87.3	6.2	6.2	8.8	8.8	2		82		86	822106	808792	<0.2		3.1	3.2					
						1.0	0.2	142	26.6	26.6	8.0	8.0	22.1	22.1	87.2	87.2	6.2	6.2	8.9	8.9	2		83					<0.2		3.2						
					Middle	3.7	0.1	100	26.6	26.6	8.0	8.0	23.1	23.1	86.1	86.1	6.1	6.1	11.8	11.8	4	4	86	86				<0.2		3.1						
						3.7	0.1	103	26.6	26.6	8.0	8.0	23.1	23.1	86.0	86.1	6.1	6.1	11.9	11.9	4	4	87	87				<0.2		3.2						
					Bottom	6.3	0.1	96	26.6	26.6	8.0	8.0	25.5	25.5	86.0	86.0	6.0	6.0	13.1	13.1	7	7	89	89				<0.2		3.2						
						6.3	0.1	97	26.6	26.6	8.0	8.0	25.5	25.5	86.2	86.1	6.0	6.0	13.1	13.1	6	6	91	91				<0.2		3.1						
IM10	Cloudy	Moderate	16:42	8.5	Surface	1.0	0.2	106	26.6	26.6	8.0	8.0	22.1	22.1	90.1	90.1	6.4	6.4	9.4	9.4	3		80		86	822374	809818	<0.2		3.1	3.1					
						1.0	0.2	112	26.6	26.6	8.0	8.0	22.1	22.1	90.1	90.1	6.4	6.4	9.5	9.5	3	3	82	82				<0.2		3.0						
					Middle	4.3	0.1	14	26.6	26.6	8.1	8.1	24.8	24.8	91.5	91.5	6.4	6.4	11.8	11.8	3	3	88	88				<0.2		3.1						
						4.3	0.2	15	26.6	26.6	8.1	8.1	24.7	24.7	91.4	91.4	6.4	6.4	11.8	11.8	4	4	88	88				<0.2		3.1						
					Bottom	7.5	0.1	313	26.5	26.5	8.1	8.1	28.1	28.1	90.9	91.0	6.2	6.3	12.8	12.8	4	4	89	89				<0.2		3.2						
						7.5	0.1	333	26.5	26.5	8.1	8.1	28.1	28.1	91.1	91.1	6.3	6.3	12.8	12.8	5	5	89	89				<0.2		3.1						
IM11	Rainy	Moderate	16:52	8.3	Surface	1.0	0.2	105	26.6	26.6	8.1	8.1	23.4	23.4	89.9	89.9	6.3	6.3	8.3	8.3	3		82		87	822065	811488	<0.2		3.0	3.1					
						1.0	0.2	109	26.6	26.6	8.1	8.1	23.4	23.4	89.9	89.9	6.3	6.2	8.2	8.2	3	3	83	83				<0.2		3.1						
					Middle	4.2	0.1	326	26.5	26.5	8.1	8.1	27.5	27.4	87.7	87.4	6.0	6.0	8.7	8.7	4	4	86	86				<0.2		3.2						
						4.2	0.1	348	26.5	26.5	8.1	8.1	27.3	27.4	87.0	87.4	6.0	6.0	9.0	9.0	5	5	86	86				<0.2		3.1						
					Bottom	7.3	0.1	299	26.6	26.6	8.1	8.1	28.8	28.8	85.9	85.9	5.9	5.9	10.4	10.4	5	5	91	91				<0.2		3.1						
						7.3	0.1	307	26.6	26.6	8.1	8.1	28.8	28.8	85.8	85.9	5.9	5.9	10.3	10.3	6	6	91	91				<0.2		3.0						
IM12	Rainy	Moderate	16:59	9.0	Surface	1.0	0.1	99	26.5	26.5	8.1	8.1	25.1	25.1	88.8	88.7	6.2	6.2	9.1	9.1	5		82		87	821476	812023	<0.2		3.2	3.2					
						1.0	0.1	99	26.5	26.5	8.1	8.1	25.1	25.1	88.6	88.7	6.2	6.1	9.1	9.1	4	4	82	82				<0.2		3.3						
					Middle	4.5	0.1	230	26.4	26.4	8.1	8.1	28.6	28.6	87.0	87.0	6.0	6.0	9.5	9.5	5	5	86	86				<0.2		3.2						
						4.5	0.1	237	26.4	26.4	8.1	8.1	28.6	28.6	87.0	87.0	6.0	6.0	9.5	9.5	6	6	87	87				<0.2		3.0						
					Bottom	8.0	0.1	227	26.5	26.5	8.1	8.1	29.0	29.0	86.7	87.0	5.9	6.0	9.8	9.8	8	8	91	91				<0.2		3.2						
						8.0	0.1	237	26.5	26.5	8.1	8.1	29.0	29.0	87.2	87.0	6.0	6.0	9.8	9.8	8	8	92	92				<0.2		3.1						
SR2	Fine	Moderate	17:22	5.7	Surface	1.0	0.2	25	26.5	26.5	8.1	8.1	27.1	27.1	90.3	90.2	6.2	6.2	6.5	6.5	4		82		87	821459	814177	<0.2		3.2	3.1					
						1.0	0.2	26	26.5	26.5	8.1	8.1	27.1	27.1	90.1	90.2	6.2	6.2	6.7	6.7	4	4	83	83				<0.2		3.1						
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-		-	-	-	-	
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-		-	-	-	-	
					Bottom	4.7	0.1	70	26.5	26.5	8.1	8.1	29.3	29.2	87.1	87.4	5.9	6.0	6.9	6.9	6	6	90	90				<0.2		3.0						
						4.7	0.1	72	26.5	26.5	8.1	8.1	29.1	29.2	87.7	87.4	6.0	6.0	7.0	7.0	7	7	91	91				<0.2		2.9						
SR3	Cloudy	Moderate	16:23	9.1	Surface	1.0	0.1	132	26.6	26.6	8.0	8.0	21.5	21.5	87.2	86.9	6.2	6.2	7.3	7.3	5		-		-	822161	807580	-	-	-	-					
						1.0	0.1	140	26.6	26.6	8.0	8.0	21.6	21.6	86.6	86.6	6.2	6.1	8.0	8.0	5	5	-	-				-	-							
					Middle	4.6	0.1	83	26.6	26.6	8.0	8.0	26.0	26.0	85.1	84.8	5.9	5.9	9.6	9.6	6	6	-	-				-	-	-		-	-	-		
						4.6	0.1	86	26.6	26.6	8.0	8.0	26.1	26.0	84.5	84.8	5.9	5.9	10.5	10.5	7	7	-	-				-	-	-		-	-	-		
					Bottom	8.1	0.1	146	26.7	26.7	8.0	8.0	27.5	27.4	83.5	83.9	5.7	5.8	11.9	11.9	10	10	-	-				-	-	-		-	-	-	-	
						8.1	0.2	154	26.7	26.7	8.0	8.0	27.4	27.4	84.2	83.9	5.8	5.8	11.5	11.5	11	11	-	-				-	-	-		-	-	-	-	
SR4A	Cloudy	Moderate	17:32	8.2	Surface	1.0	0.2	50	26.3	26.3	8.1	8.1	25.4	25.4	93.8	93.8	6.6	6.6	5.9	5.9	6		-		-	817198	807810	-	-	-	-					
						1.0	0.2	50	26.3	26.3	8.1	8.1	25.4	25.4	93.8	93.8	6.6	6.5	6.0	6.0	6	6	-	-				-	-							
					Middle	4.1	0.1	44	26.4	26.4	8.1	8.1	26.7	26.7	91.3	91.3	6.3	6.3	9.5	9.5	7	7	-	-				-	-	-		-	-	-		
						4.1	0.1	45	26.4	26.4	8.1	8.1	26.7	26.7	91.2	91.2	6.3	6.3	9.6	9.6	8	8	-	-				-	-	-		-	-	-		
					Bottom	7.2	0.0	103	26.6	26.6	8.1	8.1	28.7	28.7	88.1	88.1	6.0	6.0	17.1	17.1	10	10	-	-				-	-	-		-	-	-	-	
						7.2	0.0	111	26.6	26.6	8.1	8.1	28.7	28.7	88.1	88.1	6.0	6.0	16.7	16.7	10	10	-	-				-	-	-		-	-	-	-	
SR5A	Cloudy	Moderate	17:48	3.7	Surface	1.0	0.0	134	26.5	26.5	8.1	8.1	28.3	28.3	90.5	90.5	6.2	6.2	5.0	5.0	7		-		-	816613	810696	-	-	-	-					
						1.0	0.0	140	26.5	26.5	8.1	8.1	28.3	28.3	90.4	90.4	6.2	6.2	4.9	4.9	6	6	-	-				-	-							
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-		-	-	-	-	
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-		-	-	-	-	
					Bottom	2.7	0.0	67	26.5	26.5	8.1	8.1	28.6	28.6	90.9	90.9	6.2	6.2	5.4	5.4	10	10	-	-				-	-	-		-	-	-	-	-
						2.7	0.0	70	26.5	26.5	8.1	8.1	28.6	28.6	90.9	90.9	6.2	6.2	5.4	5.4	10	10	-	-				-	-	-		-	-	-	-	-
SR6	Cloudy	Moderate	18:13	4.6	Surface	1.0	0.0	238	26.3	26.3	8.2	8.2	27.8	27.8	93.0	93.0	6.4	6.4	2.1	2.1	6		-		-	817912	814660	-	-	-	-					
						1.0	0.0	240	26.3	26.3	8.2	8.2	27.8	27.8	92.9	93.0	6.4	6.4	2.1	2.1	6	6	-	-				-	-							
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-		-	-	-	-	
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-		-	-	-	-	
					Bottom	3.6	0.0	249	26.3	26.3	8.2	8.2	28.4	28.4	88.9	88.9	6.1	6.1	5.5	5.5	7	7	-	-				-	-	-		-	-	-	-	-
						3.6	0.0	252	26.3	26.3	8.2	8.2	28.4	28.4	88.9	88.9	6.1	6.1	5.5	5.5	7	7	-	-				-	-	-		-	-	-	-	-
SR7	Fine	Moderate	18:11	16.0	Surface	1.0	0.0	286	26.6	26.6	8.2	8.2	29.5	29.5	86.0	86.0	5.9	5.9	6.6	6.6	6		-		-	823607	823742	-	-	-	-					
						1.0	0.0	286	26.6	26.6	8.2	8.2	29.5	29.5	86.0	86.0	5.9	5.8	6.6	6.6	5	5	-	-				-	-							
					Middle	8.0	0.4	313	26.7	26.7	8.1	8.1	30.9	30.9	85.3	85.2	5.8	5.8	6.8	6.8	7	7	-	-				-	-	-		-	-	-		
						8.0	0.4	337	26.7	26.7	8.1	8.1	30.9	30.9	85.1	85.2	5.7	5.8	6.8	6.8	6	6	-	-				-	-	-		-	-	-		
					Bottom	15.0	0.1	242	26.8	26.8	8.1	8.1	31.3	31.3	86.2	86.2	5.8	5.8	7.2	7.2	9	9	-	-				-	-	-		-	-	-	-	
						15.0	0.1	259	26.8	26.8	8.1	8.1	31.3	31.3	86.2	86.2	5.8	5.8	7.2	7.2	9	9	-	-				-	-	-		-	-	-	-	
SR8	Fine	Moderate	17:09	4.6	Surface	1.0	-	-	26.7	26.7	8.2	8.2	25.9	25.9	91.8	91.7	6.4	6.4	9.3	9.3	5		-		-	820482	811641	-	-	-	-					
						1.0	-	-	26.7	26.7	8.2	8.2																								

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

Water Quality Monitoring

Water Quality Monitoring Results on 18 October 18 during Mid-Ebb Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)		
									Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value
C1	Rainy	Rough	07:36	8.6	Surface	1.0	0.5	215	25.9	25.9	8.2	8.2	30.5	30.5	91.8	91.8	6.3	6.2	3.2	4.0	6	5	79	82	815604	804269	<0.2	<0.2	0.9	1.1	
						1.0	0.5	216	25.9	8.2	8.2	30.5	30.5	91.8	91.8	6.3	6.2	3.2	4.0	6	5	80	82	815604	804269	<0.2	<0.2	0.9	1.1		
					Middle	4.3	0.2	209	26.5	26.5	8.2	8.2	32.0	32.0	91.2	91.2	6.1	6.2	4.2	4.0	4	5	81	82	815604	804269	<0.2	<0.2	1.0	1.1	
						4.3	0.2	224	26.5	8.2	8.2	32.0	32.0	91.2	91.2	6.1	6.2	4.2	4.0	4	5	82	82	815604	804269	<0.2	<0.2	1.1	1.2		
					Bottom	7.6	0.1	219	26.6	26.6	8.2	8.2	32.5	32.5	91.9	92.0	6.2	6.2	4.6	4.5	4	3	85	86	815604	804269	<0.2	<0.2	1.2	1.2	
						7.6	0.1	223	26.6	8.2	8.2	32.5	32.5	92.0	92.0	6.2	6.2	4.5	4.5	3	3	86	86	815604	804269	<0.2	<0.2	1.2	1.2		
C2	Rainy	Moderate	09:14	11.3	Surface	1.0	0.5	170	26.1	26.1	8.1	8.1	27.7	27.7	85.2	85.2	5.9	5.7	6.6	7.7	3	4	81	84	825669	806917	<0.2	<0.2	1.2	1.2	
						1.0	0.6	184	26.1	8.1	8.1	27.7	27.7	85.1	85.2	5.9	5.7	6.6	7.7	3	4	80	84	825669	806917	<0.2	<0.2	1.2	1.2		
					Middle	5.7	0.3	165	26.7	26.7	8.1	8.1	30.7	30.7	81.5	81.5	5.5	5.5	7.6	7.5	4	3	84	84	825669	806917	<0.2	<0.2	1.2	1.2	
						5.7	0.3	169	26.7	8.1	8.1	30.7	30.7	81.5	81.5	5.5	5.5	7.5	7.5	3	3	84	84	825669	806917	<0.2	<0.2	1.2	1.2		
					Bottom	10.3	0.1	147	26.7	26.7	8.1	8.1	31.2	31.2	83.8	83.9	5.6	5.7	8.9	8.9	5	6	88	88	825669	806917	<0.2	<0.2	1.2	1.3	
						10.3	0.1	154	26.7	8.1	8.1	31.2	31.2	84.0	84.0	5.7	5.7	8.9	8.9	6	6	88	88	825669	806917	<0.2	<0.2	1.3	1.3		
C3	Rainy	Moderate	07:14	12.1	Surface	1.0	0.1	44	25.8	25.8	8.1	8.1	29.1	29.2	87.7	87.7	6.1	5.9	5.5	5.8	3	3	82	86	822111	817791	<0.2	<0.2	1.3	1.3	
						1.0	0.2	45	25.8	8.1	8.1	29.2	29.2	87.6	87.6	6.1	5.9	5.5	5.8	3	3	81	87	822111	817791	<0.2	<0.2	1.3	1.3		
					Middle	6.1	0.1	79	26.4	26.4	8.0	8.0	30.4	30.4	84.2	84.3	5.7	5.7	5.8	5.8	4	3	87	91	822111	817791	<0.2	<0.2	1.3	1.4	
						6.1	0.1	86	26.4	8.0	8.0	30.4	30.4	84.3	84.3	5.7	5.7	5.8	5.8	3	3	86	91	822111	817791	<0.2	<0.2	1.3	1.4		
					Bottom	11.1	0.2	71	26.5	26.5	8.0	8.0	31.1	31.1	83.6	83.7	5.6	5.6	5.9	6.0	3	2	91	90	822111	817791	<0.2	<0.2	1.4	1.4	
						11.1	0.2	75	26.5	8.0	8.0	31.1	31.1	83.7	83.7	5.6	5.6	6.0	6.0	2	2	90	88	822111	817791	<0.2	<0.2	1.4	1.4		
IM1	Rainy	Moderate	07:57	4.8	Surface	1.0	0.1	212	26.4	26.4	8.2	8.2	31.6	31.6	89.4	89.4	6.0	6.0	3.8	4.3	4	4	82	84	817923	807117	<0.2	<0.2	0.7	0.8	
						1.0	0.1	226	26.4	8.2	8.2	31.6	31.6	89.4	89.4	6.0	6.0	3.8	4.3	4	4	82	84	817923	807117	<0.2	<0.2	0.7	0.8		
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Bottom	3.8	0.0	204	26.5	26.5	8.2	8.2	32.0	32.0	91.6	91.9	6.2	6.2	4.8	4.7	4	4	85	85	817923	807117	<0.2	<0.2	0.8	0.8	
						3.8	0.0	224	26.5	8.2	8.2	32.0	32.0	92.1	91.9	6.2	6.2	4.7	4.7	4	4	85	85	817923	807117	<0.2	<0.2	0.8	0.8		
IM2	Rainy	Rough	08:05	6.9	Surface	1.0	0.2	194	26.1	26.1	8.2	8.2	29.7	29.7	90.7	90.7	6.2	6.2	3.3	4.7	5	5	80	85	818172	806182	<0.2	<0.2	1.3	1.2	
						1.0	0.2	197	26.1	8.2	8.2	29.8	29.7	90.7	90.7	6.2	6.2	3.4	4.7	5	5	81	85	818172	806182	<0.2	<0.2	1.2	1.2		
					Middle	3.5	0.1	179	26.6	26.6	8.2	8.2	32.1	32.1	91.2	91.3	6.1	6.1	5.2	4.7	4	5	85	89	818172	806182	<0.2	<0.2	1.2	1.2	
						3.5	0.1	194	26.6	8.2	8.2	32.1	32.1	91.4	91.3	6.1	6.1	5.2	4.7	4	5	86	89	818172	806182	<0.2	<0.2	1.2	1.2		
					Bottom	5.9	0.0	156	26.6	26.6	8.2	8.2	32.2	32.2	92.9	93.2	6.2	6.3	5.4	5.5	5	5	89	90	818172	806182	<0.2	<0.2	1.2	1.3	
						5.9	0.0	156	26.6	8.2	8.2	32.2	32.2	93.4	93.2	6.3	6.3	5.5	5.5	5	5	90	90	818172	806182	<0.2	<0.2	1.3	1.3		
IM3	Rainy	Rough	08:11	7.0	Surface	1.0	0.4	216	26.0	26.0	8.2	8.2	29.2	29.2	90.6	90.6	6.2	6.2	4.2	6.6	3	3	81	85	818782	805573	<0.2	<0.2	1.3	1.3	
						1.0	0.4	231	26.0	8.2	8.2	29.2	29.2	90.6	90.6	6.2	6.2	4.2	6.6	4	3	81	84	818782	805573	<0.2	<0.2	1.4	1.4		
					Middle	3.5	0.2	225	26.5	26.5	8.2	8.2	31.6	31.6	91.5	91.5	6.2	6.2	6.9	6.9	4	3	84	86	818782	805573	<0.2	<0.2	1.3	1.2	
						3.5	0.2	239	26.5	8.2	8.2	31.6	31.6	91.5	91.5	6.2	6.2	7.0	6.9	4	3	86	89	818782	805573	<0.2	<0.2	1.2	1.2		
					Bottom	6.0	0.1	179	26.6	26.6	8.2	8.2	32.2	32.2	93.6	93.7	6.3	6.3	8.5	8.5	2	3	89	90	818782	805573	<0.2	<0.2	1.2	1.2	
						6.0	0.1	187	26.6	8.2	8.2	32.2	32.2	93.7	93.7	6.3	6.3	8.5	8.5	3	3	90	86	818782	805573	<0.2	<0.2	1.2	1.2		
IM4	Rainy	Rough	08:19	6.9	Surface	1.0	0.5	220	25.9	25.9	8.2	8.2	28.7	28.7	91.3	91.3	6.3	6.3	4.7	9.3	3	4	74	80	819723	804585	<0.2	<0.2	1.3	1.3	
						1.0	0.5	223	25.9	8.2	8.2	28.7	28.7	91.3	91.3	6.3	6.3	5.1	9.3	4	4	74	81	819723	804585	<0.2	<0.2	1.2	1.3		
					Middle	3.5	0.5	214	26.1	26.1	8.2	8.2	29.9	29.5	92.0	92.0	6.3	6.3	8.4	9.3	4	4	80	85	819723	804585	<0.2	<0.2	1.3	1.3	
						3.5	0.5	218	26.1	8.2	8.2	29.1	29.5	92.0	92.0	6.3	6.3	8.5	9.3	4	4	81	85	819723	804585	<0.2	<0.2	1.3	1.3		
					Bottom	5.9	0.3	217	26.3	26.3	8.2	8.2	30.9	30.9	94.6	94.7	6.4	6.4	14.6	14.5	4	4	85	86	819723	804585	<0.2	<0.2	1.4	1.3	
						5.9	0.3	221	26.3	8.2	8.2	30.9	30.9	94.7	94.7	6.4	6.4	14.5	14.5	3	3	86	86	819723	804585	<0.2	<0.2	1.3	1.3		
IM5	Rainy	Moderate	08:28	6.5	Surface	1.0	0.4	207	26.1	26.1	8.2	8.2	29.0	29.0	90.6	90.6	6.2	6.2	3.1	4.3	3	4	78	82	820742	804875	<0.2	<0.2	1.2	1.2	
						1.0	0.5	219	26.1	8.2	8.2	29.0	29.0	90.6	90.6	6.2	6.2	3.1	4.3	4	4	78	81	820742	804875	<0.2	<0.2	1.2	1.2		
					Middle	3.3	0.4	210	26.3	26.3	8.2	8.2	30.4	30.5	91.2	91.3	6.2	6.2	4.3	4.5	4	4	81	82	820742	804875	<0.2	<0.2	1.2	1.2	
						3.3	0.4	224	26.3	8.2	8.2	30.5	30.5	91.4	91.4	6.2	6.2	4.5	4.5	4	4	82	86	820742	804875	<0.2	<0.2	1.2	1.2		
					Bottom	5.5	0.4	212	26.4	26.4	8.2	8.2	30.9	30.9	92.7	92.8	6.3	6.3	5.5	5.5	6	6	86	86	820742	804875	<0.2	<0.2	1.2	1.2	
						5.5	0.4	223	26.4	8.2	8.2	30.9	30.9	92.8	92.8	6.3	6.3	5.4	5.4	5	5	87	87	820742	804875	<0.2	<0.2	1.2	1.2		
IM6	Rainy	Moderate	08:35	6.4	Surface	1.0	0.4	220	26.1	26.1	8.2	8.2	29.2	29.2	89.8	89.8	6.2	6.2	3.1	6.7	3	4	81	85	821075	805809	<0.2	<0.2	1.2	1.2	
						1.0	0.4	223	26.1	8.2	8.2	29.2	29.2	89.8	89.8	6.2	6.2	3.5	6.7	3	4	82	86	821075	805809	<0.2	<0.2	1.1	1.1		
					Middle	3.2	0.3	217	26.4	26.4	8.2	8.2	30.7	30.6	90.8	91.0	6.2	6.2	7.6	7.8	3	4	85	87	821075	805809	<0.2	<0.2	1.2	1.1	
						3.2	0.3	235	26.4	8.2	8.2	30.5	30.6	91.1	91.0	6.2	6.2	7.8	7.8	4	4	86	87	821075	805809	<0.2	<0.2	1.1	1.1		
					Bottom	5.4	0.3	224	26.4	26.4	8.2	8.2	31.1	31.1	93.9	94.0	6.4	6.4	9.3	9.0	4	5	87	87	821075	805809	<0.2	<0.2	1.1	1.2	
						5.4	0.3	236	26.4	8.2	8.2	31.1	31.1	94.0	94.0	6.4	6.4	9.3	9.0	4	5	87	87	821075	805809	<0.2	<0.2	1.2	1.2		
IM7	Rainy	Moderate	08:44	7.8	Surface	1.0	0.4																								

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

Water Quality Monitoring

Water Quality Monitoring Results on 18 October 18 during Mid-Ebb Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)					
									Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA		
IM9	Rainy	Moderate	08:38	7.4	Surface	1.0	0.2	186	26.1	26.1	8.1	8.1	28.8	28.8	88.3	88.4	6.1	6.1	5.9	6.1	2	81	86	82	822084	808804	<0.2	<0.2	1.2	1.1				
						1.0	0.2	187	26.1	26.1	8.1	8.1	28.8	28.8	88.4	88.4	6.1	6.1	5.9	6.1	3	82	86	82			<0.2	<0.2	1.1	1.1				
					Middle	3.7	0.2	154	26.2	26.2	8.2	8.2	29.4	29.4	88.3	88.3	6.1	6.1	6.4	6.4	3	86	86	86			<0.2	<0.2	1.1	1.1				
						3.7	0.2	164	26.2	26.2	8.2	8.2	29.4	29.4	88.2	88.3	6.0	6.0	6.5	6.5	3	86	86	86			<0.2	<0.2	1.1	1.1				
					Bottom	6.4	0.0	1	26.5	26.5	8.2	8.2	30.3	30.3	88.3	88.4	6.0	6.0	7.2	7.2	5	90	90	90			<0.2	<0.2	1.1	1.1				
						6.4	0.0	1	26.5	26.5	8.2	8.2	30.3	30.3	88.4	88.4	6.0	6.0	7.2	7.2	6	90	90	90			<0.2	<0.2	1.1	1.1				
IM10	Rainy	Moderate	08:30	9.0	Surface	1.0	0.2	133	26.0	26.0	8.1	8.1	28.9	28.9	88.4	88.4	6.1	6.1	6.1	6.1	5	81	86	82	822371	809778	<0.2	<0.2	1.3	1.3				
						1.0	0.2	137	26.0	26.0	8.1	8.1	28.9	28.9	88.3	88.3	6.1	6.1	6.1	6.1	5	82	86	82			<0.2	<0.2	1.3	1.3				
					Middle	4.5	0.2	122	26.5	26.5	8.2	8.2	30.7	30.7	87.1	87.2	5.9	5.9	8.0	8.0	5	86	86	86			<0.2	<0.2	1.3	1.3				
						4.5	0.3	129	26.5	26.5	8.2	8.2	30.7	30.7	87.2	87.2	5.9	5.9	8.0	8.0	4	86	86	86			<0.2	<0.2	1.3	1.3				
					Bottom	8.0	0.2	119	26.5	26.5	8.2	8.2	30.8	30.8	87.7	87.7	5.9	5.9	11.3	11.3	5	90	90	90			<0.2	<0.2	1.2	1.2				
						8.0	0.2	121	26.5	26.5	8.2	8.2	30.8	30.8	87.7	87.7	5.9	5.9	11.4	11.4	4	90	90	90			<0.2	<0.2	1.2	1.2				
IM11	Rainy	Moderate	08:17	9.3	Surface	1.0	0.2	132	26.2	26.2	8.2	8.2	29.3	29.3	87.0	87.0	6.0	6.0	6.8	6.8	5	81	86	81	822031	811471	<0.2	<0.2	1.2	1.2				
						1.0	0.2	134	26.2	26.2	8.2	8.2	29.3	29.3	86.9	87.0	6.0	6.0	6.8	6.8	5	81	86	81			<0.2	<0.2	1.3	1.3				
					Middle	4.7	0.2	129	26.2	26.2	8.2	8.2	29.4	29.4	85.9	85.9	5.9	5.9	7.7	7.7	5	87	86	87			<0.2	<0.2	1.3	1.3				
						4.7	0.3	137	26.2	26.2	8.2	8.2	29.4	29.4	85.8	85.9	5.9	5.9	7.7	7.7	6	86	86	86			<0.2	<0.2	1.2	1.2				
					Bottom	8.3	0.1	112	26.5	26.5	8.2	8.2	30.6	30.6	85.7	85.8	5.8	5.8	10.8	10.8	4	90	90	90			<0.2	<0.2	1.2	1.2				
						8.3	0.1	112	26.5	26.5	8.2	8.2	30.6	30.6	85.8	85.8	5.8	5.8	10.8	10.8	4	91	90	91			<0.2	<0.2	1.2	1.2				
IM12	Rainy	Moderate	08:08	10.6	Surface	1.0	0.2	95	25.9	25.9	8.2	8.2	28.5	28.5	88.7	88.7	6.1	6.1	6.3	6.3	3	82	86	81	821454	812054	<0.2	<0.2	1.2	1.2				
						1.0	0.3	100	25.9	25.9	8.2	8.2	28.5	28.5	88.7	88.7	6.1	6.1	6.3	6.3	2	81	86	81			<0.2	<0.2	1.2	1.2				
					Middle	5.3	0.3	119	26.1	26.1	8.2	8.2	28.8	28.8	87.5	87.5	6.0	6.0	6.8	6.8	4	85	86	85			<0.2	<0.2	1.2	1.2				
						5.3	0.3	121	26.1	26.1	8.2	8.2	28.8	28.8	87.4	87.5	6.0	6.0	6.8	6.8	3	87	86	87			<0.2	<0.2	1.2	1.2				
					Bottom	9.6	0.1	98	26.3	26.3	8.2	8.2	29.7	29.7	87.9	87.9	6.0	6.0	7.6	7.6	4	90	90	90			<0.2	<0.2	1.2	1.2				
						9.6	0.1	105	26.3	26.3	8.2	8.2	29.7	29.7	87.9	87.9	6.0	6.0	7.7	7.7	4	88	86	88			<0.2	<0.2	1.2	1.2				
SR2	Rainy	Moderate	07:40	4.3	Surface	1.0	0.2	88	25.9	25.9	8.0	8.0	28.9	28.9	88.2	88.2	6.1	6.1	5.7	5.7	4	81	86	82	84	821469	814144	<0.2	<0.2	1.3	1.3			
						1.0	0.2	94	25.9	25.9	8.0	8.0	28.9	28.9	88.1	88.2	6.1	6.1	5.7	5.7	4	82	86	82				<0.2	<0.2	1.2	1.2			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				<0.2	<0.2	-	-			
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			<0.2	<0.2	-	-				
					Bottom	3.3	0.2	87	26.4	26.4	8.0	8.0	29.8	29.8	83.6	83.6	5.7	5.7	7.4	7.4	2	85	86	85			<0.2	<0.2	1.2	1.2				
						3.3	0.2	94	26.4	26.4	8.0	8.0	29.8	29.8	83.5	83.6	5.7	5.7	7.5	7.5	3	86	86	86			<0.2	<0.2	1.3	1.3				
SR3	Rainy	Moderate	08:51	9.1	Surface	1.0	0.4	183	26.1	26.1	8.2	8.2	28.9	28.9	88.6	88.6	6.1	6.1	6.1	6.1	3	-	-	-	-	822166	807587	-	-	-	-			
						1.0	0.4	189	26.1	26.1	8.2	8.2	28.9	28.9	88.5	88.6	6.1	6.1	6.1	6.1	3	-	-	-				-	-	-	-			
					Middle	4.6	0.3	200	26.3	26.3	8.2	8.2	29.9	29.9	88.2	88.2	6.0	6.0	6.9	6.9	3	-	-	-				-	-	-	-	-	-	
						4.6	0.3	215	26.3	26.3	8.2	8.2	29.9	29.9	88.1	88.2	6.0	6.0	6.9	6.9	3	-	-	-				-	-	-	-	-	-	
					Bottom	8.1	0.2	261	26.4	26.4	8.2	8.2	30.6	30.6	88.6	88.6	6.0	6.0	7.4	7.4	2	-	-	-				-	-	-	-	-	-	-
						8.1	0.2	280	26.4	26.4	8.2	8.2	30.6	30.6	88.5	88.6	6.0	6.0	7.4	7.4	3	-	-	-				-	-	-	-	-	-	-
SR4A	Rainy	Moderate	07:20	8.2	Surface	1.0	0.3	255	26.0	26.0	8.2	8.2	30.8	30.8	91.6	91.6	6.2	6.2	3.7	3.7	5	-	-	-	-	817202	807813	-	-	-	-			
						1.0	0.3	264	26.0	26.0	8.2	8.2	30.8	30.8	91.6	91.6	6.3	6.3	3.7	3.7	6	-	-	-				-	-	-	-			
					Middle	4.1	0.3	250	26.5	26.5	8.2	8.2	32.0	32.1	90.9	90.9	6.1	6.1	4.8	4.8	4	-	-	-				-	-	-	-	-	-	
						4.1	0.3	250	26.5	26.5	8.2	8.2	32.1	32.1	90.9	90.9	6.1	6.1	4.9	4.9	4	-	-	-				-	-	-	-	-	-	
					Bottom	7.2	0.2	251	26.6	26.6	8.2	8.2	32.4	32.4	91.3	91.3	6.1	6.1	5.4	5.4	3	-	-	-				-	-	-	-	-	-	-
						7.2	0.2	261	26.6	26.6	8.2	8.2	32.4	32.4	91.3	91.3	6.1	6.1	5.4	5.4	4	-	-	-	-	-	-	-	-	-	-			
SR5A	Rainy	Moderate	07:02	3.8	Surface	1.0	0.1	311	26.3	26.4	8.1	8.1	27.1	27.0	77.3	77.3	5.4	5.4	4.9	4.9	7	-	-	-	-	816616	810712	-	-	-	-			
						1.0	0.1	339	26.4	26.4	8.1	8.1	26.9	26.9	77.2	77.2	5.3	5.3	5.4	5.4	5	-	-	-				-	-	-	-	-		
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	-	-	-	-
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	-	-	-	-
					Bottom	2.8	0.1	317	26.5	26.5	8.0	8.0	29.9	30.0	78.2	78.4	5.3	5.4	6.0	6.0	6	-	-	-				-	-	-	-	-	-	-
						2.8	0.1	345	26.4	26.4	8.0	8.0	30.0	30.0	78.6	78.4	5.4	5.4	6.0	6.0	6	-	-	-	-	-	-	-	-	-	-	-		
SR6	Rainy	Moderate	06:41	4.1	Surface	1.0	0.1	299	26.2	26.2	8.0	8.0	26.8	26.9	78.8	78.8	5.5	5.5	7.3	7.3	5	-	-	-	-	817918	814669	-	-	-	-			
						1.0	0.1	301	26.2	26.2	8.1	8.0	26.9	26.9	78.7	78.8	5.5	5.5	8.0	8.0	6	-	-	-				-	-	-	-	-		
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	-	-	-	-
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	-	-	-	-
					Bottom	3.1	0.0	321	26.5	26.5	8.0	8.0	29.9	29.9	80.6	81.6	5.5	5.5	5.7	5.7	5	-	-	-				-	-	-	-	-	-	-
						3.1	0.0	333	26.5	26.5	8.0	8.0	29.9	29.9	82.6	81.6	5.6	5.6	5.6	5.6	6	-	-	-	-	-	-	-	-	-	-	-		
SR7	Rainy	Moderate	06:37	15.9	Surface	1.0	0.3	66	25.9	25.9	8.1	8.1	29.0	29.0	87.4	87.4	6.0	6.0	5.6	5.6	3	-	-	-	-	823640	823765	-	-	-	-			
						1.0	0.3	69	25.9	25.9	8.1	8.1	29.0	29.0	87.3	87.4	6.0	6.0	5.6	5.6	3	-	-	-				-	-	-	-	-		
					Middle	8.0	0.1	329	26.6	26.6	8.1	8.1	31.9	31.9	85.2	85.2	5.7	5.7	6.2	6.2	3	-	-	-				-	-	-	-	-	-	-
						8.0	0.1	337	26.6	26.6	8.1	8.1	31.9	31.9	85.2	85.2	5.7	5.7	6.1	6.1	2	-	-	-				-	-	-	-	-	-	-
					Bottom	14.9	0.3	304	26.7	26.7	8.1	8.1	32.2	32.2	85.9	85.9	5.7	5.7	6.4	6.4	2	-	-	-				-	-	-	-	-	-	-
						14.9	0.3	318	26.7	26.7	8.1	8.1	32.3	32.2	85.8	85.8	5.7	5.7	6.4	6.4														

Water Quality Monitoring

Water Quality Monitoring Results on 18 October 18 during Mid-Flood Tide

Water Quality Monitoring Results on 10 October 10 during mid-tide																																					
Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)								
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA					
C1	Fine	Moderate	15:45	8.6	Surface	1.0	0.3	23	26.3	26.3	8.2	8.2	31.0	31.0	94.8	94.8	6.4	6.4	3.7	3	6	81	85	81	85	815594	804232	<0.2	<0.2	0.7	0.8						
						1.0	0.3	25	26.3	8.2	8.2	31.0	31.0	94.8	94.8	6.4	6.4	3.8	4	6	81	85	81	85													
					Middle	4.3	0.4	32	26.6	26.6	8.2	8.2	32.4	32.4	95.0	95.0	6.4	6.4	10.0	6	6	85	88	85	88							<0.2	<0.2	0.7	0.8		
						4.3	0.4	32	26.6	8.2	8.2	32.4	32.4	95.0	95.0	6.4	6.4	10.0	7	7	85	88	85	88													
					Bottom	7.6	0.4	30	26.6	26.6	8.2	8.2	32.5	32.5	97.1	97.1	6.5	6.5	11.5	7	7	88	90	88	90							<0.2	<0.2	0.8	0.8		
						7.6	0.4	30	26.6	8.2	8.2	32.5	32.5	97.2	97.2	6.5	6.5	11.5	7	7	90	90	90	90													
C2	Cloudy	Moderate	15:05	11.4	Surface	1.0	0.1	276	25.9	25.9	8.1	8.1	26.9	26.9	88.8	88.7	6.2	6.0	5.9	4	4	82	87	82	87	825674	806920	<0.2	<0.2	1.7	1.7						
						1.0	0.1	280	25.9	8.1	8.1	26.9	26.9	88.6	88.6	6.2	6.0	5.8	3	3	82	87	82	87													
					Middle	5.7	0.1	352	26.6	26.6	8.1	8.1	29.7	29.7	84.1	84.1	5.7	5.7	6.5	4	4	87	92	87	92							<0.2	<0.2	1.7	1.7		
						5.7	0.2	324	26.6	8.1	8.1	29.7	29.7	84.0	84.0	5.7	5.7	6.5	3	3	87	92	87	92													
					Bottom	10.4	0.1	300	26.6	26.6	8.1	8.1	30.5	30.5	84.7	84.7	5.7	5.7	7.9	3	3	92	92	92	92							<0.2	<0.2	1.7	1.7		
						10.4	0.2	328	26.6	8.1	8.1	30.5	30.5	84.7	84.7	5.7	5.7	7.9	4	4	92	92	92	92													
C3	Cloudy	Moderate	17:04	11.7	Surface	1.0	0.4	250	26.2	26.2	8.2	8.2	30.1	30.1	88.3	88.3	6.0	5.8	5.3	2	2	81	85	81	85	822124	817776	<0.2	<0.2	1.2	1.3						
						1.0	0.4	270	26.2	8.2	8.2	30.1	30.1	88.2	88.2	6.0	5.8	5.3	<2	4	82	86	82	86													
					Middle	5.9	0.3	258	26.6	26.6	8.2	8.2	31.7	31.7	83.3	83.2	5.6	5.6	7.0	4	4	86	90	86	90							<0.2	<0.2	1.3	1.2		
						5.9	0.3	267	26.6	8.2	8.2	31.7	31.7	83.1	83.7	5.6	5.6	7.0	4	4	85	89	85	89													
					Bottom	10.7	0.2	270	26.7	26.7	8.1	8.1	31.9	31.9	83.7	83.7	5.6	5.6	8.1	4	4	90	92	90	92							<0.2	<0.2	1.3	1.3		
						10.7	0.2	294	26.7	8.1	8.1	31.9	31.9	83.7	83.7	5.6	5.6	8.1	5	5	89	92	89	92													
IM1	Fine	Moderate	15:26	5.2	Surface	1.0	0.1	12	26.5	26.5	8.2	8.2	31.9	31.9	91.8	91.8	6.2	6.2	5.8	5	5	80	81	80	81	817956	807142	<0.2	<0.2	0.6	0.7						
						1.0	0.1	12	26.5	8.2	8.2	31.9	31.9	91.8	91.8	6.2	6.2	5.9	6	6	81	81	81	81													
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							-	-	<0.2	<0.2	-	-
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							-	-				
					Bottom	4.2	0.1	3	26.5	26.5	8.2	8.2	31.9	31.9	94.4	94.5	6.3	6.4	10.6	5	5	85	86	85	86							<0.2	<0.2	0.6	0.7		
						4.2	0.1	3	26.5	8.2	8.2	31.9	31.9	94.6	94.6	6.4	6.4	10.7	4	4	86	86	86	86													
IM2	Cloudy	Moderate	15:19	8.6	Surface	1.0	0.1	333	26.3	26.3	8.2	8.2	30.9	30.9	92.4	92.5	6.3	6.3	7.2	8	7	81	81	81	81	818152	806172	<0.2	<0.2	0.7	0.8						
						1.0	0.1	306	26.3	8.2	8.2	30.9	30.9	92.5	92.5	6.3	6.3	7.2	7	7	81	86	81	86													
					Middle	4.3	0.1	332	26.5	26.5	8.2	8.2	30.9	30.9	93.7	93.8	6.3	6.3	7.8	7	7	86	86	86	86							<0.2	<0.2	0.8	0.8		
						4.3	0.1	349	26.5	8.2	8.2	30.9	30.9	93.8	93.8	6.3	6.3	7.8	7	7	86	89	86	89													
					Bottom	7.6	0.1	55	26.5	26.5	8.2	8.2	32.3	32.3	96.4	96.5	6.5	6.5	7.6	7	7	89	90	89	90							<0.2	<0.2	0.8	0.8		
						7.6	0.1	57	26.5	8.2	8.2	32.3	32.3	96.6	96.6	6.5	6.5	7.6	8	8	90	90	90	90													
IM3	Cloudy	Rough	15:13	7.2	Surface	1.0	0.3	-	26.3	26.3	8.2	8.2	30.6	30.6	91.9	92.0	6.2	6.3	3.2	3	3	85	86	85	86	818781	805591	<0.2	<0.2	0.8	0.9						
						1.0	0.3	-	26.3	8.2	8.2	30.6	30.6	92.0	92.0	6.3	6.3	3.5	3	3	86	89	86	89													
					Middle	3.6	0.2	32	26.6	26.5	8.2	8.2	32.3	32.3	93.2	93.3	6.2	6.3	7.8	2	2	89	91	89	91							<0.2	<0.2	0.9	0.8		
						3.6	0.2	32	26.5	8.2	8.2	32.4	32.3	93.3	93.3	6.3	6.3	7.8	<2	4	91	92	91	92													
					Bottom	6.2	0.3	39	26.6	26.6	8.2	8.2	32.4	32.4	95.1	95.1	6.4	6.4	13.4	2	2	92	93	92	93							<0.2	<0.2	0.8	0.8		
						6.2	0.3	41	26.6	8.2	8.2	32.4	32.4	95.1	95.1	6.4	6.4	13.5	2	2	93	93	93	93													
IM4	Cloudy	Rough	15:04	7.4	Surface	1.0	0.3	342	26.3	26.3	8.2	8.2	30.2	30.2	93.3	93.4	6.4	6.4	2.6	2	2	81	82	81	82	819710	804598	<0.2	<0.2	0.9	1.0						
						1.0	0.3	350	26.3	8.2	8.2	30.2	30.2	93.4	93.4	6.4	6.4	2.7	<2	2	82	86	82	86													
					Middle	3.7	0.4	28	26.4	26.4	8.2	8.2	31.3	31.3	94.4	94.4	6.4	6.4	7.7	<2	2	86	87	86	87							<0.2	<0.2	1.0	0.9		
						3.7	0.4	28	26.4	8.2	8.2	31.3	31.3	94.4	94.4	6.4	6.4	7.9	<2	2	87	89	87	89													
					Bottom	6.4	0.3	22	26.6	26.6	8.2	8.2	32.4	32.4	97.1	97.2	6.5	6.5	15.8	2	2	89	90	89	90							<0.2	<0.2	1.0	1.0		
						6.4	0.3	22	26.6	8.2	8.2	32.4	32.4	97.2	97.2	6.5	6.5	16.1	3	3	90	90	90	90													
IM5	Cloudy	Rough	14:57	6.7	Surface	1.0	0.3	336	26.3	26.3	8.2	8.2	30.0	30.0	92.3	92.3	6.3	6.3	3.9	3	3	81	82	81	82	820727	804850	<0.2	<0.2	1.1	1.1						
						1.0	0.3	347	26.3	8.2	8.2	29.9	29.9	92.2	92.3	6.3	6.3	4.1	4	3	82	85	82	85													
					Middle	3.4	0.3	354	26.5	26.5	8.2	8.2	31.0	31.0	92.3	92.3	6.2	6.2	7.1	3	3	85	86	85	86							<0.2	<0.2	1.0	1.3		
						3.4	0.3	326	26.5	8.2	8.2	31.0	31.0	92.3	92.3	6.2	6.2	7.3	3	3	86	89	86	89													
					Bottom	5.7	0.2	327	26.6	26.6	8.2	8.2	32.2	32.2	94.8	94.9	6.4	6.4	10.5	3	3	89	90	89	90							<0.2	<0.2	1.1	1.1		
						5.7	0.2	336	26.6	8.2	8.2	32.2	32.2	94.9	94.9	6.4	6.4	10.4	2	2	90	90	90	90													
IM6	Cloudy	Moderate	14:50	6.6	Surface	1.0	0.2	347	26.3	26.3	8.2	8.2	28.9	28.9	91.3	91.3	6.3	6.3	2.8	2	2	79	84	79	84	821070	805813	<0.2	<0.2	1.3	1.3						
						1.0	0.2	319	26.3	8.2	8.2	28.9	28.9	91.3	91.3	6.3	6.3	2.9	3	3	79	84	79	84													
					Middle	3.3	0.2	351	26.3	26.3	8.2	8.2	29.4	29.4	92.0	92.1	6.3	6.3	6.5	3	3	84	85	84	85							<0.2	<0.2	1.3	1.2		
						3.3	0.2	323	26.3	8.2	8.2	29.4	29.4	92.1	92.1	6.3	6.3	6.5	4	4	85	87	85	87													
					Bottom	5.6	0.3	-	26.4	26.4	8.2	8.2	30.2	30.2	95.8	95.9	6.5	6.5	13.0	3	3	87	90	87	90							<0.2	<0.2	1.3	1.3		
						5.6	0.3	-	26.4	8.2	8.2	30.3	30.2	96.0	96.0	6.5	6.5	14.0	4	4	87	87	87	87													
IM7	Cloudy	Moderate	14:40	8.2	Surface	1.0	0.1	223	26.4	26.4	8.1	8.1	28.4	28.4	89.4	89.4	6.1	6.1	1.1	4	3	82	83	82	83	821344	806844	<0.2	<0.2	1.4	1.5						
						1.0	0.1	240	26.4	8.1	8.1	28.4	28.4	89.4	89.4	6.1	6.1	1.1	3	2	83	85	83	85													
					Middle	4.1	0.1	281	26.4	26.4	8.1	8.1	29.0	29.0	90.6	90.6	6.2	6.2	1.4	3	3	85	85	85	85							<0.2	<0.2	1.4	1.5		
						4.1	0.1	306	26.4	8.1	8.1	29.0	29.0	90.6	90.6	6.2	6.2	1.4	3	3	85	90	85	90													
					Bottom	7.2	0.1	293	26.4	26.4	8.1	8.1	29.0	29.0	92.4	92.5	6.3	6.3	1.6	3	3	90	90	90	90							<0.2	<0.2	1.5	1.5		
						7.2	0.1	296	26.4	8.1	8.1	29.0	29.0	92.5	92.5	6.3	6.3	1.7	3	3	90	90	90	90													
IM8	Cloudy	Moderate	15:31	7.5	Surface	1.0	0.1																														

DA: Depth-Averaged

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

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

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

Water Quality Monitoring

Water Quality Monitoring Results on 18 October 18 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
IM9	Cloudy	Moderate	15:38	7.2	Surface	1.0	0.1	33	26.4	26.4	8.3	8.3	29.1	29.1	91.0	91.0	6.2	6.2	10.5	9	83	88	822081	808803	<0.2		1.7			
						1.0	0.1	36	26.4	26.4	8.3		29.1		91.0	6.2	6.2	10.5	10	84			<0.2		1.7					
					Middle	3.6	0.1	34	26.4	26.4	8.3	8.3	29.1	29.1	90.0	6.2	6.2	10.2	9	88			<0.2		1.7					
						3.6	0.1	34	26.4	26.4	8.3		29.1		90.1	6.2	6.2	10.3	9	87			<0.2		1.7					
					Bottom	6.2	0.0	100	26.5	26.5	8.2	8.2	30.1	30.1	88.9	6.0	6.0	8.6	8	92			<0.2		1.7					
						6.2	0.0	104	26.5	26.5	8.2		30.1		88.8	6.0	6.0	8.7	8	91			<0.2		1.8					
IM10	Cloudy	Moderate	15:45	6.3	Surface	1.0	0.4	311	26.1	26.1	8.2	8.2	28.7	28.7	90.1	90.1	6.2	6.0	6.0	3	83	87	822376	809807	<0.2		1.4			
						1.0	0.4	337	26.1	26.1	8.2		28.7		90.0	6.2	6.0	6.0	4	83			<0.2		1.5					
					Middle	3.2	0.4	317	26.5	26.5	8.2	8.2	30.3	30.3	82.8	5.6	7.5	7.5	3	88			<0.2		1.4					
						3.2	0.4	343	26.5	26.5	8.2		30.3		82.8	5.6	7.6	7.6	3	87			<0.2		1.4					
					Bottom	5.3	0.3	320	26.5	26.5	8.2	8.2	30.5	30.5	83.5	5.7	9.2	9.2	4	91			<0.2		1.5					
						5.3	0.3	320	26.5	26.5	8.2		30.5		83.6	5.7	9.3	9.3	3	91			<0.2		1.5					
IM11	Cloudy	Moderate	15:59	7.4	Surface	1.0	0.5	302	26.2	26.2	8.2	8.2	29.1	29.1	87.8	87.8	6.0	6.6	6.6	2	83	87	822040	811456	<0.2		1.4			
						1.0	0.5	313	26.2	26.2	8.2		29.1		87.8	6.0	6.6	6.6	3	83			<0.2		1.4					
					Middle	3.7	0.4	294	26.4	26.4	8.2	8.2	29.8	29.8	84.6	5.8	8.3	8.3	4	87			<0.2		1.4					
						3.7	0.4	311	26.4	26.4	8.2		29.8		84.6	5.8	8.4	8.4	3	87			<0.2		1.4					
					Bottom	6.4	0.2	292	26.6	26.6	8.2	8.2	31.0	31.0	84.2	5.7	11.5	11.5	4	91			<0.2		1.4					
						6.4	0.2	302	26.6	26.6	8.2		31.0		84.2	5.7	11.5	11.5	5	91			<0.2		1.5					
IM12	Cloudy	Moderate	16:07	8.4	Surface	1.0	0.4	274	26.4	26.4	8.2	8.2	30.0	30.0	84.4	84.4	5.8	7.4	7.4	3	83	87	821446	812024	<0.2		1.3			
						1.0	0.5	296	26.4	26.4	8.2		30.0		84.4	5.8	7.4	7.4	3	83			<0.2		1.3					
					Middle	4.2	0.3	290	26.5	26.5	8.2	8.2	30.4	30.4	83.4	5.7	8.8	8.8	3	87			<0.2		1.3					
						4.2	0.3	317	26.5	26.5	8.2		30.4		83.4	5.7	8.8	8.8	4	87			<0.2		1.3					
					Bottom	7.4	0.2	263	26.5	26.5	8.2	8.2	30.8	30.8	83.5	5.7	9.7	9.7	3	90			<0.2		1.3					
						7.4	0.2	281	26.5	26.5	8.2		30.8		83.5	5.7	9.7	9.7	3	92			<0.2		1.3					
SR2	Cloudy	Moderate	16:34	4.7	Surface	1.0	0.3	323	26.2	26.2	8.3	8.3	29.1	29.1	89.8	89.8	6.2	7.3	7.3	2	83	86	821443	814155	<0.2		1.3			
						1.0	0.3	351	26.2	26.2	8.3		29.1		89.8	6.2	7.3	7.3	2	83			<0.2		1.3					
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.2		-		
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.2		-		
					Bottom	3.7	0.1	319	26.3	26.3	8.3	8.3	29.6	29.6	88.6	6.1	8.7	8.7	<2	88			<0.2		1.3					
						3.7	0.1	342	26.3	26.3	8.3		29.6		88.7	6.1	8.7	8.7	<2	89			<0.2		1.4					
SR3	Cloudy	Moderate	15:25	8.6	Surface	1.0	0.1	239	26.6	26.6	8.1	8.1	28.6	28.6	89.2	89.3	6.1	5.6	5.6	<2	-	-	822137	807546	-	-	-			
						1.0	0.1	259	26.6	26.6	8.1		28.6		89.4	6.1	5.6	5.6	<2	-	-			-	-	-				
					Middle	4.3	0.1	316	26.4	26.4	8.1	8.1	29.0	29.0	90.1	6.2	5.7	5.7	<2	-	-			-	-	-				
						4.3	0.1	339	26.4	26.4	8.1		29.0		90.2	6.2	5.7	5.7	<2	-	-			-	-	-				
					Bottom	7.6	0.1	198	26.4	26.4	8.0	8.0	29.4	29.4	89.7	6.1	6.7	6.7	2	-	-			-	-	-				
						7.6	0.1	216	26.4	26.4	8.0		29.4		89.8	6.1	6.7	6.7	<2	-	-			-	-	-				
SR4A	Fine	Moderate	16:04	9.0	Surface	1.0	0.0	345	26.1	26.1	8.2	8.2	28.1	28.1	89.4	89.4	6.2	3.9	3.9	3	-	-	817184	807799	-	-	-			
						1.0	0.0	317	26.1	26.1	8.2		28.1		89.3	6.2	4.0	4.0	3	-	-			-	-	-				
					Middle	4.5	0.2	70	26.5	26.5	8.2	8.2	31.7	31.7	90.5	6.1	5.5	5.5	4	-	-			-	-	-				
						4.5	0.2	70	26.5	26.5	8.2		31.7		90.5	6.1	5.5	5.5	4	-	-			-	-	-				
					Bottom	8.0	0.2	56	26.5	26.5	8.2	8.2	32.0	32.0	92.6	6.2	6.3	6.3	5	-	-			-	-	-				
						8.0	0.2	58	26.5	26.5	8.2		32.0		92.7	6.2	6.4	6.4	3	-	-			-	-	-				
SR5A	Fine	Moderate	16:20	4.1	Surface	1.0	0.1	247	25.8	25.8	8.2	8.2	27.4	27.4	91.9	91.9	6.4	6.9	6.9	5	-	-	816601	810670	-	-	-			
						1.0	0.1	264	25.8	25.8	8.2		27.4		91.9	6.4	7.2	7.2	5	-	-			-	-	-				
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
					Bottom	3.1	0.1	287	26.0	26.0	8.1	8.1	28.1	28.1	91.8	6.4	13.2	13.2	3	-	-			-	-	-	-			
						3.1	0.1	299	26.0	26.0	8.1		28.1		91.8	6.4	13.2	13.2	3	-	-			-	-	-	-			
SR6	Fine	Moderate	17:00	4.4	Surface	1.0	0.1	57	26.2	26.2	8.1	8.1	28.0	28.0	86.0	86.0	5.9	2.4	2.4	<2	-	-	817894	814645	-	-	-			
						1.0	0.1	59	26.2	26.2	8.1		28.0		86.0	5.9	2.4	2.4	<2	-	-			-	-	-				
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
					Bottom	3.4	0.0	152	26.3	26.3	8.1	8.1	29.1	29.1	85.5	5.9	3.9	3.9	<2	-	-			-	-	-	-			
						3.4	0.0	157	26.3	26.3	8.1		29.1		85.6	5.9	3.9	3.9	<2	-	-			-	-	-	-			
SR7	Cloudy	Moderate	17:53	14.7	Surface	1.0	0.1	343	26.3	26.3	8.2	8.2	30.5	30.5	87.8	87.8	6.0	5.4	5.4	<2	-	-	823640	823753	-	-	-			
						1.0	0.1	316	26.3	26.3	8.2		30.5		87.7	6.0	5.4	5.4	<2	-	-			-	-	-				
					Middle	7.4	0.1	94	26.6	26.6	8.2	8.2	31.8	31.8	83.2	83.2	5.6	7.3	7.3	<2	-	-			-	-	-			
						7.4	0.1	97	26.6	26.6	8.2		31.8		83.2	5.6	7.4	7.4	<2	-	-			-	-	-				
					Bottom	13.7	0.1	95	26.6	26.6	8.2	8.2	31.8	31.8	83.2	83.2	5.6	11.8	11.8	2	-	-			-	-	-			
						13.7	0.1	104	26.6	26.6	8.2		31.8		83.2	5.6	11.9	11.9	4	-	-			-	-	-				
SR8	Cloudy	Moderate	16:22	4.5	Surface	1.0	-	-	26.4	26.4	8.2	8.2	29.8	29.8	83.8	83.8	5.7	8.3	8.3	4	-	-	820510	811652	-	-	-			
						1.0	-	-	26.4	26.4	8.2		29.9		83.8	5.7	8.4	8.4	3	-	-			-	-	-				
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
					Bottom	3.5	-	-	26.6	26.6	8.2	8.2	31.0	31.0	83.2	83.3	5.6	8.9	8.9	6	-	-			-	-	-	-		
						3.5	-	-	26.6	26.6	8.2		31.0		83.3	5.6	8.9	8.9	5	-	-			-	-	-	-			

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

Water Quality Monitoring

Water Quality Monitoring Results on 20 October 18 during Mid-Ebb Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)						
									Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA	Value	DA	
C1	Fine	Moderate	10:02	8.6	Surface	1.0	0.3	225	26.2	26.2	8.2	8.2	32.6	32.6	97.8	97.8	6.6	6.6	6.9	6.9	6	6	83	83	815625	804257	88	<0.2	0.5						
						1.0	0.4	241	26.2	26.2	8.2	8.2	32.6	32.6	97.7	97.7	6.6	6.6	6.9	6.9	6	6	84	84						<0.2	0.5				
					Middle	4.3	0.3	227	26.2	26.2	8.2	8.2	32.6	32.6	97.6	97.6	6.6	6.6	7.2	7.2	5	5	88	88						<0.2	0.5				
						4.3	0.3	236	26.2	26.2	8.2	8.2	32.6	32.6	97.6	97.6	6.6	6.6	7.2	7.2	6	6	89	89						<0.2	0.4				
					Bottom	7.6	0.3	231	26.2	26.2	8.1	8.1	32.6	32.6	97.6	97.7	6.6	6.6	8.4	8.4	6	6	92	92						<0.2	0.5				
						7.6	0.3	252	26.2	26.2	8.1	8.1	32.6	32.6	97.7	97.7	6.6	6.6	8.4	8.4	6	6	93	93						<0.2	0.4				
C2	Fine	Moderate	11:29	9.3	Surface	1.0	0.5	188	26.1	26.1	8.2	8.2	30.6	30.6	96.2	96.2	6.6	6.6	5.5	5.5	5	4	84	84	825672	806956	88	<0.2	0.6						
						1.0	0.6	195	26.1	26.0	8.2	8.2	30.6	30.6	96.1	96.1	6.6	6.5	5.5	5.4	4	4	84	84						<0.2	0.6				
					Middle	4.7	0.9	142	26.0	26.0	8.2	8.2	30.8	30.8	95.4	95.4	6.5	6.5	6.5	6.5	4	4	89	88						<0.2	0.5				
						4.7	0.9	150	26.0	26.0	8.2	8.2	30.8	30.8	95.4	95.5	6.5	6.5	7.5	7.5	4	4	88	93						<0.2	0.5				
					Bottom	8.3	0.5	115	26.0	26.0	8.2	8.2	31.9	31.9	95.5	95.5	6.5	6.5	7.5	7.4	4	4	93	92						<0.2	0.5				
						8.3	0.6	123	26.0	26.0	8.2	8.2	31.9	31.9	95.5	95.5	6.5	6.5	7.5	7.4	4	4	92	92						<0.2	0.6				
C3	Fine	Moderate	09:07	12.2	Surface	1.0	0.5	140	25.7	25.7	8.1	8.1	29.6	29.6	95.9	95.9	6.6	6.6	6.3	6.3	4	4	84	85	822097	817826	89	<0.2	0.4						
						1.0	0.6	143	25.7	25.7	8.1	8.1	29.6	29.6	95.9	95.9	6.6	6.6	6.3	6.3	5	5	85	85						<0.2	0.4				
					Middle	6.1	0.2	97	25.7	25.7	8.1	8.1	29.7	29.7	94.7	94.7	6.5	6.5	6.7	6.7	3	3	89	89						<0.2	0.4				
						6.1	0.3	106	25.7	26.3	8.1	8.1	29.7	29.7	94.7	95.2	6.5	6.4	7.8	7.8	3	4	89	94						<0.2	0.4				
					Bottom	11.2	0.4	62	26.4	26.3	8.2	8.2	32.2	32.2	95.2	95.2	6.4	6.4	7.7	7.7	4	4	94	93						<0.2	0.4				
						11.2	0.4	63	26.3	26.1	8.2	8.2	32.2	32.4	95.2	96.2	6.4	6.5	7.4	7.4	4	4	94	89						<0.2	0.4				
IM1	Fine	Moderate	10:24	5.1	Surface	1.0	0.3	222	26.1	26.1	8.3	8.3	32.4	32.4	96.2	96.2	6.5	6.5	7.4	7.4	4	4	89	89	817963	807155	91	<0.2	0.4						
						1.0	0.3	227	26.1	26.1	8.3	8.3	32.4	32.4	96.2	96.2	6.5	6.5	7.4	7.4	4	4	89	89						<0.2	0.4				
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						-	-	-	-	-	-
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						-	-	-	-	-	-
					Bottom	4.1	0.2	216	26.1	26.1	8.3	8.3	32.4	32.4	96.2	96.2	6.5	6.5	7.7	7.7	7	7	92	92						<0.2	0.4				
						4.1	0.2	236	26.1	26.1	8.3	8.3	32.4	32.4	96.2	96.2	6.5	6.5	7.8	7.8	8	8	92	92						<0.2	0.4				
IM2	Fine	Moderate	10:32	7.2	Surface	1.0	0.4	179	26.1	26.1	8.3	8.3	32.2	32.2	97.7	97.7	6.6	6.6	6.7	6.7	6	6	85	86	818140	806174	89	<0.2	0.4						
						1.0	0.4	179	26.1	26.0	8.3	8.3	32.2	32.2	97.7	97.7	6.6	6.6	6.7	6.7	6	6	86	86						<0.2	0.5				
					Middle	3.6	0.4	175	26.0	26.0	8.3	8.3	32.2	32.2	97.5	97.5	6.6	6.6	7.1	7.1	5	4	89	90						<0.2	0.4				
						3.6	0.4	178	26.0	26.0	8.3	8.3	32.2	32.2	97.5	97.5	6.6	6.6	7.1	7.1	4	4	90	90						<0.2	0.4				
					Bottom	6.2	0.3	169	26.0	26.0	8.3	8.3	32.3	32.3	97.1	97.1	6.6	6.6	7.3	7.3	9	8	92	93						<0.2	0.4				
						6.2	0.3	173	26.0	26.0	8.3	8.3	32.3	32.3	97.1	97.1	6.6	6.6	7.3	7.3	8	8	93	93						<0.2	0.5				
IM3	Fine	Moderate	10:39	7.4	Surface	1.0	0.4	194	26.1	26.1	8.3	8.3	31.8	31.7	97.7	97.7	6.6	6.6	8.3	8.3	8	7	85	86	818795	805620	90	<0.2	0.8						
						1.0	0.4	205	26.1	26.0	8.3	8.3	31.7	31.7	97.6	97.6	6.6	6.6	8.3	8.3	7	7	86	86						<0.2	0.7				
					Middle	3.7	0.3	186	26.0	26.0	8.3	8.3	32.1	32.1	97.4	97.4	6.6	6.6	7.4	7.4	7	7	89	91						<0.2	0.7				
						3.7	0.3	200	26.0	26.0	8.3	8.3	32.1	32.1	97.4	97.4	6.6	6.6	7.4	7.4	7	7	91	91						<0.2	0.7				
					Bottom	6.4	0.2	157	26.0	26.0	8.3	8.3	32.4	32.4	96.7	96.8	6.5	6.5	8.1	8.1	6	5	95	96						<0.2	0.7				
						6.4	0.2	163	26.0	26.0	8.3	8.3	32.4	32.4	96.8	96.8	6.5	6.5	8.1	8.1	5	5	96	96						<0.2	0.9				
IM4	Fine	Moderate	10:49	7.7	Surface	1.0	0.6	217	26.0	26.0	8.3	8.3	31.4	31.4	99.6	99.6	6.8	6.8	5.8	5.8	4	5	88	88	819752	804611	93	<0.2	0.7						
						1.0	0.7	221	26.0	26.0	8.3	8.3	31.4	31.4	99.6	99.6	6.8	6.7	5.8	5.7	5	5	88	92						<0.2	0.7				
					Middle	3.9	0.5	213	26.0	26.0	8.3	8.3	31.5	31.5	98.7	98.7	6.7	6.7	7.6	7.6	6	5	92	92						<0.2	0.8				
						3.9	0.5	220	26.0	26.0	8.3	8.3	31.5	31.5	98.6	98.7	6.7	6.7	7.6	7.6	5	5	92	92						<0.2	0.7				
					Bottom	6.7	0.4	201	26.0	26.0	8.3	8.3	32.0	32.0	98.0	98.1	6.6	6.6	12.1	12.1	5	5	97	97						<0.2	0.7				
						6.7	0.5	212	26.0	26.0	8.3	8.3	32.0	32.0	98.2	98.1	6.7	6.7	12.1	12.1	5	5	98	98						<0.2	0.8				
IM5	Fine	Moderate	11:00	7.0	Surface	1.0	0.5	185	25.9	25.9	8.3	8.3	31.5	31.5	98.9	99.0	6.7	6.7	6.0	6.0	5	5	87	87	820719	804849	89	<0.2	0.6						
						1.0	0.6	193	25.9	25.9	8.3	8.3	31.5	31.5	99.0	99.0	6.7	6.7	6.0	6.0	5	5	87	87						<0.2	0.6				
					Middle	3.5	0.5	186	25.9	25.9	8.3	8.3	31.7	31.7	98.6	98.5	6.7	6.7	6.8	6.8	6	6	87	88						<0.2	0.7				
						3.5	0.5	191	25.9	25.9	8.3	8.3	31.7	31.8	98.4	98.0	6.7	6.7	6.8	8.1	6	5	88	91						<0.2	0.6				
					Bottom	6.0	0.4	187	25.9	25.9	8.3	8.3	31.8	31.8	98.0	97.9	6.7	6.7	8.0	8.0	5	4	91	91						<0.2	0.6				
						6.0	0.4	197	25.9	26.1	8.3	8.2	31.8	30.8	97.8	97.9	6.7	6.7	8.0	5.7	4	6	91	86						<0.2	0.7				
IM6	Fine	Moderate	11:10	6.9	Surface	1.0	0.5	247	26.1	26.1	8.2	8.2	30.8	30.8	97.9	97.9	6.7	6.7	5.7	5.7	6	6	86	86	821061	805856	90	<0.2	0.7						
						1.0	0.5	253	26.1	26.0	8.2	8.3	30.8	31.2	97.9	97.6	6.7	6.6	5.7	6.6	6	5	86	89						<0.2	0.8				
					Middle	3.5	0.5	236	26.0	26.0	8.3	8.3	31.2	31.2	97.6	97.7	6.6	6.6	6.7	6.7	5	5	89	90						<0.2	0.7				
						3.5	0.5	240	26.0	26.0	8.3	8.3	31.2	31.8	97.7	97.8	6.6	6.6	6.7	8.9	4	4	90	92						<0.2	0.7				
					Bottom	5.9	0.3	224	26.0	26.0	8.3	8.3	31.8	31.8	97.8	97.8	6.6	6.6	8.9	8.9	4	4	92	94						<0.2	0.7				
						5.9	0.3	225	26.0	26.0	8.3	8.3	31.8	31.8	97.8	97.8	6.6	6.6	8.9	8.9	4	4	94	94						<0.2	0.7				
IM7	Fine	Moderate	11:20	8.3	Surface	1.0	0.4	249	26.1	26.1	8.2	8.2	30.6	30.6	96.3	96.3	6.6	6.6	5.5	5.5	6	5	84	86	821359	806836	89	<0.2	0.8						
						1.0	0.4	269	26.1	26.1	8.2	8.2	30.6	30.6	96.3	96.3	6.6	6.5	5.4	5.4	5	5	86	89						<0.2	0.8				
					Middle	4.2	0.3	251	26.1	26.1	8.1	8.1	30.7	30.7	95.7	95.7	6.5	6.5	5.9	5.9	5	5	89	90						<0.2	0.7				
						4.2	0.4	260	26.1	26.1	8.1	8.1	30.7	30.7	95.7	95.7	6.5	6.5	5.9	5.9	5	5	90	90						<0.2	0.8				
					Bottom	7.3	0.2	247	26.1	26.1	8.1	8.1	31.8	31.8	96.2	96.3	6.5	6.5	7.8	7.8	6	6	93	94						<0.2	0.8				
						7.3	0.2	266	26.1	26.1	8.1	8.1	31.8	31.8	96.3	96.3	6.5	6.5	7.8	7.8	5	5	94	94						<0.2	0.7				
IM8	Fine	Moderate	10:52	7.7	Surface	1.0	0.3	184	25.9	25.9	8.3	8.3	31.6	31.6	98.8	98.8	6.7	6.7	6.4	6.4	6	6	85	85	821825	808154	89	<0.2	0.6						
						1.0	0.3	194	25.9	25.9	8.3	8.3	31.6	31.7	98.8	97.9	6.7																		

Water Quality Monitoring

Water Quality Monitoring Results on 20 October 18 during Mid-Ebb Tide

DA: Depth-Averaged

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

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

Note: SR8 cannot be accessed due to windy weather. The monitoring at SR8 was slightly shifted to the closest safe and accessible location temporarily.

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

Water Quality Monitoring

Water Quality Monitoring Results on 20 October 18 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)	
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA
C1	Cloudy	Moderate	16:44	8.2	Surface	1.0	0.2	65	26.0	26.0	8.1	8.1	32.1	32.1	99.5	99.6	6.7	7.5	9.0	8	82	88	815616	804237	<0.2		0.6			
						1.0	0.2	65	26.0	26.0	8.1	8.1	32.1	32.1	99.6	99.6	6.7	7.4		8	83				<0.2		0.6			
					Middle	4.1	0.3	48	26.1	26.1	8.1	8.1	32.2	32.2	98.9	99.0	6.7	8.3		8	88				<0.2	<0.2	0.6	0.6		
						4.1	0.3	49	26.1	26.1	8.1	8.1	32.2	32.2	99.0	99.0	6.7	8.4		9	89				<0.2		0.5			
					Bottom	7.2	0.2	46	26.1	26.1	8.0	8.0	32.2	32.2	98.2	98.2	6.6	11.4		10	91				<0.2		0.5			
						7.2	0.3	50	26.1	26.1	8.0	8.0	32.2	32.2	98.2	98.2	6.6	11.2		9	92				<0.2		0.5			
C2	Cloudy	Moderate	15:34	9.1	Surface	1.0	0.5	211	26.1	26.1	8.0	8.0	29.4	29.4	92.6	92.6	6.4	6.1	7.0	<2	87	91	825700	806962	<0.2		0.7			
						1.0	0.5	219	26.1	26.1	8.0	8.0	29.4	29.4	92.6	92.6	6.4	6.2		3	87				<0.2		0.6			
					Middle	4.6	0.6	167	26.2	26.2	8.0	8.0	30.1	30.1	93.5	93.5	6.4	7.0		4	90				<0.2	<0.2	0.7	0.7		
						4.6	0.6	178	26.2	26.2	8.0	8.0	30.1	30.1	93.5	93.5	6.4	7.0		3	91				<0.2		0.7			
					Bottom	8.1	0.1	270	26.3	26.3	8.0	8.0	30.4	30.4	93.5	93.5	6.4	7.8		4	95				<0.2		0.6			
						8.1	0.1	287	26.3	26.3	8.0	8.0	30.4	30.4	93.5	93.5	6.4	7.8		4	95				<0.2		0.7			
C3	Cloudy	Moderate	17:46	12.0	Surface	1.0	0.3	236	25.8	25.8	8.1	8.1	30.1	30.1	96.4	96.5	6.6	8.7	9.1	6	87	91	822094	817817	<0.2		0.6			
						1.0	0.4	242	25.8	25.8	8.1	8.1	30.1	30.1	96.5	96.5	6.6	8.7		7	87				<0.2		0.5			
					Middle	6.0	0.5	254	25.9	25.9	8.0	8.0	30.2	30.2	95.9	95.9	6.6	9.0		7	91				<0.2	<0.2	0.6	0.6		
						6.0	0.5	265	25.9	25.9	8.0	8.0	30.2	30.2	95.9	95.9	6.6	9.1		7	90				<0.2		0.8			
					Bottom	11.0	0.3	277	25.9	25.9	8.0	8.0	30.2	30.2	96.0	96.0	6.6	9.5		6	95				<0.2		0.6			
						11.0	0.3	294	25.9	25.9	8.0	8.0	30.2	30.2	96.0	96.0	6.6	9.5		5	94				<0.2		0.7			
IM1	Cloudy	Moderate	16:24	4.6	Surface	1.0	0.1	45	26.0	26.0	8.2	8.2	31.7	31.7	98.0	98.0	6.7	7.3	7.9	4	85	86	817942	807112	<0.2		0.6			
						1.0	0.1	46	26.0	26.0	8.2	8.2	31.7	31.7	97.9	98.0	6.7	7.3		5	85				<0.2		0.5			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	-	86		<0.2	<0.2	-	0.5
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
					Bottom	3.6	0.1	37	26.0	26.0	8.2	8.2	31.9	31.9	98.6	98.7	6.7	8.4		5	87				<0.2		0.5			
						3.6	0.1	38	26.0	26.0	8.2	8.2	31.9	31.9	98.7	98.7	6.7	8.4		5	87				<0.2		0.5			
IM2	Cloudy	Moderate	16:16	6.9	Surface	1.0	0.2	210	26.0	26.0	8.3	8.3	31.5	31.5	100.0	100.0	6.8	7.4	7.8	5	84	88	818176	806192	<0.2		0.6			
						1.0	0.2	211	26.0	26.0	8.3	8.3	31.5	31.5	99.9	100.0	6.8	7.4		5	85				<0.2		0.7			
					Middle	3.5	0.0	209	26.0	26.0	8.3	8.3	31.5	31.5	99.3	99.3	6.7	7.9		4	88				<0.2	<0.2	0.7	0.7		
						3.5	0.0	225	26.0	26.0	8.3	8.3	31.5	31.5	99.2	99.3	6.7	7.8		6	89				<0.2		0.7			
					Bottom	5.9	0.1	57	26.0	26.0	8.3	8.3	31.6	31.6	99.1	99.1	6.7	8.1		6	92				<0.2		0.6			
						5.9	0.1	58	26.0	26.0	8.3	8.3	31.6	31.6	99.1	99.1	6.7	8.1		5	92				<0.2		0.7			
IM3	Cloudy	Moderate	16:08	7.1	Surface	1.0	0.2	255	26.0	26.0	8.2	8.2	31.1	31.1	100.4	100.4	6.8	7.2	7.3	10	84	88	818778	805601	<0.2		0.8			
						1.0	0.3	256	26.0	26.0	8.2	8.2	31.1	31.1	100.3	100.3	6.8	7.2		8	84				<0.2		0.8			
					Middle	3.6	0.2	271	26.0	26.0	8.2	8.2	31.1	31.1	99.7	99.7	6.8	7.2		6	87				<0.2	<0.2	0.7	0.8		
						3.6	0.2	280	26.0	26.0	8.2	8.2	31.1	31.1	99.7	99.7	6.8	7.2		8	88				<0.2		0.8			
					Bottom	6.1	0.2	272	26.0	26.0	8.2	8.2	31.1	31.1	99.8	99.8	6.8	7.5		6	92				<0.2		0.7			
						6.1	0.2	286	26.0	26.0	8.2	8.2	31.1	31.1	99.8	99.8	6.8	7.4		8	93				<0.2		0.7			
IM4	Cloudy	Moderate	15:58	7.4	Surface	1.0	0.2	343	26.0	26.0	8.2	8.2	31.0	31.0	98.8	98.8	6.7	9.6	11.0	7	83	87	819729	804635	<0.2		0.9			
						1.0	0.2	316	26.0	26.0	8.2	8.2	31.0	31.0	98.8	98.8	6.7	9.7		7	83				<0.2		1.0			
					Middle	3.7	0.2	-	26.0	26.0	8.2	8.2	31.5	31.5	98.7	98.8	6.7	12.6		8	87				<0.2	<0.2	1.0	1.0		
						3.7	0.2	-	26.0	26.0	8.2	8.2	31.5	31.5	98.8	98.8	6.7	12.6		8	87				<0.2		1.0			
					Bottom	6.4	0.1	349	26.0	26.0	8.2	8.2	31.7	31.7	98.6	98.6	6.7	10.8		9	92				<0.2		1.0			
						6.4	0.1	354	26.0	26.0	8.2	8.2	31.7	31.7	98.6	98.6	6.7	10.8		8	92				<0.2		1.0			
IM5	Cloudy	Moderate	15:49	6.7	Surface	1.0	0.5	254	26.2	26.2	8.1	8.1	30.0	30.0	95.0	95.1	6.5	6.8	8.7	6	84	88	820734	804887	<0.2		0.9			
						1.0	0.6	261	26.2	26.2	8.1	8.1	30.0	30.0	95.1	95.1	6.5	6.8		7	86				<0.2		0.9			
					Middle	3.4	0.4	253	26.2	26.2	8.1	8.1	30.2	30.2	95.0	95.0	6.5	10.1		8	88				<0.2	<0.2	1.0	1.2		
						3.4	0.4	263	26.2	26.2	8.1	8.1	30.2	30.2	95.0	95.0	6.5	10.3		8	89				<0.2		1.3			
					Bottom	5.7	0.3	251	26.2	26.2	8.1	8.1	30.4	30.4	96.0	96.0	6.5	9.0		8	89				<0.2		1.5			
						5.7	0.4	261	26.2	26.2	8.1	8.1	30.4	30.4	96.0	96.0	6.6	9.0		9	90				<0.2		1.5			
IM6	Cloudy	Moderate	15:42	6.5	Surface	1.0	0.6	268	26.2	26.2	8.1	8.1	29.8	29.8	93.8	93.9	6.4	6.9	9.1	6	82	88	821030	805829	<0.2		1.2			
						1.0	0.6	279	26.2	26.2	8.1	8.1	29.8	29.8	93.9	93.9	6.4	6.9		7	83				<0.2		1.3			
					Middle	3.3	0.5	277	26.2	26.2	8.1	8.1	30.2	30.2	94.2	94.2	6.4	9.2		4	88				<0.2	<0.2	1.4	1.6		
						3.3	0.5	304	26.2	26.2	8.1	8.1	30.2	30.2	94.2	94.2	6.4	9.2		5	90				<0.2		1.6			
					Bottom	5.5	0.4	275	26.2	26.2	8.1	8.1	30.3	30.3	94.7	94.7	6.5	11.3		3	91				<0.2		1.9			
						5.5	0.4	286	26.2	26.2	8.1	8.1	30.3	30.3	94.8	94.8	6.5	11.3		3	92				<0.2		2.0			
IM7	Cloudy	Moderate	15:35	7.4	Surface	1.0	0.5	230	26.2	26.2	8.0	8.0	29.4	29.4	93.1	93.1	6.4	6.5	7.2	5	87	92	821362	806807	<0.2		2.0			
						1.0	0.5	234	26.2	26.2	8.0	8.0	29.4	29.4	93.1	93.1	6.4	6.3		5	89				<0.2		2.1			
					Middle	3.7	0.5	240	26.2	26.2	8.0	8.0	30.1	30.1	94.2	94.2	6.4	7.2		7	93				<0.2	<0.2	2.0	2.0		
						3.7	0.5	258	26.2	26.2	8.0	8.0	30.1	30.1	94.2	94.2	6.4	7.2		6	93				<0.2		1.9			
					Bottom	6.4	0.4	262	26.3	26.3	8.0	8.0	30.4	30.4	95.7	95.7	6.5	8.0		6	95				<0.2		2.1			
						6.4	0.4	266	26.3	26.3	8.0	8.0	30.4	30.4	95.7	95.7	6.5	8.0		6	96				<0.2		1.8			
IM8	Cloudy	Moderate	15:57	7.6	Surface	1.0	0.3	240	26.2	26.2	8.1	8.1	30.0	30.0	95.1	95.1	6.5	7.0	8.4	5	88	91	821826	808134	<0.2		1.0			
						1.0	0.3	242	26.2	26.2	8.1	8.1	30.0	30.0	95.1	95.1	6.5	7.0		5	87				<0.2		1.0			
					Middle	3.8	0.2	258	26.2	26.2	8.1	8.1	30.3	30.3	95.1	95.1	6.5	8.3		6	91				<0.2	<0.2	1.0	1.0		
						3.8	0.2	282	26.2	26.2	8.1	8.1	30.3	30.3	95.0	95.1	6.5	8.3		5	91				<0.2		1.0			
					Bottom	6.6	0.1																							

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

Water Quality Monitoring

Water Quality Monitoring Results on 20 October 18 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)							
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA	Value	DA		
IM9	Cloudy	Moderate	16:06	6.5	Surface	1.0	0.2	244	26.0	26.0	8.2	8.2	31.0	31.0	98.9	98.9	6.7	9.6	11.2	6	8	87	91	822086	808839	<0.2	1.1	<0.2	1.1							
						1.0	0.2	249	26.0	26.0	8.2	8.2	31.0	31.0	98.9	98.9	6.8	9.6		7		87														
					Middle	3.3	0.2	267	26.0	26.0	8.2	8.2	31.5	31.5	98.5	98.4	6.7	13.7		6		91				<0.2	1.0									
						3.3	0.2	287	26.0	26.0	8.2	8.2	31.5	31.5	98.3	98.4	6.7	13.6		5		91				<0.2	1.2									
					Bottom	5.5	0.1	280	26.0	26.0	8.2	8.2	31.7	31.7	98.2	98.2	6.7	10.4		12		95				<0.2	1.2									
						5.5	0.1	300	26.0	26.0	8.2	8.2	31.7	31.7	98.2	98.2	6.7	10.5		11		95				<0.2	1.1									
IM10	Cloudy	Moderate	16:18	7.0	Surface	1.0	0.3	312	26.0	26.0	8.2	8.2	31.1	31.1	100.4	100.5	6.8	7.0	7.7	6	7	87	91	822375	809794	<0.2	2.1	<0.2	2.0							
						1.0	0.3	330	26.0	26.0	8.2	8.2	31.1	31.1	100.5	100.0	6.8	7.0		5		87				<0.2	2.2									
					Middle	3.5	0.3	333	26.0	26.0	8.2	8.2	31.1	31.1	100.0	100.0	6.8	7.5		6		91				<0.2	2.0									
						3.5	0.3	344	26.0	26.0	8.2	8.2	31.1	31.1	100.0	100.0	6.8	7.5		8		91				<0.2	2.0									
					Bottom	6.0	0.1	351	26.0	26.0	8.2	8.2	31.1	31.1	99.8	99.8	6.8	8.5		8		95				<0.2	1.8									
						6.0	0.1	357	26.0	26.0	8.2	8.2	31.1	31.1	99.8	99.8	6.8	8.6		7		95				<0.2	1.9									
IM11	Cloudy	Moderate	16:34	7.2	Surface	1.0	0.4	320	26.0	26.0	8.3	8.3	31.4	31.4	99.8	99.8	6.8	7.2	7.8	5	6	87	91	822066	811462	<0.2	1.9	<0.2	1.9							
						1.0	0.4	336	26.0	26.0	8.3	8.3	31.4	31.4	99.8	99.8	6.8	7.2		6		87				<0.2	1.8									
					Middle	3.6	0.4	272	26.0	26.0	8.3	8.3	31.5	31.5	99.4	99.4	6.8	7.6		6		91				<0.2	1.9									
						3.6	0.4	298	26.0	26.0	8.3	8.3	31.5	31.5	99.4	99.4	6.8	7.6		7		91				<0.2	1.6									
					Bottom	6.2	0.3	276	26.0	26.0	8.3	8.3	31.5	31.5	99.3	99.3	6.7	8.5		6		95				<0.2	2.0									
						6.2	0.3	283	26.0	26.0	8.3	8.3	31.5	31.5	99.3	99.3	6.7	8.5		7		95				<0.2	1.9									
IM12	Cloudy	Moderate	16:44	8.3	Surface	1.0	0.5	278	26.0	26.0	8.2	8.2	31.7	31.7	97.3	97.3	6.6	7.3	9.4	5	6	87	91	821466	812028	<0.2	1.6	<0.2	1.4							
						1.0	0.5	280	26.0	26.0	8.2	8.2	31.7	31.7	97.3	97.3	6.6	7.3		5		87				<0.2	1.4									
					Middle	4.2	0.6	299	26.0	26.0	8.2	8.2	31.7	31.7	97.8	97.8	6.6	8.3		6		91				<0.2	1.4									
						4.2	0.6	328	26.0	26.0	8.2	8.2	31.7	31.7	97.8	97.8	6.6	8.3		6		91				<0.2	1.4									
					Bottom	7.3	0.3	261	26.0	26.0	8.2	8.2	31.8	31.8	97.3	97.2	6.6	12.5		8		95				<0.2	1.3									
						7.3	0.3	274	26.0	26.0	8.2	8.2	31.8	31.8	97.1	97.2	6.6	12.6		8		96				<0.2	1.4									
SR2	Cloudy	Moderate	17:21	4.6	Surface	1.0	0.1	350	25.9	25.9	8.1	8.1	30.2	30.2	95.0	95.1	6.5	8.2	8.5	7	8	87	89	821479	814157	<0.2	1.2	<0.2	1.1							
						1.0	0.1	322	25.9	25.9	8.1	8.1	30.2	30.2	95.1	95.1	6.5	8.3		9		87				<0.2	1.2									
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-		-		-				-	-			-	-	-	-	-	-	-
						-	-	-	-	-	-	-	-	-	-	-	-	-		-		-				-	-			-	-	-	-	-	-	-
					Bottom	3.6	0.1	357	25.9	25.9	8.1	8.1	30.4	30.4	94.9	94.9	6.5	8.8		7		90				<0.2	1.0									
						3.6	0.1	328	25.9	25.9	8.1	8.1	30.4	30.4	94.9	94.9	6.5	8.8		9		91				<0.2	1.0									
SR3	Cloudy	Moderate	15:51	8.4	Surface	1.0	0.4	244	26.1	26.1	8.1	8.1	29.7	29.7	93.6	93.6	6.4	6.9	9.0	7	7	-	-	822131	807554	-	-	-	-							
						1.0	0.4	252	26.1	26.1	8.1	8.1	29.7	29.7	93.6	93.6	6.4	6.9		7		-				-	-									
					Middle	4.2	0.4	252	26.2	26.2	8.1	8.1	30.2	30.2	94.2	94.2	6.4	9.4		6		-				-	-			-						
						4.2	0.4	273	26.2	26.2	8.1	8.1	30.2	30.2	94.2	94.2	6.4	9.4		7		-				-	-			-						
					Bottom	7.4	0.3	287	26.2	26.2	8.1	8.1	30.3	30.3	93.9	93.9	6.4	10.6		8		-				-	-			-						
						7.4	0.3	300	26.2	26.2	8.1	8.1	30.3	30.3	93.8	93.9	6.4	10.6		8		-				-	-			-						
SR4A	Cloudy	Moderate	17:06	8.5	Surface	1.0	0.4	278	25.9	25.9	8.0	8.0	30.3	30.3	94.8	94.9	6.5	8.4	9.0	9	9	-	-	817173	807790	-	-	-	-							
						1.0	0.4	292	25.9	26.0	8.0	8.0	30.3	30.5	94.9	94.4	6.5	8.4		8		-				-	-									
					Middle	4.3	0.3	278	26.0	26.0	8.0	8.0	30.5	30.5	94.4	94.4	6.5	8.9		9		-				-	-			-						
						4.3	0.4	294	26.0	26.0	8.0	8.0	30.5	30.5	94.3	94.3	6.5	8.9		9		-				-	-			-						
					Bottom	7.5	0.3	284	26.0	26.0	8.0	8.0	31.0	31.0	94.6	94.6	6.4	9.8		10		-				-	-			-						
						7.5	0.3	295	26.0	26.0	8.0	8.0	31.0	31.0	94.6	94.6	6.4	9.8		9		-				-	-			-						
SR5A	Cloudy	Calm	17:26	4.8	Surface	1.0	0.2	296	25.9	25.9	8.0	8.0	30.1	30.1	96.6	96.6	6.6	9.0	9.5	9	9	-	-	816563	810696	-	-	-	-							
						1.0	0.2	308	25.9	26.0	8.0	8.0	30.1	30.1	96.6	96.6	6.6	9.0		9		-				-	-									
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-		-		-				-	-			-	-	-	-	-	-	-
						-	-	-	-	-	-	-	-	-	-	-	-	-		-		-				-	-			-	-	-	-	-	-	-
					Bottom	3.8	0.2	300	25.9	25.9	7.9	7.9	30.2	30.2	96.4	96.4	6.6	10.0		9		-				-	-			-						
						3.8	0.2	319	25.9	26.2	7.9	7.9	30.2	30.2	96.4	96.4	6.6	10.0		9		-				-	-			-						
SR6	Cloudy	Calm	17:52	4.3	Surface	1.0	0.1	219	26.2	26.2	8.0	8.0	30.7	30.7	90.6	90.6	6.2	7.7	8.1	9	10	-	-	817871	814659	-	-	-	-							
						1.0	0.1	221	26.2	26.2	8.0	8.0	30.7	30.7	90.6	90.6	6.2	7.7		10		-				-	-									
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-		-		-				-	-			-	-	-	-	-	-	-
						-	-	-	-	-	-	-	-	-	-	-	-	-		-		-				-	-			-	-	-	-	-	-	-
					Bottom	3.3	0.1	210	26.2	26.2	7.9	7.9	30.9	30.9	91.7	91.7	6.2	8.4		9		-				-	-			-						
						3.3	0.1	212	26.2	26.2	7.9	7.9	30.9	30.9	91.7	91.7	6.2	8.4		10		-				-	-			-						
SR7	Cloudy	Moderate	18:25	14.9	Surface	1.0	0.1	325	26.2	26.2	8.0	8.0	30.7	30.7	91.0	91.0	6.2	8.0	15.9	9	9	-	-	823612	823748	-	-	-	-							
						1.0	0.1	348	26.2	26.2	8.0	8.0	30.7	30.7	91.0	91.1	6.2	8.0		8		-				-	-									
					Middle	7.5	0.1	64	26.2	26.2	8.0	8.0	30.9	30.9	91.1	91.1	6.2	13.2		8		-				-	-			-						
						7.5	0.2	65	26.2	26.2	8.0	8.0	30.9	30.9	91.1	91.1	6.2	13.5		9		-				-	-			-						
					Bottom	13.9	0.2	85	26.2	26.2	8.0	8.0	30.9	30.9	90.5	90.5	6.1	26.2		9		-				-	-			-						
						13.9	0.2	90	26.2	26.2	8.0	8.0	30.9	30.9	90.4	90.4	6.1	26.7		8		-				-	-			-						
SR8	Cloudy	Moderate	16:59	4.0	Surface	1.0	-	-	26.0	26.0	8.2	8.2	32.1	32.1	99.8	99.8	6.8	7.6	7.7	13	11	-	-	820493	811647	-	-	-	-							
						1.0	-	-	26.0	26.0	8.2	8.2	32.1	32.1	99.8	99.8	6.8	7.5		12		-				-	-									
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-		-		-				-	-			-	-	-	-	-	-	-
						-	-	-	-	-	-	-	-	-	-	-	-	-		-		-				-	-			-	-	-	-	-	-	-
					Bottom	3.0	-	-	26.0	26.0	8.1	8.1	32.2	32.2	99.4	99.5	6.7	7.9		10		-				-	-			-						
						3.0	-	-	26.0	26.0	8.1	8.1	32.2	32.2	99.5	99.5	6.7	7.9		10		-				-	-			-						

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

Water Quality Monitoring

Water Quality Monitoring Results on 23 October 18 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)						
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA	Value	DA	
C1	Cloudy	Moderate	05:21	9.0	Surface	1.0	0.5	36	26.2	26.2	8.1	8.1	25.0	25.0	94.5	94.5	6.6	6.6	23.3	47.5	10	86	90	815592	804249	<0.2	1.4	1.3							
						1.0	0.5	38	26.2	26.2	8.1	8.1	25.1	25.0	94.4	94.5	6.6				11	86				<0.2	1.3								
					Middle	4.5	0.6	33	26.3	26.3	8.1	8.1	29.9	29.9	94.8	94.8	6.5				47.9	9				88	<0.2		1.4						
						4.5	0.7	34	26.3	26.3	8.1	8.1	30.0	29.9	94.8	94.8	6.5				49.1	9				90	<0.2		1.4						
					Bottom	8.0	0.6	35	26.3	26.3	8.1	8.1	30.1	30.1	95.0	95.0	6.5				69.6	10				93	<0.2		1.2						
						8.0	0.6	37	26.3	26.3	8.1	8.1	30.1	30.1	95.0	95.0	6.5				71.1	11				94	<0.2		1.3						
C2	Cloudy	Moderate	07:03	12.3	Surface	1.0	0.2	112	26.4	26.4	8.0	8.0	28.5	28.6	88.3	88.4	6.1	6.1	9.6	8	5	83	86	825687	806918	<0.2	2.6	2.4							
						1.0	0.2	122	26.4	26.4	8.0	8.0	28.6	28.6	88.4	88.4	6.1				7.0	6				83	<0.2		2.8						
					Middle	6.2	0.0	99	26.3	26.3	8.0	8.0	29.0	29.1	88.6	88.6	6.1				9.5	5				86	<0.2		2.2						
						6.2	0.0	102	26.3	26.3	8.0	8.0	29.2	29.3	88.6	89.0	6.1				10.3	5				86	<0.2		2.3						
					Bottom	11.3	0.1	229	26.3	26.3	8.0	8.0	29.3	29.3	89.0	89.1	6.1				12.1	12				88	<0.2		2.1						
						11.3	0.1	230	26.3	26.3	8.0	8.0	29.2	29.3	89.1	89.1	6.1				12.0	13				88	<0.2		2.1						
C3	Cloudy	Moderate	04:48	12.2	Surface	1.0	0.6	272	26.2	26.2	8.0	8.0	30.5	30.5	88.7	88.6	6.0	6.0	9.0	5	6	86	90	822108	817782	<0.2	2.0	1.4							
						1.0	0.7	282	26.2	26.2	8.0	8.0	30.5	30.5	88.5	88.6	6.0				6.3	5				85	<0.2		1.9						
					Middle	6.1	0.6	270	26.1	26.1	8.0	8.0	31.2	31.2	87.1	87.1	5.9				8.0	4				90	<0.2		1.1						
						6.1	0.7	295	26.1	26.1	8.0	8.0	31.2	31.2	87.0	87.0	5.9				8.4	5				91	<0.2		1.0						
					Bottom	11.2	0.5	271	26.1	26.1	8.0	8.0	31.2	31.2	86.0	86.0	5.8				12.6	4				94	<0.2		1.1						
						11.2	0.5	282	26.1	26.1	8.0	8.0	31.2	31.2	85.9	85.9	5.8				12.5	4				95	<0.2		1.2						
IM1	Cloudy	Moderate	05:39	5.5	Surface	1.0	0.1	343	26.5	26.5	8.1	8.1	29.4	29.4	94.4	94.6	6.4	6.5	8.9	6	6	83	85	817960	807119	<0.2	1.3	1.4							
						1.0	0.1	316	26.5	26.5	8.1	8.1	29.4	29.4	94.7	94.7	6.5				9.2	6				84	<0.2		1.4						
					Middle	-	-	-	-	-	-	-	-	-	-	-	-				-	-				-	-		-	-	-	-	<0.2	-	-
						-	-	-	-	-	-	-	-	-	-	-	-				-	-				-	-		-	-	-	-	<0.2	-	-
					Bottom	4.5	0.1	325	26.5	26.5	8.0	8.0	29.3	29.3	95.7	95.8	6.5				8.9	6				85	<0.2		1.4						
						4.5	0.1	348	26.5	26.5	8.0	8.0	29.3	29.3	95.8	95.8	6.5				8.0	7				86	<0.2		1.3						
IM2	Cloudy	Moderate	05:46	7.9	Surface	1.0	0.6	20	26.3	26.3	8.1	8.1	27.2	27.2	94.7	94.7	6.6	6.6	14.1	8	8	82	86	818172	806167	<0.2	1.4	1.4							
						1.0	0.6	21	26.4	26.4	8.1	8.1	27.2	27.2	94.7	94.7	6.6				11.7	9				83	<0.2		1.4						
					Middle	4.0	0.4	20	26.5	26.5	8.1	8.1	29.0	28.9	95.1	95.2	6.5				14.1	7				86	<0.2		1.4						
						4.0	0.4	21	26.5	26.5	8.1	8.1	28.9	28.9	95.2	95.2	6.5				13.8	7				87	<0.2		1.4						
					Bottom	6.9	0.3	9	26.5	26.5	8.1	8.1	29.1	29.1	96.1	96.1	6.6				16.7	8				89	<0.2		1.5						
						6.9	0.3	9	26.5	26.5	8.1	8.1	29.1	29.1	96.1	96.1	6.6				16.7	7				90	<0.2		1.4						
IM3	Cloudy	Moderate	05:51	8.1	Surface	1.0	0.5	18	26.2	26.2	8.1	8.1	26.5	26.5	95.1	95.1	6.6	6.6	14.7	9	11	83	86	818776	805620	<0.2	1.5	1.5							
						1.0	0.6	19	26.2	26.2	8.1	8.1	26.5	26.5	95.0	95.0	6.6				12.0	10				83	<0.2		1.5						
					Middle	4.1	0.4	15	26.5	26.5	8.1	8.1	29.1	29.0	95.4	95.5	6.5				14.6	8				86	<0.2		1.6						
						4.1	0.5	16	26.5	26.5	8.1	8.1	29.0	29.0	95.6	95.5	6.5				14.3	7				86	<0.2		1.5						
					Bottom	7.1	0.3	9	26.5	26.5	8.1	8.1	29.1	29.1	96.5	96.5	6.6				17.4	8				89	<0.2		1.4						
						7.1	0.4	9	26.5	26.5	8.1	8.1	29.1	29.1	96.5	96.5	6.6				17.8	9				90	<0.2		1.5						
IM4	Cloudy	Moderate	05:58	8.1	Surface	1.0	0.6	18	26.3	26.3	8.1	8.1	27.5	27.5	95.8	95.9	6.6	6.6	15.5	10	8	87	90	819724	804603	<0.2	1.5	1.5							
						1.0	0.6	19	26.3	26.3	8.1	8.1	27.5	27.5	95.9	96.4	6.6				15.5	12				87	<0.2		1.5						
					Middle	4.1	0.4	4	26.5	26.5	8.1	8.1	29.2	29.2	96.4	96.4	6.6				14.7	9				89	<0.2		1.4						
						4.1	0.4	4	26.5	26.5	8.1	8.1	29.2	29.2	96.4	96.4	6.6				14.8	9				90	<0.2		1.5						
					Bottom	7.1	0.3	359	26.5	26.5	8.1	8.1	29.3	29.3	97.1	97.1	6.6				16.3	9				93	<0.2		1.5						
						7.1	0.4	330	26.5	26.5	8.1	8.1	29.3	29.3	97.1	97.1	6.6				16.3	10				93	<0.2		1.6						
IM5	Cloudy	Moderate	06:05	7.6	Surface	1.0	0.6	355	26.4	26.4	8.1	8.1	28.1	28.1	95.6	95.6	6.6	6.6	16.5	7	8	86	90	820741	804894	<0.2	1.5	1.4							
						1.0	0.7	327	26.4	26.4	8.1	8.1	28.1	28.1	95.6	95.6	6.6				17.0	8				87	<0.2		1.3						
					Middle	3.8	0.5	343	26.5	26.5	8.1	8.1	29.1	29.1	96.1	96.3	6.6				14.6	8				89	<0.2		1.4						
						3.8	0.5	316	26.5	26.5	8.1	8.1	29.1	29.1	96.3	96.2	6.6				14.2	6				89	<0.2		1.2						
					Bottom	6.6	0.4	352	26.5	26.5	8.1	8.1	29.1	29.1	96.9	96.9	6.6				18.2	7				92	<0.2		1.3						
						6.6	0.4	324	26.5	26.5	8.1	8.1	29.1	29.1	96.8	96.9	6.6				18.5	6				94	<0.2		1.5						
IM6	Cloudy	Moderate	06:13	7.3	Surface	1.0	0.4	65	26.5	26.5	8.1	8.1	26.7	26.7	94.9	95.0	6.6	6.6	14.1	7	5	86	89	821073	805824	<0.2	1.4	1.4							
						1.0	0.4	69	26.5	26.5	8.1	8.1	26.7	26.7	95.0	95.9	6.6				12.0	6				86	<0.2		1.4						
					Middle	3.7	0.4	74	26.5	26.5	8.1	8.1	28.8	28.8	95.9	95.9	6.6				14.5	7				89	<0.2		1.4						
						3.7	0.5	80	26.5	26.5	8.1	8.1	28.8	28.8	95.9	95.9	6.6				14.4	7				89	<0.2		1.3						
					Bottom	6.3	0.3	78	26.5	26.5	8.1	8.1	29.0	29.0	95.4	95.5	6.5				15.8	7				93	<0.2		1.3						
						6.3	0.3	79	26.5	26.5	8.1	8.1	29.0	29.0	95.6	95.5	6.5				15.8	7				93	<0.2		1.3						
IM7	Cloudy	Moderate	06:23	8.2	Surface	1.0	0.3	90	26.5	26.5	8.2	8.2	27.9	27.9	94.9	95.0	6.5	6.5	14.1	6	6	87	90	821358	806856	<0.2	1.5	1.4							
						1.0	0.3	92	26.5	26.5	8.2	8.2	27.9	27.9	95.0	95.0	6.5				12.2	5				88	<0.2		1.5						
					Middle	4.1	0.4	99	26.5	26.5	8.2	8.2	28.6	28.6	95.2	95.1	6.5				13.6	5				90	<0.2		1.2						
						4.1	0.4	102	26.5	26.5	8.2	8.2	28.6	28.6	95.0	95.0	6.5				14.2	5				91	<0.2		1.4						
					Bottom	7.2	0.3	99	26.5	26.5	8.2	8.2	29.0	29.0	94.4	94.4	6.5				16.8	6				92	<0.2		1.3						
						7.2	0.3	101	26.5	26.5	8.2	8.2	29.0	29.0	94.3	94.4	6.5				15.9	6				93	<0.2		1.5						
IM8	Cloudy	Moderate	06:32	7.7	Surface	1.0	0.3	77	26.3	26.3	8.0	8.0	27.8	27.8	90.2	90.3	6.2	6.3	10.0	4	3	82	85	821817	808121	<0.2	1.6	1.8							
						1.0	0.3	80	26.3	26.3	8.0	8.0	27.8	27.8	90.3	91.3	6.2				6.6	5				82	<0.2		1.5						
					Middle	3.9	0.3	75	26.3	26.3	8.0	8.0	28.1	28.1	91.2	91.3	6.3				8.0	4				85	<0.2		1.6						
						3.9	0.3	79	26.3	26.3	8.0	8.0	28.2	28.1	91.3	91.3	6.3				8.1	4				85	<0.2		2.7						
					Bottom	6.7	0.2	78	26.3	26.3	8.0	8.0	29.7	29.7	92.5	92.5	6.3				15.2	4				89	<0.2		1.5						
						6.7	0.3	79	26.3	26.3	8.0	8.0	29.7	29.7	92.4	92.5	6.3				15.3	3				89	<0.2		1.6						

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

Water Quality Monitoring

Water Quality Monitoring Results on 23 October 18 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)						
									Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA	Value	DA	
IM9	Cloudy	Moderate	06:03	7.5	Surface	1.0	0.3	50	26.3	26.3	8.0	8.0	27.9	27.8	88.4	88.4	6.1	6.1	5.3	6.3	5	5	83	85	85	822083	808831	<0.2	<0.2	1.5	1.5				
						1.0	0.3	50	26.3	26.3	8.0	8.0	27.8	27.8	88.4	88.4	6.1	6.1	5.2	6.3	5	5	82	86				<0.2	<0.2	1.5	1.5				
					Middle	3.8	0.4	31	26.3	26.3	8.0	8.0	28.3	28.3	89.4	89.5	6.2	6.2	6.8	6.7	5	5	85	86				<0.2	<0.2	1.5	1.5				
						3.8	0.4	32	26.3	26.3	8.0	8.0	28.3	28.3	89.5	89.5	6.2	6.2	6.7	6.7	5	5	86	88				<0.2	<0.2	1.6	1.6				
					Bottom	6.5	0.3	16	26.2	26.2	8.0	8.0	28.7	28.7	90.1	90.1	6.2	6.2	6.9	7.0	6	6	88	88				<0.2	<0.2	1.5	1.5				
						6.5	0.3	17	26.2	26.2	8.0	8.0	28.7	28.7	90.1	90.1	6.2	6.2	7.0	6.3	6	6	88	88				<0.2	<0.2	1.6	1.6				
IM10	Cloudy	Moderate	05:56	7.9	Surface	1.0	0.5	332	26.1	26.1	8.0	8.0	29.7	29.7	92.5	92.5	6.3	6.3	3.7	7.3	6	6	83	86	86	822403	809813	<0.2	<0.2	1.5	1.5				
						1.0	0.6	358	26.1	26.1	8.0	8.0	29.7	29.7	92.4	92.4	6.3	6.3	3.8	7.3	6	6	83	86				<0.2	<0.2	1.6	1.6				
					Middle	4.0	0.5	333	26.2	26.2	8.0	8.0	29.9	29.9	92.1	92.1	6.3	6.3	4.5	6.6	6	6	86	86				<0.2	<0.2	1.7	1.7				
						4.0	0.5	306	26.2	26.2	8.0	8.0	29.9	29.9	92.1	92.1	6.3	6.3	4.5	6.6	6	6	86	86				<0.2	<0.2	1.8	1.8				
					Bottom	6.9	0.4	320	26.1	26.1	8.0	8.0	30.0	30.0	91.6	91.6	6.3	6.3	13.8	13.6	6	6	89	89				<0.2	<0.2	1.9	1.9				
						6.9	0.4	340	26.1	26.1	8.0	8.0	30.0	30.0	91.6	91.6	6.3	6.3	13.6	6.3	6	6	89	89				<0.2	<0.2	2.0	2.0				
IM11	Cloudy	Moderate	05:45	8.0	Surface	1.0	0.3	299	26.2	26.2	8.0	8.0	30.3	30.3	90.9	90.9	6.2	6.2	11.9	14.1	15	15	85	88	88	822072	811480	<0.2	<0.2	0.8	0.8				
						1.0	0.3	319	26.2	26.2	8.0	8.0	30.3	30.3	90.9	90.7	6.2	6.2	11.9	14.1	14	14	85	88				<0.2	<0.2	0.8	0.8				
					Middle	4.0	0.3	297	26.2	26.2	8.0	8.0	30.3	30.3	90.7	90.7	6.2	6.2	13.7	12	12	12	88	88				<0.2	<0.2	0.8	0.8				
						4.0	0.3	323	26.2	26.2	8.0	8.0	30.3	30.3	90.7	90.7	6.2	6.2	14.2	14	14	14	88	91				<0.2	<0.2	1.1	1.1				
					Bottom	7.0	0.3	301	26.2	26.2	8.0	8.0	30.3	30.3	90.7	90.7	6.2	6.2	16.5	17	17	17	91	91				<0.2	<0.2	1.0	1.0				
						7.0	0.4	320	26.2	26.2	8.0	8.0	30.3	30.3	90.7	90.7	6.2	6.2	16.4	18	18	18	91	91				<0.2	<0.2	0.9	0.9				
IM12	Cloudy	Moderate	05:37	9.7	Surface	1.0	0.4	260	26.2	26.2	8.0	8.0	30.2	30.2	90.6	90.6	6.2	6.2	6.8	10.9	12	12	85	84	87	821429	812045	<0.2	<0.2	1.4	1.4				
						1.0	0.4	276	26.2	26.2	8.0	8.0	30.2	30.2	90.6	90.6	6.2	6.2	6.8	11	11	11	84	87				<0.2	<0.2	1.4	1.4				
					Middle	4.9	0.4	257	26.2	26.2	8.0	8.0	30.2	30.2	90.4	90.4	6.2	6.2	11.5	11	11	11	87	90				<0.2	<0.2	1.1	1.1				
						4.9	0.4	267	26.2	26.2	8.0	8.0	30.2	30.2	90.4	90.4	6.2	6.2	11.7	11	11	11	87	90				<0.2	<0.2	1.0	1.0				
					Bottom	8.7	0.4	240	26.2	26.2	8.0	8.0	30.3	30.3	90.1	90.1	6.1	6.1	14.2	12	12	12	90	91				<0.2	<0.2	1.0	1.0				
						8.7	0.4	242	26.2	26.2	8.0	8.0	30.3	30.3	90.1	90.1	6.1	6.1	14.1	11	11	11	91	91				<0.2	<0.2	0.9	0.9				
SR2	Cloudy	Moderate	05:09	4.9	Surface	1.0	0.3	311	26.2	26.2	8.0	8.0	30.0	30.0	91.2	91.2	6.2	6.2	6.1	8.7	9	9	85	85	86	821445	814146	<0.2	<0.2	2.1	2.1				
						1.0	0.3	333	26.2	26.2	8.0	8.0	30.0	30.0	91.2	91.2	6.2	6.2	6.2	10	10	10	85	88				<0.2	<0.2	2.0	2.0				
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.7	-	9	-	-				-	-	<0.2	<0.2	-	-		
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	-	-	-	-	
					Bottom	3.9	0.3	317	26.3	26.3	8.0	8.0	30.1	30.1	91.1	91.1	6.2	6.2	11.3	8	8	8	87	88				<0.2	<0.2	2.8	2.8				
						3.9	0.3	323	26.3	26.3	8.0	8.0	30.1	30.1	91.1	91.1	6.2	6.2	11.4	8	8	8	88	88				<0.2	<0.2	3.0	3.0				
SR3	Cloudy	Moderate	06:38	9.1	Surface	1.0	0.4	63	26.3	26.3	8.0	8.0	28.2	28.2	91.3	91.3	6.3	6.3	5.9	9.6	6	6	-	-	-	822174	807578	-	-	-	-				
						1.0	0.4	67	26.3	26.3	8.0	8.0	28.2	28.2	91.5	91.5	6.3	6.3	6.0	6.3	6	6	-	-				-	-	-	-				
					Middle	4.6	0.4	72	26.3	26.3	8.1	8.1	29.9	29.9	93.1	93.1	6.4	6.4	9.3	5	5	5	-	-				-	-	-	-	-	-		
						4.6	0.4	72	26.3	26.3	8.1	8.1	29.9	29.9	93.1	93.1	6.4	6.4	9.0	5	5	5	-	-				-	-	-	-	-	-		
					Bottom	8.1	0.3	76	26.3	26.3	8.1	8.1	29.8	29.8	92.7	92.7	6.3	6.3	13.8	4	4	4	-	-				-	-	-	-	-	-	-	-
						8.1	0.4	80	26.3	26.3	8.1	8.1	29.8	29.8	92.7	92.7	6.3	6.3	13.5	5	5	5	-	-				-	-	-	-	-	-	-	-
SR4A	Cloudy	Calm	05:00	9.6	Surface	1.0	0.2	54	26.4	26.4	8.1	8.1	29.4	29.4	94.1	94.1	6.4	6.4	7.7	7.8	6	6	-	-	-	817184	807794	-	-	-	-				
						1.0	0.2	57	26.4	26.4	8.1	8.1	29.5	29.5	94.1	94.1	6.4	6.4	7.7	5	5	5	-	-				-	-	-	-	-	-		
					Middle	4.8	0.1	67	26.4	26.4	8.1	8.0	29.7	29.7	93.9	93.9	6.4	6.4	7.9	7	7	7	-	-				-	-	-	-	-	-	-	
						4.8	0.1	67	26.4	26.4	8.0	8.0	29.7	29.7	93.8	93.9	6.4	6.4	7.9	7	7	7	-	-				-	-	-	-	-	-	-	
					Bottom	8.6	0.1	38	26.4	26.4	8.0	8.0	29.7	29.7	94.5	94.5	6.4	6.4	7.8	7	7	7	-	-				-	-	-	-	-	-	-	-
						8.6	0.1	40	26.4	26.4	8.0	8.0	29.7	29.7	94.5	94.5	6.4	6.4	7.8	6	6	6	-	-				-	-	-	-	-	-	-	-
SR5A	Cloudy	Calm	04:44	5.6	Surface	1.0	0.1	357	26.3	26.3	8.1	8.1	29.6	29.6	93.9	94.0	6.4	6.4	7.3	7.4	7	6	-	-	-	816572	810712	-	-	-	-				
						1.0	0.1	328	26.3	26.3	8.1	8.1	29.6	29.6	94.0	94.0	6.4	6.4	7.3	6	6	6	-	-				-	-	-	-	-	-		
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	-	-	-	-	
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	-	-	-	-	
					Bottom	4.6	0.1	359	26.3	26.3	8.0	8.0	29.6	29.6	94.9	95.0	6.5	6.5	7.3	5	5	5	-	-				-	-	-	-	-	-	-	-
						4.6	0.1	330	26.3	26.3	8.0	8.0	29.6	29.6	95.0	95.0	6.5	6.5	7.6	6	6	6	-	-				-	-	-	-	-	-	-	-
SR6	Cloudy	Calm	04:20	4.5	Surface	1.0	0.1	277	26.3	26.3	8.0	8.0	29.3	29.3	92.5	92.5	6.3	6.3	7.3	6.9	7	8	-	-	-	817919	814683	-	-	-	-				
						1.0	0.1	277	26.3	26.3	8.0	8.0	29.3	29.3	92.5	92.5	6.3	6.3	7.3	8	8	8	-	-				-	-	-	-	-	-		
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	-	-	-	-	
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-	-	-	-	-	
					Bottom	3.5	0.1	260	26.2	26.2	8.0	8.0	29.5	29.5	91.9	91.8	6.3	6.3	6.4	7	7	7	-	-				-	-	-	-	-	-	-	-
						3.5	0.1	263	26.2	26.2	8.0	8.0	29.5	29.5	91.8	91.8	6.3	6.3	6.4	6	6	6	-	-				-	-	-	-	-	-	-	-
SR7	Cloudy	Moderate	04:21	16.6	Surface	1.0	0.1	219	26.2	26.2	8.2	8.2	31.0	31.0	88.9	88.9	6.0	6.0	3.0	3.9	5	5	-	-	-	823620	823759	-	-	-	-				
						1.0	0.1	236	26.2	26.2	8.2	8.2	31.0	31.0	88.9	88.9	6.0	6.0	3.0	5	5	5	-	-				-	-	-	-	-	-		
					Middle	8.3	0.1	90	26.2	26.2	8.2	8.2	31.3	31.3	87.9	87.9	6.0	6.0	3.8	4	4	4	-	-				-	-	-	-	-	-	-	
						8.3	0.1	90	26.2	26.2	8.2	8.2	31.3	31.3	87.9	87.9	6.0	6.0	3.9	4	4	4	-	-				-	-	-	-	-	-	-	
					Bottom	15.6	0.1	136	26.2	26.2	8.2	8.2	31.4	31.4	87.5	87.5	5.9	5.9	4.9	5	5	5	-	-				-	-	-	-	-	-	-	-
						15.6	0.1	139	26.2																										

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

Water Quality Monitoring

Water Quality Monitoring Results on

25 October 18

during Mid-Ebb Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)											
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA	Value	DA						
C1	Fine	Moderate	12:44	9.0	Surface	1.0	0.1	133	26.1	26.1	8.2	8.2	29.6	29.6	101.0	101.0	6.9	6.9	2.8	2.8	3	3	86	86	90	815629	804242	<0.2	<0.2	1.2	1.2									
						1.0	0.1	145	26.1		8.2	8.2	29.6		101.0		6.9	6.9	2.8	2.8	3	3	87	87																
					Middle	4.5	0.0	342	26.0	26.0	8.3	8.3	30.7	30.7	100.9	100.9	6.9	6.9	5.7	5.7	4	4	90	90																
						4.5	0.0	315	26.0		8.3	8.3	30.7		100.8		6.9	6.9	5.9	5.9	4	4	90	90																
					Bottom	8.0	0.0	337	26.0	26.0	8.3	8.3	31.8	31.8	100.0	100.0	6.8	6.8	19.3	19.3	4	4	93	93																
						8.0	0.0	310	26.0		8.3	8.3	31.8		100.0		6.8	6.8	19.7	19.7	5	5	93	93																
C2	Fine	Moderate	11:46	11.4	Surface	1.0	0.1	43	26.3	26.3	8.2	8.2	29.0	29.0	92.3	92.3	6.3	6.3	5.3	5.3	6	6	85	85	88	825702	806930	<0.2	<0.2	1.2	1.2									
						1.0	0.1	43	26.3		8.2	8.2	29.0		92.3		6.3	6.3	5.4	5.4	6	6	84	84																
					Middle	5.7	0.3	52	26.0	26.0	8.2	8.2	29.9	29.9	90.9	90.9	6.2	6.2	10.9	10.9	6	6	88	88																
						5.7	0.3	54	26.0		8.2	8.2	29.9		90.9		6.2	6.2	10.9	10.9	7	7	88	88																
					Bottom	10.4	0.2	55	26.0	26.0	8.2	8.2	30.1	30.1	91.0	91.0	6.2	6.2	18.6	18.6	11	11	93	93																
						10.4	0.2	58	26.0		8.2	8.2	30.1		91.0		6.2	6.2	18.7	18.7	10	10	92	92																
C3	Fine	Moderate	14:11	12.6	Surface	1.0	0.4	52	26.4	26.4	8.2	8.2	30.3	30.3	95.3	95.3	6.5	6.5	4.0	4.0	4	4	85	85	89	822097	817825	<0.2	<0.2	1.1	1.1									
						1.0	0.4	54	26.4		8.2	8.2	30.3		95.3		6.5	6.5	4.1	4.1	5	5	85	85																
					Middle	6.3	0.3	90	26.3	26.3	8.2	8.2	30.4	30.4	95.4	95.4	6.5	6.5	4.6	4.6	4	4	89	89																
						6.3	0.3	98	26.3		8.2	8.2	30.4		95.4		6.5	6.5	4.7	4.7	3	3	89	89																
					Bottom	11.6	0.3	87	26.2	26.2	8.2	8.2	30.7	30.7	94.7	94.7	6.4	6.4	5.6	5.6	5	5	93	93																
						11.6	0.3	87	26.2		8.2	8.2	30.7		94.7		6.4	6.4	5.6	5.6	5	5	93	93																
IM1	Fine	Moderate	12:23	5.4	Surface	1.0	0.2	213	26.1	26.1	8.2	8.2	30.6	30.6	94.8	94.8	6.5	6.5	5.4	5.4	7	7	85	85	87	817934	807139	<0.2	<0.2	1.1	1.2									
						1.0	0.2	229	26.1		8.2	8.2	30.6		94.8		6.5	6.5	5.3	5.3	7	7	85	85																
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								-	-	-	-	-	-	-	-	-
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								-	-	-	-	-	-	-	-	-
					Bottom	4.4	0.2	223	26.1	26.1	8.2	8.2	30.7	30.7	94.0	94.0	6.4	6.4	6.1	6.1	8	8	88	88																
						4.4	0.2	228	26.1		8.2	8.2	30.7		94.0		6.4	6.4	6.1	6.1	7	7	88	88																
IM2	Fine	Moderate	12:15	7.8	Surface	1.0	0.1	94	26.3	26.3	8.2	8.2	30.2	30.2	98.7	98.7	6.7	6.7	4.3	4.3	3	3	82	82	87	818141	806156	<0.2	<0.2	1.2	1.2									
						1.0	0.1	97	26.4		8.2	8.2	30.2		98.7		6.7	6.7	4.3	4.3	3	3	82	82																
					Middle	3.9	0.1	163	26.0	26.0	8.2	8.2	30.9	30.9	96.6	96.6	6.6	6.6	7.3	7.3	4	4	87	87																
						3.9	0.1	170	26.0		8.2	8.2	30.9		96.6		6.6	6.6	7.4	7.4	4	4	87	87																
					Bottom	6.8	0.1	191	26.0	26.0	8.2	8.2	31.1	31.1	95.4	95.4	6.5	6.5	9.7	9.7	4	4	90	90																
						6.8	0.1	209	26.0		8.2	8.2	31.1		95.4		6.5	6.5	9.7	9.7	5	5	91	91																
IM3	Fine	Moderate	12:07	8.1	Surface	1.0	0.2	83	26.2	26.2	8.2	8.2	30.2	30.2	98.3	98.3	6.7	6.7	3.9	3.9	5	5	83	83	87	818777	805586	<0.2	<0.2	1.2	1.2									
						1.0	0.2	83	26.2		8.2	8.2	30.2		98.3		6.7	6.7	3.9	3.9	4	4	84	84																
					Middle	4.1	0.1	49	26.1	26.1	8.2	8.2	31.2	31.2	98.1	98.1	6.7	6.7	4.8	4.8	5	5	86	86																
						4.1	0.1	49	26.1		8.2	8.2	31.2		98.1		6.7	6.7	4.9	4.9	5	5	87	87																
					Bottom	7.1	0.1	44	26.0	26.0	8.2	8.2	31.3	31.3	97.2	97.2	6.6	6.6	6.5	6.5	6	6	90	90																
						7.1	0.1	46	26.0		8.2	8.2	31.3		97.3		6.6	6.6	6.5	6.5	6	6	91	91																
IM4	Fine	Moderate	11:57	8.2	Surface	1.0	0.1	80	26.2	26.2	8.2	8.2	30.6	30.6	95.3	95.3	6.5	6.5	6.1	6.1	8	8	85	85	90	819714	804629	<0.2	<0.2	1.1	1.0									
						1.0	0.1	83	26.2		8.2	8.2	30.6		95.3		6.5	6.5	6.2	6.2	9	9	86	86																
					Middle	4.1	0.1	41	26.0	26.0	8.2	8.2	31.0	31.0	95.1	95.1	6.5	6.5	8.9	8.9	6	6	89	89																
						4.1	0.1	43	26.0		8.2	8.2	31.0		95.1		6.5	6.5	8.9	8.9	6	6	90	90																
					Bottom	7.2	0.1	39	26.0	26.0	8.2	8.2	31.1	31.1	94.9	94.9	6.5	6.5	12.3	12.3	5	5	93	93																
						7.2	0.1	42	26.0		8.2	8.2	31.1		94.9		6.5	6.5	12.3	12.3	5	5	94	94																
IM5	Fine	Moderate	11:48	7.6	Surface	1.0	0.1	32	26.1	26.1	8.2	8.2	30.7	30.7	94.7	94.7	6.5	6.5	9.5	9.5	9	9	83	83	88	820748	804886	<0.2	<0.2	1.0	1.1									
						1.0	0.1	33	26.1		8.2	8.2	30.7		94.7		6.5	6.5	9.6	9.6	10	10	84	84																
					Middle	3.8	0.1	30	26.0	26.0	8.2	8.2	30.9	30.9	93.8	93.8	6.4	6.4	17.3	17.3	8	8	86	86																
						3.8	0.2	32	26.0		8.2	8.2	30.9		93.8		6.4	6.4	17.4	17.4	10	10	87	87																
					Bottom	6.6	0.1	43	26.0	26.0	8.2	8.2	30.9	30.9	94.2	94.2	6.4	6.4	20.8	20.8	12	12	93	93																
						6.6	0.1	44	26.0		8.2	8.2	30.9		94.2		6.4	6.4	20.8	20.8	12	12	94	94																
IM6	Fine	Moderate	11:39	6.8	Surface	1.0	0.2	218	26.1	26.1	8.2	8.2	30.3	30.3	93.6	93.6	6.4	6.4	11.2	11.2	13	13	83	83	87	821066	805830	<0.2	<0.2	1.1	1.2									
						1.0	0.2	234	26.1		8.2	8.2	30.3		93.6		6.4	6.4	11.3	11.3	12	12	83	83																
					Middle	3.4	0.1	275	26.0	26.0	8.2	8.2	30.5	30.5	93.1	93.1	6.4	6.4	16.9	16.9	11	11	88	88																
						3.4	0.1	276	26.0		8.2	8.2	30.5		93.1		6.4	6.4	16.5	16.5	12	12	89	89																
					Bottom	5.8	0.1	273	26.0	26.0	8.2	8.2	30.7	30.7	93.5	93.5	6.4	6.4	25.5	25.5	11	11	90	90																
						5.8	0.1	295	26.0		8.2	8.2	30.7		93.5		6.4	6.4	25.5	25.5	13	13	91	91																
IM7	Fine	Moderate	11:31	7.2	Surface	1.0	0.1	285	26.3	26.3	8.2	8.2	29.1	29.1	92.1	92.1	6.3	6.3	5.6	5.6	12	12	82	82	87	821334	806826	<0.2	<0.2	1.2	1.2									
						1.0	0.2	301	26.3		8.2	8.2	29.1		92.1		6.3	6.3	5.7	5.7	12	12	82	82																
					Middle	3.6	0.1	237	26.0	26.0	8.2	8.2	29.8	29.8	91.3	91.3	6.3	6.3	9.8	9.8	9	9	86	86																
						3.6	0.1	240	26.0		8.2	8.2	29.8		91.3		6.3	6.3	9.8	9.8	9	9	88	88																
					Bottom	6.2	0.1	303	26.0	26.0	8.2	8.2	30.1	30.1	92.0	92.0	6.3	6.3	10.6	10.6	8	8	90	90																
						6.2	0.1	319	26.0		8.2	8.2	30.1		92.0		6.3	6.3	10.6	10.6	10	10	91	91																
IM8	Fine	Moderate	12:16	8.3	Surface	1.0	0.2	89	26.1	26.1	8.2	8.2	30.7	30.7	94.5	94.5	6.4	6.4	10.9	10.9	7	7	86	86	89	821811	808130	<0.2	<0.2	3.3	3.4									
						1.0	0.2	95	26.1		8.2	8.2	30.7		94.5		6.4	6.4	11.0	11.0	7	7	85	85																
					Middle	4.2	0.3	80	26.0	26.0	8.2	8.2	30.9	30.9	93.5	93.5	6.4	6.4	14.7	14.7	8	8	89	89																
						4.2	0.3	83	26.0		8.2	8.2	30.9		93.5		6.4	6.4	14.6	14.6	8	8	89	89																
					Bottom	7.3	0.3	77	26.0	26.0	8.2	8.2	30.9	30.9	93.6	93.6	6.4	6.4	20.5	20.5	10	10	93	93																
						7.3	0.3	83	26.0		8.2	8.2	30.9		93.6		6.4	6.4	20.5	20.5	11	11	93	93																

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

Water Quality Monitoring

Water Quality Monitoring Results on

25 October 18

during Mid-Ebb Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)							
									Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA	Value	DA	Value	DA
IM9	Fine	Moderate	12:23	7.8	Surface	1.0	0.4	94	26.2	26.2	8.2	8.2	30.5	30.5	95.2	95.2	6.5	6.5	6.3	6.3	8	8	85	85	89	822085	808811	<0.2	<0.2	3.4	3.4					
						1.0	0.4	100	26.2		8.2	8.2	30.5		95.2		6.5	6.5	6.4	6.4	8	8	85	85						3.2	3.2					
					Middle	3.9	0.4	85	26.0	26.0	8.2	8.2	31.0	31.0	94.8	94.8	6.5	6.5	10.5	10.5	11	11	88	88						3.3	3.3					
						3.9	0.4	93	26.0		8.2	8.2	31.0		94.8		6.5	6.5	10.6	10.6	10	10	89	89						3.3	3.3					
					Bottom	6.8	0.3	65	26.0	26.0	8.2	8.2	31.1	31.1	94.6	94.6	6.4	6.4	12.4	12.4	11	11	93	93						3.4	3.4					
						6.8	0.3	66	26.0		8.2	8.2	31.1		94.6		6.4	6.4	12.4	12.4	10	10	93	93						3.4	3.4					
IM10	Fine	Moderate	12:34	7.5	Surface	1.0	0.3	92	26.2	26.2	8.2	8.2	30.2	30.2	98.0	98.1	6.7	6.7	3.6	3.6	8	8	85	85	89	822381	809800	<0.2	<0.2	3.6	3.6					
						1.0	0.3	96	26.2	26.2	8.2	8.2	30.2	30.2	98.1	98.1	6.7	6.7	3.6	3.6	7	7	84	84						3.6	3.6					
					Middle	3.8	0.3	89	26.1	26.1	8.2	8.2	31.1	31.1	98.7	98.7	6.7	6.7	3.9	3.9	6	6	89	89						3.4	3.4					
						3.8	0.4	95	26.1		8.2	8.2	31.1		98.7		6.7	6.7	3.9	3.9	6	6	90	90						3.3	3.3					
					Bottom	6.5	0.3	85	26.0	26.0	8.2	8.2	31.3	31.3	97.9	97.9	6.7	6.7	4.8	4.8	7	7	93	93						3.3	3.3					
						6.5	0.4	89	26.0		8.2	8.2	31.3		97.9		6.7	6.7	4.8	4.8	8	8	93	93						3.4	3.4					
IM11	Fine	Moderate	12:46	7.8	Surface	1.0	0.3	111	26.1	26.1	8.2	8.2	30.7	30.7	97.5	97.5	6.6	6.6	5.1	5.1	6	6	85	85	89	822047	811465	<0.2	<0.2	3.4	3.4					
						1.0	0.3	119	26.1		8.2	8.2	30.7		97.5		6.6	6.6	5.2	5.2	6	6	85	85						3.4	3.4					
					Middle	3.9	0.3	99	26.0	26.0	8.2	8.2	31.0	31.0	95.3	95.3	6.5	6.5	9.0	9.0	6	6	89	89						3.3	3.3					
						3.9	0.3	101	26.0		8.2	8.2	31.0		95.3		6.5	6.5	9.0	9.0	6	6	89	89						3.4	3.4					
					Bottom	6.8	0.2	86	26.0	26.0	8.2	8.2	31.1	31.1	95.9	96.0	6.5	6.5	8.3	8.3	4	4	93	93						3.5	3.5					
						6.8	0.2	91	26.0		8.2	8.2	31.1		96.0		6.5	6.5	8.3	8.3	4	4	93	93						3.2	3.2					
IM12	Fine	Moderate	12:54	8.7	Surface	1.0	0.4	85	26.1	26.1	8.2	8.2	30.6	30.6	93.1	93.1	6.3	6.3	6.7	6.7	6	6	84	84	89	821482	812043	<0.2	<0.2	3.5	3.5					
						1.0	0.5	86	26.1		8.2	8.2	30.6		93.0		6.3	6.3	6.7	6.7	5	5	85	85						3.5	3.5					
					Middle	4.4	0.4	90	26.1	26.1	8.2	8.2	30.6	30.6	92.8	92.8	6.3	6.3	7.7	7.7	7	7	88	88						3.4	3.4					
						4.4	0.4	96	26.1		8.2	8.2	30.6		92.8		6.3	6.3	7.7	7.7	6	6	89	89						3.3	3.3					
					Bottom	7.7	0.3	88	26.0	26.0	8.2	8.2	30.7	30.7	93.0	93.0	6.3	6.3	8.5	8.5	7	7	92	92						3.3	3.3					
						7.7	0.3	96	26.0		8.2	8.2	30.7		93.0		6.3	6.3	8.5	8.5	8	8	93	93						3.2	3.2					
SR1A	Fine	Moderate	13:49	7.1	Surface	1.0	-	-	26.2	26.2	8.2	8.2	29.1	29.1	101.0	101.0	6.9	6.9	2.0	2.0	3	3	-	-	-	820065	812589	-	-	-	-					
						1.0	-	-	26.2	26.2	8.2	8.2	29.1	29.1	101.0	101.0	6.9	6.9	2.1	2.1	4	4	-	-						-	-					
					Middle	3.6	-	-	26.0	26.0	8.2	8.2	30.1	30.1	101.2	101.2	-	-	2.2	2.2	5	5	-	-						-	-					
						3.6	-	-	26.0		8.2	8.2	30.1		101.2		-	-	2.2	2.2	4	4	-	-						-	-					
					Bottom	6.1	-	-	26.0	26.0	8.3	8.2	31.4	31.4	101.0	101.0	6.9	6.9	3.0	3.0	6	6	-	-						-	-					
						6.1	-	-	26.0		8.2	8.2	31.4		101.0		6.9	6.9	3.1	3.1	5	5	-	-						-	-					
SR2	Fine	Moderate	13:49	4.8	Surface	1.0	0.4	84	26.2	26.2	8.2	8.2	30.5	30.5	95.3	95.3	6.5	6.5	4.1	4.1	6	6	85	85	87	821465	814157	<0.2	<0.2	3.6	3.6					
						1.0	0.4	90	26.2	26.2	8.2	8.2	30.5		95.2		6.5	6.5	4.1	4.1	6	6	85	85						3.5	3.5					
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						-	-	-				
						-	-	-	-		-	-	-		-	-	-	-	-	-	-	-	-	-						-	-	-				
					Bottom	3.8	0.1	91	26.1	26.1	8.2	8.2	30.7	30.7	94.3	94.4	6.4	6.4	5.9	5.9	7	7	88	88						3.4	3.4					
						3.8	0.2	91	26.1		8.2	8.2	30.7		94.4		6.4	6.4	5.9	5.9	7	7	88	88						3.5	3.5					
SR3	Fine	Moderate	12:09	9.8	Surface	1.0	0.3	160	26.1	26.1	8.2	8.2	30.3	30.3	93.7	93.7	6.4	6.4	11.1	11.1	7	7	-	-	-	822134	807590	-	-	-	-					
						1.0	0.3	172	26.1		8.2	8.2	30.3		93.7		6.4	6.4	11.2	11.2	7	7	-	-						-	-					
					Middle	4.9	0.3	111	26.0	26.0	8.2	8.2	30.5	30.5	93.0	93.0	6.4	6.4	18.2	18.2	15	15	-	-						-	-					
						4.9	0.3	117	26.0		8.2	8.2	30.5		92.9		6.4	6.4	18.2	17.7	17	17	-	-						-	-					
					Bottom	8.8	0.4	77	26.0	26.0	8.2	8.2	30.7	30.7	92.9	92.9	6.3	6.3	25.9	25.9	27	27	-	-						-	-					
						8.8	0.4	71	26.0	26.0	8.2	8.2	30.7	30.7	92.9	92.9	6.3	6.3	25.9	27	27	27	-	-						-	-					
SR4A	Fine	Calm	13:07	9.5	Surface	1.0	0.2	79	26.2	26.2	8.2	8.2	30.5	30.5	95.2	95.2	6.5	6.5	4.3	4.3	12	12	-	-	-	817193	807792	-	-	-	-					
						1.0	0.2	80	26.2		8.2	8.2	30.5		95.1		6.5	6.5	4.4	4.4	13	13	-	-						-	-					
					Middle	4.8	0.1	84	26.1	26.1	8.2	8.2	30.8	30.8	93.5	93.5	-	-	8.3	8.3	9	9	-	-						-	-					
						4.8	0.1	89	26.1		8.2	8.2	30.8		93.5		-	-	8.4	8.4	9	9	-	-						-	-					
					Bottom	8.5	0.1	65	26.1	26.1	8.2	8.2	30.9	30.9	93.7	93.7	6.4	6.4	9.3	9.3	8	8	-	-						-	-					
						8.5	0.1	65	26.1		8.2	8.2	30.9		93.7		6.4	6.4	9.2	8.8	8	8	-	-						-	-					
SR5A	Fine	Calm	13:23	5.7	Surface	1.0	0.2	59	26.4	26.4	8.2	8.2	30.2	30.1	94.9	94.9	6.5	6.5	3.8	3.7	7	7	-	-	-	816578	810719	-	-	-	-					
						1.0	0.2	59	26.4		8.2	8.2	30.1		94.9		6.5	6.5	3.7	3.6	6	6	-	-						-	-					
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						-	-					
						-	-	-	-		-	-	-		-	-	-	-	-	-	-	-	-	-						-	-					
					Bottom	4.7	0.1	152	26.3	26.3	8.2	8.2	30.4	30.4	95.1	95.1	6.5	6.5	4.6	4.6	8	8	-	-						-	-					
						4.7	0.1	153	26.3		8.2	8.2	30.4		95.1		6.5	6.5	4.6	4.6	8	8	-	-						-	-					
SR6	Fine	Calm	13:55	4.7	Surface	1.0	0.1	44	26.4	26.4	8.2	8.2	29.6	29.6	92.8	92.8	6.3	6.3	3.8	3.8	7	7	-	-	-	817882	814658	-	-	-	-					
						1.0	0.1	48	26.4	26.4	8.2	8.2	29.5	29.5	92.8	92.8	6.3	6.3	3.8	3.8	6	6	-	-						-	-					
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						-	-					
						-	-	-	-		-	-	-		-	-	-	-	-	-	-	-	-	-						-	-					
					Bottom	3.7	0.2	62	26.3	26.3	8.2	8.2	29.8	29.8	92.5	92.5	6.3	6.3	5.3	5.3	8	8	-	-						-	-					
						3.7	0.2	62	26.3	26.3	8.2	8.2	29.8		92.5		6.3	6.3	5.4	5.4	7	7	-	-						-	-					
SR7	Fine	Moderate	14:37	18.6	Surface	1.0	0.7	74	26.4	26.4	8.2	8.2	29.6	29.6	92.6	92.6	6.3	6.3	3.6	3.6	5	5	-	-	-	823614	823763	-	-	-	-					
						1.0	0.7	78	26.4		8.2	8.2	29.6		92.6		6.3	6.3	3.6	3.6	5	5	-	-						-	-					
					Middle	9.3	0.6	86	26.4	26.4	8.2	8.2	29.7	29.7	92.2	92.2	-	-	3.7	3.7	4	4	-	-						-	-					
						9.3	0.7	88	26.4		8.2	8.2	29.7		92.2		-	-	3.7	3.7	4	4	-	-						-	-					
					Bottom	17.6	0.2	146	26.2	26.2	8.2	8.2	29.9	29.9	91.7	91.8	6.3	6.3	4.2	4.2	5	5	-	-						-	-					
						17.6	0.2	156	26.2		8.2	8.2	29.9		91.8		6.3	6.3	4.2	4.2	5	5	-	-						-	-					
SR8	Fine	Moderate	13:21	3.9	Surface	1.0	-	-	26.1	26.1	8.2	8.2	29.2	29.2	101.0	101.0																				

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

Water Quality Monitoring

Water Quality Monitoring Results on 25 October 18 during Mid-Flood Tide

Water Quality Monitoring Results on 20 October 2024 during mid-tide																																
Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)			
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA
C1	Cloudy	Moderate	07:34	9.5	Surface	1.0	0.4	32	26.0	26.0	8.2	8.2	29.6	29.6	96.5	96.6	6.6	6.7	4.2	6	83	91			<0.2	<0.2	3.3	3.3				
						1.0	0.5	35	26.0		8.2		29.6		96.6		6.6		4.2	5	84				<0.2	<0.2	3.4					
					Middle	4.8	0.3	37	26.0	26.0	8.2	8.2	31.3	31.3	99.8	99.9	6.8	6.8	13.7	11.9	8	12	91	94			<0.2	<0.2	3.2			
						4.8	0.3	38	26.0		8.2		31.3		99.9		6.8		13.8		8		94				<0.2	<0.2	3.4			
					Bottom	8.5	0.3	18	26.0	26.0	8.3	8.3	31.9	31.9	100.7	100.7	6.8	6.8	17.6	11.9	22		96	96			<0.2	<0.2	3.3			
						8.5	0.3	19	26.0		8.3		31.9		100.6		6.8		17.9		24		97				<0.2	<0.2	3.3			
C2	Cloudy	Moderate	08:36	11.2	Surface	1.0	0.2	344	26.3	26.3	8.2	8.2	29.1	29.1	92.0	92.0	6.3	6.3	5.1	14	88	91			<0.2	<0.2	3.4	3.3				
						1.0	0.2	316	26.3		8.2		29.1		92.0		6.3		5.1	16	88					<0.2	<0.2	3.5				
					Middle	5.6	0.4	32	26.1	26.1	8.2	8.2	29.5	29.5	90.9	90.9	6.2	6.2	8.6	8.2	6	9	92	92			<0.2	<0.2	3.2			
						5.6	0.4	33	26.1		8.2		29.5		90.9		6.2		8.6		6		92				<0.2	<0.2	3.1			
					Bottom	10.2	0.3	27	26.0	26.0	8.2	8.2	30.0	30.0	90.8	90.8	6.2	6.2	11.0	6.2	7		96	96			<0.2	<0.2	3.4			
						10.2	0.3	29	26.0		8.2		30.0		90.8		6.2		10.9		7		95				<0.2	<0.2	3.2			
C3	Cloudy	Moderate	06:16	10.6	Surface	1.0	0.7	242	26.0	26.0	8.2	8.2	30.0	30.0	91.7	91.7	6.3	6.3	2.8	4	87	91			<0.2	<0.2	3.5	3.4				
						1.0	0.7	251	26.0		8.2		30.0		91.7		6.3		2.8	4	87				<0.2	<0.2	3.3					
					Middle	5.3	0.8	240	26.0	26.0	8.2	8.2	30.0	30.0	91.3	91.3	6.3	6.3	3.8	4.7	4	5	91	94			<0.2	<0.2	3.1			
						5.3	0.8	244	26.0		8.2		30.0		91.3		6.3		3.9	4	91				<0.2	<0.2	3.8					
					Bottom	9.6	0.4	255	26.0	26.0	8.2	8.2	30.0	30.0	91.3	91.3	6.3	6.3	7.2	6.3	6		95	94			<0.2	<0.2	3.5			
						9.6	0.4	264	26.0		8.2		30.0		91.3		6.3		7.5	5	94				<0.2	<0.2	3.0					
IM1	Cloudy	Moderate	07:53	5.7	Surface	1.0	0.1	331	26.0	26.0	8.2	8.2	30.4	30.4	92.2	92.2	6.3	6.3	10.9	8	84	86			<0.2	<0.2	3.0	3.2				
						1.0	0.1	354	26.0		8.2		30.4		92.2		6.3		11.0	7	85				<0.2	<0.2	3.2					
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13.9	-	7	-	86	817971	807151			<0.2	<0.2	-	3.2
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	-	-			-	-	-			
					Bottom	4.7	0.2	24	26.0	26.0	8.2	8.2	30.7	30.7	93.3	93.4	6.4	6.4	16.9	7	88				<0.2	<0.2	3.3					
						4.7	0.2	25	26.0		8.2		30.7		93.4		6.4		16.9	7	88				<0.2	<0.2	3.3					
IM2	Cloudy	Moderate	08:01	8.0	Surface	1.0	0.3	48	26.0	26.0	8.2	8.2	30.8	30.8	95.9	95.9	6.5	6.5	9.3	7	84	88			<0.2	<0.2	2.9	3.3				
						1.0	0.3	50	26.0		8.2		30.8		95.9		6.5		9.3	6	85				<0.2	<0.2	2.9					
					Middle	4.0	0.3	29	26.0	26.0	8.2	8.2	31.0	31.0	95.0	95.0	6.5	6.5	17.1	15.7	8	8	88	88			<0.2	<0.2	3.6	2.0		
						4.0	0.3	29	26.0		8.2		31.0		95.0		6.5		17.0	8	89				<0.2	<0.2	3.8					
					Bottom	7.0	0.2	23	26.0	26.0	8.2	8.2	31.1	31.1	95.1	95.2	6.5	6.5	20.9	11	92	89			<0.2	<0.2	3.2					
						7.0	0.2	23	26.0		8.2		31.1		95.2		6.5		20.8	10	92				<0.2	<0.2	3.3					
IM3	Cloudy	Moderate	08:09	8.2	Surface	1.0	0.3	42	26.1	26.1	8.2	8.2	30.8	30.8	95.8	95.8	6.5	6.5	12.3	16	85	89			<0.2	<0.2	1.7	2.0				
						1.0	0.3	44	26.1		8.2		30.8		95.8		6.5		12.6	16	86				<0.2	<0.2	3.2					
					Middle	4.1	0.2	32	26.0	26.0	8.2	8.2	31.0	31.0	95.0	95.0	6.5	6.5	15.2	12	88	89			<0.2	<0.2	1.8					
						4.1	0.2	32	26.0		8.2		31.0		95.0		6.5		15.0	12	88				<0.2	<0.2	1.8					
					Bottom	7.2	0.1	35	26.0	26.0	8.2	8.2	31.1	31.1	94.6	94.7	6.5	6.5	20.8	8	92				<0.2	<0.2	1.9					
						7.2	0.1	37	26.0		8.2		31.1		94.7		6.5		21.0	8	92				<0.2	<0.2	1.8					
IM4	Cloudy	Moderate	08:20	8.2	Surface	1.0	0.3	1	26.1	26.1	8.2	8.2	30.7	30.7	95.1	95.1	6.5	6.5	9.2	9	84	88			<0.2	<0.2	2.9	2.8				
						1.0	0.4	1	26.1		8.2		30.7		95.1		6.5		9.2	8	84				<0.2	<0.2	2.2					
					Middle	4.1	0.3	339	26.0	26.0	8.2	8.2	30.9	30.9	93.7	93.7	6.4	6.4	13.4	15.2	8	8	88	88			<0.2	<0.2	3.6			
						4.1	0.3	341	26.0		8.2		30.9		93.7		6.4		13.6	8	89				<0.2	<0.2	3.6					
					Bottom	7.2	0.2	337	26.0	26.0	8.2	8.2	30.9	30.9	93.7	93.7	6.4	6.4	22.7	6	92				<0.2	<0.2	3.5					
						7.2	0.2	310	26.0		8.2		30.9		93.7		6.4		22.9	6	93				<0.2	<0.2	2.5					
IM5	Cloudy	Moderate	08:29	7.6	Surface	1.0	0.3	354	26.2	26.2	8.2	8.2	30.6	30.6	94.8	94.8	6.5	6.5	9.9	7	85	89			<0.2	<0.2	3.5	3.2				
						1.0	0.3	326	26.2		8.2		30.6		94.8		6.5		10.1	7	85				<0.2	<0.2	3.3					
					Middle	3.8	0.3	350	26.1	26.1	8.2	8.2	30.7	30.7	93.9	93.9	6.4	6.4	16.3	5	88	91			<0.2	<0.2	3.5					
						3.8	0.3	322	26.1		8.2		30.7		93.9		6.4		16.5	6	90				<0.2	<0.2	3.4					
					Bottom	6.6	0.2	350	26.0	26.0	8.2	8.2	30.8	30.8	93.6	93.6	6.4	6.4	22.3	7	91				<0.2	<0.2	3.3					
						6.6	0.2	359	26.0		8.2		30.8		93.6		6.4		22.3	8	93				<0.2	<0.2	1.9					
IM6	Cloudy	Moderate	08:37	7.7	Surface	1.0	0.0	36	26.1	26.1	8.2	8.2	30.2	30.2	93.3	93.3	6.4	6.4	10.7	9	86	89			<0.2	<0.2	2.1	1.9				
						1.0	0.0	39	26.1		8.2		30.2		93.3		6.4		10.8	9	86				<0.2	<0.2	1.8					
					Middle	3.2	0.1	8	26.0	26.0	8.2	8.2	30.6	30.6	93.0	93.0	6.4	6.4	17.2	7	89	89			<0.2	<0.2	1.9					
						3.9	0.1	8	26.0		8.2		30.6		93.0		6.4		17.2	9	89				<0.2	<0.2	1.9					
					Bottom	6.7	0.0	236	26.0	26.0	8.2	8.2	30.6	30.6	93.3	93.3	6.4	6.4	21.6	9	92				<0.2	<0.2	1.9					
						6.7	0.0	239	26.0		8.2		30.6		93.3		6.4		21.5	9	93				<0.2	<0.2	1.8					
IM7	Cloudy	Moderate	08:47	8.7	Surface	1.0	0.1	228	26.3	26.3	8.2	8.2	29.1	29.1	92.1	92.1	6.3	6.3	5.2	8	85	91			<0.2	<0.2	1.8	2.1				
						1.0	0.1	241	26.3		8.2		29.1		92.1		6.3		5.2	8	85				<0.2	<0.2	1.8					
					Middle	4.4	0.0	211	26.1	26.1	8.2	8.2	29.4	29.4	91.1	91.1	6.3	6.3	8.3	8.9	10	9	92	91			<0.2	<0.2	1.8			
						4.4	0.0	230	26.1		8.2		29.4		91.1		6.3		8.4	10	92				<0.2	<0.2	1.8					
					Bottom	7.7	0.1	8	26.0	26.0	8.2	8.2	30.1	30.1	91.8	91.8	6.3	6.3	13.2	11	95				<0.2	<0.2	3.6					
						7.7	0.1	88	26.0		8.2		30.1		91.9		6.3		13.3	9	95				<0.2	<0.2	1.9					
IM8	Cloudy	Moderate	08:05	7.9	Surface	1.0	0.2	88	26.2	26.2	8.2	8.2	30.6	30.6	94.9	94.9	6.5	6.5	11.3	8	87	88			<0.2	<0.2	2.0	2.0				
						1.0	0.2	94	26.2		8.2		30.6		94.9		6.5		10.7	8	88				<0.2	<0.2	1.9					
					Middle	4.0	0.4	54	26.1	26.1	8.2	8.2	30.7	30.7	94.0	94.0	6.4	6.4	16.2	16.5	9	9	91	92			<0.2	<0.2	1.8	2.0		
						4.0	0.4	56	26.1		8.2		30.7		94.0		6.4		16.5	9	91				<0.2	<0.2	1.8					
					Bottom	6.9	0.4	40	26.0	26.0	8.2	8.2	30.8</																			

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

Water Quality Monitoring

Water Quality Monitoring Results on 25 October 18 during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)				
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA			
IM9	Cloudy	Moderate	07:56	7.6	Surface	1.0	0.4	46	26.1	26.1	8.2	8.2	30.7	30.7	95.0	95.0	6.5		9.7		9	88			92	822108	808816	<0.2		1.8			
						1.0	0.4	48	26.1		8.2	8.2	30.7		95.0		6.5	6.5	9.8		9	87					<0.2		1.8				
					Middle	3.8	0.4	50	26.0	26.0	8.2	8.2	30.9	30.9	93.6	93.6	6.4		15.6		12	92			11	91	92		<0.2		1.8	1.8	
						3.8	0.4	50	26.0		8.2	8.2	30.9		93.6		6.4	6.4	15.7		11				11	96			<0.2		1.9	1.9	
					Bottom	6.6	0.5	12	26.0	26.0	8.2	8.2	30.9	30.9	93.5	93.5	6.4	6.4	20.3		11	96					96			<0.2		1.8	1.8
						6.6	0.5	12	26.0		8.2	8.2	30.9		93.5		6.4	6.4	20.5		11	96								<0.2		1.8	1.8
IM10	Cloudy	Moderate	07:47	8.2	Surface	1.0	0.4	327	26.2	26.2	8.2	8.2	30.3	30.3	96.2	96.2	6.6		8.9		11	88			92	822361	809775	<0.2		1.8			
						1.0	0.4	331	26.2		8.2	8.2	30.3		96.2		6.6	6.6	9.0		10	88					<0.2		1.8	1.8			
					Middle	4.1	0.4	341	26.0	26.0	8.2	8.2	31.0	31.0	94.7	94.7	6.5		12.8		10	92			10	91	92		<0.2		1.8	1.8	
						4.1	0.4	314	26.0		8.2	8.2	31.0		94.7		6.5	6.5	12.6		10	91					95			<0.2		1.9	1.9
					Bottom	7.2	0.3	340	26.0	26.0	8.2	8.2	31.1	31.1	94.5	94.5	6.4	6.4	19.8		9	95					95			<0.2		1.8	1.8
						7.2	0.3	358	26.0		8.2	8.2	31.1		94.5		6.4	6.4	19.8		11	96								<0.2		1.9	1.9
IM11	Cloudy	Moderate	07:36	7.8	Surface	1.0	0.2	300	26.0	26.0	8.2	8.2	30.7	30.7	96.2	96.2	6.6		7.5		8	87			91	822052	811446	<0.2		1.8			
						1.0	0.2	324	26.0		8.2	8.2	30.7		96.2		6.6	6.6	7.5		9	88					<0.2		1.9	1.9			
					Middle	3.9	0.4	43	26.0	26.0	8.2	8.2	31.0	31.0	95.1	95.1	6.5		15.5		6	91			8	92			<0.2		2.0	2.0	
						3.9	0.4	44	26.0		8.2	8.2	31.0		95.1		6.5	6.5	15.7		6	92					95			<0.2		2.0	2.0
					Bottom	6.8	0.4	90	26.0	26.0	8.2	8.2	31.1	31.1	95.0	95.0	6.5	6.5	17.1		9	95					95			<0.2		2.0	2.0
						6.8	0.5	92	26.0		8.2	8.2	31.1		95.0		6.5	6.5	16.7		8	95								<0.2		2.0	2.0
IM12	Cloudy	Moderate	07:28	8.9	Surface	1.0	0.7	265	26.0	26.0	8.2	8.2	30.5	30.5	91.9	92.0	6.3		10.3		14	88			92	821452	812029	<0.2		1.8			
						1.0	0.8	275	26.0		8.2	8.2	30.5		92.0		6.3	6.3	10.4		13	87					<0.2		2.0	2.0			
					Middle	4.5	0.6	260	26.0	26.0	8.2	8.2	30.6	30.6	92.3	92.3	-		14.6		12	92			13	92			<0.2		1.8	1.8	
						4.5	0.7	271	26.0		8.2	8.2	30.6		92.3		-	-	14.7		13	92					96			<0.2		1.9	1.9
					Bottom	7.9	0.5	262	26.0	26.0	8.2	8.2	30.8	30.8	92.2	92.2	6.3	6.3	14.4		12	96					96			<0.2		2.0	2.0
						7.9	0.5	265	26.0		8.2	8.2	30.8		92.2		6.3	6.3	14.2		13	96								<0.2		1.8	1.8
SR1A	Cloudy	Moderate	06:50	7.2	Surface	1.0	-	-	26.0	26.0	8.2	8.2	29.5	29.5	97.2	97.3	6.7		5.1		6	-			-	820063	812584	-	-	2.0	2.0		
						1.0	-	-	26.0		8.2	8.2	29.5		97.3		6.7	6.7	5.2		6	-			-		-	-	-	1.8	1.8		
					Middle	3.6	-	-	26.0	26.0	8.2	8.2	31.0	31.0	98.9	98.9	6.7		10.7		5	-			5	-	-		-	-	-	-	
						3.6	-	-	26.0		8.2	8.2	31.0		98.9		6.7	6.7	10.9		5	-					-	-	-	-	-	-	
					Bottom	6.2	-	-	26.0	26.0	8.2	8.2	31.7	31.7	99.3	99.3	6.7	6.7	12.5		3	-					-	-	-	-	-	-	-
						6.2	-	-	26.0		8.2	8.2	31.7		99.3		6.7	6.7	12.6		3	-					-	-	-	-	-	-	-
SR2	Cloudy	Moderate	06:36	4.8	Surface	1.0	0.3	65	26.0	26.0	8.2	8.2	30.7	30.7	92.7	92.7	6.3		17.4		18	87			90	821457	814147	<0.2		1.9	1.9		
						1.0	0.3	68	26.0		8.2	8.2	30.7		92.7		6.3	6.3	17.6		18	87					<0.2		2.0	2.0			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19.9	-	19	-	-		<0.2		-	-	
						3.8	0.3	40	26.0	26.0	8.2	8.2	30.7	30.7	92.6	92.6	6.3	6.3	22.4		18	92					92			<0.2		2.0	2.0
SR3	Cloudy	Moderate	08:14	8.2	Surface	3.8	0.3	42	26.0		8.2	8.2	30.7	30.7	92.6	92.6	6.3		22.3		21	92					<0.2		1.9	1.9			
						1.0	0.2	33	26.1	26.1	8.2	8.2	30.2	30.2	93.3	93.3	6.4		11.1		10	-					-	-	-	-			
					Middle	1.0	0.2	33	26.1		8.2	8.2	30.2		93.3		6.4	6.4	11.2		11	-					-	-	-	-			
						4.1	0.6	51	26.0	26.0	8.2	8.2	30.5	30.5	92.9	92.9	-		15.7		12	-					-	-	-	-			
					Bottom	4.1	0.6	55	26.0		8.2	8.2	30.5		92.9		-	-	15.8		14	-					-	-	-	-			
						7.2	0.5	64	26.0	26.0	8.2	8.2	30.6	30.6	92.8	92.9	6.3	6.3	23.1		14	-					-	-	-	-			
SR4A	Cloudy	Calm	07:10	10.0	Surface	7.2	0.5	69	26.0	26.0	8.2	8.2	30.6	30.6	92.9	92.9	6.3		23.1		13	-			-	-	-	-					
						1.0	0.5	55	26.0	26.0	8.2	8.2	30.7	30.7	92.8	92.8	6.3		10.3		17	-					-	-	-	-			
					Middle	1.0	0.5	55	26.0		8.2	8.2	30.7		92.8		6.3	6.3	10.3		15	-					-	-	-	-			
						5.0	0.5	55	26.0	26.0	8.2	8.2	30.7	30.7	92.5	92.5	-		15.5		16	-					-	-	-	-			
					Bottom	5.0	0.5	55	26.0		8.2	8.2	30.7		92.5		-	-	15.6		16	-					-	-	-	-			
						9.0	0.3	60	26.0	26.0	8.2	8.2	30.7	30.7	92.5	92.6	6.3	6.3	23.6		17	-					-	-	-	-			
SR5A	Cloudy	Calm	06:51	5.0	Surface	9.0	0.4	64	26.0		8.2	8.2	30.7		92.6		6.3	6.3	23.9		17	-			-	-	-	-					
						1.0	0.2	128	26.0	26.0	8.2	8.2	30.0	30.0	91.8	91.8	6.3		2.6		4	-					-	-	-	-			
					Middle	1.0	0.2	128	26.0		8.2	8.2	30.0		91.8		6.3	6.3	2.6		5	-					-	-	-	-			
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-			-	-	-	-			
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					-	-	-	-			
						4.0	0.2	138	26.0	26.0	8.2	8.2	30.0	30.0	92.0	92.0	6.3	6.3	3.4		4	-					-	-	-	-			
SR6	Cloudy	Calm	06:26	4.7	Surface	4.0	0.2	141	26.0		8.2	8.1	29.7	29.7	92.0	92.0	6.3		3.5		4	-			-	-	-	-					
						1.0	0.1	230	26.1	26.1	8.1	8.1	29.7	29.7	90.3	90.3	6.2	6.2	2.6		4	-					-	-	-	-			
					Middle	1.0	0.1	231	26.1		8.1	8.1	29.7		90.3		6.2	6.2	2.6		4	-					-	-	-	-			
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-			-	-	-	-			
					Bottom	3.7	0.1	253	26.1	26.1	8.1	8.1	29.9	29.9	90.1	90.2	6.2	6.2	4.4		3	-					-	-	-	-			
						3.7	0.1	265	26.1		8.1	8.1	29.9		90.2		6.2	6.2	4.4		3	-					-	-	-	-			
SR7	Cloudy	Moderate	05:50	14.9	Surface	1.0	0.1	166	26.1	26.1	8.2	8.2	29.7	29.7	90.3	90.3	6.2		2.5		4	-			-	-	-	-					
						1.0	0.1	180	26.1		8.2	8.2	29.7		90.2		6.2	6.2	2.5		4	-					-	-	-	-			
					Middle	7.5	0.2	122	26.1	26.1	8.2	8.2	29.8	29.8	90.0	90.0	6.2		4.6		5	-			6	-	-	-	-				
						7.5	0.2	127	26.1		8.2	8.2	29.8		90.0		6.2	6.2	4.7		6	-					-	-	-	-			
					Bottom	13.9	0.2	139	26.1	26.1	8.2	8.2	29.8	29.8	89.9	89.9	6.2	6.2	11.4		10	-					-	-	-	-			
						13.9	0.2	142	26.1		8.2	8.2	29.8		89.9		6.2	6.2	11.7		9	-					-	-	-				

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

Water Quality Monitoring

Water Quality Monitoring Results on

27 October 18

during Mid-Ebb Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)							
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA	Value	DA	Value	DA
C1	Cloudy	Moderate	14:01	8.8	Surface	1.0	0.2	174	26.1	26.1	8.1	8.1	28.5	28.5	100.4	100.4	6.9	6.9	1.5	2	2	79	85	815621	804269	<0.2	<0.2	2.0	1.8							
						1.0	0.2	180	26.1		8.1		28.5		100.3		6.9	1.5	2			78				<0.2	<0.2	1.9								
					Middle	4.4	0.1	157	25.9	25.9	8.2	8.2	29.7	29.7	99.5	99.5	6.8	2.5	2	2	2	86	85			<0.2	<0.2	1.8								
						4.4	0.1	160	25.9		8.2		29.8		99.4		6.8	2.8	2			88				<0.2	<0.2	1.7								
					Bottom	7.8	0.0	130	25.9	25.9	8.1	8.1	29.7	29.7	99.5	99.6	6.8	2.9	2	2	2	87	89			<0.2	<0.2	1.8								
						7.8	0.0	130	25.9	25.9	8.1	8.1	29.6	29.7	99.6		6.9	6.9	2.7	3	3	89				<0.2	<0.2	1.3								
C2	Cloudy	Moderate	12:49	11.4	Surface	1.0	0.2	155	26.2	26.2	8.1	8.1	27.3	27.4	90.5	90.5	6.3	5.0	6	6	6	83	86	825668	806932	<0.2	<0.2	2.1	2.2							
						1.0	0.3	159	26.2		8.1		27.4		90.4		6.3	5.0	5			84				<0.2	<0.2	2.0								
					Middle	5.7	0.1	210	26.1	26.1	8.1	8.1	27.8	27.8	90.6	90.7	6.3	7.1	5	5	5	87	86			<0.2	<0.2	2.3								
						5.7	0.1	212	26.1		8.1		27.8		90.8		6.3	7.3	5			86				<0.2	<0.2	2.2								
					Bottom	10.4	0.0	153	26.1	26.1	8.1	8.1	27.8	27.8	91.7	91.8	6.4	6.4	7.5	5	5	89	89			<0.2	<0.2	2.3								
						10.4	0.0	161	26.1		8.1		27.8		91.9		6.4	7.4	5			89				<0.2	<0.2	2.3								
C3	Cloudy	Moderate	14:39	12.2	Surface	1.0	0.5	60	26.3	26.3	8.1	8.1	29.1	29.1	93.9	93.9	6.4	3.5	4	4	4	79	85	822087	817818	<0.2	<0.2	2.2	2.1							
						1.0	0.5	64	26.3		8.1		29.1		93.8		6.4	3.3	3	3	3	77				<0.2	<0.2	2.3								
					Middle	6.1	0.4	112	26.3	26.3	8.1	8.1	29.2	29.2	93.6	93.7	6.4	3.6	3	3	3	90	85			<0.2	<0.2	2.3								
						6.1	0.4	113	26.3		8.1		29.2		93.7		6.4	3.7	4.4	3	3	91				<0.2	<0.2	1.9								
					Bottom	11.2	0.3	66	26.3	26.3	8.1	8.1	29.2	29.2	93.9	93.9	6.4	6.3	3	3	3	88	87			<0.2	<0.2	2.0								
						11.2	0.3	67	26.3		8.1		29.2		93.9		6.4	6.3	3			87				<0.2	<0.2	1.8								
IM1	Cloudy	Moderate	13:37	5.2	Surface	1.0	0.1	214	26.1	26.1	8.1	8.1	28.7	28.7	94.5	94.5	6.5	4.2	3	3	3	88	85			<0.2	<0.2	2.0	2.0							
						1.0	0.1	243	26.1		8.1		28.7		94.5		6.5	4.3	3			85				<0.2	<0.2	1.9								
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.3	3	3	-	88	817951	807130	-	-	-	-						
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
					Bottom	4.2	0.1	209	26.2	26.2	8.1	8.1	28.7	28.7	94.5	94.6	6.5	6.5	4.4	3	3	89	91			<0.2	<0.2	2.0								
						4.2	0.1	238	26.2		8.1		28.7		94.6		6.5	4.4	3			89				<0.2	<0.2	2.1								
IM2	Cloudy	Moderate	13:30	7.6	Surface	1.0	0.3	172	26.1	26.1	8.1	8.1	28.8	28.9	96.7	96.6	6.7	3.0	5	5	5	83	82	818160	806164	<0.2	<0.2	1.8	1.9							
						1.0	0.3	175	26.1		8.1		28.9		96.5		6.6	3.3	5			82				<0.2	<0.2	2.0								
					Middle	3.8	0.2	237	26.0	26.0	8.1	8.1	29.2	29.2	95.4	95.4	6.6	4.6	4	4	4	88	86			<0.2	<0.2	1.8								
						3.8	0.2	239	26.0		8.1		29.2		95.4		6.6	4.8	6.8	4	4	87				<0.2	<0.2	1.9								
					Bottom	6.6	0.0	216	26.1	26.1	8.1	8.1	29.0	29.0	97.1	97.2	6.7	12.4	3	3	3	87	87			<0.2	<0.2	1.8								
						6.6	0.0	216	26.1		8.1		28.9		97.2		6.7	12.4	3			87				<0.2	<0.2	1.9								
IM3	Cloudy	Moderate	13:24	7.9	Surface	1.0	0.3	144	26.1	26.1	8.1	8.1	28.6	28.6	97.8	97.8	6.8	2.4	4	4	4	79	84	818789	805608	<0.2	<0.2	1.8	1.9							
						1.0	0.3	144	26.0		8.1		28.6		97.7		6.7	2.7	4			79				<0.2	<0.2	2.0								
					Middle	4.0	0.2	215	26.0	26.0	8.1	8.1	29.7	29.7	96.4	96.4	6.6	6.9	3	3	3	86	85			<0.2	<0.2	1.8								
						4.0	0.3	215	26.0		8.1		29.7		96.4		6.6	7.3	3			85				<0.2	<0.2	2.0								
					Bottom	6.9	0.2	232	26.0	26.0	8.1	8.1	29.4	29.4	97.2	97.3	6.7	6.7	13.8	3	3	87	87			<0.2	<0.2	2.0								
						6.9	0.2	234	26.0		8.1		29.3		97.4		6.7	6.7	13.8	2		89				<0.2	<0.2	1.9								
IM4	Cloudy	Moderate	13:16	7.7	Surface	1.0	0.2	29	26.2	26.2	8.1	8.1	28.9	28.9	97.2	97.2	6.7	4.3	6	6	6	82	81	819721	804592	<0.2	<0.2	2.1	2.0							
						1.0	0.2	30	26.2		8.1		28.9		97.1		6.7	4.2	6			85				<0.2	<0.2	2.0								
					Middle	3.9	0.2	8	26.0	26.0	8.1	8.1	29.6	29.6	96.1	96.1	6.6	4.3	6	6	6	85	84			<0.2	<0.2	1.9								
						3.9	0.2	8	26.0		8.1		29.7		96.1		6.6	4.2	6			85				<0.2	<0.2	1.9								
					Bottom	6.7	0.2	340	26.1	26.1	8.1	8.1	29.5	29.4	96.5	96.6	6.6	12.9	6	6	6	87	86			<0.2	<0.2	2.0								
						6.7	0.2	313	26.1		8.1		29.3		96.6		6.6	12.9	7			86				<0.2	<0.2	2.0								
IM5	Cloudy	Moderate	13:08	8.1	Surface	1.0	0.3	207	26.1	26.1	8.1	8.1	28.5	28.5	94.7	94.7	6.5	6.3	6	6	6	86	86	820738	804859	<0.2	<0.2	1.6	1.6							
						1.0	0.3	207	26.1		8.1		28.5		94.6		6.5	6.5	6.3	6		86				<0.2	<0.2	1.6								
					Middle	4.1	0.3	219	26.1	26.1	8.1	8.1	28.6	28.6	94.3	94.3	6.5	12.3	11.8	7	7	89	89			<0.2	<0.2	1.6								
						4.1	0.3	220	26.1		8.1		28.6		94.3		6.5	12.3	8			89				<0.2	<0.2	1.5								
					Bottom	7.1	0.4	215	26.1	26.1	8.1	8.1	28.6	28.6	94.8	94.9	6.5	6.5	16.8	9	9	91	90			<0.2	<0.2	1.4								
						7.1	0.4	216	26.1		8.1		28.6		94.9		6.5	6.5	16.8	8		90				<0.2	<0.2	1.5								
IM6	Cloudy	Moderate	13:01	8.0	Surface	1.0	0.1	279	26.1	26.1	8.1	8.1	28.2	28.2	93.0	93.0	6.4	11.1	12	79	84	821060	805850	<0.2	<0.2	1.8	1.8									
						1.0	0.1	287	26.1		8.1		28.2		93.0		6.4	11.1	13			78				<0.2	<0.2	1.7								
					Middle	4.0	0.1	153	26.1	26.1	8.1	8.1	28.2	28.2	93.3	93.3	6.4	8.6	9.3	11	11	85	84			<0.2	<0.2	1.8								
						4.0	0.1	154	26.1		8.1		28.2		93.3		6.4	8.8	10			85				<0.2	<0.2	1.8								
					Bottom	7.0	0.1	226	26.1	26.1	8.1	8.1	28.2	28.2	93.1	93.1	6.4	8.1	9	9	9	89	89			<0.2	<0.2	1.6								
						7.0	0.1	226	26.1		8.1		28.2		93.1		6.4	8.1	9			89				<0.2	<0.2	1.9								
IM7	Cloudy	Moderate	12:50	8.1	Surface	1.0	0.2	221	26.2	26.2	8.1	8.1	27.3	27.3	90.4	90.4	6.3	4.6	5	5	5	77	85	821349	806831	<0.2	<0.2	1.8	1.7							
						1.0	0.2	243	26.2		8.1		27.3		90.3		6.3	4.8	4			78				<0.2	<0.2	1.9								
					Middle	4.1	0.1	212	26.1	26.1	8.1	8.1	27.8	27.8	89.7	89.7	6.2	7.4	6.0	5	5	86	88			<0.2	<0.2	1.7								
						4.1	0.1	230	26.1		8.1		27.8		89.7		6.2	7.4	6			88				<0.2	<0.2	1.7								
					Bottom	7.1	0.1	220	26.1	26.1	8.1	8.1	27.6	27.6	90.3	90.4	6.3	6.3	5.8	6	6	89	89			<0.2	<0.2	1.6								
						7.1	0.1	241	26.1		8.1		27.5		90.4		6.3	5.8	6			89				<0.2	<0.2	1.6								
IM8	Cloudy	Moderate	13:28	8.3	Surface	1.0	0.2	122	26.1	26.1	8.1	8.1	28.5	28.5	95.0	95.0	6.6	4.7	7	7	7	86	88	821827	808141	<0.2	<0.2	1.9	1.8							
						1.0	0.2	123	26.1		8.1		28.5		94.9		6.5	4.7	7			89				<0.2	<0.2	1.8								
					Middle	4.2	0.3	76	26.1	26.1	8.1	8.1	28.6	28.6	94.5																					

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

Water Quality Monitoring

Water Quality Monitoring Results on

27 October 18

during Mid-Ebb Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)						
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA	Value	DA	Value
IM9	Cloudy	Moderate	13:35	7.6	Surface	1.0	0.5	102	26.2	26.2	8.1	8.1	29.1	29.0	96.9	97.1	6.7	6.7	4.1	7	7	86	88	88	822070	808802	<0.2	<0.2	1.6	1.6					
						1.0	0.5	106	26.2		8.1	8.1	28.9		97.2		6.7	6.7	4.1	7	7	85									<0.2	<0.2	1.5	1.5	
					Middle	3.8	0.5	80	26.0	26.0	8.1	8.1	29.6	29.6	96.1	96.1	6.6	6.6	4.6	7	7	88	88	88							<0.2	<0.2	1.5	1.6	
						3.8	0.5	80	26.0		8.1	8.1	29.6		96.1		6.6	6.6	4.6	7	7	87									<0.2	<0.2	1.6	1.6	
					Bottom	6.6	0.4	92	26.0	26.0	8.1	8.1	29.6	29.6	96.4	96.5	6.6	6.6	13.7	6	6	89	89	89							<0.2	<0.2	1.6	1.6	
6.6	0.4	100	26.0			8.1	8.1	29.6		96.5		6.6	6.6	13.7	6	6	91					<0.2	<0.2	1.6	1.6										
IM10	Cloudy	Moderate	13:46	7.8	Surface	1.0	0.6	90	26.0	26.0	8.1	8.1	28.7	28.7	97.7	97.6	6.7	6.7	3.0	5	5	85	87	89	822378	809787	<0.2	<0.2	1.7	1.6					
						1.0	0.7	94	26.0		8.1	8.1	28.8		97.5		6.7	6.7	3.0	5	5	88									<0.2	<0.2	1.5	1.6	
					Middle	3.9	0.5	88	26.0	26.0	8.1	8.1	29.5	29.5	96.7	96.7	6.7	6.7	5.1	5	5	91	88	89							<0.2	<0.2	1.6	1.6	
						3.9	0.5	89	26.0		8.1	8.1	29.5		96.7		6.7	6.7	5.0	6	6	90									<0.2	<0.2	1.5	1.5	
					Bottom	6.8	0.3	99	26.0	26.0	8.1	8.1	29.7	29.7	96.7	96.8	6.6	6.7	9.9	8	8	89	89	91							<0.2	<0.2	1.5	1.5	
6.8	0.3	105	26.0			8.1	8.1	29.7		96.9		6.7	6.7	9.9	6	6	91					<0.2	<0.2	1.5	1.5										
IM11	Cloudy	Moderate	13:53	7.7	Surface	1.0	0.6	103	26.1	26.1	8.1	8.1	28.8	28.9	96.8	96.7	6.7	6.7	3.6	5	5	87	83	88	822039	811459	<0.2	<0.2	1.5	1.5					
						1.0	0.6	105	26.1		8.1	8.1	28.9		96.5		6.7	6.7	3.6	5	5	85									<0.2	<0.2	1.4	1.4	
					Middle	3.9	0.5	95	26.0	26.0	8.1	8.1	29.2	29.2	95.5	95.5	-	-	6.2	3	4	89	88	88							<0.2	<0.2	1.6	1.6	
						3.9	0.6	98	26.0		8.1	8.1	29.2		95.5		-	-	6.2	3	3	88									<0.2	<0.2	1.4	1.4	
					Bottom	6.7	0.5	109	26.0	26.0	8.1	8.1	29.2	29.2	96.0	96.2	6.6	6.6	7.1	3	3	91	91	89							<0.2	<0.2	1.5	1.5	
6.7	0.5	110	26.0			8.1	8.1	29.2		96.3		6.6	6.6	7.1	3	3	89					<0.2	<0.2	1.5	1.5										
IM12	Cloudy	Moderate	13:59	8.2	Surface	1.0	0.5	118	26.2	26.2	8.1	8.1	28.7	28.7	94.7	94.7	6.5	6.5	5.4	3	3	87	85	88	821460	812040	<0.2	<0.2	1.5	1.4					
						1.0	0.6	124	26.2		8.1	8.1	28.7		94.7		6.5	6.5	5.4	3	3	85									<0.2	<0.2	1.4	1.4	
					Middle	4.1	0.5	93	26.1	26.1	8.1	8.1	28.7	28.7	94.6	94.6	6.5	6.5	6.6	3	4	88	88	88							<0.2	<0.2	1.4	1.3	
						4.1	0.6	93	26.1		8.1	8.1	28.7		94.6		6.5	6.5	6.6	3	3	88									<0.2	<0.2	1.3	1.3	
					Bottom	7.2	0.2	108	26.1	26.1	8.1	8.1	28.7	28.7	94.6	94.6	6.5	6.5	7.8	4	4	91	91	91							<0.2	<0.2	1.3	1.4	
7.2	0.3	108	26.1			8.1	8.1	28.7		94.6		6.5	6.5	7.0	5	5	91					<0.2	<0.2	1.4	1.4										
SR1A	Cloudy	Moderate	14:24	7.2	Surface	1.0	-	-	26.1	26.1	8.1	8.1	28.5	28.5	100.3	100.3	6.9	6.9	1.5	4	4	-	-	-	820074	812585	<0.2	<0.2	-	-					
						1.0	-	-	26.1		8.1	8.1	28.5		100.3		6.9	6.9	1.5	4	4	-	-	-							-	-			
					Middle	3.6	-	-	25.9	25.9	8.2	8.2	29.7	29.7	99.3	99.3	6.8	6.8	2.5	3	4	-	-	-							-	-	-	-	
						3.6	-	-	25.9		8.2	8.2	29.8		99.2		6.8	6.8	2.5	4	4	-	-	-							-	-	-	-	
					Bottom	6.2	-	-	25.9	25.9	8.2	8.2	30.4	30.4	98.9	99.0	6.8	6.8	5.8	4	4	-	-	-							-	-	-	-	
6.2	-	-	25.9			8.2	8.2	30.4		99.0		6.8	6.8	5.8	4	4	-	-	-			-	-	-	-										
SR2	Cloudy	Moderate	14:24	4.3	Surface	1.0	0.5	90	26.2	26.2	8.1	8.1	28.8	28.8	98.9	98.9	6.8	6.8	3.0	2	2	83	84	87	821480	814184	<0.2	<0.2	1.4	1.3					
						1.0	0.6	95	26.2		8.1	8.1	28.8		98.9		6.8	6.8	2.9	3	3	84									<0.2	<0.2	1.3	1.4	
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					-			-	-	-	-
						-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-							-	-	-	-		
					Bottom	3.3	0.3	81	26.2	26.2	8.1	8.1	28.8	28.8	99.1	99.2	6.8	6.8	2.9	3	3	90	90	89							<0.2	<0.2	1.4	1.4	
3.3	0.3	85	26.2			8.1	8.1	28.8		99.2		6.8	6.8	3.0	3	3	89					<0.2	<0.2	1.4	1.4										
SR3	Cloudy	Moderate	13:22	8.7	Surface	1.0	0.4	117	26.1	26.1	8.1	8.1	28.2	28.2	93.4	93.5	6.5	6.5	10.1	12	12	-	-	-	822127	807573	<0.2	<0.2	-	-					
						1.0	0.5	124	26.1		8.1	8.1	28.2		93.5		6.5	6.5	10.1	13	13	-	-	-							-	-			
					Middle	4.4	0.4	197	26.1	26.1	8.1	8.1	28.2	28.2	93.8	93.8	-	-	9.0	7	7	-	-	-							-	-	-	-	
						4.4	0.4	199	26.1		8.1	8.1	28.2		93.8		-	-	9.2	7	7	-	-	-							-	-	-	-	
					Bottom	7.7	0.3	184	26.1	26.1	8.1	8.1	28.2	28.2	94.1	94.2	6.5	6.5	9.0	6	6	-	-	-							-	-	-	-	
7.7	0.3	186	26.1			8.1	8.1	28.2		94.2		6.5	6.5	9.1	6	6	-	-	-			-	-	-	-										
SR4A	Cloudy	Moderate	14:25	9.2	Surface	1.0	0.3	88	26.2	26.2	8.1	8.1	28.8	28.8	98.7	98.7	6.8	6.8	3.0	4	4	-	-	-	817196	807800	<0.2	<0.2	-	-					
						1.0	0.3	93	26.2		8.1	8.1	28.8		98.6		6.8	6.8	3.1	4	4	-	-	-							-	-			
					Middle	4.6	0.3	95	26.1	26.1	8.1	8.1	28.9	28.9	98.2	98.2	6.8	6.8	4.3	4	4	-	-	-							-	-	-	-	
						4.6	0.3	103	26.1		8.1	8.1	28.9		98.2		6.8	6.8	4.4	3	3	-	-	-							-	-	-	-	
					Bottom	8.2	0.3	67	26.1	26.1	8.1	8.1	28.9	28.9	98.5	98.6	6.8	6.8	4.1	4	4	-	-	-							-	-	-	-	
8.2	0.3	70	26.1			8.1	8.1	28.9		98.6		6.8	6.8	3.9	3	3	-	-	-			-	-	-	-										
SR5A	Cloudy	Moderate	14:39	4.3	Surface	1.0	0.1	353	26.3	26.3	8.1	8.1	29.0	29.0	94.6	94.6	6.5	6.5	3.3	5	5	-	-	-	816579	810700	<0.2	<0.2	-	-					
						1.0	0.1	325	26.3		8.1	8.1	29.0		94.5		6.5	6.5	3.6	4	4	-	-	-							-	-			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					-			-	-	-	-
						-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-							-	-	-	-		
					Bottom	3.3	0.1	348	26.3	26.3	8.1	8.1	29.1	29.1	94.3	94.3	6.5	6.5	3.5	3	3	-	-	-							-	-	-	-	
3.3	0.1	356	26.3			8.1	8.1	29.1		94.3		6.5	6.5	3.6	3	3	-	-	-			-	-	-	-										
SR6	Cloudy	Moderate	15:02	4.6	Surface	1.0	0.0	33	26.4	26.4	8.1	8.1	28.5	28.5	97.4	97.4	6.7	6.7	1.8	2	2	-	-	-	817881	814656	<0.2	<0.2	-	-					
						1.0	0.0	34	26.4		8.1	8.1	28.5		97.4		6.7	6.7	1.8	2	2	-	-	-							-	-			
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					-			-	-	-	-
						-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-							-	-	-	-		
					Bottom	3.6	0.0	33	26.5	26.5	8.1	8.1	28.5	28.5	97.6	97.7	6.7	6.7	1.9	3	3	-	-	-							-	-	-	-	
3.6	0.0	35	26.5			8.1	8.1	28.5		97.7		6.7	6.7	1.9	3	3	-	-	-			-	-	-	-										
SR7	Cloudy	Moderate	15:12	16.5	Surface	1.0	0.9	77	26.5	26.5	8.1	8.1	28.5	28.5	97.6	97.5	6.7	6.7	2.4	4	4	-	-	-	823649	823737	<0.2	<0.2	-	-					
						1.0	0.9	83	26.5		8.1	8.1	28.5		97.4		6.7	6.7	2.4	4	4	-	-	-							-	-			
					Middle	8.3	0.5	70	26.3	26.3	8.1	8.1	28.6	28.6	96.7																				

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

Water Quality Monitoring

Water Quality Monitoring Results on

27 October 18

during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity(NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)				
									Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA	
C1	Cloudy	Moderate	08:26	8.7	Surface	1.0	0.5	43	25.9	25.9	8.1	8.1	28.8	28.8	95.5	95.6	6.6	6.6	5.2	6.6	4	4	80	84	815599	804229	<0.2	<0.2	1.0	0.9			
						1.0	0.5	45	25.9		8.1	8.1	28.8		95.6		6.6	6.6	5.7	6.6	4	4	81				<0.2	<0.2	1.1				
					Middle	4.4	0.5	52	25.9	25.9	8.1	8.1	29.6	29.7	96.0	96.0	6.6	6.6	8.7	6.6	6	5	83	86			<0.2	<0.2	1.2				
						4.4	0.5	56	25.9		8.1	8.1	29.8		96.0		6.6	6.6	8.7	6.6	5	5	85				<0.2	<0.2	0.7				
					Bottom	7.7	0.6	31	25.9	25.9	8.1	8.1	30.6	30.5	95.6	95.6	6.5	6.5	10.6	6.5	6	6	88	89			<0.2	<0.2	0.7				
						7.7	0.6	31	25.9		8.1	8.1	30.4		95.6		6.5	6.5	10.6	6.5	6	6	89				<0.2	<0.2	0.6				
C2	Cloudy	Moderate	09:36	11.8	Surface	1.0	0.3	54	26.2	26.2	8.1	8.1	27.3	27.3	90.6	90.6	6.3	6.3	4.6	6.3	8	7	82	86	825691	806929	<0.2	<0.2	1.5	1.8			
						1.0	0.4	54	26.2		8.1	8.1	27.3		90.5		6.3	6.3	4.8	6.3	9	7	81				<0.2	<0.2	1.2				
					Middle	5.9	0.3	30	26.1	26.1	8.1	8.1	27.8	27.8	90.3	90.4	6.3	6.3	7.0	6.3	7	7	87	86			<0.2	<0.2	2.0				
						5.9	0.3	31	26.1		8.1	8.1	27.8		90.4		6.3	6.3	7.2	6.3	7	7	86				<0.2	<0.2	2.0				
					Bottom	10.8	0.4	308	26.1	26.1	8.1	8.1	27.8	27.8	91.1	91.3	6.3	6.3	7.0	6.3	7	6	89	91			<0.2	<0.2	2.0				
						10.8	0.4	338	26.1		8.1	8.1	27.8		91.4		6.3	6.3	6.7	6.3	6	6	91				<0.2	<0.2	1.9				
C3	Cloudy	Moderate	07:43	12.2	Surface	1.0	0.7	244	26.1	26.1	8.0	8.0	29.1	29.1	92.2	92.3	6.3	6.3	2.3	6.3	5	4	81	84	822106	817796	<0.2	<0.2	1.9	1.9			
						1.0	0.7	268	26.1		8.0	8.0	29.1		92.3		6.4	6.3	2.3	6.3	4	4	84				<0.2	<0.2	1.9				
					Middle	6.1	0.5	249	26.1	26.1	8.0	8.0	29.2	29.2	92.1	92.2	6.3	6.3	2.4	6.3	4	4	87	85			<0.2	<0.2	1.8				
						6.1	0.6	258	26.0		8.0	8.0	29.2		92.2		6.3	6.3	2.7	6.4	4	4	85				<0.2	<0.2	1.8				
					Bottom	11.2	0.4	273	26.0	26.0	8.0	8.0	29.2	29.2	92.7	92.9	6.4	6.4	2.7	6.4	3	3	89	89			<0.2	<0.2	1.9				
						11.2	0.4	290	26.0		8.0	8.0	29.2		93.1		6.4	6.4	2.7	6.4	4	4	89				<0.2	<0.2	1.9				
IM1	Cloudy	Moderate	08:43	5.4	Surface	1.0	0.1	3	26.0	26.0	8.1	8.1	28.7	28.7	94.9	94.9	6.6	6.6	5.0	6.6	7	8	86	87	817954	807108	<0.2	<0.2	1.2	1.2			
						1.0	0.1	3	26.0		8.1	8.1	28.7		94.9		6.6	6.6	5.1	6.6	8	8	87				<0.2	<0.2	1.1				
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	<0.2	<0.2	-	1.2
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	<0.2	<0.2	-	
					Bottom	4.4	0.0	17	26.0	26.0	8.1	8.1	28.7	28.7	94.9	94.9	6.6	6.6	5.7	6.6	8	8	88	89			<0.2	<0.2	1.2				
						4.4	0.0	18	26.0		8.1	8.1	28.7		94.9		6.6	6.6	5.3	6.6	7	7	89				<0.2	<0.2	1.2				
IM2	Cloudy	Moderate	08:52	7.8	Surface	1.0	0.5	34	26.0	26.0	8.1	8.1	28.4	28.4	95.8	95.8	6.6	6.6	3.2	6.6	4	4	85	88	818181	806180	<0.2	<0.2	1.4	1.3			
						1.0	0.5	36	26.0		8.1	8.1	28.5		95.7		6.6	6.6	3.2	6.6	4	4	86				<0.2	<0.2	1.4				
					Middle	3.9	0.4	13	26.0	26.0	8.1	8.1	29.0	29.0	95.4	95.5	6.6	6.6	3.9	6.6	6	6	88	87			<0.2	<0.2	1.3				
						3.9	0.5	13	26.0		8.1	8.1	29.0		95.5		6.6	6.6	3.4	6.6	5	5	87				<0.2	<0.2	1.2				
					Bottom	6.8	0.4	1	26.0	26.0	8.1	8.1	28.8	28.8	95.7	95.8	6.6	6.6	11.7	6.6	7	6	90	89			<0.2	<0.2	1.3				
						6.8	0.4	1	26.0		8.1	8.1	28.7		95.8		6.6	6.6	11.7	6.6	8	8	89				<0.2	<0.2	1.2				
IM3	Cloudy	Moderate	08:58	7.9	Surface	1.0	0.4	21	26.1	26.1	8.1	8.1	28.4	28.5	94.9	94.9	6.6	6.6	3.8	6.6	5	5	86	88	818764	805572	<0.2	<0.2	1.3	1.3			
						1.0	0.4	21	26.1		8.1	8.1	28.5		94.8		6.5	6.5	3.8	6.5	6	6	88				<0.2	<0.2	1.3				
					Middle	4.0	0.4	11	26.1	26.1	8.1	8.1	29.0	29.0	94.5	94.5	6.5	6.5	7.4	6.5	4	4	89	87			<0.2	<0.2	1.3				
						4.0	0.4	11	26.1		8.1	8.1	29.1		94.5		6.5	6.5	7.4	6.5	5	5	87				<0.2	<0.2	1.3				
					Bottom	6.9	0.4	13	26.1	26.1	8.1	8.1	28.8	28.7	95.0	95.1	6.6	6.6	10.1	6.6	4	4	88	87			<0.2	<0.2	1.2				
						6.9	0.4	13	26.1		8.1	8.1	28.7		95.1		6.6	6.6	10.1	6.6	4	4	87				<0.2	<0.2	1.4				
IM4	Cloudy	Moderate	09:06	7.8	Surface	1.0	0.5	12	26.1	26.1	8.1	8.1	28.3	28.3	94.1	94.0	6.5	6.5	6.0	6.5	4	4	85	85	819735	804617	<0.2	<0.2	1.3	1.4			
						1.0	0.5	13	26.1		8.1	8.1	28.4		93.9		6.5	6.5	6.0	6.5	5	5	86				<0.2	<0.2	1.3				
					Middle	3.9	0.4	354	26.1	26.1	8.1	8.1	28.7	28.7	93.5	93.5	6.5	6.5	10.1	6.5	4	4	86	84			<0.2	<0.2	1.4				
						3.9	0.4	326	26.1		8.1	8.1	28.7		93.5		6.5	6.5	10.1	6.5	4	4	84				<0.2	<0.2	1.4				
					Bottom	6.8	0.4	12	26.1	26.1	8.1	8.1	28.6	28.5	94.1	94.1	6.5	6.5	12.6	6.5	8	8	90	92			<0.2	<0.2	1.4				
IM5	Cloudy	Moderate	09:13	7.7	Surface	1.0	0.4	37	26.0	26.0	8.1	8.1	28.4	28.4	94.2	94.2	6.5	6.5	13.3	6.5	16	18	87	86	820720	804855	<0.2	<0.2	1.5	1.4			
						1.0	0.4	39	26.0		8.1	8.1	28.4		94.1		6.5	6.5	13.1	6.5	15	14	91	90			<0.2	<0.2	1.4				
					Middle	3.9	0.3	20	26.0	26.0	8.1	8.1	28.4	28.4	93.9	93.9	6.5	6.5	10.7	6.5	14	14	90	91			<0.2	<0.2	1.4				
						3.9	0.3	20	26.0		8.1	8.1	28.4		93.9		6.5	6.5	10.7	6.5	14	14	91				<0.2	<0.2	1.4				
					Bottom	6.7	0.4	358	26.0	26.0	8.1	8.1	28.4	28.4	94.1	94.1	6.5	6.5	11.7	6.5	14	14	90	91			<0.2	<0.2	1.5				
						6.7	0.4	329	26.0		8.1	8.1	28.4		94.1		6.5	6.5	11.7	6.5	13	13	91				<0.2	<0.2	1.4				
IM6	Cloudy	Moderate	09:20	7.8	Surface	1.0	0.1	73	26.2	26.2	8.1	8.1	27.9	27.9	92.5	92.5	6.4	6.4	9.0	6.4	11	12	84	85	821053	805807	<0.2	<0.2	1.2	1.2			
						1.0	0.1	74	26.1		8.1	8.1	27.9		92.5		6.4	6.4	9.0	6.4	11	11	85				<0.2	<0.2	1.3				
					Middle	3.9	0.1	3	26.1	26.1	8.1	8.1	28.1	28.1	92.3	92.3	6.4	6.4	13.9	6.4	13	13	89	89			<0.2	<0.2	1.2				
						3.9	0.1	3	26.1		8.1	8.1	28.1		92.3		6.4	6.4	13.9	6.4	13	13	89				<0.2	<0.2	1.3				
					Bottom	6.8	0.1	46	26.1	26.1	8.1	8.1	28.1	28.1	92.3	92.3	6.4	6.4	14.0	6.4	14	12	90	90			<0.2	<0.2	1.2				
						6.8	0.1	49	26.1		8.1	8.1	28.1		92.3		6.4	6.4	14.0	6.4	14	12	90				<0.2	<0.2	1.2				
IM7	Cloudy	Moderate	09:27	8.1	Surface	1.0	0.2	26	26.2	26.2	8.1	8.1	27.3	27.3	90.3	90.3	6.3	6.3	4.6	6.3	4	4	83	84	821325	806852	<0.2	<0.2	1.2	1.2			
						1.0	0.2	27	26.2		8.1	8.1	27.3		90.2		6.3	6.3	4.7	6.3	5	4	84				<0.2	<0.2	1.1				
					Middle	4.1	0.1	26	26.1	26.1	8.1	8.1	27.5	27.5	90.0	90.0	6.2	6.2	5.4	6.2	4	4	86	87			<0.2	<0.2	1.3				
						4.1	0.1	26	26.1		8.1	8.1	27.5		90.0		6.2	6.2	5.8	6.2	4	5	87				<0.2	<0.2	1.2				
					Bottom	7.1	0.2	66	26.1	26.2	8.1	8.1	27.5	27.5	90.4	90.5	6.3	6.3	5.7	6.3	5	5	89	90			<0.2	<0.2	1.3				
						7.1	0.2	70	26.2		8.1	8.1	27.4		90.5		6.3	6.3	5.2	6.3	3	3	90				<0.2	<0.2	1.2				
IM8	Cloudy	Moderate	08:59	7.8	Surface	1.0	0.2	102	26.0	26.0	8.1	8.1	28.4	28.4	94.1	94.1	6.5	6.5	14.8	6.5	22	21	86	89	821820	808144	<0.2	<0.2	2.1	1.9			
						1.0	0.3	103	26.0		8.1	8.1	28.4		94.0																		

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

Water Quality Monitoring

Water Quality Monitoring Results on 27 October 18 during Mid-Flood Tide

Water Quality Monitoring Results on 17 October 2024 during mid-tide																															
Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)		
									Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	
IM9	Cloudy	Moderate	08:52	7.4	Surface	1.0	0.1	66	26.1	26.1	8.1	8.1	28.5	28.5	93.8	93.8	6.5	6.5	9.1	5	5	85	88	822114	808813	<0.2	<0.2	1.7	1.7		
						1.0	0.2	69	26.1		8.1		28.5		93.7		6.5	9.5			5		85								
					Middle	3.7	0.3	54	26.1	26.1	8.1	8.1	28.7	28.7	93.5	93.6	6.5	14.4	14.4	5	5	89	88								
						3.7	0.3	55	26.1		8.1		28.7		93.6		6.5	14.4			5		91								
					Bottom	6.4	0.2	37	26.1	26.1	8.1	8.1	28.7	28.7	93.8	93.9	6.5	13.0	13.0	5	5	88	88								
						6.4	0.2	37	26.1		8.1		28.7		93.9		6.5	13.0			6		88								
IM10	Cloudy	Moderate	08:44	7.7	Surface	1.0	0.2	59	26.1	26.1	8.1	8.1	28.3	28.4	94.9	94.9	6.6	7.0	7.0	10.8	5	5	85	88	822383	809781	<0.2	<0.2	1.7	1.7	
						1.0	0.2	64	26.1		8.1		28.4		94.8		6.6	7.3			6		86								
					Middle	3.9	0.3	8	26.0	26.0	8.1	8.1	29.0	29.0	94.5	94.5	-	13.9	13.9	5	5	90	90								
						3.9	0.4	8	26.0		8.1		29.0		94.5		-	13.8			5		90								
					Bottom	6.7	0.4	300	26.0	26.0	8.1	8.1	29.1	29.1	94.8	94.9	6.5	11.3	11.3	5	5	88	88								
						6.7	0.4	319	26.0		8.1		29.1		94.9		6.5	11.3			5		87								
IM11	Cloudy	Moderate	08:36	7.9	Surface	1.0	0.4	280	26.0	26.0	8.1	8.1	28.5	28.5	95.9	95.9	6.6	3.6	3.6	6.0	4	4	85	88	822033	811467	<0.2	<0.2	1.7	1.7	
						1.0	0.4	291	26.0		8.1		28.5		95.8		6.6	3.6			4		87								
					Middle	4.0	0.2	271	26.0	26.0	8.1	8.1	28.9	28.9	95.4	95.4	6.6	3.7	3.7	5	5	91	91								
						4.0	0.2	275	26.0		8.1		28.9		95.4		6.6	3.8			3		89								
					Bottom	6.9	0.1	234	26.0	26.0	8.1	8.1	29.1	29.1	95.5	95.6	6.6	10.7	10.7	4	4	88	88								
						6.9	0.1	244	26.0		8.1		29.1		95.6		6.6	10.7			4		88								
IM12	Cloudy	Moderate	08:29	8.8	Surface	1.0	0.3	259	26.0	26.0	8.1	8.1	28.7	28.7	94.8	94.8	6.6	5.3	5.3	5.4	8	8	90	90	821450	812067	<0.2	<0.2	1.7	1.7	
						1.0	0.3	275	26.0		8.1		28.7		94.8		6.5	5.3			8		90								
					Middle	4.4	0.2	266	26.0	26.0	8.1	8.1	28.7	28.7	94.9	95.0	6.6	5.5	5.5	6	7	89	89								
						4.4	0.2	267	26.0		8.1		28.7		95.0		6.6	5.5			6		89								
					Bottom	7.8	0.2	281	26.0	26.0	8.1	8.1	28.7	28.7	95.7	95.7	6.6	5.3	5.3	6	6	88	88								
						7.8	0.2	301	25.9		8.1		28.7		95.7		6.6	5.3			6		88								
SR1A	Cloudy	Moderate	08:16	7.3	Surface	1.0	-	-	25.9	25.9	8.1	8.1	28.8	28.8	94.1	94.0	6.5	5.9	5.9	7.0	6	6	-	-	820073	812583	-	-	-	-	
						1.0	-	-	25.9		8.1		28.8		93.9		6.5	6.3			7		-								
					Middle	3.7	-	-	26.0	26.0	8.1	8.1	28.8	28.8	93.3	93.3	-	7.1	7.1	5	5	6	6	-							-
						3.7	-	-	26.0		8.1		28.9		93.3		-	7.6			6		-								
					Bottom	6.3	-	-	26.0	26.0	8.1	8.1	28.9	28.9	93.9	94.0	6.5	7.8	7.8	7	7	7	7	-							-
						6.3	-	-	26.0		8.1		28.9		94.1		6.5	7.7			8		-								
SR2	Cloudy	Moderate	08:05	4.3	Surface	1.0	0.4	300	25.9	25.9	8.1	8.1	28.7	28.7	95.1	95.2	6.6	6.3	6.3	7.5	7	7	83	82	821477	814188	<0.2	<0.2	1.6	1.6	
						1.0	0.5	308	25.9		8.1		28.8		95.2		6.6	6.3			7		82								
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							-
						-	-	-	-		-		-		-		-			-		-									
					Bottom	3.3	0.2	320	25.8	25.8	8.1	8.1	28.8	28.8	95.6	95.5	6.6	8.8	8.8	7	7	8	8	-						-	
						3.3	0.2	333	25.8		8.1		28.9		95.4		6.6	8.7			7		87								
SR3	Cloudy	Moderate	09:10	8.3	Surface	1.0	0.2	80	26.1	26.1	8.1	8.1	28.0	28.0	92.6	92.6	6.4	11.2	11.2	14.2	14	14	-	-	822129	807557	-	-	-	-	
						1.0	0.2	84	26.1		8.1		28.0		92.6		6.4	11.3			13		-								
					Middle	4.2	0.4	66	26.1	26.1	8.1	8.1	28.1	28.1	92.6	92.6	6.4	12.2	12.2	5	5	13	13								
						4.2	0.4	71	26.1		8.1		28.1		92.6		6.4	12.3			13		-								
					Bottom	7.3	0.4	59	26.1	26.1	8.1	8.1	28.1	28.1	93.2	93.3	6.5	18.5	18.5	5	5	-	-								
						7.3	0.4	59	26.1		8.1		28.1		93.3		6.5	19.7			5		-								
SR4A	Cloudy	Moderate	08:04	8.9	Surface	1.0	0.4	86	25.9	25.9	8.1	8.1	28.8	28.8	93.9	93.9	6.5	7.5	7.5	7.9	9	9	-	-	817204	807813	-	-	-	-	
						1.0	0.5	90	25.9		8.1		28.8		93.8		6.5	7.7			9		-								
					Middle	4.5	0.4	79	26.0	26.0	8.1	8.1	28.8	28.8	93.2	93.2	-	8.4	8.4	10	10	-	-								
						4.5	0.4	80	26.0		8.1		28.8		93.1		-	8.1			10		-								
					Bottom	7.9	0.3	65	26.0	26.0	8.1	8.1	28.9	28.9	93.4	93.5	6.4	8.0	8.0	12	12	-	-								
						7.9	0.3	66	26.0		8.1		28.9		93.5		6.5	7.6			12		-								
SR5A	Cloudy	Moderate	07:46	4.6	Surface	1.0	0.1	60	26.1	26.1	8.1	8.1	29.1	29.1	92.2	92.2	6.3	2.2	2.2	2.3	4	4	-	-	816601	810709	-	-	-	-	
						1.0	0.1	63	26.1		8.1		29.2		92.2		6.3	2.3			4		-								
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							-
						-	-	-	-		-		-		-		-			-		-									
					Bottom	3.6	0.1	35	26.1	26.1	8.1	8.0	29.2	29.2	92.0	92.1	6.3	2.3	2.3	5	5	-	-								
						3.6	0.1	38	26.1		8.1		29.2		92.1		6.3	2.3			5		-								
SR6	Cloudy	Moderate	07:22	4.1	Surface	1.0	0.1	241	26.1	26.1	7.9	7.9	28.5	28.5	91.6	91.6	6.3	3.7	3.7	4	4	-	-	817921	814677	-	-	-	-		
						1.0	0.1	248	26.1		7.9		28.5		91.6		6.3	3.7			4		-								
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							-	-
						-	-	-	-		-		-		-		-			-		-									
					Bottom	3.1	0.1	238	26.1	26.1	7.9	7.9	28.5	28.5	91.8	91.9	6.3	3.7	3.7	4	4	-	-								
						3.1	0.1	251	26.1		7.9		28.5		91.9		6.3	3.6			4		-								
SR7	Cloudy	Moderate	07:11	16.2	Surface	1.0	0.1	176	26.1	26.1	7.9	7.9	28.4	28.4	92.0	92.0	6.3	3.5	3.5	5	5	-	-	823627	823730	-	-	-	-		
						1.0	0.1	176	26.1		7.9		28.4		92.0		6.3	3.4			4		-								
					Middle	8.1	0.2	33	26.1	26.1	7.8	7.8	28.4	28.4	92.1	92.1	6.4	4.3	4.3	5	5	-	-								
						8.1	0.2	33	26.1		7.8		28.4		92.1		6.4	4.6			5		-								
					Bottom	15.2	0.2	164	26.1	26.1	7.8	7.8	28.5	28.5	92.2	92.3	6.4	10.8	10.8	6	6	-	-								
						15.2	0.2	175	26.1		7.8		28.5		92.4		6.4	10.8			7		-								
SR8	Cloudy	Moderate	08:22	4.6	Surface	1.0	-	-	25.9	25.9	8.1	8.1	28.7	28.7	95.7	95.7	6.6	4.2	4.2	6.0	6	6	-	-	820507	811678	-	-	-	-	
						1.0	-	-	25.9		8.1		28.8		95.7		6.6	4.2			6		-								
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							-
						-	-	-	-		-		-		-		-			-		-									
					Bottom	3.6	-	-	25.9	25.9	8.1	8.1	30.0	30.1	97.0	97.0	6.7	8.1	8.1	6	6	-	-								
						3.6	-	-	25.9		8.1		30.2		97.0		6.7	8.0			6		-								

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

Water Quality Monitoring

Water Quality Monitoring Results on

30 October 18 during Mid-Ebb Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)									
									Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA						
C1	Sunny	Rough	16:35	8.6	Surface	1.0	0.2	64	25.3	25.3	8.2	8.2	28.8	28.8	98.0	98.0	6.8		3.1		5		85		89	815618	804252	<0.2	1.1	1.2								
						1.0	0.2	66	25.3	8.2	8.2	28.8	97.9	6.8	6.8	3.1		5		86																		
						4.3	0.2	76	25.4	25.4	8.2	8.2	31.1	31.1	97.5	97.5	6.7	6.9	6	6	89																	
					Middle	4.3	0.2	81	25.4	25.4	8.2	8.2	31.1	31.1	97.5	97.5	6.7	7.0	5	5	89																	
						7.6	0.2	52	25.4	25.4	8.2	8.2	31.4	31.4	96.6	96.6	6.6	11.5	6	6	92																	
						7.6	0.2	53	25.4	25.4	8.2	8.2	31.3	31.4	96.5	96.6	6.6	11.2	6	6	92																	
C2	Fine	Moderate	15:26	11.2	Surface	1.0	0.3	10	25.6	25.6	8.2	8.2	27.6	27.6	94.6	94.6	6.6		3.1		6		85		89	825674	806962	<0.2	1.5	1.7								
						1.0	0.3	10	25.6	25.6	8.2	8.2	27.6	27.6	94.6	94.6	6.6	3.2	5	5	85																	
						5.6	0.3	24	25.6	25.6	8.2	8.2	27.6	27.8	94.6	94.5	6.6	4.7	5	5	88																	
					Middle	5.6	0.3	25	25.6	25.6	8.2	8.2	28.0	28.0	94.3	94.5	6.6	4.9	5	5	89																	
						10.2	0.3	12	25.6	25.6	8.2	8.2	28.0	27.8	94.3	94.7	6.6	6.6	3	3	93																	
						10.2	0.3	12	25.6	25.6	8.2	8.2	28.0	28.0	95.0	95.0	6.6	5.2	4	4	93																	
C3	Fine	Moderate	16:20	9.4	Surface	1.0	0.1	2	25.9	25.9	8.2	8.2	31.0	31.0	91.3	91.3	6.2		5.5		5		84		89	822121	817826	<0.2	1.6	1.6								
						1.0	0.1	2	25.9	25.9	8.2	8.2	31.0	31.0	91.3	91.3	6.2	5.6	5	5	85																	
						4.7	0.2	285	25.9	25.9	8.2	8.2	31.2	31.2	91.4	91.4	6.2	6.3	4	4	90																	
					Middle	4.7	0.2	294	25.9	25.9	8.2	8.2	31.2	31.2	91.4	91.4	6.2	6.4	3	3	90																	
						8.4	0.2	288	25.9	25.9	8.2	8.2	31.3	31.3	92.8	92.9	6.3	7.6	3	3	93																	
						8.4	0.2	313	25.9	25.9	8.2	8.2	31.3	31.3	93.0	92.9	6.3	8.5	2	2	94																	
IM1	Sunny	Moderate	16:14	5.1	Surface	1.0	0.2	36	25.3	25.3	8.2	8.2	28.7	28.7	96.3	96.3	6.7		3.1		6		85		87	817965	807108	<0.2	1.3	1.2								
						1.0	0.2	36	25.3	25.3	8.2	8.2	28.7	28.7	96.3	96.3	6.7	3.2	7	7	85																	
						-	-	-	-	-	-	-	-	-	-	-	-	-	5.8	-	7	-	88															
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							-	-	-	-	-	-	-	-
						4.1	0.1	328	25.3	25.3	8.2	8.2	29.4	29.4	95.6	95.6	6.7	7.9	7	7	88																	
						4.1	0.1	345	25.3	25.3	8.2	8.2	29.4	29.4	95.6	95.6	6.7	8.8	7	7	88																	
IM2	Sunny	Moderate	16:07	7.6	Surface	1.0	0.3	46	25.3	25.3	8.2	8.2	29.0	29.0	94.8	94.8	6.6		3.5		8		85		88	818152	806163	<0.2	1.1	1.1								
						1.0	0.3	49	25.3	25.3	8.2	8.2	29.0	29.0	94.7	94.7	6.6	3.5	7	7	86																	
						3.8	0.2	57	25.1	25.1	8.2	8.2	29.4	29.4	92.9	93.0	6.5	6.0	6	6	88																	
					Middle	3.8	0.2	62	25.1	25.1	8.2	8.2	29.4	29.4	93.0	93.0	6.5	6.0	7	7	88																	
						6.6	0.2	39	25.2	25.2	8.2	8.2	29.6	29.6	93.8	93.8	6.5	7.1	3	3	91																	
						6.6	0.2	39	25.2	25.2	8.2	8.2	29.6	29.6	93.8	93.8	6.5	6.9	4	4	91																	
IM3	Sunny	Moderate	16:00	7.7	Surface	1.0	0.3	27	25.3	25.3	8.2	8.2	28.3	28.4	94.8	94.6	6.6		3.4		3		85		88	818784	805604	<0.2	1.2	1.2								
						1.0	0.3	28	25.3	25.3	8.2	8.2	28.5	28.4	94.4	94.6	6.6	3.6	2	2	85																	
						3.9	0.3	1	25.2	25.2	8.2	8.2	29.4	29.4	92.1	92.1	6.4	7.2	3	4	88																	
					Middle	3.9	0.3	1	25.2	25.2	8.2	8.2	29.5	29.6	92.0	92.1	6.4	7.5	4	4	88																	
						6.7	0.2	355	25.1	25.1	8.2	8.2	29.6	29.6	92.2	92.4	6.4	10.6	5	5	91																	
						6.7	0.2	327	25.1	25.1	8.2	8.2	29.6	29.6	92.5	92.5	6.5	10.1	4	4	91																	
IM4	Sunny	Moderate	15:51	7.9	Surface	1.0	0.4	359	25.3	25.3	8.2	8.2	28.6	28.6	95.6	95.6	6.7		3.3		7		85		88	819722	804607	<0.2	1.1	1.1								
						1.0	0.5	330	25.3	25.3	8.2	8.2	28.6	28.6	95.6	95.6	6.7	3.3	7	7	85																	
						4.0	0.3	16	25.1	25.1	8.2	8.2	29.6	29.6	91.5	91.5	6.4	12.3	5	5	89																	
					Middle	4.0	0.3	16	25.1	25.1	8.2	8.2	29.6	29.6	91.5	91.5	6.4	12.8	5	5	89																	
						6.9	0.3	356	25.1	25.1	8.2	8.2	29.6	29.6	91.9	92.0	6.4	14.7	4	4	91																	
						6.9	0.3	357	25.1	25.1	8.2	8.2	29.6	29.6	92.0	92.0	6.4	15.9	3	3	91																	
IM5	Sunny	Moderate	15:42	7.3	Surface	1.0	0.4	19	25.2	25.2	8.2	8.2	28.6	28.6	93.0	93.0	6.5		5.3		9		85		88	820714	804848	<0.2	1.2	1.2								
						1.0	0.4	20	25.2	25.2	8.2	8.2	28.6	28.6	93.0	93.0	6.5	5.6	10	10	85																	
						3.7	0.2	337	25.2	25.2	8.2	8.2	28.9	28.9	92.0	92.0	6.4	9.0	7	8	88																	
					Middle	3.7	0.2	347	25.2	25.2	8.2	8.2	28.9	28.9	92.0	92.0	6.4	9.5	6	6	88																	
						6.3	0.4	21	25.1	25.1	8.1	8.1	29.1	29.1	92.0	92.1	6.4	12.0	6	6	91																	
						6.3	0.5	21	25.1	25.1	8.1	8.1	29.0	29.0	92.2	92.1	6.4	12.8	7	7	91																	
IM6	Sunny	Moderate	15:34	7.2	Surface	1.0	0.2	89	25.3	25.3	8.2	8.2	28.3	28.3	90.4	90.4	6.3		4.6		11		84		87	821040	805850	<0.2	1.3	1.5								
						1.0	0.2	95	25.3	25.3	8.2	8.2	28.3	28.3	90.4	90.4	6.3	4.8	10	10	84																	
						3.6	0.2	25	25.3	25.3	8.2	8.2	28.5	28.5	89.7	89.7	6.3	5.7	8	8	87																	
					Middle	3.6	0.2	27	25.3	25.3	8.2	8.2	28.5	28.5	89.6	89.7	6.3	5.7	8	8	87																	
						6.2	0.1	11	25.2	25.2	8.2	8.2	28.7	28.7	89.1	89.2	6.2	6.6	6	6	90																	
						6.2	0.1	11	25.2	25.2	8.2	8.2	28.7	28.7	89.2	89.2	6.2	6.6	7	7	90																	
IM7	Sunny	Moderate	15:26	8.7	Surface	1.0	0.1	201	25.5	25.5	8.1	8.1	27.7	27.6	90.0	90.1	6.3		3.1		6		83		87	821335	806811	<0.2	1.6	1.6								
						1.0	0.1	210	25.5	25.5	8.1	8.1	27.7	27.6	90.1	90.1	6.3	3.3	6	7	83																	
						4.4	0.1	257	25.2	25.2	8.2	8.2	28.8	28.8	89.9	89.9	6.3	5.0	7	7	87																	
					Middle	4.4	0.1	273	25.2	25.2	8.2	8.2	28.8	28.8	89.9	89.9	6.3	5.1	6	6	87																	
						7.7	0.2	244	25.2	25.2	8.2	8.2	28.9	28.9	89.5	89.5	6.3	10.7	8	90	90																	
						7.7	0.2	262	25.2	25.2	8.2	8.2	28.9	28.9	89.5	89.5	6.3	10.6	8	90	90																	
IM8	Fine	Moderate	15:55	7.5	Surface	1.0	0.2	67	25.6	25.6	8.2	8.2	28.3	28.3	99.1	99.2	6.9		7.1		6		84		89	821823	808136	<0.2	1.6	1.6								
						1.0	0.2	67	25.6	25.6	8.2	8.2	28.4	28.4	99.2	99.2	6.9	7.3	6	6	85																	
						3.8	0.4	65	25.5	25.5	8.3	8.3	28.7	28.7	99.2	99.2	6.9	8.4	3	4	90																	
					Middle	3.8	0.4	69	25.5	25.5	8.3	8.3	28.8	28.8	99.2	99.2	6.9	8.5	3	3	90																	
						6.5	0.3	69	25.3	25.3	8.3	8.3	29.7	29.7	98.8	98.8	6.9	10.1	2	2	92																	
						6.5	0.3	70	25.3	25.3	8.3	8.3	29.7	29.7	98.8	98.8	6.9	10.2	3	3	93																	

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

Water Quality Monitoring

Water Quality Monitoring Results on

30 October 18 during Mid-Ebb Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)			
									Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA
IM9	Fine	Moderate	16:02	6.4	Surface	1.0	0.2	135	25.7	25.7	8.2	8.2	28.3	28.3	99.0	99.1	6.9	6.9	5.4	7.8	5	4	85	90	822106	808794	<0.2	<0.2	1.6	1.6		
						1.0	0.2	142	25.7		8.3		28.3		99.1		6.9	6.9	5.6		5		86				<0.2	<0.2	1.7	1.7		
					Middle	3.2	0.2	92	25.7	25.7	8.3	8.3	28.5	28.5	99.5	99.5	-	-	8.6		4	4	89	89			<0.2	<0.2	1.6	1.6		
						3.2	0.2	101	25.7		8.3		28.5		99.4		-	-	8.7		4		89				<0.2	<0.2	1.6	1.6		
					Bottom	5.4	0.2	102	25.8	25.7	8.3	8.3	28.7	28.7	99.3	99.3	6.9	6.9	9.1		3	3	94	94			<0.2	<0.2	1.5	1.5		
						5.4	0.2	109	25.7		8.3		28.7		99.2		6.9	6.9	9.3		3		95				<0.2	<0.2	1.6	1.6		
IM10	Fine	Moderate	16:09	8.3	Surface	1.0	0.1	109	25.6	25.6	8.3	8.3	29.5	29.5	97.6	97.6	6.8	6.8	5.4	7.0	4	6	85	89	822385	809773	<0.2	<0.2	1.6	1.6		
						1.0	0.1	119	25.6		8.3		29.5		97.6		6.8	6.8	5.6		4		86				<0.2	<0.2	1.5	1.5		
					Middle	4.2	0.1	60	25.6	25.6	8.3	8.3	29.5	29.5	97.0	97.0	6.7	6.7	6.9		6	6	88	90			<0.2	<0.2	1.7	1.7		
						4.2	0.1	63	25.6		8.3		29.5		97.0		6.7	6.7	6.9		6		90				<0.2	<0.2	1.6	1.6		
					Bottom	7.3	0.1	62	25.6	25.6	8.3	8.3	29.5	29.5	96.9	96.9	6.7	6.7	8.4		8	8	93	93			<0.2	<0.2	1.7	1.7		
						7.3	0.1	66	25.6		8.3		29.5		96.9		6.7	6.7	8.7		8		93				<0.2	<0.2	1.7	1.7		
IM11	Fine	Moderate	16:20	6.5	Surface	1.0	0.2	336	25.6	25.6	8.3	8.3	29.5	29.5	97.7	97.7	6.8	6.8	7.5	8.5	4	4	85	89	822036	811444	<0.2	<0.2	1.7	1.7		
						1.0	0.2	309	25.6		8.3		29.5		97.7		6.8	6.8	7.6		4		86				<0.2	<0.2	1.6	1.6		
					Middle	3.3	0.2	315	25.6	25.5	8.3	8.3	29.5	29.5	97.4	97.4	6.7	6.7	8.5		4	4	89	89			<0.2	<0.2	1.7	1.7		
						3.3	0.2	328	25.5		8.3		29.5		97.4		6.7	6.7	8.6		3	4	89				<0.2	<0.2	1.6	1.6		
					Bottom	5.5	0.1	297	25.5	25.5	8.3	8.3	29.5	29.5	97.6	97.6	6.8	6.8	9.3		4	4	93	93			<0.2	<0.2	1.7	1.7		
						5.5	0.1	308	25.5		8.3		29.5		97.6		6.8	6.8	9.6		4		94				<0.2	<0.2	1.6	1.6		
IM12	Fine	Moderate	16:28	7.3	Surface	1.0	0.2	255	25.5	25.5	8.3	8.3	29.4	29.4	97.2	97.2	6.7	6.7	4.1	5.3	6	6	85	90	821468	812063	<0.2	<0.2	1.7	1.7		
						1.0	0.2	267	25.5		8.3		29.4		97.2		6.7	6.7	4.2		6		86				<0.2	<0.2	1.6	1.6		
					Middle	3.7	0.1	255	25.6	25.6	8.3	8.3	29.5	29.5	96.9	96.9	-	-	5.1		6	6	89	90			<0.2	<0.2	1.6	1.6		
						3.7	0.1	255	25.6		8.3		29.5		96.9		-	-	5.3		6		91				<0.2	<0.2	1.7	1.7		
					Bottom	6.3	0.1	265	25.6	25.6	8.3	8.3	29.5	29.5	96.8	96.8	6.7	6.7	6.4		5	5	93	93			<0.2	<0.2	1.7	1.7		
						6.3	0.1	283	25.6		8.3		29.5		96.8		6.7	6.7	6.5		5		93				<0.2	<0.2	1.7	1.7		
SR1A	Fine	Moderate	16:59	4.2	Surface	1.0	-	-	25.6	25.6	8.3	8.3	29.5	29.5	100.3	100.3	6.9	6.9	4.7	5.5	4	7	-	-	820067	812591	-	-	-	-		
						1.0	-	-	25.6		8.3		29.5		100.3		6.9	6.9	4.8		5		-	-			-	-	-	-		
					Middle	2.1	-	-	25.6	25.6	8.2	8.2	29.5	29.5	99.5	99.5	-	-	5.6		6	6	-	-			-	-	-	-		
						2.1	-	-	25.6		8.2		29.5		99.5		-	-	5.7		6		-	-			-	-	-	-		
					Bottom	3.2	-	-	25.6	25.6	8.2	8.2	29.5	29.5	98.7	98.8	6.8	6.8	6.1		8	8	-	-			-	-	-	-		
						3.2	-	-	25.6		8.2		29.5		98.8		6.8	6.8	6.2		10		-	-			-	-	-	-		
SR2	Fine	Moderate	16:59	4.2	Surface	1.0	0.3	268	25.7	25.7	8.2	8.2	29.6	29.6	95.0	95.0	6.6	6.6	2.7	3.3	4	4	86	90	821457	814164	<0.2	<0.2	1.6	1.6		
						1.0	0.4	268	25.7		8.2		29.6		94.9		6.6	6.6	2.9		5		86				<0.2	<0.2	1.6	1.6		
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.3	-	4	-	-	-	-		<0.2	<0.2	1.6	1.6	
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-	-		<0.2	<0.2	1.5	1.5	
					Bottom	3.2	0.2	261	25.8	25.8	8.2	8.2	30.0	30.1	94.8	94.8	6.5	6.5	3.6		4	4	94	94			<0.2	<0.2	1.7	1.7		
						3.2	0.2	266	25.8		8.2		30.1		95.6		6.6	6.6	3.8		4		94				<0.2	<0.2	1.7	1.7		
SR3	Fine	Moderate	15:48	8.7	Surface	1.0	0.3	5	25.6	25.6	8.2	8.2	28.4	28.4	98.5	98.5	6.9	6.9	4.3	5.6	5	5	-	-	822147	807582	-	-	-	-		
						1.0	0.3	5	25.6		8.2		28.4		98.5		6.9	6.9	4.5		6		-	-			-	-	-	-		
					Middle	4.4	0.3	23	25.4	25.4	8.3	8.3	29.2	29.2	98.9	98.9	-	-	5.4		5	5	-	-			-	-	-	-		
						4.4	0.3	24	25.4		8.3		29.2		98.9		-	-	5.7		5		-	-			-	-	-	-		
					Bottom	7.7	0.2	6	25.3	25.3	8.3	8.3	29.7	29.7	98.4	98.4	6.8	6.8	6.6		5	5	-	-			-	-	-	-		
						7.7	0.2	6	25.3		8.3		29.7		98.4		6.8	6.8	6.8		5		-	-			-	-	-	-		
SR4A	Fine	Calm	16:55	9.4	Surface	1.0	0.2	43	25.4	25.4	8.2	8.2	28.7	28.7	97.1	97.1	6.8	6.8	4.1	3.9	5	6	-	-	817212	807819	-	-	-	-		
						1.0	0.2	45	25.4		8.2		28.7		97.0		6.8	6.8	4.2		6		-	-			-	-	-	-		
					Middle	4.7	0.2	33	25.3	25.3	8.2	8.2	29.3	29.3	96.6	96.7	6.7	6.7	3.6		6	6	-	-			-	-	-	-		
						4.7	0.2	35	25.3		8.2		29.3		96.7		6.7	6.7	3.6		7		-	-			-	-	-	-		
					Bottom	8.4	0.1	52	25.3	25.3	8.2	8.2	29.7	29.7	96.3	96.3	6.7	6.7	3.9		7	7	-	-			-	-	-	-		
						8.4	0.1	52	25.3		8.2		29.7		96.3		6.7	6.7	3.9		7		-	-			-	-	-	-		
SR5A	Fine	Calm	15:28	4.0	Surface	1.0	0.1	161	25.6	25.6	8.1	8.1	28.7	28.7	95.6	95.6	6.6	6.6	3.6	3.6	12	10	-	-	816586	810717	-	-	-	-		
						1.0	0.1	168	25.6		8.1		28.7		95.5		6.6	6.6	3.7		11		-	-			-	-	-	-		
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.6	-	-	-	-	-			-	-	-	-
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-
					Bottom	3.0	0.1	196	25.4	25.4	8.1	8.1	28.8	28.8	93.9	93.9	6.5	6.5	3.5		9	9	-	-			-	-	-	-	-	-
						3.0	0.1	215	25.4		8.1		28.8		93.9		6.5	6.5	3.5		9		-	-			-	-	-	-	-	-
SR6	Fine	Calm	15:48	4.7	Surface	1.0	0.2	343	25.7	25.7	8.1	8.1	28.5	28.5	95.1	95.0	6.6	6.6	5.1	5.5	5	5	-	-	817895	814678	-	-	-	-		
						1.0	0.2	316	25.7		8.1		28.5		94.9		6.6	6.6	5.4		4	4	-	-			-	-	-	-		
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.5	-	5	-	-	-			-	-	-	-
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-	-	-
					Bottom	3.7	0.1	5	25.6	25.6	8.1	8.1	28.5	28.5	94.6	94.6	6.6	6.6	5.9		5	5	-	-			-	-	-	-	-	-
						3.7	0.1	5	25.6		8.1		28.5		94.7		6.6	6.6	5.8		4		-	-			-	-	-	-	-	-
SR7	Fine	Moderate	16:45	14.6	Surface	1.0	0.1	338	25.9	25.9	8.2	8.2	31.3	31.3	91.6	91.6	6.2	6.2	4.4	5.5	3	5	-	-	823616	823737	-	-	-	-		
						1.0	0.1	311	25.9		8.2		31.3		91.6		6.2	6.2	4.6		4		-	-			-	-	-	-	-	-
					Middle	7.3	0.1	13	25.9	25.9	8.2	8.2	31.4	31.4	91.0	91.0	6.2	6.2	5.6		6	6	-	-			-	-	-	-	-	-
						7.3	0.1	14	25.9		8.2		31.4		91.0		6.2	6.2	5.8		6		-	-								

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

Water Quality Monitoring

Water Quality Monitoring Results on

30 October 18

during Mid-Flood Tide

Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)									
									Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value	DA	Value	DA	Value	DA		
C1	Sunny	Moderate	11:32	8.4	Surface	1.0	0.5	48	25.2	25.2	8.2	8.2	28.8	28.8	93.1	93.1	6.5		3.5		10		85		89	815639	804224	<0.2	1.1	1.3								
						1.0	0.5	51	25.2		8.2		28.8		93.0		6.5		3.8		10		85															
					Middle	4.2	0.4	59	25.2	25.2	8.2	8.2	29.4	29.4	91.5	91.5	6.4	6.5	7.6	8.4	8	8	89															
						7.4	0.5	12	25.2	25.2	8.2	8.2	30.0	30.0	90.8	90.9	6.3	6.3	14.0		7		92															
					Bottom	7.4	0.5	12	25.2	25.2	8.2	8.2	30.0	30.0	90.9	90.9	6.3	6.3	13.7		6		92															
						1.0	0.3	55	25.6	25.6	8.2	8.2	27.5	27.5	95.7	95.7	6.7	6.7	2.0		5		85															
C2	Fine	Rough	13:01	11.1	Surface	1.0	0.4	57	25.6	25.6	8.2	8.2	27.5	27.5	95.7	95.7	6.7		2.4		5		86		90	825691	806944	<0.2	1.2	1.3								
						5.6	0.3	43	25.6	25.6	8.2	8.2	28.0	28.0	95.0	95.1	6.6	6.7	4.3	4.7	4	5	90															
					Middle	5.6	0.4	47	25.6	25.6	8.2	8.2	28.0	28.0	95.1	95.1	6.6		4.4		5		90															
						10.1	0.4	300	25.6	25.6	8.2	8.2	28.0	28.0	96.0	96.3	6.7	6.7	7.6		4		94															
					Bottom	10.1	0.4	305	25.6	25.6	8.2	8.2	28.0	28.0	96.5	96.3	6.7	6.7	7.7		4		94															
						1.0	0.5	268	25.7	25.7	8.2	8.2	29.8	29.8	92.7	92.7	6.4	6.4	4.3		5		84															
C3	Fine	Rough	11:09	11.0	Surface	1.0	0.6	283	25.7	25.7	8.2	8.2	29.8	29.8	92.6	92.6	6.4	6.4	4.4		6		85		89	822116	817780	<0.2	1.4	1.4								
						5.5	0.6	278	25.8	25.8	8.2	8.2	30.3	30.3	92.1	92.1	6.3	6.3	5.1	5.3	4	5	89															
					Middle	5.5	0.6	296	25.8	25.8	8.2	8.2	30.3	30.3	92.1	92.1	6.3		5.2		5		90															
						10.0	0.4	281	25.9	25.9	8.2	8.2	30.5	30.5	94.5	95.1	6.5	6.6	6.4		4		92															
					Bottom	10.0	0.4	307	25.9	25.9	8.2	8.2	30.5	30.5	95.7	95.1	6.6	6.6	6.5		4		93															
						1.0	0.1	41	25.2	25.2	8.2	8.2	29.0	29.0	94.2	94.2	6.6		3.3		9		86															
IM1	Sunny	Moderate	11:50	5.0	Surface	1.0	0.1	44	25.2	25.2	8.2	8.2	29.0	29.0	94.2	94.2	6.6		3.3		9		86		88	817946	807111	<0.2	1.2	1.3								
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							-							
					Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							-	-	-	-	-	-	-	-
						4.0	0.2	6	25.2	25.2	8.2	8.2	29.5	29.5	93.4	93.4	6.5	6.5	3.6		8		89															
					Bottom	4.0	0.2	6	25.2	25.2	8.2	8.2	29.5	29.5	93.4	93.4	6.5	6.5	3.6		8		89															
						1.0	0.2	41	25.2	25.2	8.2	8.2	28.5	28.5	92.7	92.7	6.5		4.4		7		85															
IM2	Sunny	Moderate	11:58	7.3	Surface	1.0	0.2	44	25.2	25.2	8.2	8.2	28.5	28.5	92.6	92.6	6.5	6.5	4.6		6		85		88	818150	806164	<0.2	1.4	1.3								
						3.7	0.3	12	25.2	25.2	8.2	8.2	29.2	29.2	91.9	91.9	6.4	6.4	6.8	7.7	7	7	88															
					Middle	3.7	0.4	12	25.2	25.2	8.2	8.2	29.2	29.2	91.8	91.8	6.4		7.0		7		88															
						6.3	0.3	347	25.1	25.1	8.2	8.2	29.3	29.3	91.3	91.3	6.4	6.4	11.9		6		91															
					Bottom	6.3	0.3	319	25.1	25.1	8.2	8.2	29.3	29.3	91.3	91.3	6.4	6.4	11.6		6		91															
						1.0	0.2	11	25.2	25.2	8.1	8.1	28.6	28.7	90.9	90.8	6.4		4.5		8		85															
IM3	Sunny	Moderate	12:05	7.5	Surface	1.0	0.2	11	25.2	25.2	8.1	8.1	28.7	28.7	90.6	90.6	6.3		4.6		8		85		88	818760	805587	<0.2	1.3	1.4								
						3.8	0.3	1	25.1	25.1	8.1	8.1	29.2	29.2	89.9	89.9	6.3	6.3	14.4	12.8	8	7	88															
					Middle	3.8	0.3	1	25.1	25.1	8.1	8.1	29.2	29.2	89.9	89.9	6.3		14.3		7		87															
						6.5	0.4	356	25.1	25.1	8.1	8.1	29.3	29.3	90.3	90.4	6.3	6.3	19.4		7		91															
					Bottom	6.5	0.4	328	25.1	25.1	8.1	8.1	29.3	29.3	90.4	90.4	6.3	6.3	19.8		6		91															
						1.0	0.4	353	25.2	25.2	8.2	8.2	28.8	28.9	91.5	91.4	6.4		4.2		8		85															
IM4	Sunny	Moderate	12:14	7.7	Surface	1.0	0.4	357	25.2	25.2	8.2	8.2	28.9	28.9	91.2	91.2	6.4	6.4	4.3		8		86		88	819711	804602	<0.2	1.4	1.3								
						3.9	0.3	356	25.1	25.1	8.1	8.1	29.3	29.3	90.2	90.2	6.3		13.7	12.8	7	7	88															
					Middle	3.9	0.3	328	25.1	25.1	8.1	8.1	29.3	29.3	90.2	90.2	6.3		13.4		7		88															
						6.7	0.4	3	25.1	25.1	8.1	8.1	29.3	29.3	90.6	90.7	6.3	6.3	20.4		6		91															
					Bottom	6.7	0.4	3	25.1	25.1	8.1	8.1	29.3	29.3	90.8	90.7	6.3	6.3	20.5		5		91															
						1.0	0.4	16	25.2	25.2	8.1	8.1	28.5	28.5	90.5	90.5	6.3		7.3		9		85															
IM5	Sunny	Moderate	12:22	6.8	Surface	1.0	0.4	17	25.2	25.2	8.1	8.1	28.5	28.5	90.4	90.4	6.3	6.3	7.3		9		85		88	820755	804849	<0.2	1.2	1.3								
						3.4	0.5	354	25.1	25.1	8.1	8.1	28.7	28.7	89.7	89.7	6.3	6.3	14.4	13.4	11	11	87															
					Middle	3.4	0.5	326	25.1	25.1	8.1	8.1	28.7	28.7	89.7	89.7	6.3		14.9		11		88															
						5.8	0.4	8	25.1	25.1	8.1	8.1	28.7	28.7	89.8	89.9	6.3	6.3	18.1		14		90															
					Bottom	5.8	0.4	8	25.1	25.1	8.1	8.1	28.7	28.7	89.9	89.9	6.3	6.3	18.3		14		90															
						1.0	0.3	358	25.3	25.3	8.2	8.2	28.5	28.5	90.1	90.1	6.3		5.3		7		85															
IM6	Sunny	Moderate	12:28	7.1	Surface	1.0	0.3	329	25.3	25.3	8.2	8.2	28.5	28.7	90.1	90.1	6.3	6.3	5.3		8		85		88	821043	805833	<0.2	1.4	1.4								
						3.8	0.2	343	25.2	25.2	8.2	8.2	28.7	28.7	89.4	89.4	6.3		7.1		9		86															
					Middle	3.6	0.2	348	25.2	25.2	8.2	8.2	28.7	28.7	89.4	89.4	6.3		7.1		10		88															
						6.1	0.1	8	25.1	25.1	8.2	8.2	28.7	28.7	89.6	89.7	6.3	6.3	6.8		14		90															
					Bottom	6.1	0.1	8	25.1	25.1	8.2	8.2	28.7	28.7	89.8	89.7	6.3	6.3	6.9		12		91															
						1.0	0.2	242	25.5	25.5	8.1	8.1	27.6	27.6	89.7	89.8	6.3		3.4		5		83															
IM7	Sunny	Moderate	12:35	8.5	Surface	1.0	0.2	248	25.5	25.5	8.1	8.1	27.7	27.6	89.8	89.8	6.3	6.3	3.7		4		83		87	821336	806830	<0.2	1.7	1.6								
						4.3	0.1	208	25.2	25.2	8.2	8.2	28.6	28.6	89.7	89.7	6.3		6.2		5		87															
					Middle	4.3	0.1	218	25.2	25.2	8.2	8.2	28.6	28.6	89.7	89.7	6.3		6.2		6		87															
						7.5	0.0	192	25.2	25.2	8.2	8.2	29.0	29.0	89.7	89.7	6.3	6.3	7.1		8		90															
					Bottom	7.5	0.0	207	25.2	25.2	8.2	8.2	29.0	29.0	89.7	89.7	6.3	6.3	7.0		8		90															
						1.0	0.2	95	25.6	25.6	8.2	8.2	28.1	28.1	97.9	98.0	6.8		4.1		6		86															
IM8	Fine	Rough	12:35	7.5	Surface	1.0	0.2	100	25.6	25.6	8.2	8.2	28.1	28.1	98.1	98.1	6.8	6.8	4.3		7		86		90	821820	808133	<0.2	1.3	1.4								
						3.8	0.3	74	25.6	25.6	8.2	8.2	28.4	28.4	98.8	98.8	6.8		5.4		6		90															
					Middle	3.8	0.3	74	25.6	25.6	8.2	8.2	28.4	28.4	98.8	98.8	6.8		5.7		6		90															
						6.5	0.3	49	25.5	25.5	8.2	8.2	28.9	28.9	100.1	100.2	7.0	7.0	6.6		5		94															
					Bottom	6.5	0.3	49	25.5	25.5	8.2	8.2	28.9	28.9	100.2	100.2	7.0	7.0	6.7		5		94															
						1.0	0.2	100	25.6	25.6	8.2	8.2	28.1	28.1	98.1	98.1	6.8		4.3		7		86															

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

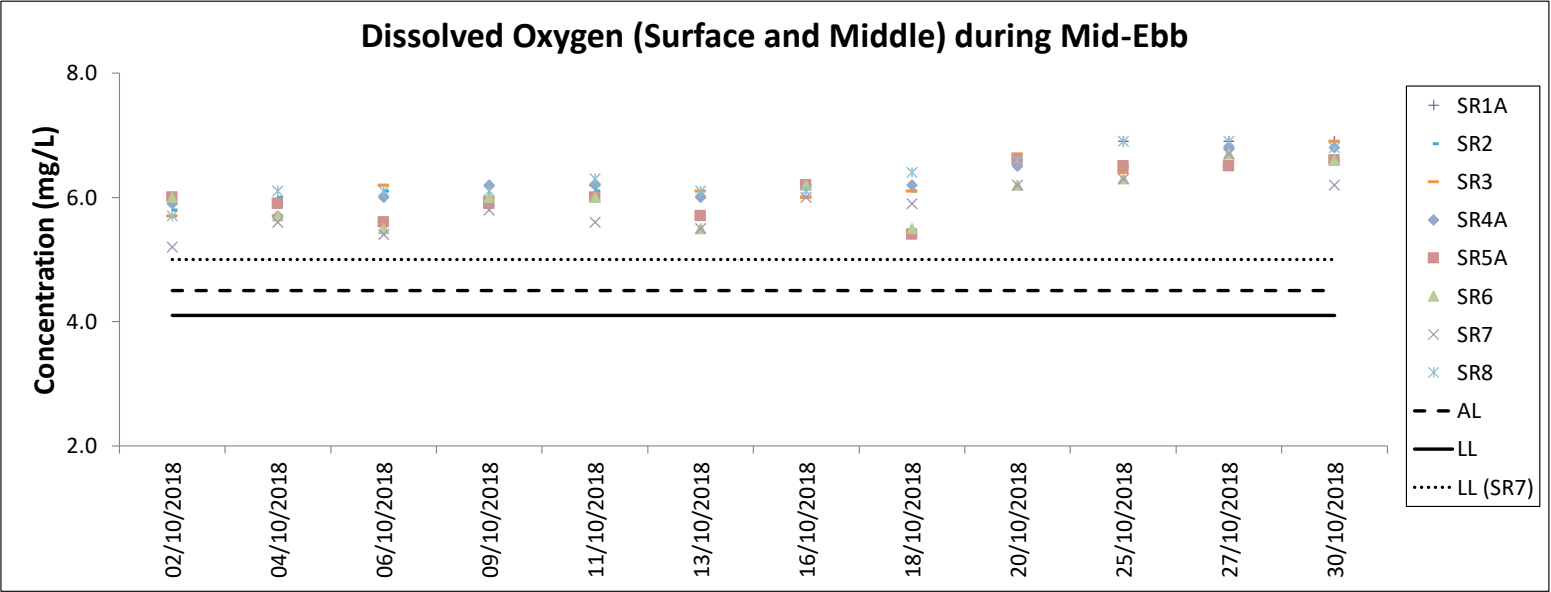
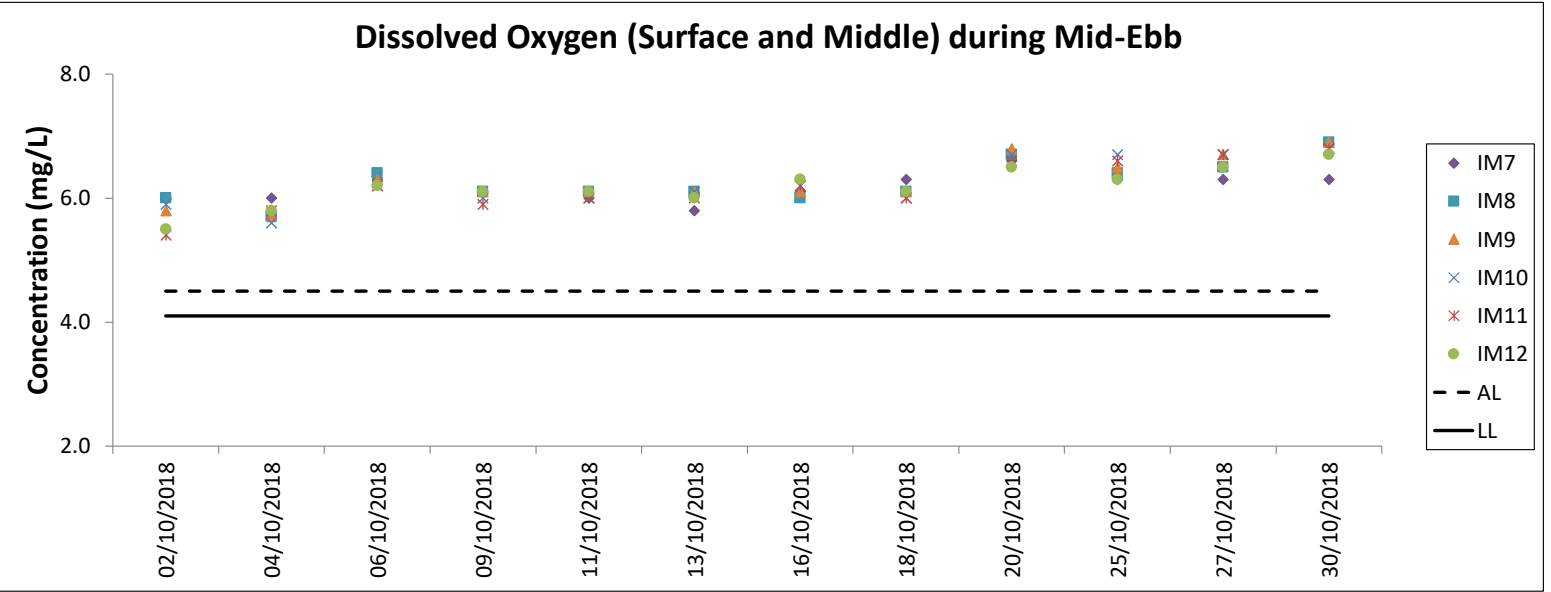
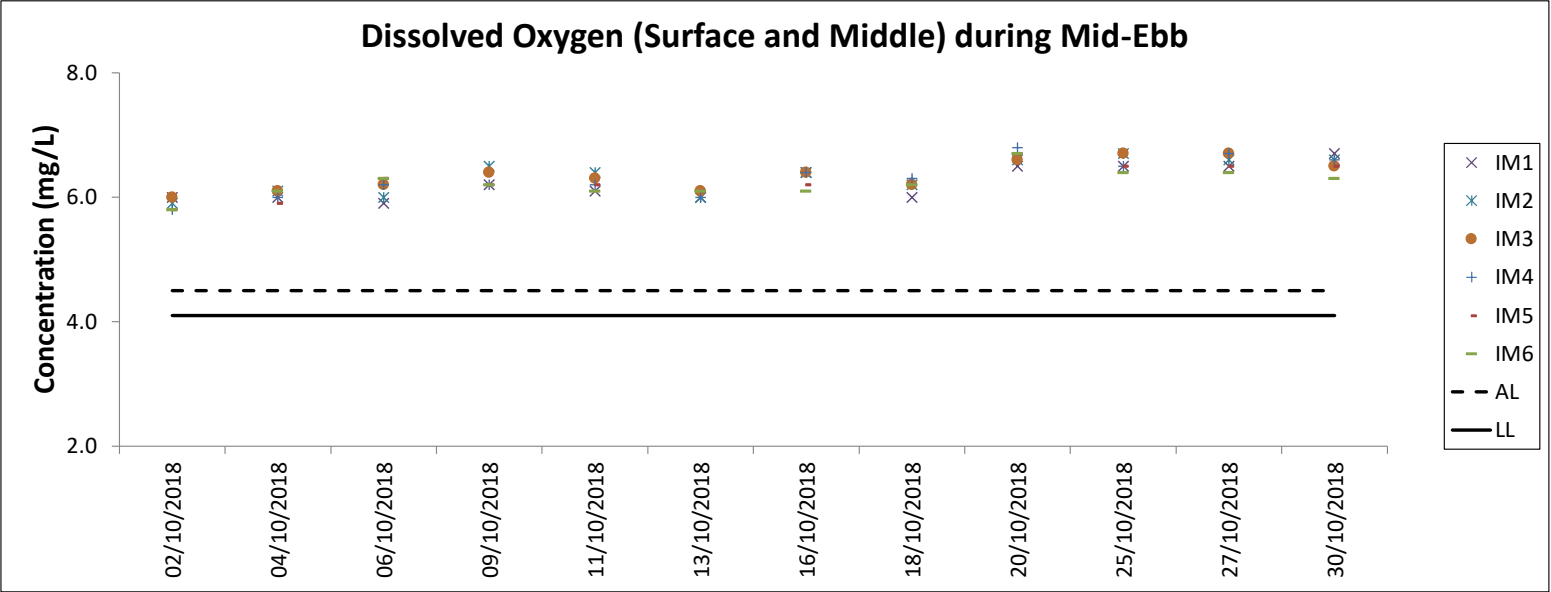
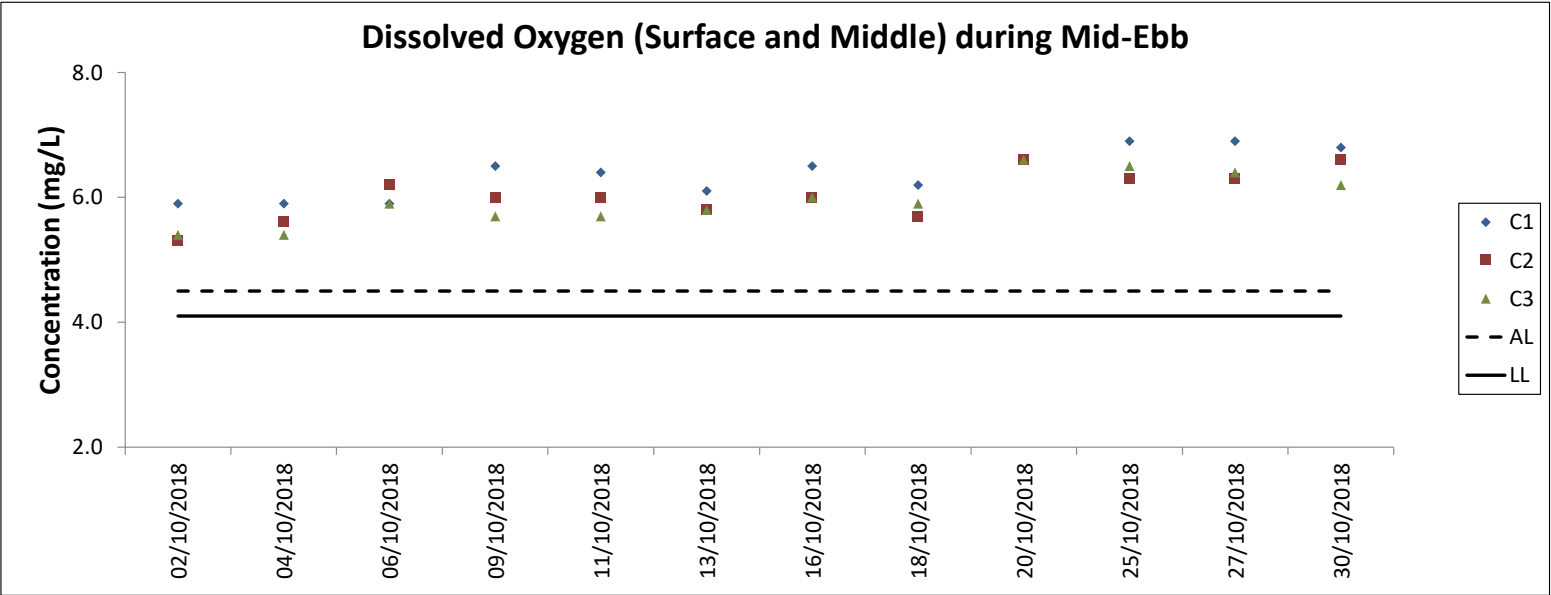
Water Quality Monitoring

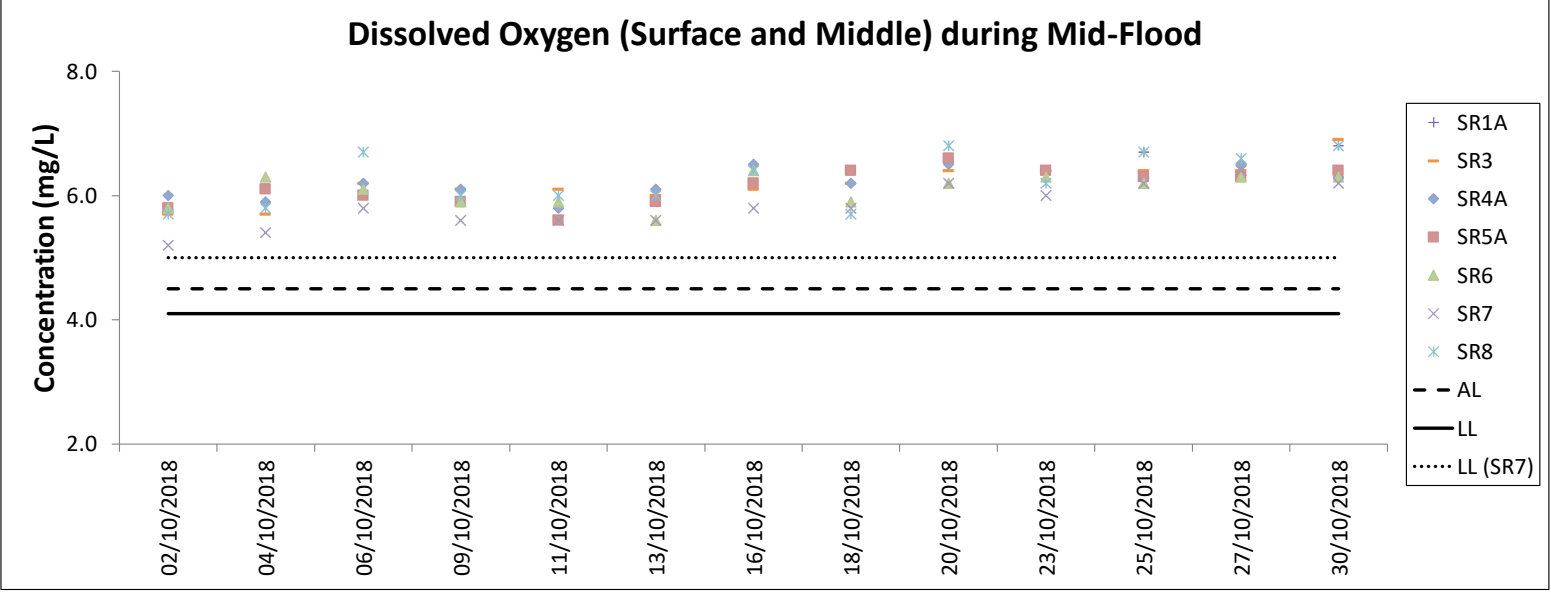
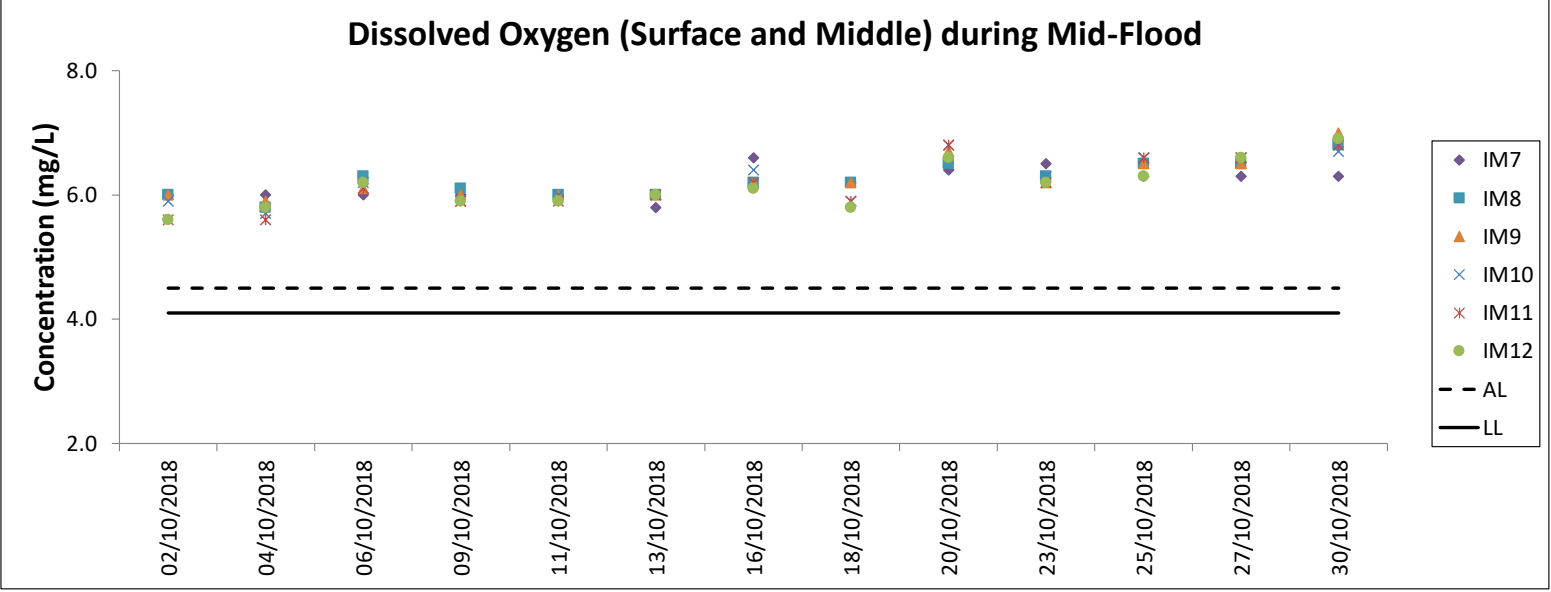
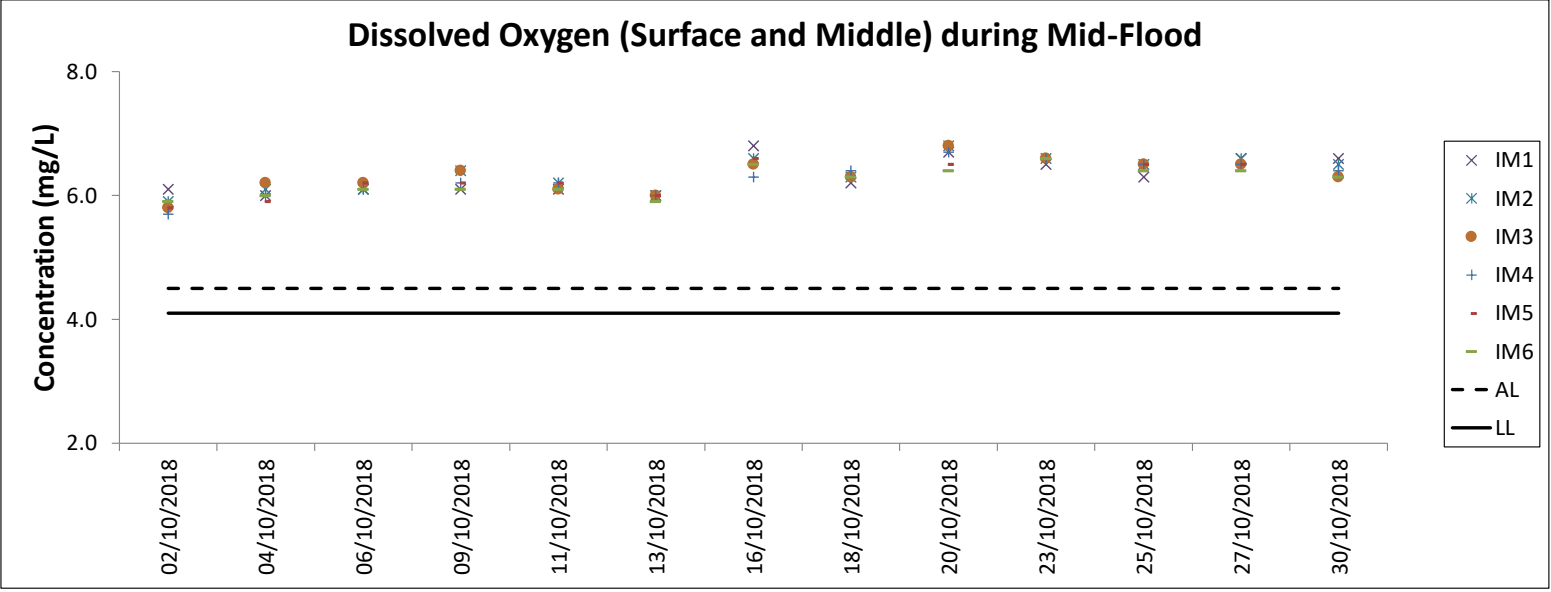
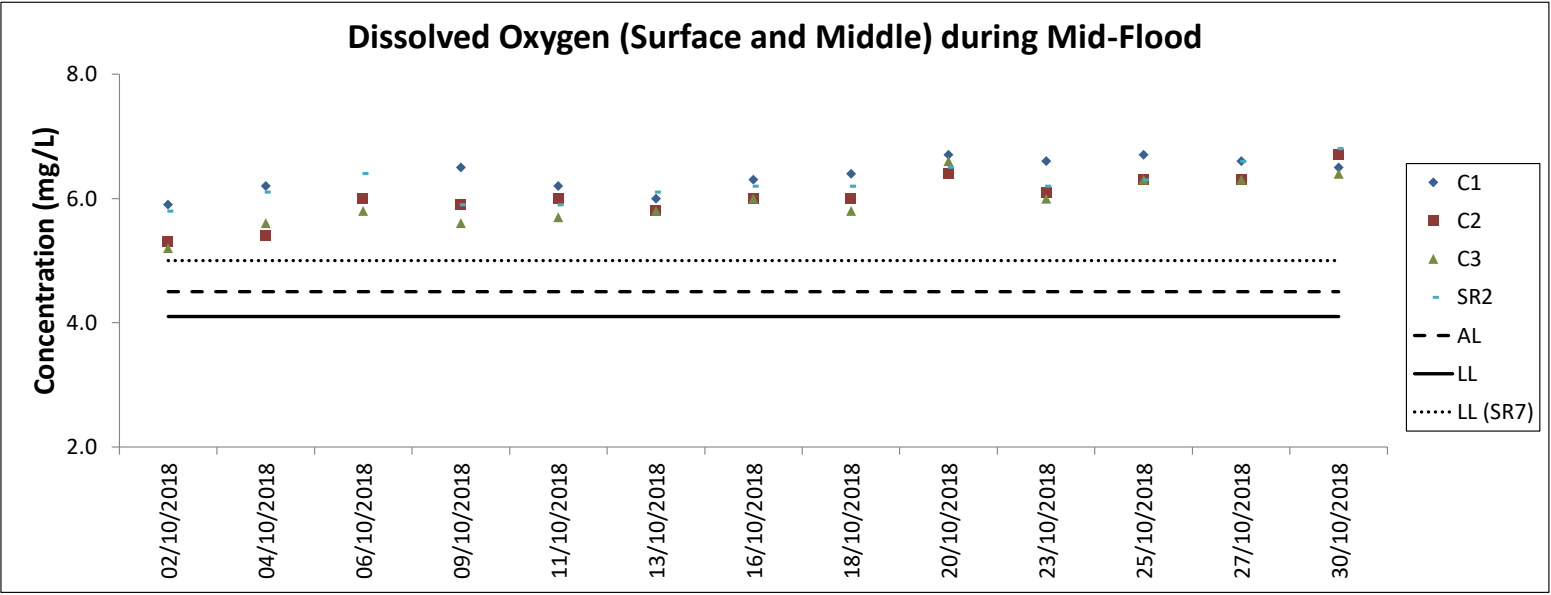
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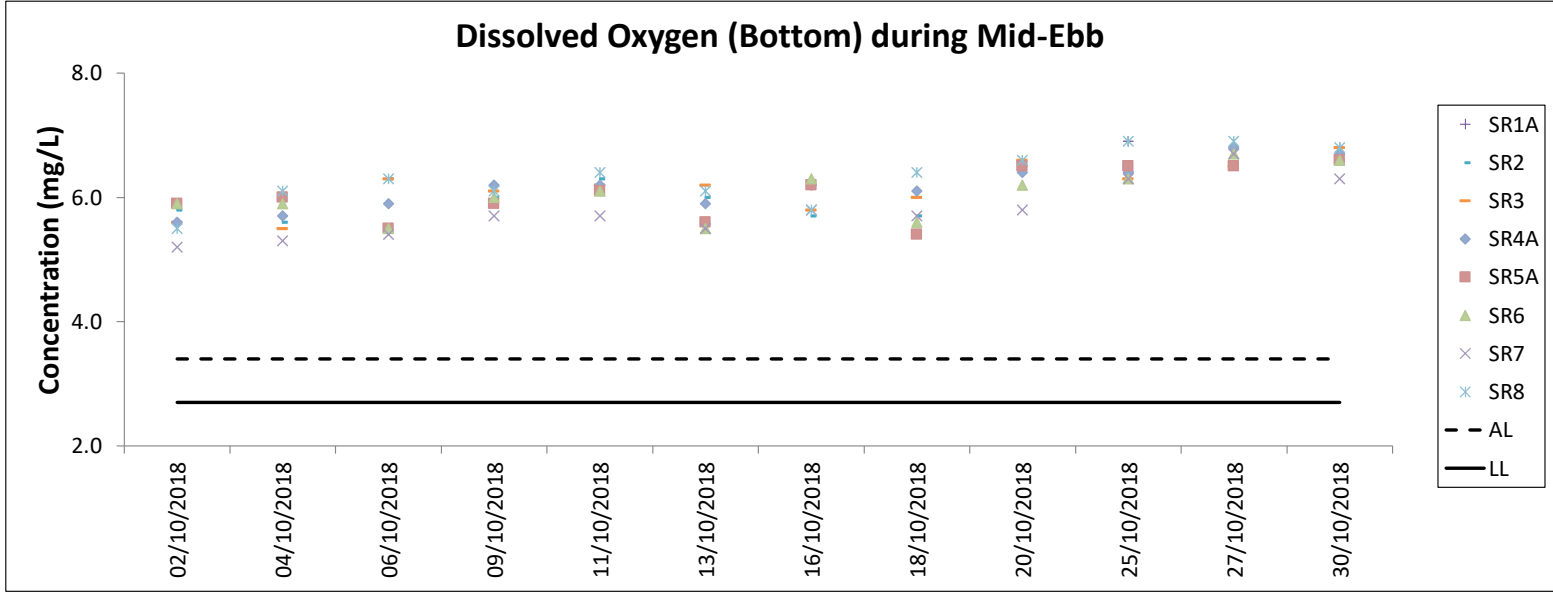
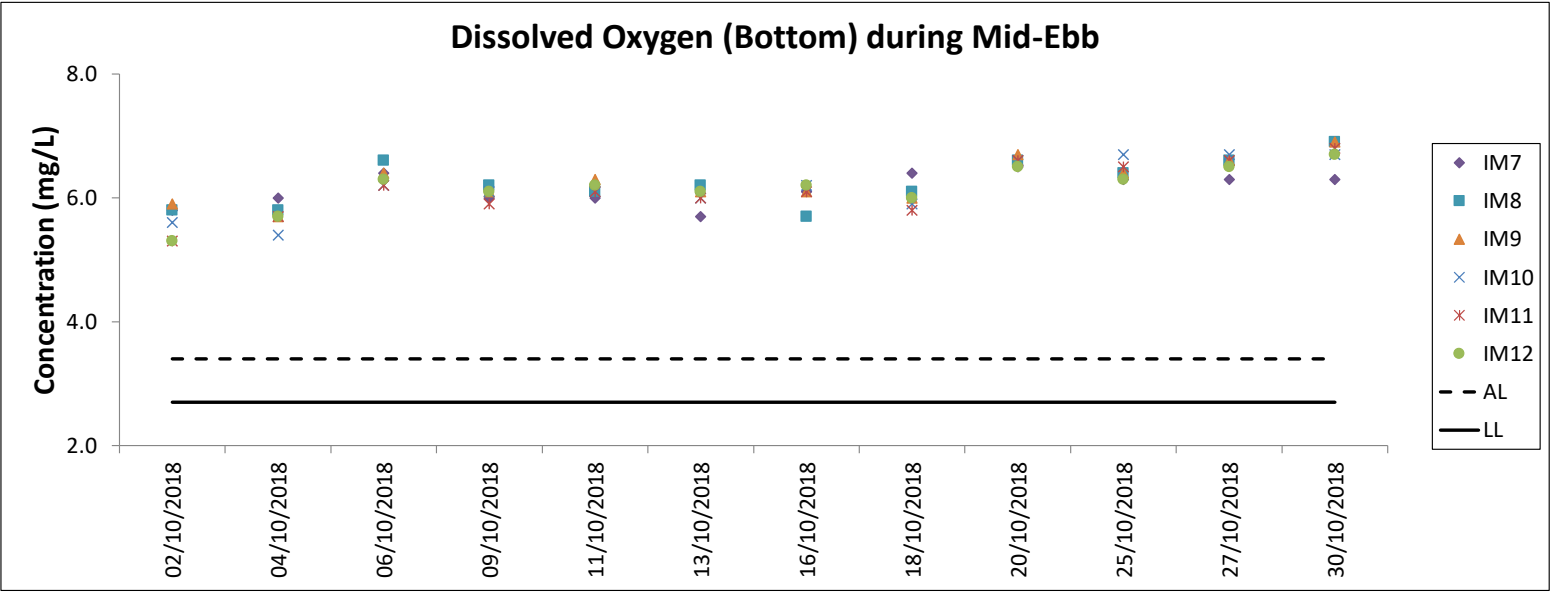
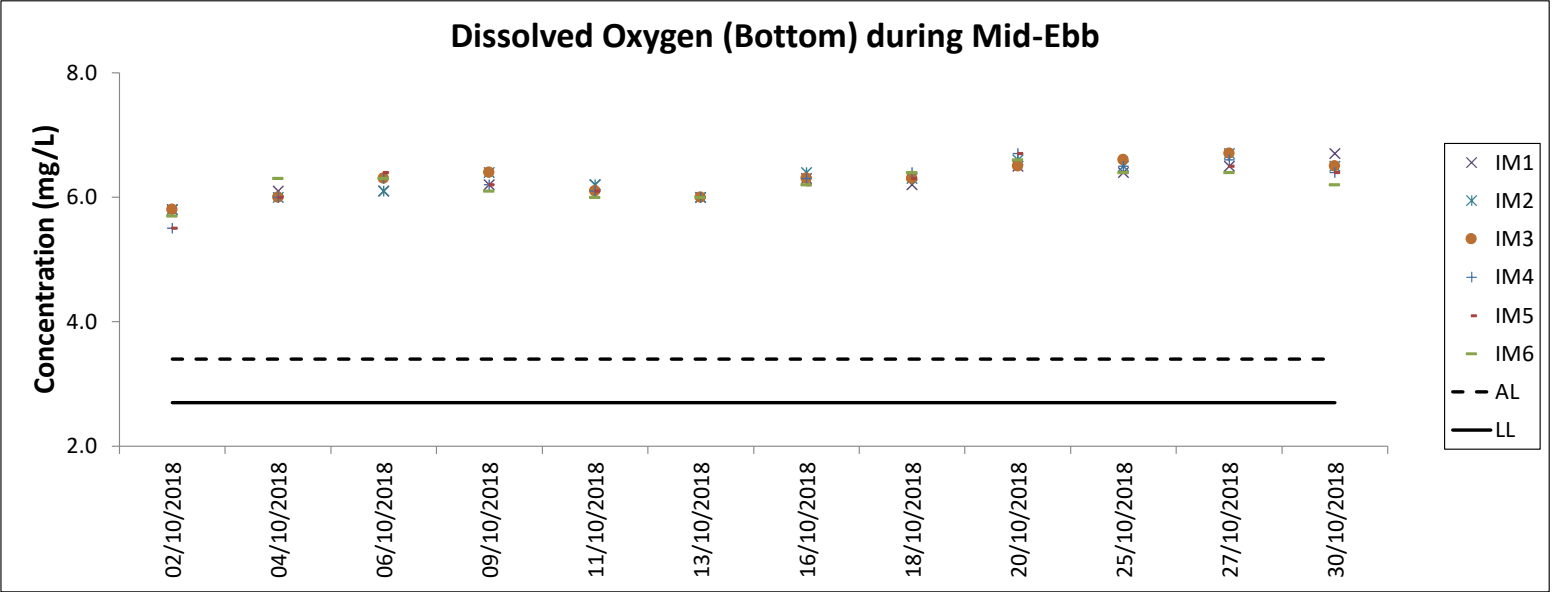
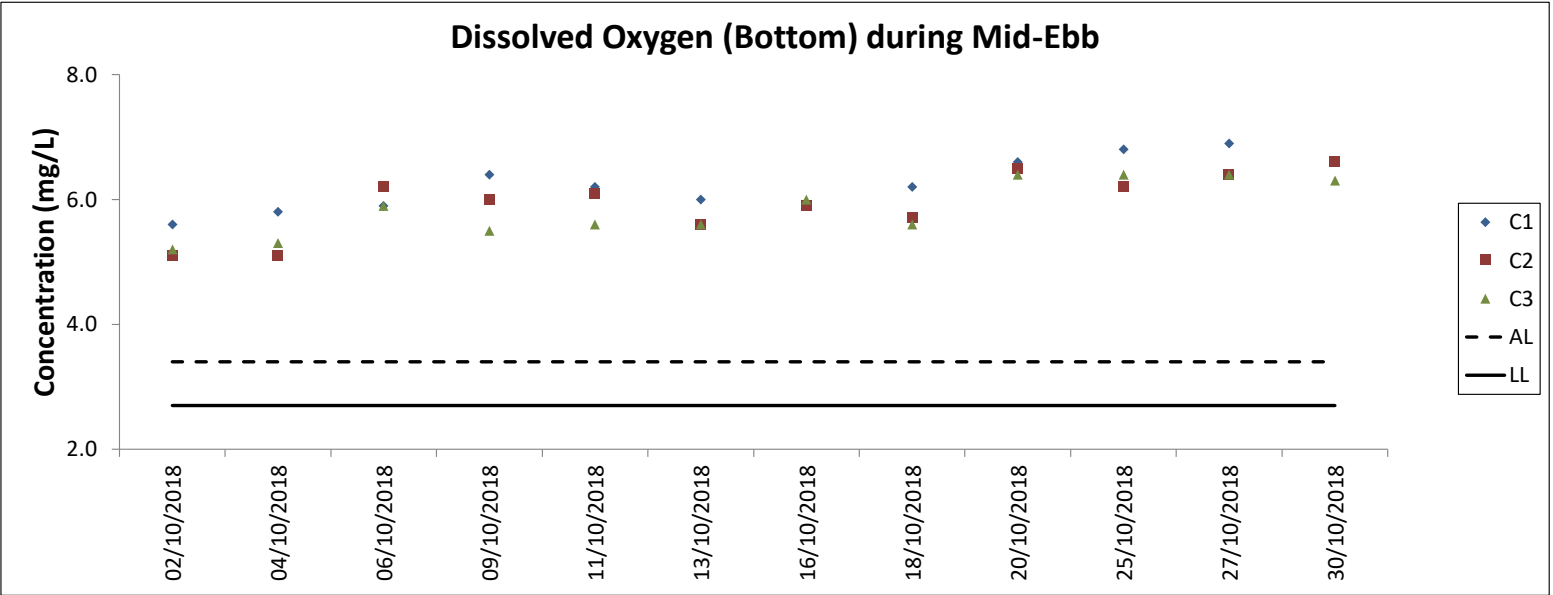
30 October 18

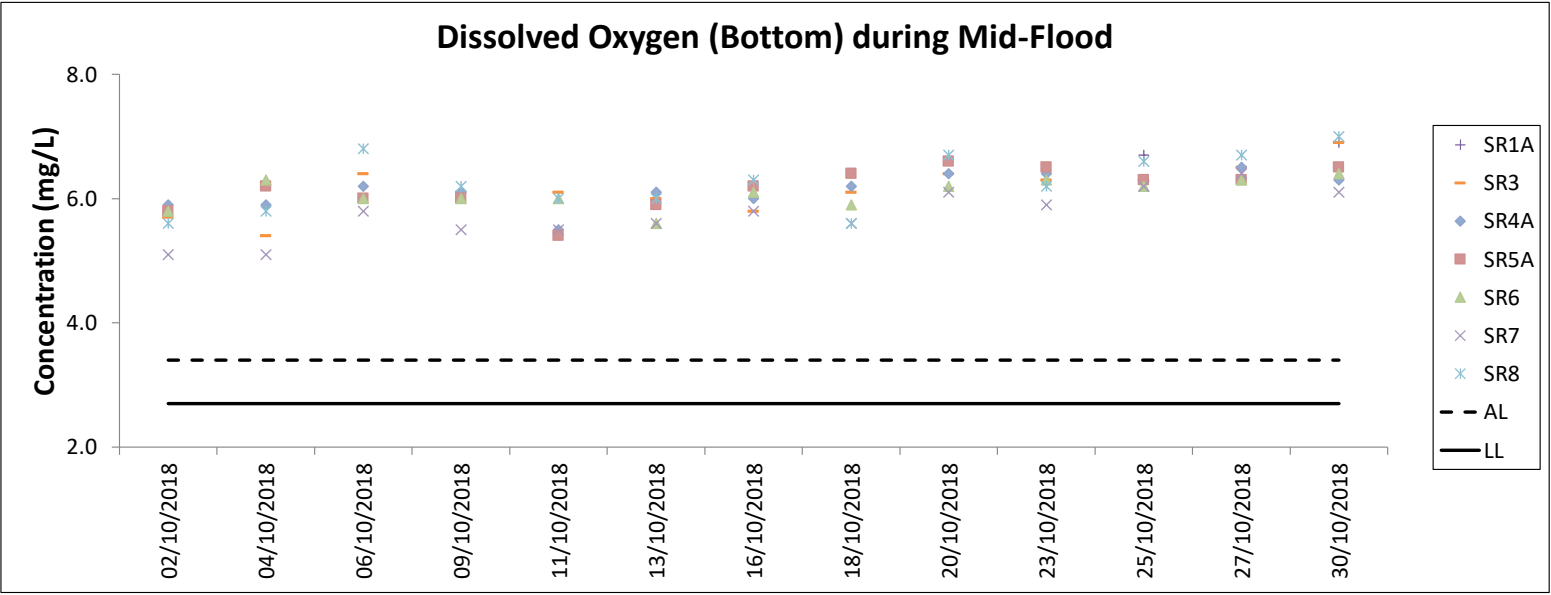
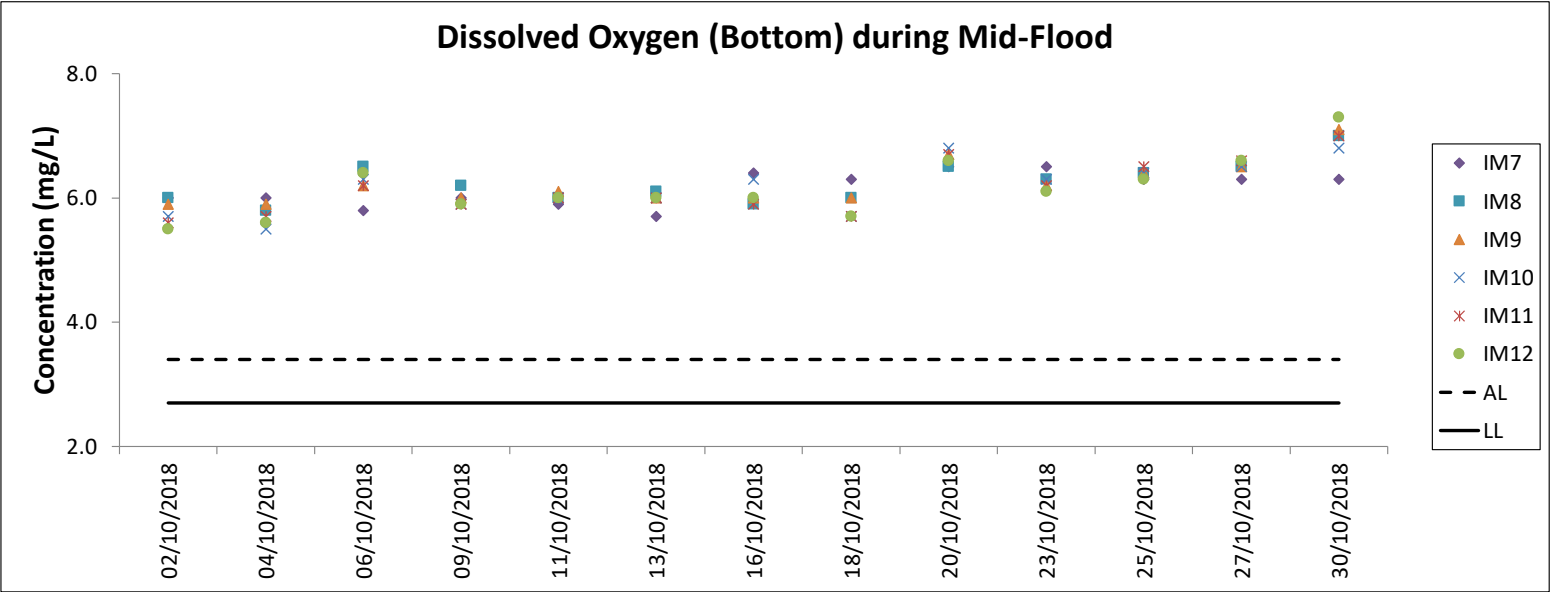
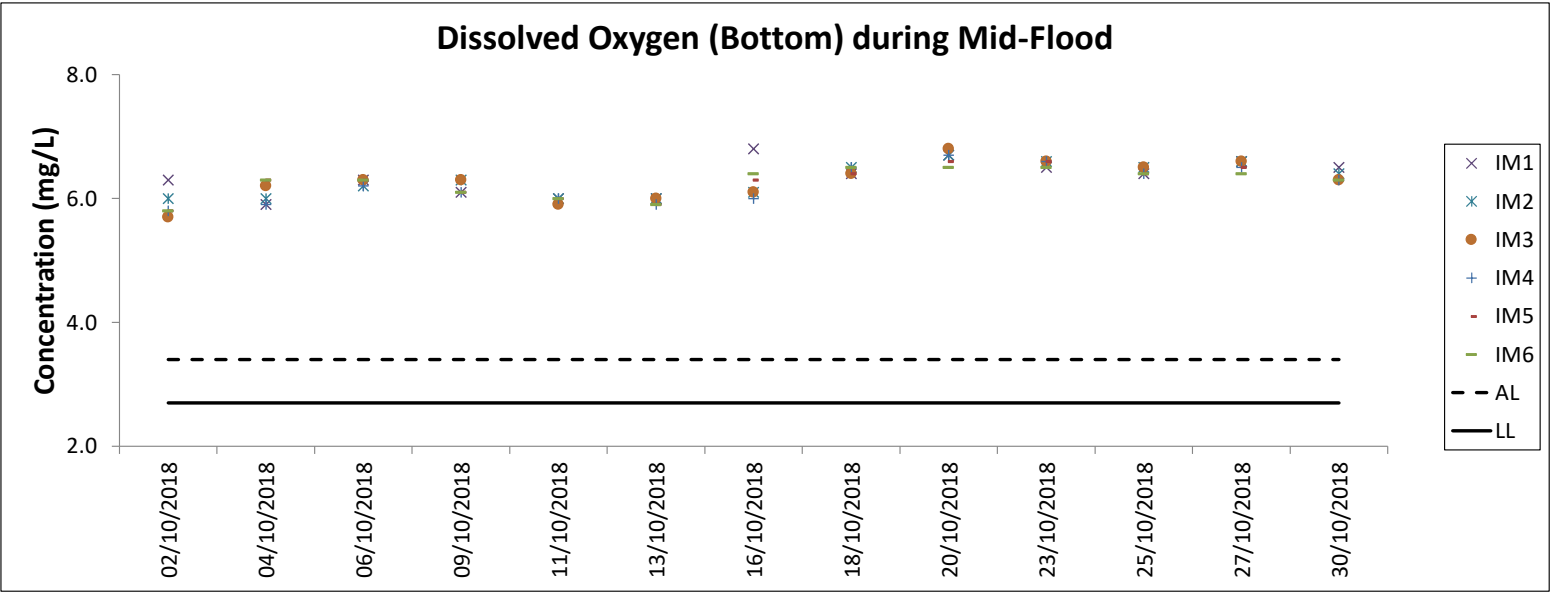
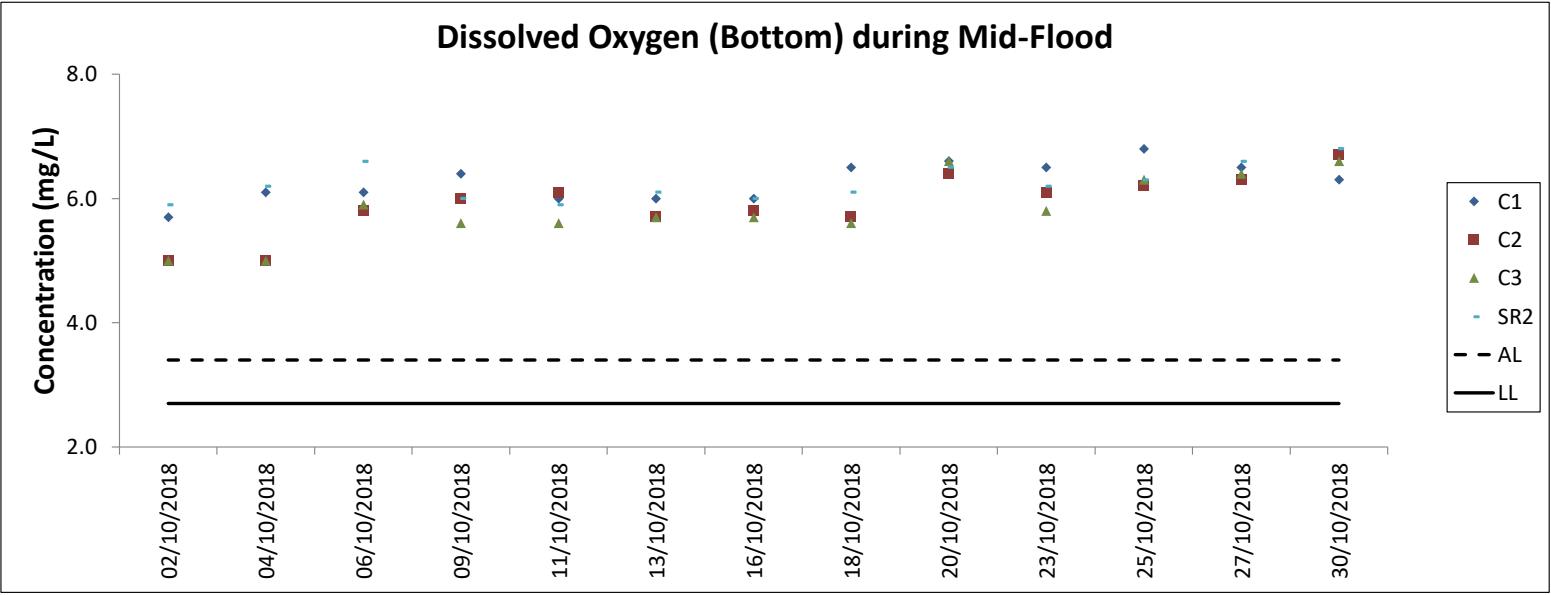
during Mid-Flood Tide

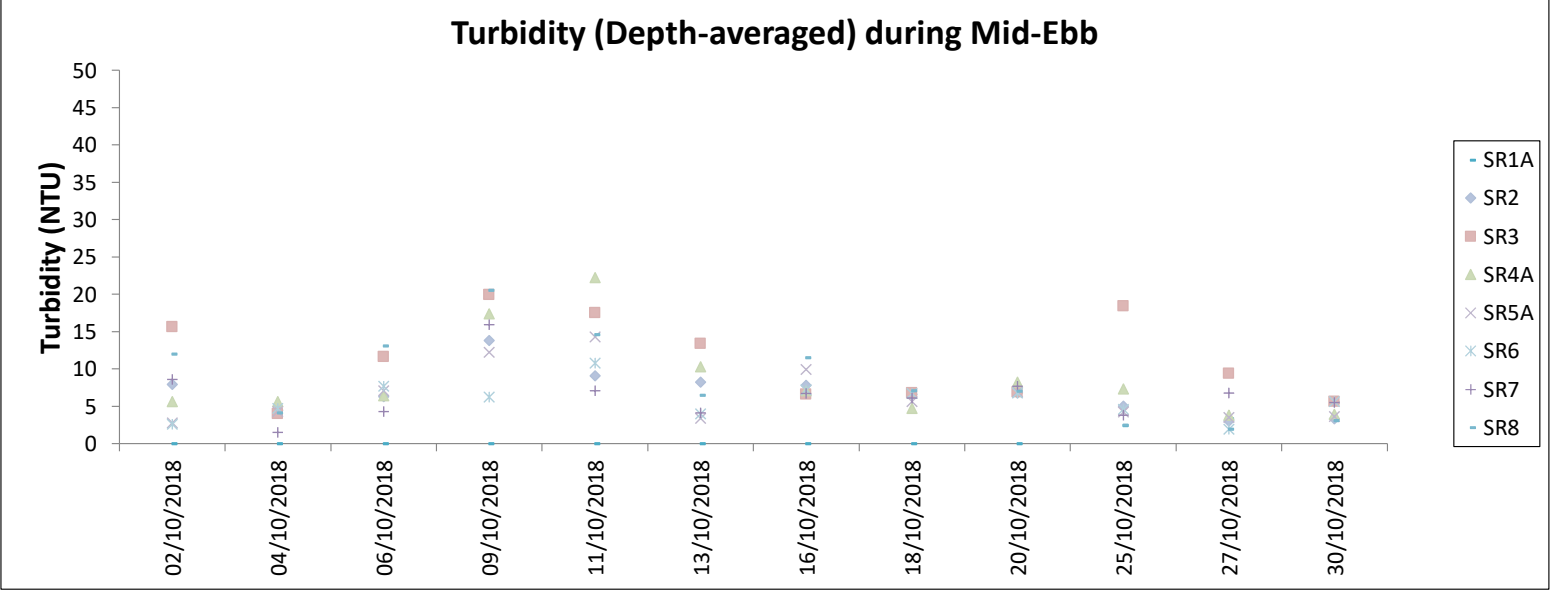
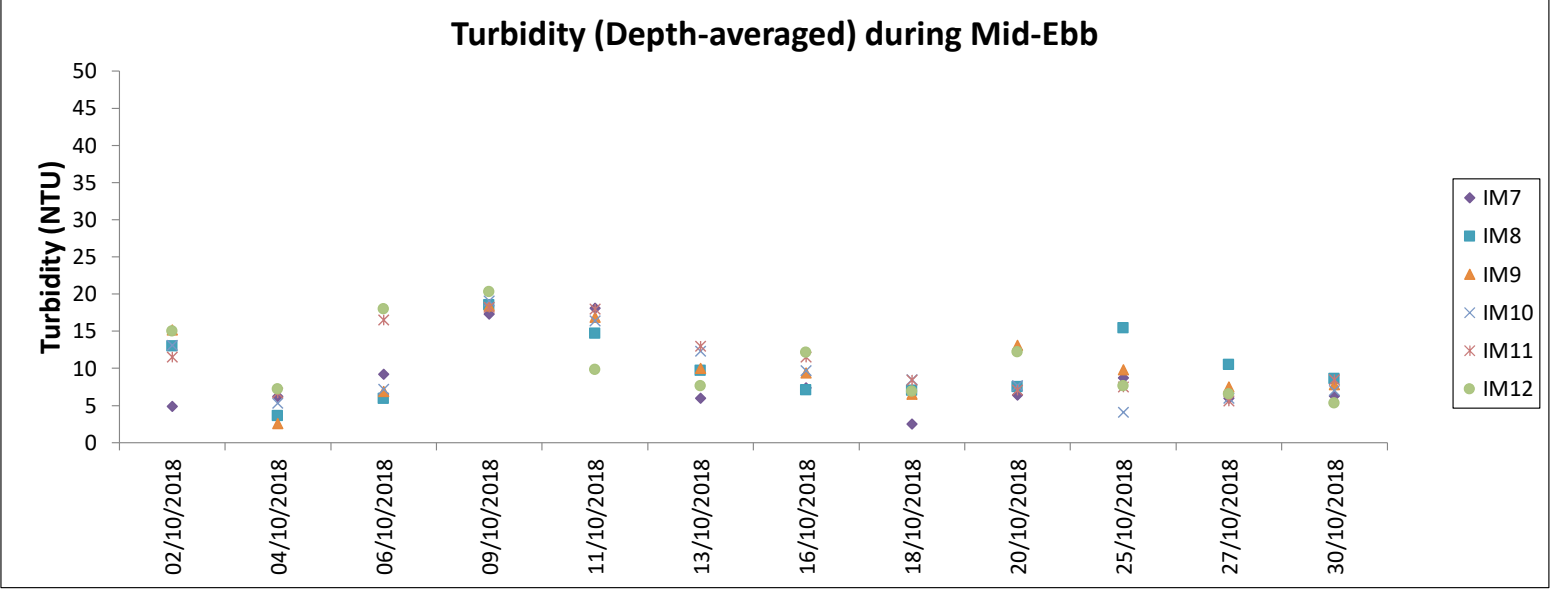
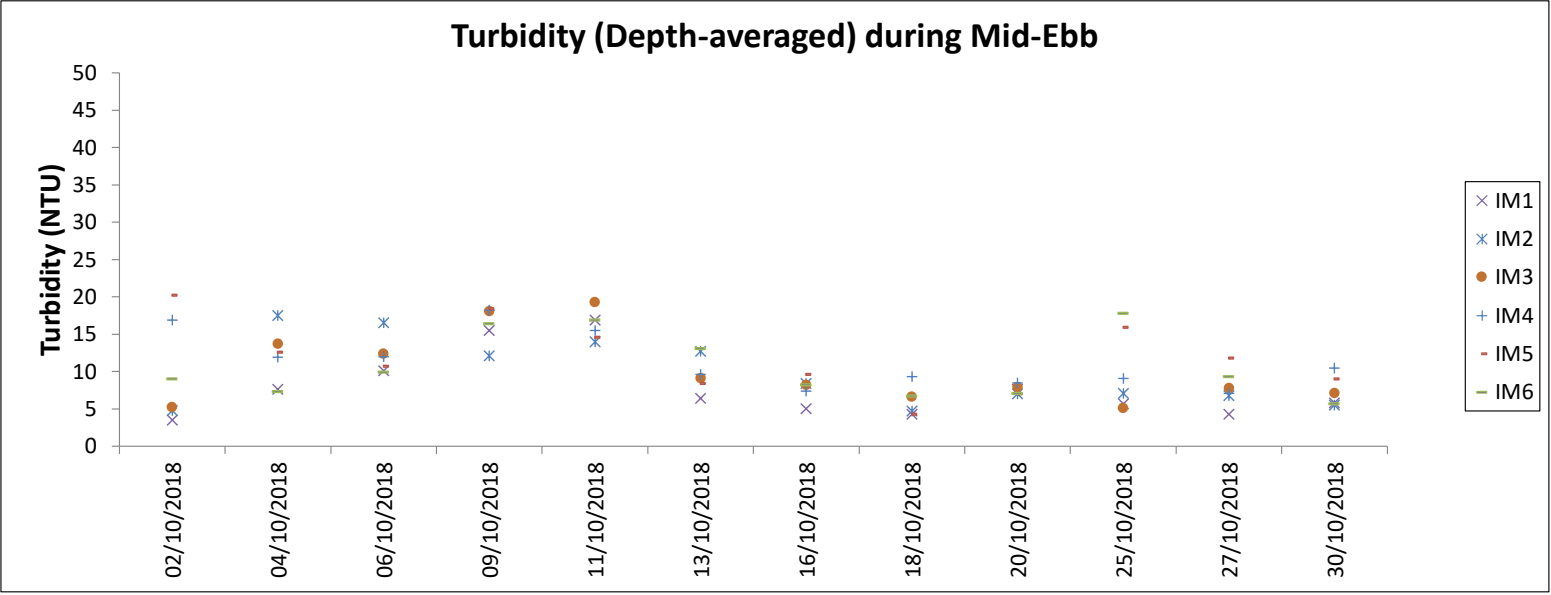
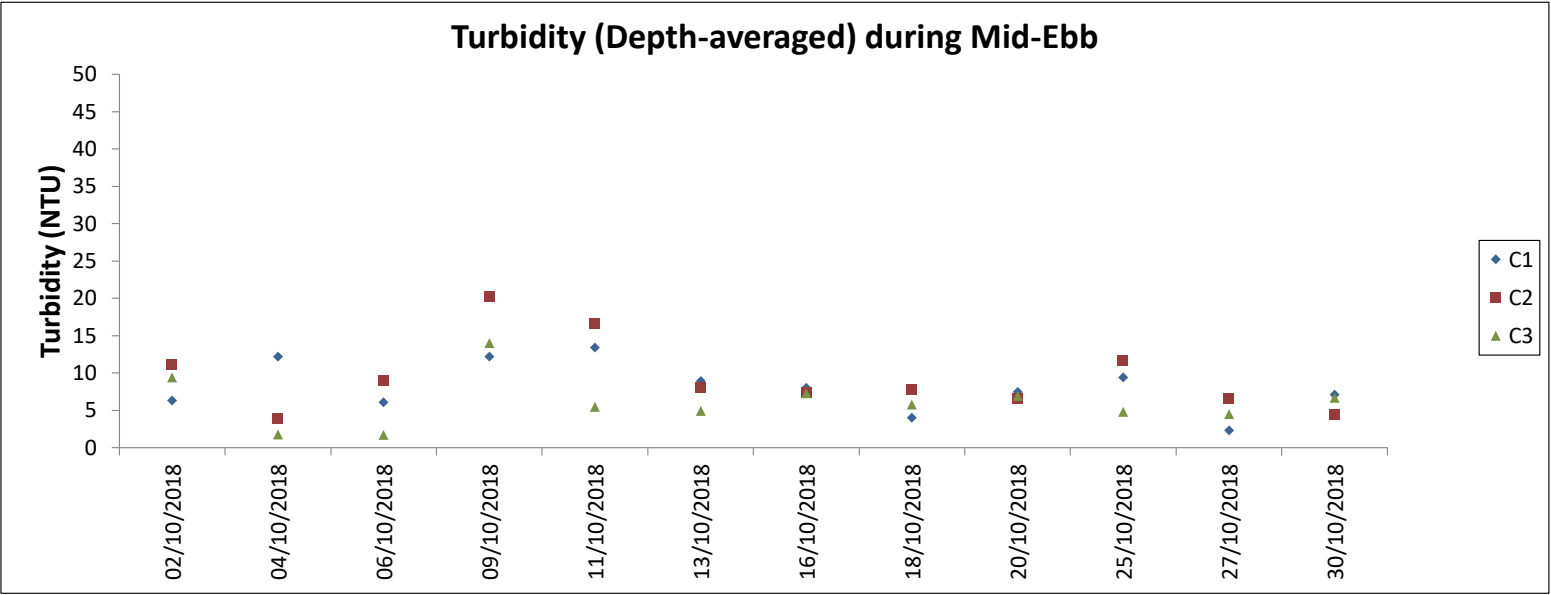
Monitoring Station	Weather Condition	Sea Condition	Sampling Time	Water Depth (m)	Sampling Depth (m)		Current Speed (m/s)	Current Direction	Water Temperature (°C)		pH		Salinity (ppt)		DO Saturation (%)		Dissolved Oxygen		Turbidity (NTU)		Suspended Solids (mg/L)		Total Alkalinity (ppm)		Coordinate HK Grid (Northing)	Coordinate HK Grid (Easting)	Chromium (µg/L)		Nickel (µg/L)		
									Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	Value	DA	Value	DA			Value	DA	Value	DA	Value
IM9	Fine	Rough	12:28	8.1	Surface	1.0	0.2	45	25.7	25.7	8.2	8.2	28.3	28.3	99.1	99.1	6.9	3.6	7	85								<0.2	1.3		
						Middle	1.0	0.3	45	25.7		8.2		28.3		99.1		3.7		8	86	89								<0.2	1.4
							4.1	0.3	28	25.7	25.7	8.3	8.3	28.5	28.5	100.3	100.4	7.0	5.6	7	88	89	822074	808797				<0.2	1.4		
					Bottom	4.1	0.3	28	25.7		8.3		28.5		100.5		7.0	5.6	7	93										<0.2	1.4
						7.1	0.3	7	25.7	25.7	8.3	8.3	28.7	28.7	101.7	101.8	7.1	7.1	6.3	7	94								<0.2	1.3	
						7.1	0.3	7	25.7		8.3		28.7		101.8		7.1		6.3	7										<0.2	1.3
IM10	Fine	Rough	12:21	7.6	Surface	1.0	0.4	322	25.5	25.5	8.2	8.2	29.4	29.4	97.0	97.1	6.7	8.5	6	85								<0.2	1.2		
						Middle	1.0	0.5	323	25.5		8.2		29.4		97.1		6.7	8.7	5	86	89	822375	809806				<0.2	1.1		
							3.8	0.5	322	25.5	25.5	8.2	8.2	29.4	29.4	97.1	97.2	6.7	9.5	8	89							<0.2	1.5		
					Bottom	3.8	0.5	349	25.5		8.2		29.4		97.2		6.7	9.7	7	89									<0.2	1.4	
						6.6	0.3	322	25.5	25.5	8.3	8.3	29.4	29.4	98.1	98.3	6.8	6.8	11.3	7	93							<0.2	1.5		
						6.6	0.3	325	25.5		8.3		29.4		98.5		6.8	11.5	8	94									<0.2	1.6	
IM11	Fine	Rough	12:10	7.7	Surface	1.0	0.4	302	25.6	25.6	8.2	8.2	29.4	29.4	97.9	98.0	6.8	4.5	11	85								<0.2	1.3		
						Middle	1.0	0.4	311	25.6		8.2		29.4		98.0		6.8	4.6	10	85								<0.2	1.3	
							3.9	0.4	308	25.6	25.6	8.2	8.2	29.4	29.4	98.5	98.6	-	5.7	7	89	89	822045	811461				<0.2	1.2		
					Bottom	3.9	0.4	336	25.6		8.2		29.4		98.6		5.9	7	7	89									<0.2	1.5	
						6.7	0.3	310	25.5	25.5	8.3	8.3	29.4	29.4	100.4	100.8	7.0	6.8	7	94								<0.2	1.6		
						6.7	0.3	319	25.5		8.3		29.4		101.2		7.0	6.8	8	94								<0.2	1.4		
IM12	Fine	Rough	12:03	8.4	Surface	1.0	0.3	266	25.5	25.5	8.3	8.3	29.5	29.5	99.4	99.4	6.9	3.5	7	85								<0.2	1.3		
						Middle	1.0	0.3	267	25.5		8.3		29.5		99.4		6.9	3.6	7	85	90	821466	812063				<0.2	1.3		
							4.2	0.2	271	25.4	25.4	8.3	8.3	29.5	29.5	103.2	103.3	-	5.3	8	90							<0.2	1.4		
					Bottom	4.2	0.2	287	25.4		8.3		29.5		103.4		-	5.4	8	91								<0.2	1.4		
						7.4	0.2	278	25.4	25.4	8.3	8.3	29.5	29.5	104.4	105.1	7.2	7.3	9	93							<0.2	1.3			
						7.4	0.2	296	25.4		8.3		29.5		105.7		7.3	6.7	8	93							<0.2	1.3			
SR1A	Fine	Rough	11:42	7.2	Surface	1.0	-	-	25.5	25.5	8.2	8.2	29.5	29.5	98.1	98.1	6.8	4.5	5	-							-	-			
						Middle	1.0	-	-	25.5		8.2		29.5		98.1		6.8	4.9	4	-						-	-			
							3.6	-	-	25.5	25.5	8.2	8.2	29.5	29.5	98.3	98.3	6.8	5.2	4	-						-	-			
					Bottom	3.6	-	-	25.5		8.2		29.5		98.3		6.8	5.3	3	-							-	-			
						6.2	-	-	25.5	25.5	8.2	8.2	29.5	29.5	98.7	98.8	6.8	6.4	3	-							-	-			
						6.2	-	-	25.5		8.2		29.5		98.8		6.9	6.9	4	-							-	-			
SR2	Fine	Rough	11:30	4.2	Surface	1.0	0.3	312	25.5	25.5	8.2	8.2	29.5	29.5	97.7	97.8	6.8	4.7	4	85							<0.2	1.3			
						Middle	1.0	0.3	338	25.5	25.5	8.2	8.2	29.5		97.8		6.8	4.8	4	85							<0.2	1.3		
							-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							-	-	
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							-	-		
						3.2	0.2	311	25.4	25.4	8.3	8.3	29.5	29.5	98.3	98.4	6.8	5.8	4	93							<0.2	1.5			
						3.2	0.3	313	25.4		8.3		29.5		98.5		6.8	5.9	5	93							<0.2	1.6			
SR3	Fine	Rough	12:41	9.1	Surface	1.0	0.2	48	25.5	25.5	8.2	8.2	28.4	28.4	98.7	98.7	6.9	5.2	7	-							-	-			
						Middle	1.0	0.2	51	25.5		8.2		28.4		98.7		6.9	5.9	6	-							-	-		
							4.6	0.4	68	25.5	25.5	8.2	8.2	28.6	28.6	99.1	99.1	6.9	6.7	6	-							-	-		
					Bottom	4.6	0.4	73	25.5		8.2		28.6		99.1		6.9	6.9	6	-							-	-			
						8.1	0.3	52	25.3	25.3	8.3	8.3	29.6	29.6	99.1	99.1	6.9	7.4	6	-							-	-			
						8.1	0.4	55	25.3		8.3		29.6		99.0		6.9	7.6	6	-							-	-			
SR4A	Sunny	Calm	11:10	9.3	Surface	1.0	0.1	121	25.2	25.2	8.1	8.1	28.9	28.9	89.6	89.6	6.3	3.0	4	-							-	-			
						Middle	1.0	0.1	126	25.2	25.2	8.1	8.1	28.9		89.6		6.3	3.1	4	-							-	-		
							4.7	0.1	74	25.1	25.1	8.1	8.1	29.0	29.0	89.2	89.2	6.3	3.1	6	-							-	-		
					Bottom	4.7	0.1	75	25.1		8.1		29.0		89.2		6.3	3.1	6	-							-	-			
						8.3	0.1	89	25.1	25.1	8.1	8.1	29.0	29.0	89.3	89.3	6.3	3.2	8	-							-	-			
						8.3	0.1	97	25.1		8.1		29.0		89.3		6.3	3.2	9	-							-	-			
SR5A	Sunny	Calm	10:54	3.6	Surface	1.0	0.1	260	25.3	25.3	8.1	8.1	28.6	28.6	91.3	91.4	6.4	5.2	5	-							-	-			
						Middle	1.0	0.1	276	25.3		8.1		28.6		91.4		6.4	5.2	4	-							-	-		
							-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						-	-		
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						-	-			
						2.6	0.1	277	25.3	25.3	8.1	8.1	28.6	28.6	92.2	92.3	6.5	5.6	5	-							-	-			
						2.6	0.1	277	25.3		8.1		28.6		92.4		6.5	6.0	6	-							-	-			
SR6	Sunny	Calm	10:32	3.8	Surface	1.0	0.1	202	25.3	25.3	8.1	8.1	28.4	28.4	90.4	90.5	6.3	6.6	14	-							-	-			
						Middle	1.0	0.1	219	25.3	25.3	8.1	8.1	28.4		90.5		6.3	6.3	14	-							-	-		
							-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						-	-		
					Bottom	2.8	0.1	194	25.3	25.3	8.1	8.1	28.4	28.4	91.1	91.2	6.4	5.9	16	-							-	-			
						2.8	0.1	198	25.3		8.1		28.4		91.2		6.4	6.2	16	-							-	-			
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						-	-		
SR7	Fine	Rough	10:42	19.0	Surface	1.0	0.1	36	25.8	25.8	8.2	8.2	30.4	30.4	90.4	90.4	6.2	3.0	6	-							-	-			
						Middle	1.0	0.2	37	25.8		8.2		30.4		90.3		6.2	3.4	5	-							-	-		
							9.5	0.2	26	25.8	25.8	8.2	8.2	30.4	30.4	89.8	89.7	6.2	4.1	4	-							-	-		
					Bottom	9.5	0.2	28	25.8		8.2		30.4		89.7		6.2	4.1	4	-							-	-			
						18.0	0.2	46	25.8	25.8	8.2	8.2	30.8	30.8	89.4	89.4	6.1	5.0	4	-							-	-			
						18.0	0.2	46	25.8		8.2		30.8		89.4		6.1	5.4	4	-							-	-			
SR8	Fine	Rough	11:51	4.2	Surface	1.0	-	-	25.4	25.4	8.3	8.3	29.3	29.3	98.5	98.5	6.8	4.6	4	-							-	-			
						Middle	1.0	-	-	25.4		8.3		29.3		98.5		6.8	4.8	4	-							-	-		
							-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						-	-		
					Bottom	3.2	-	-	25.4	25.4	8.3	8.3	29.6	29.6	101.3	101.4	7.0	5.7	4	-							-	-			
						3.2	-	-	25.4		8.3		29.6		101.5		7.0	5.9	4	-							-	-			
						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						-	-		



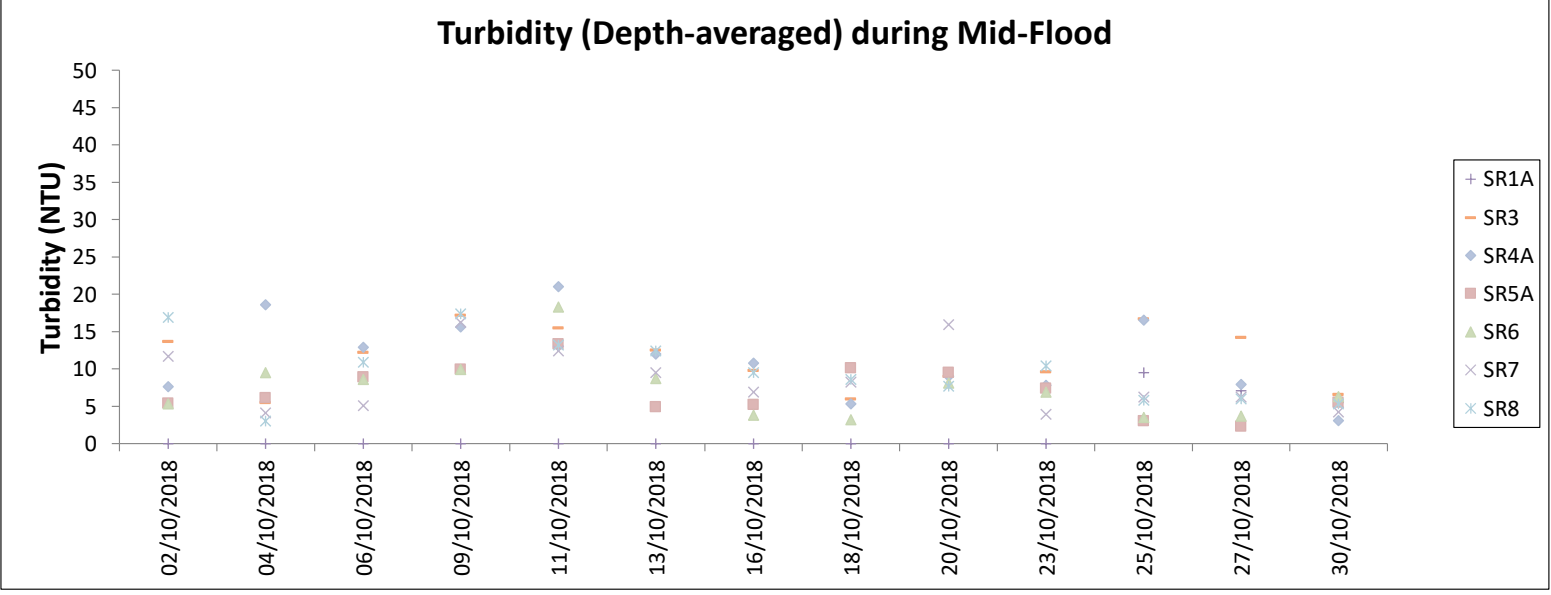
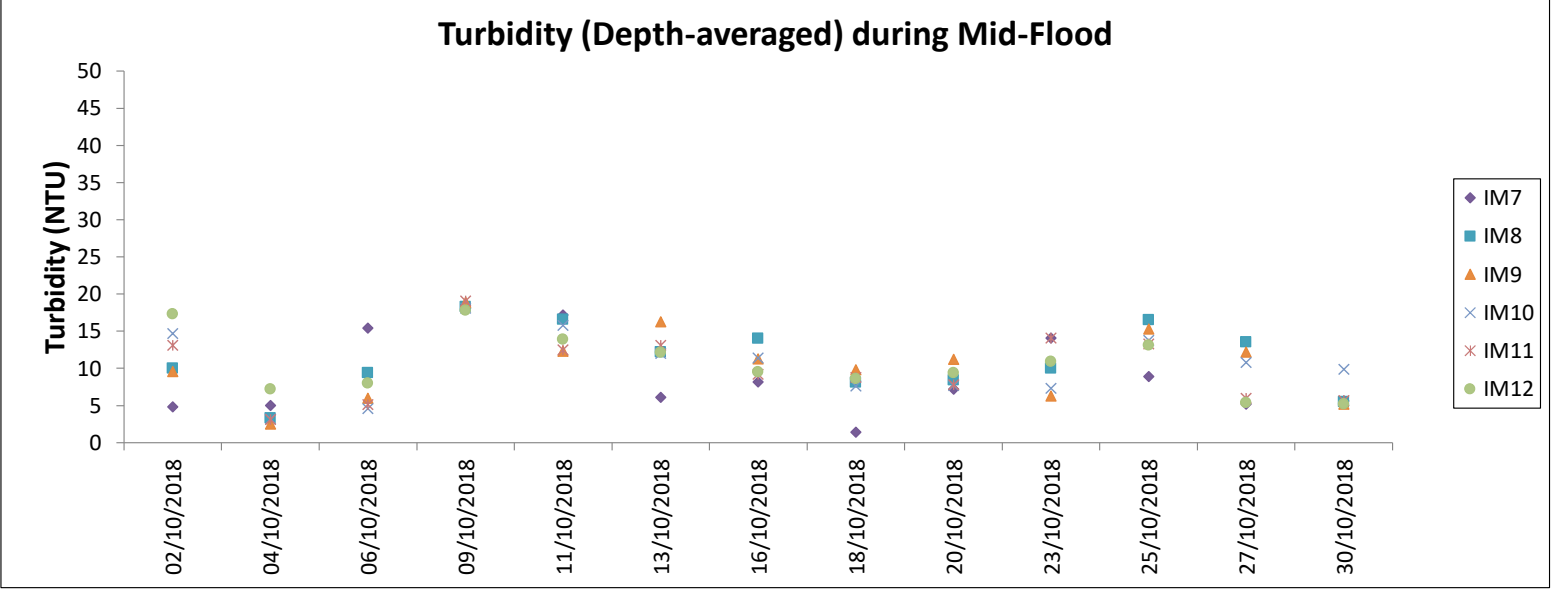
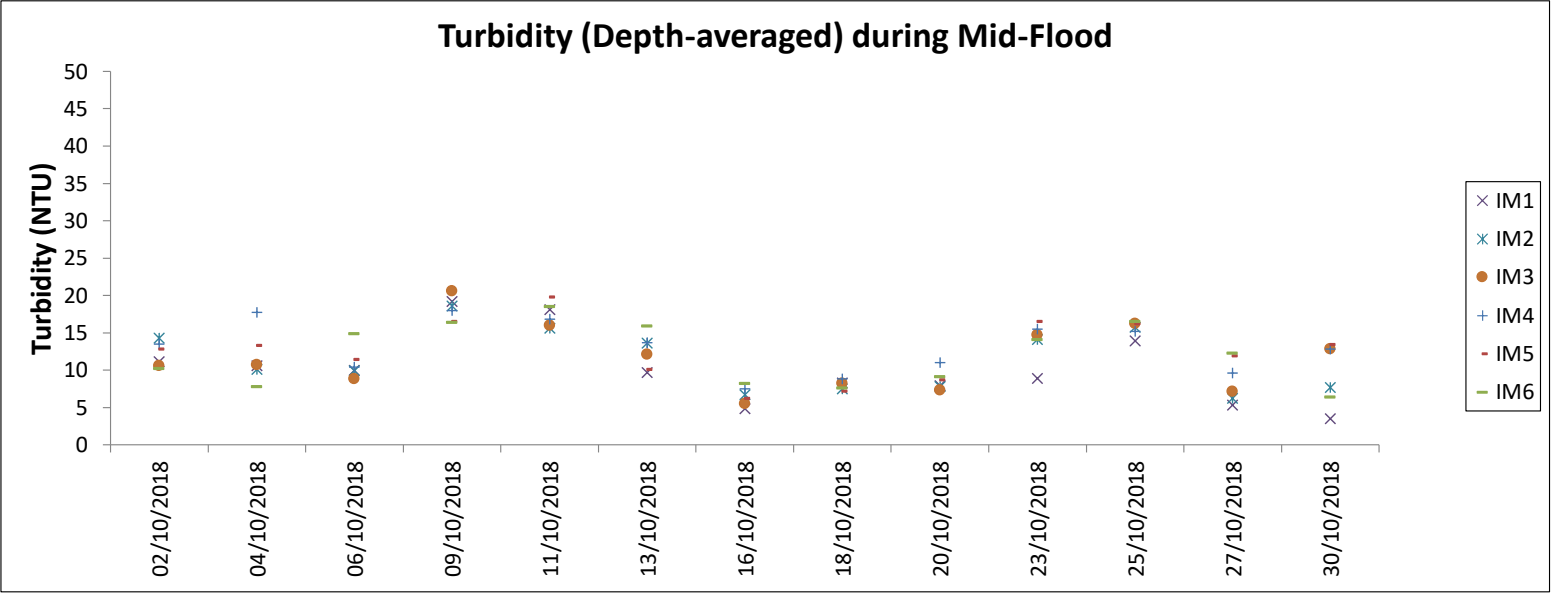
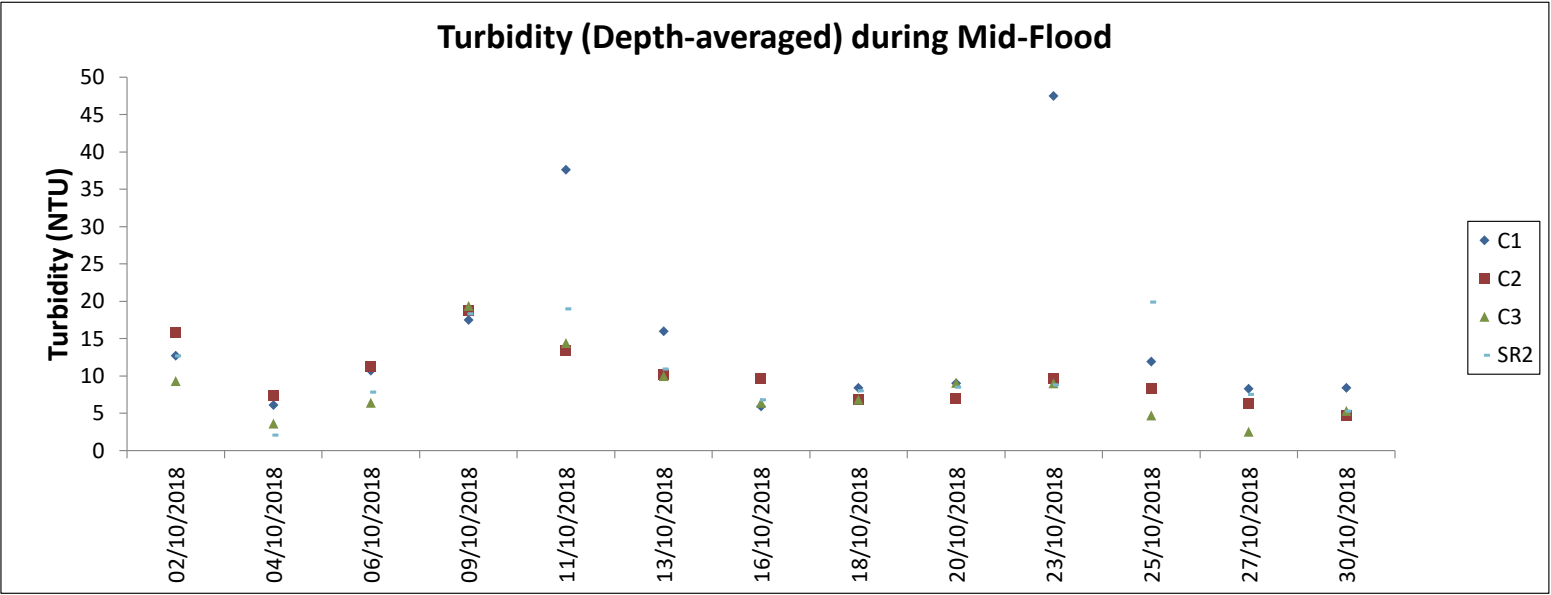




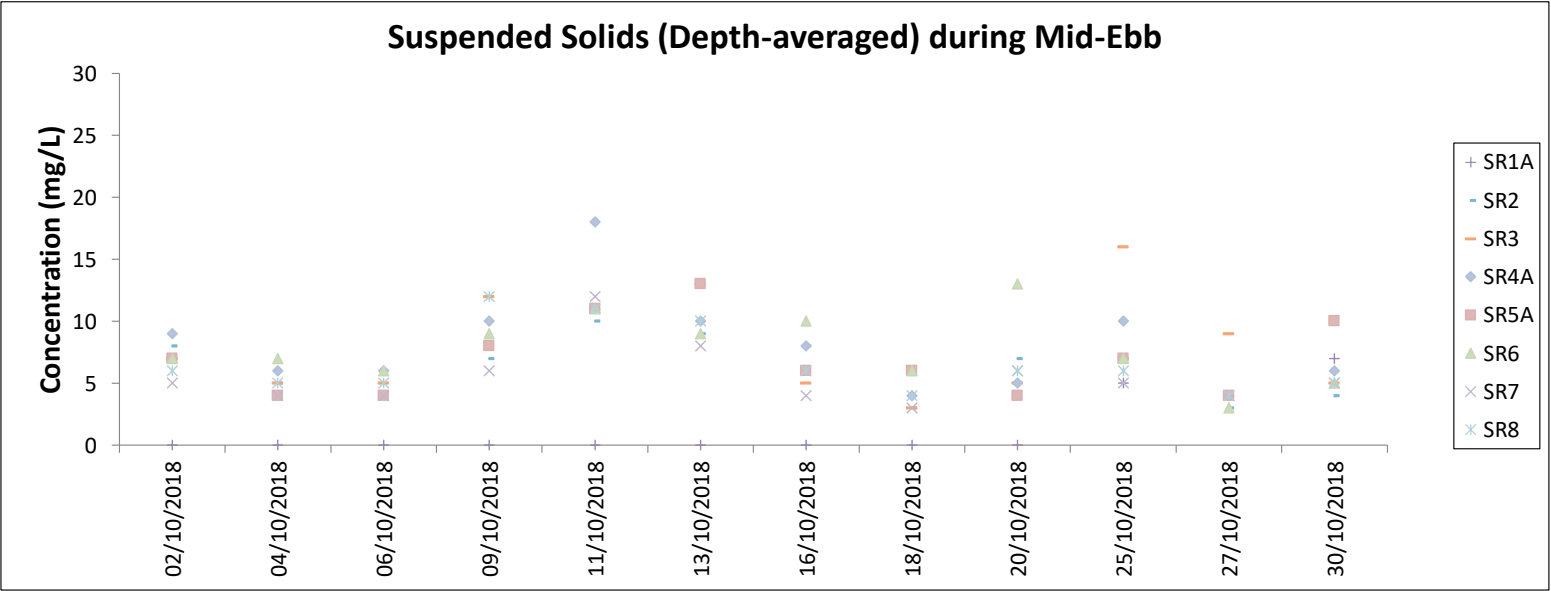
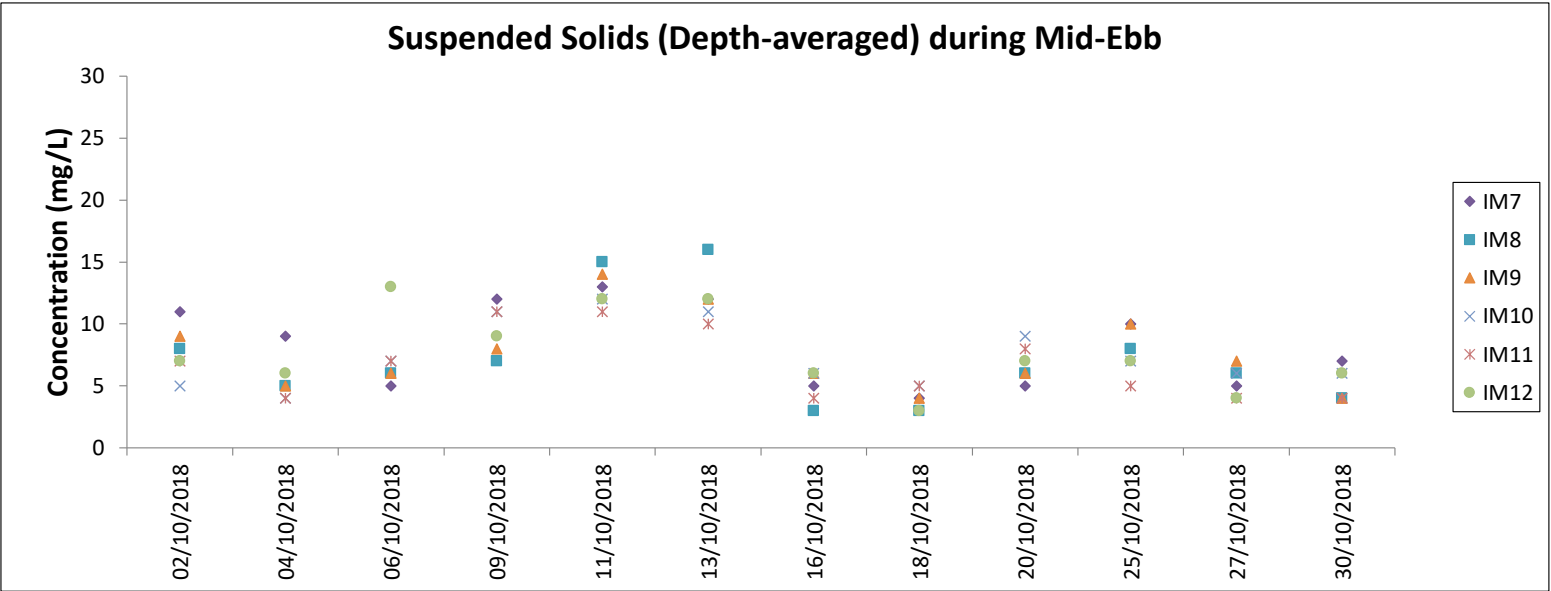
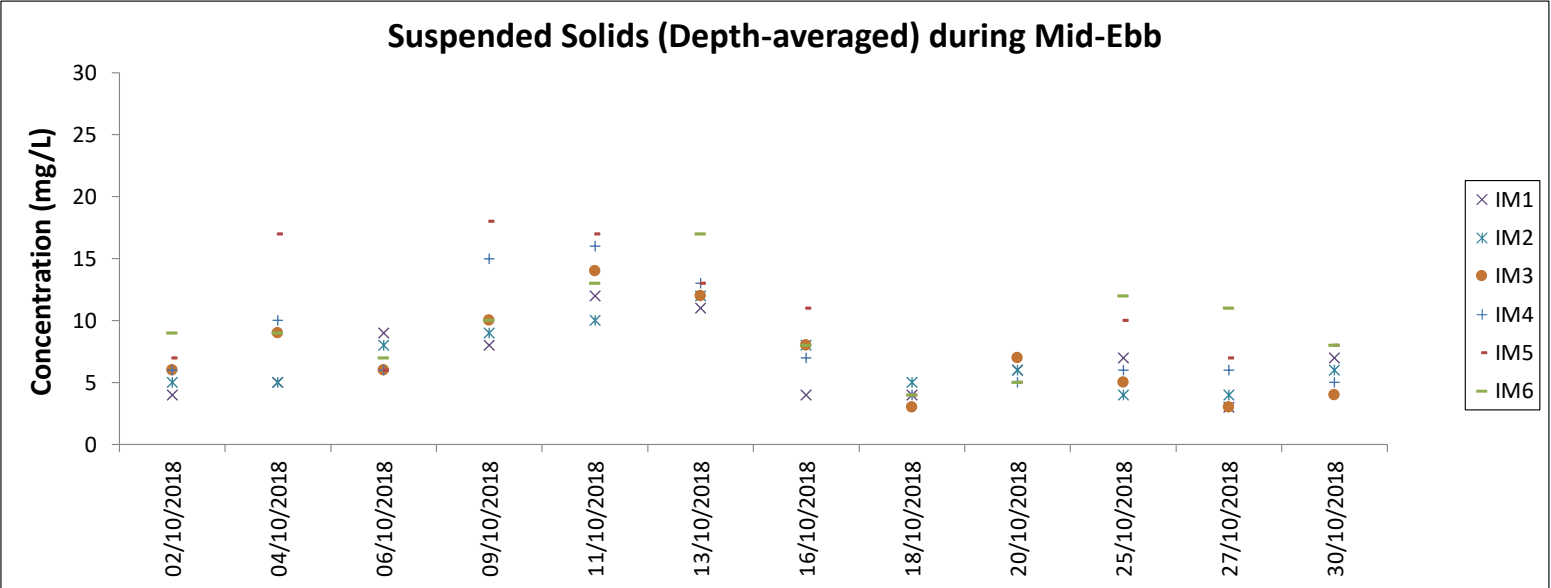
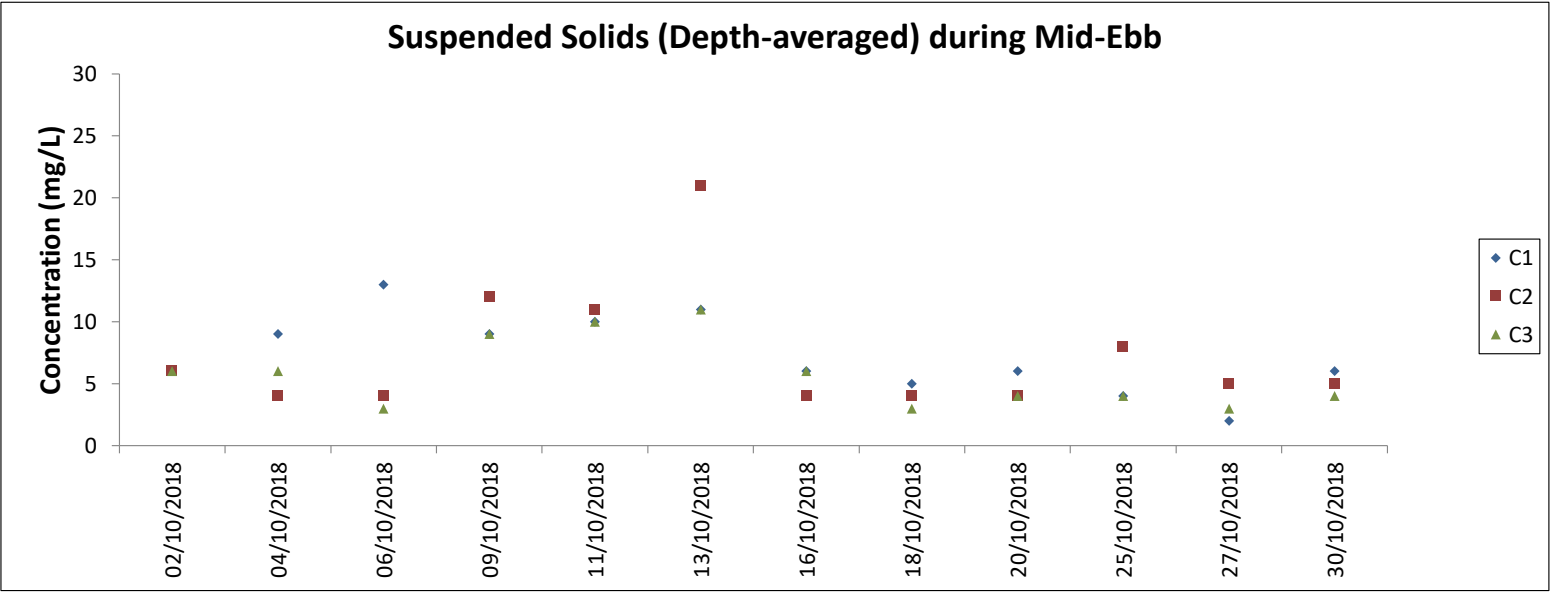




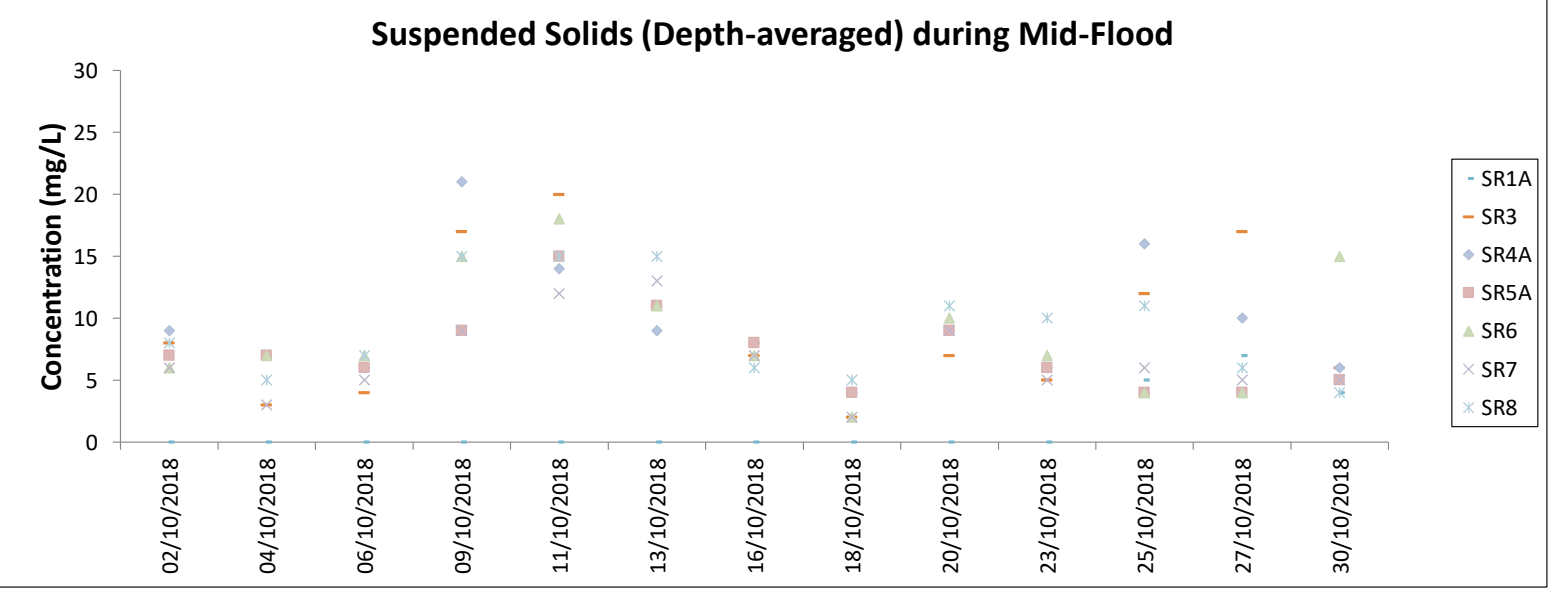
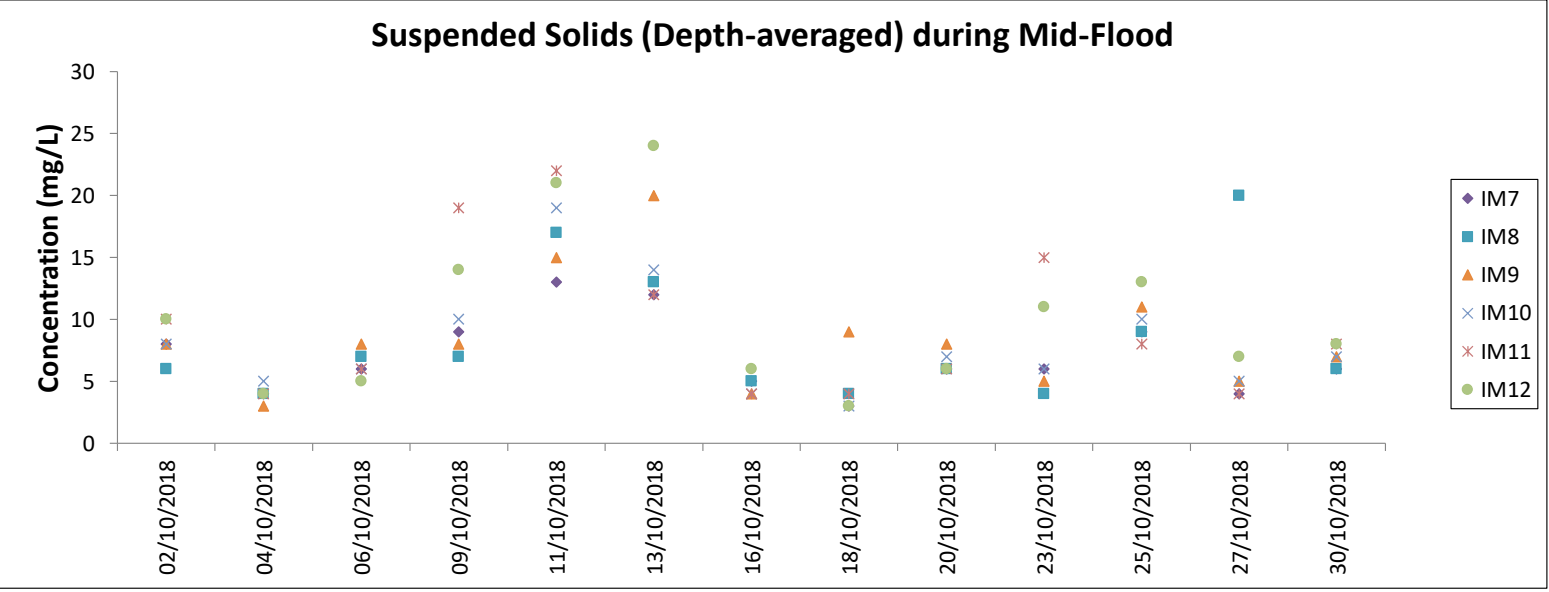
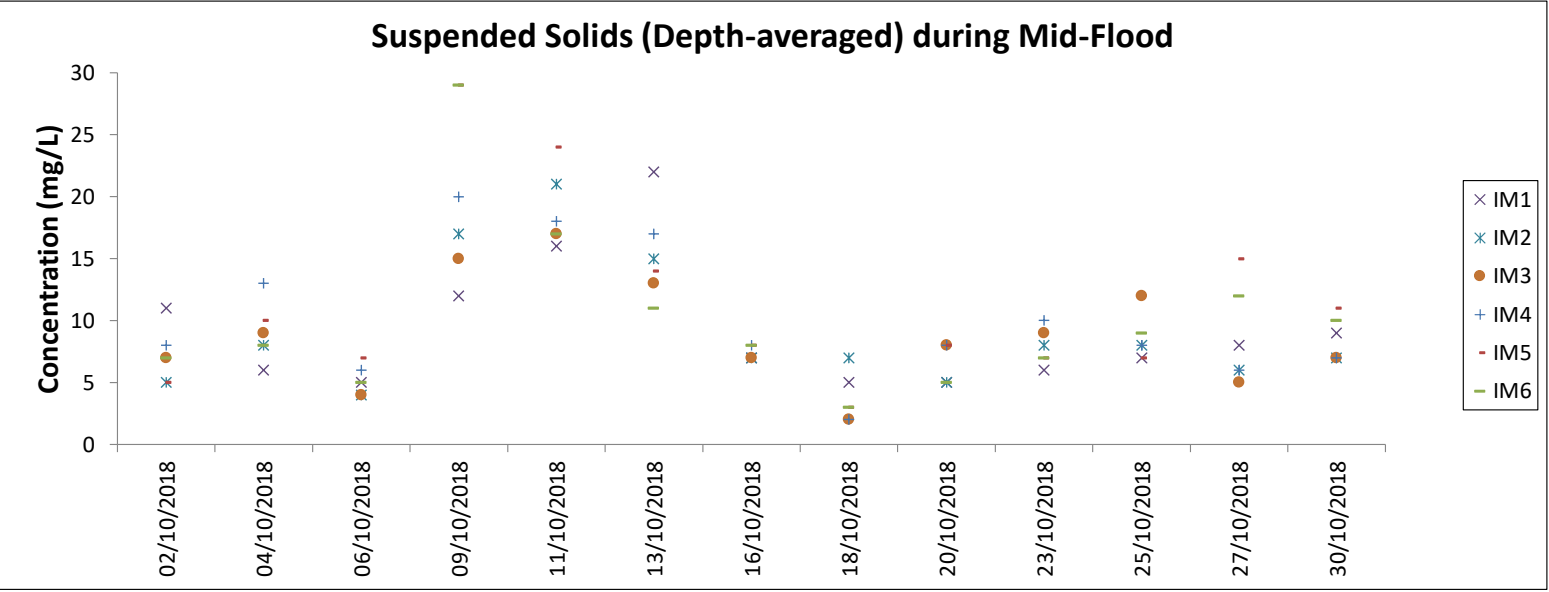
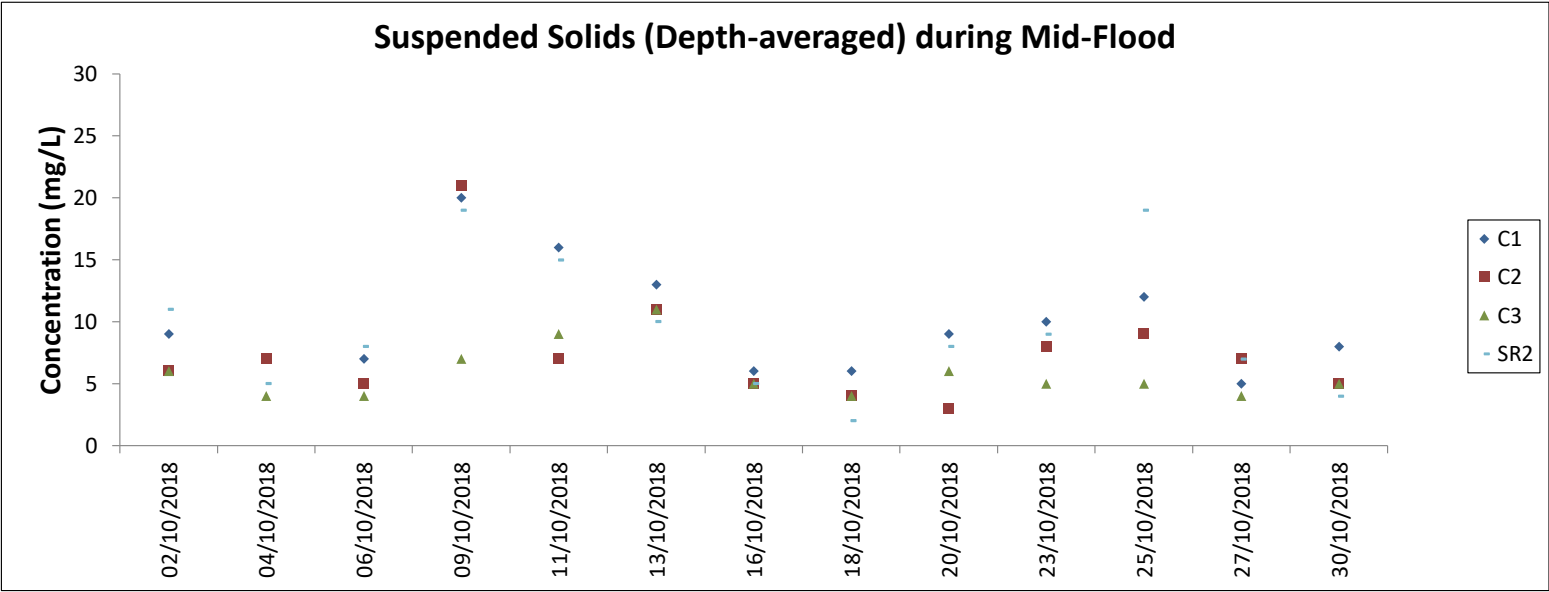
Note: The Action and Limit Level of turbidity can be referred to Table 4.2 of the monthly EM&A report.



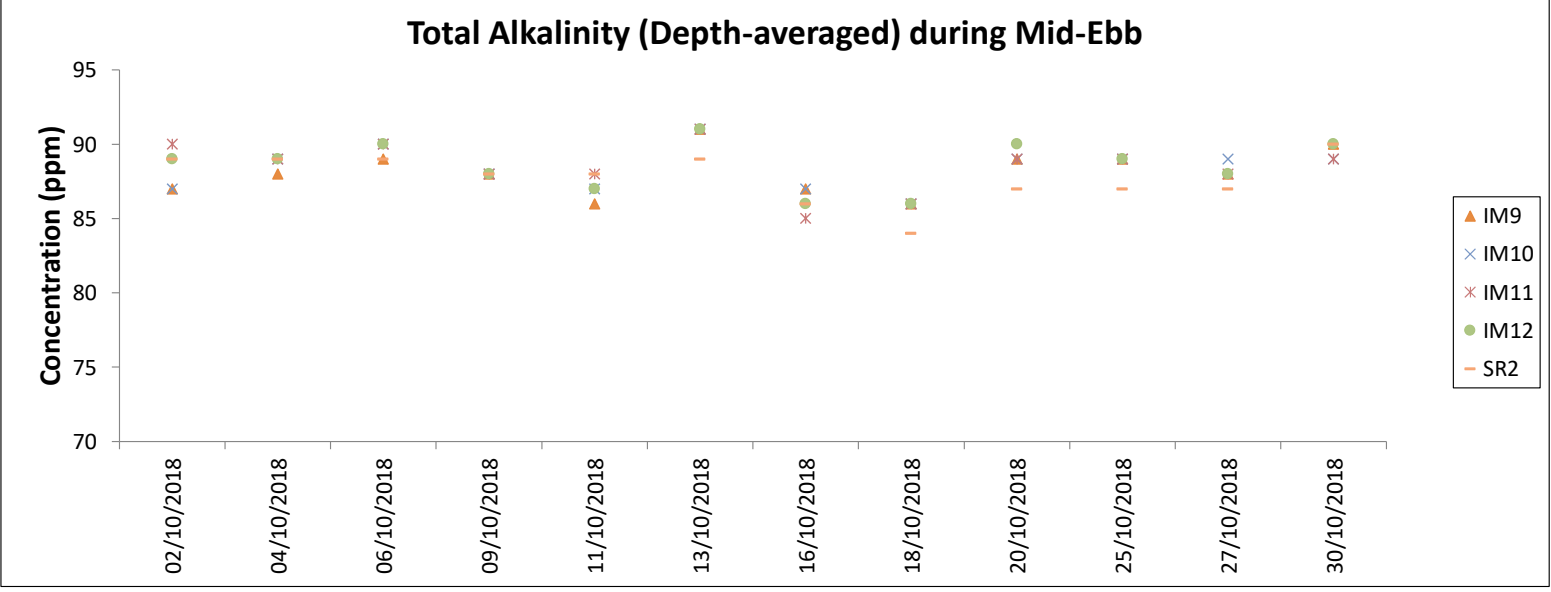
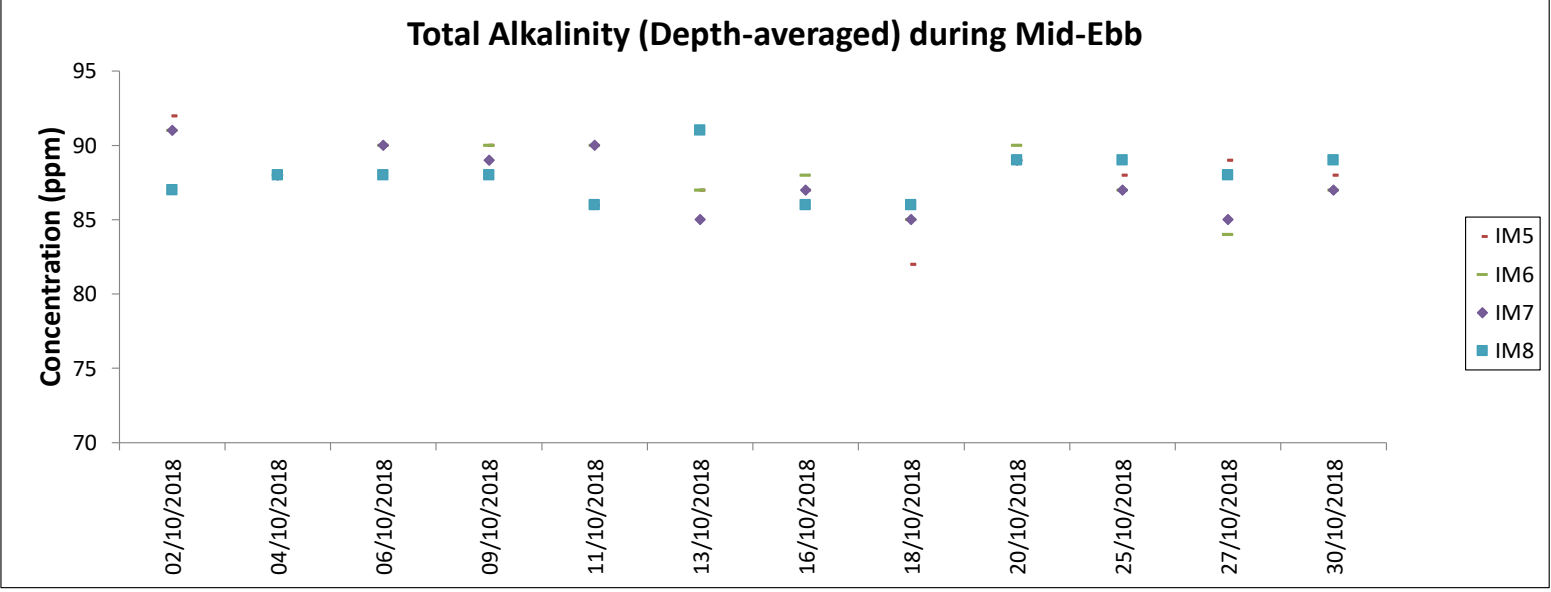
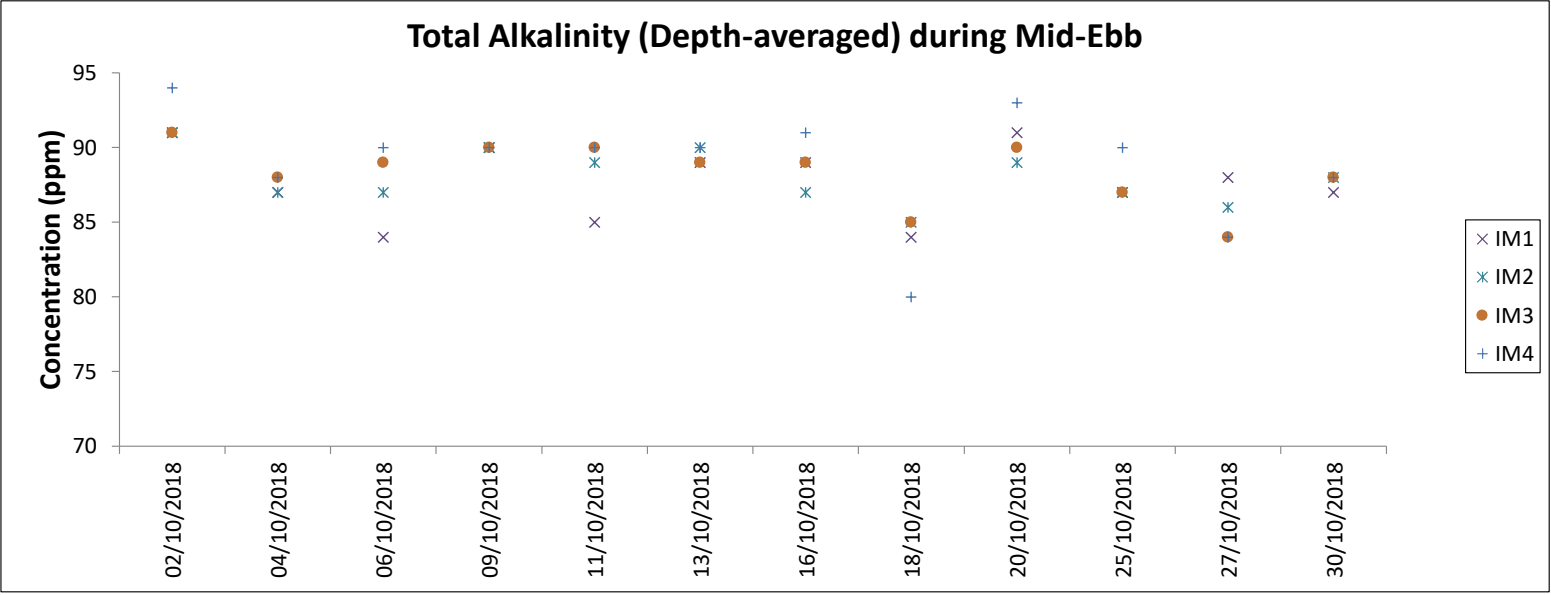
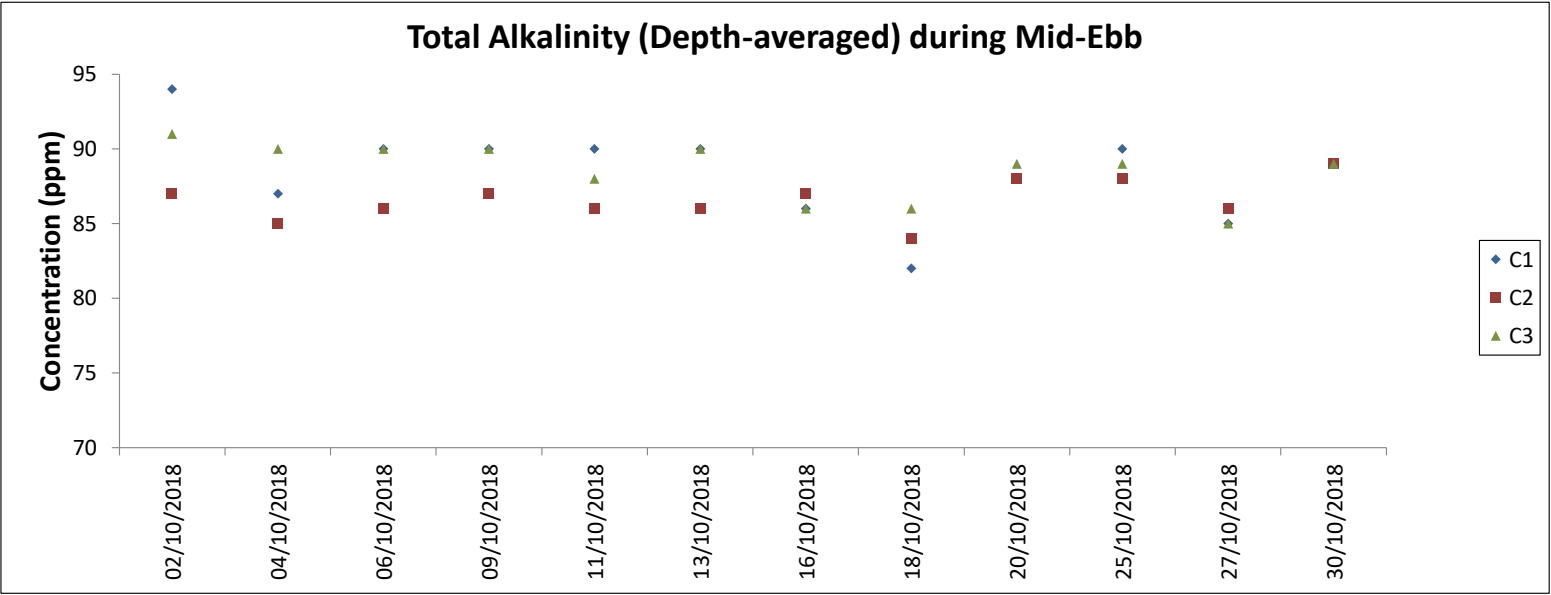
Note: The Action and Limit Level of turbidity can be referred to Table 4.2 of the monthly EM&A report.



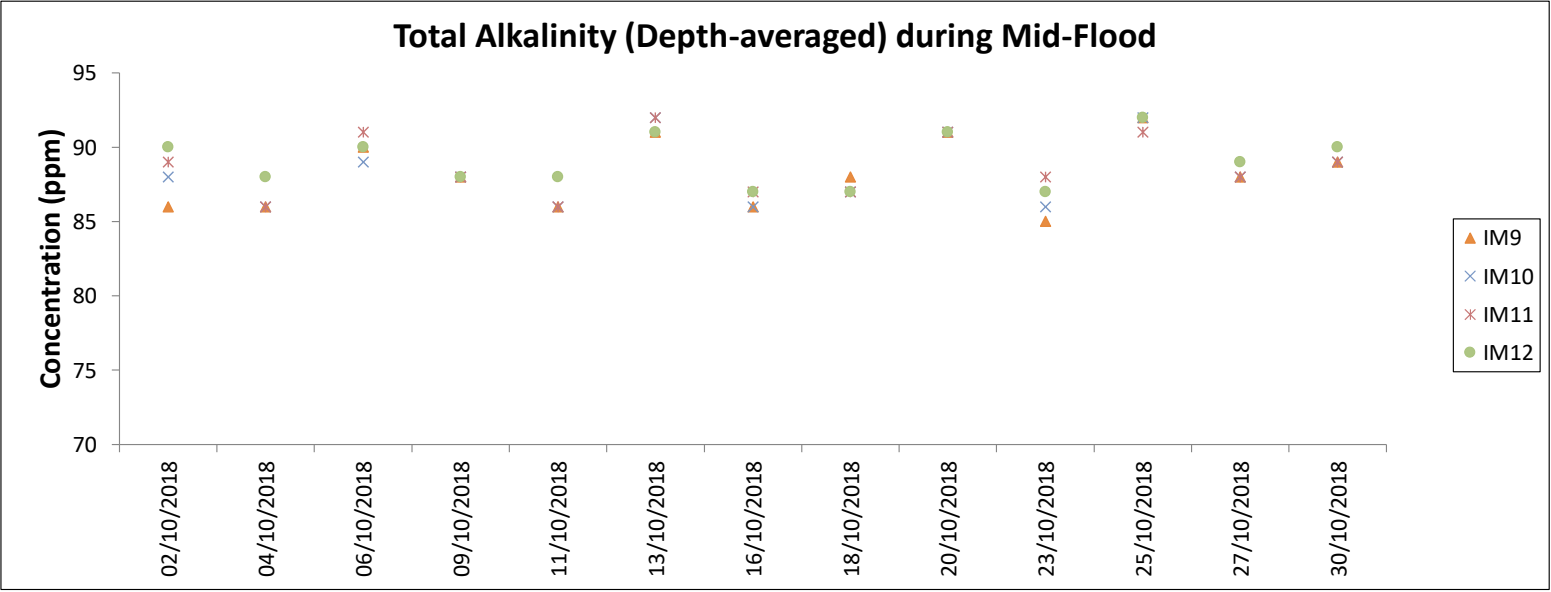
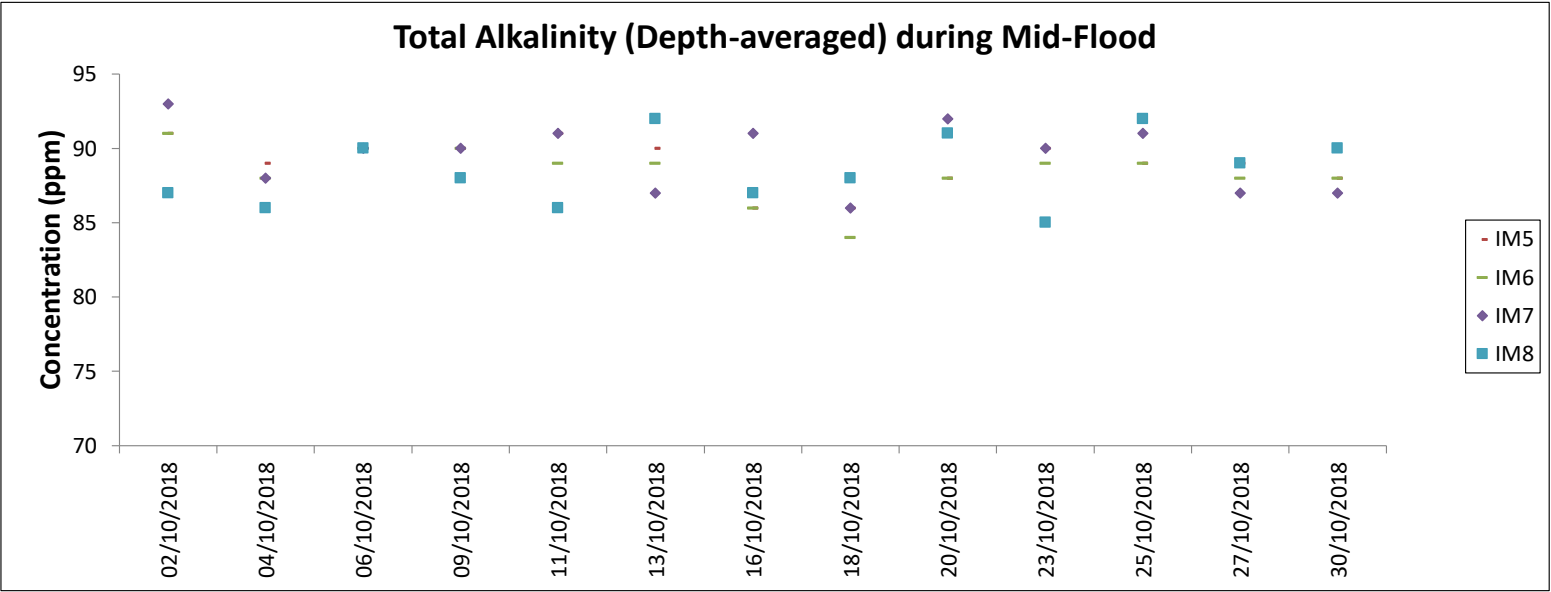
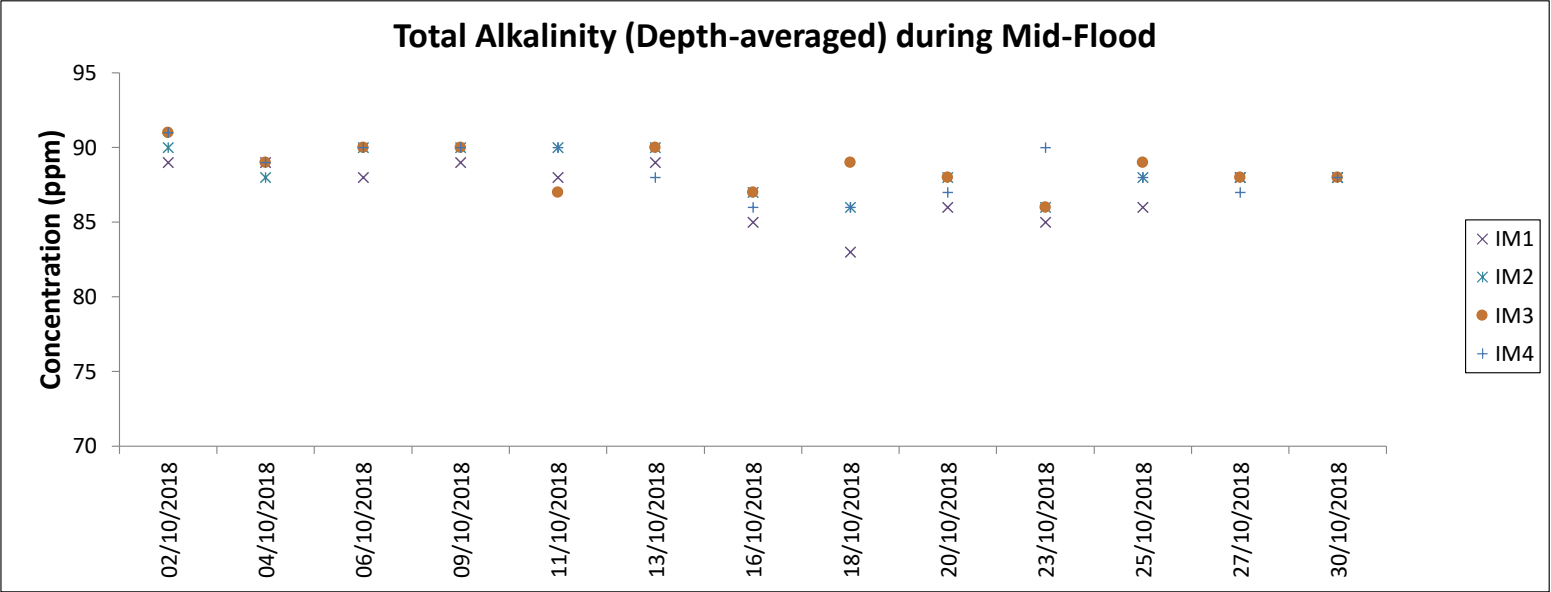
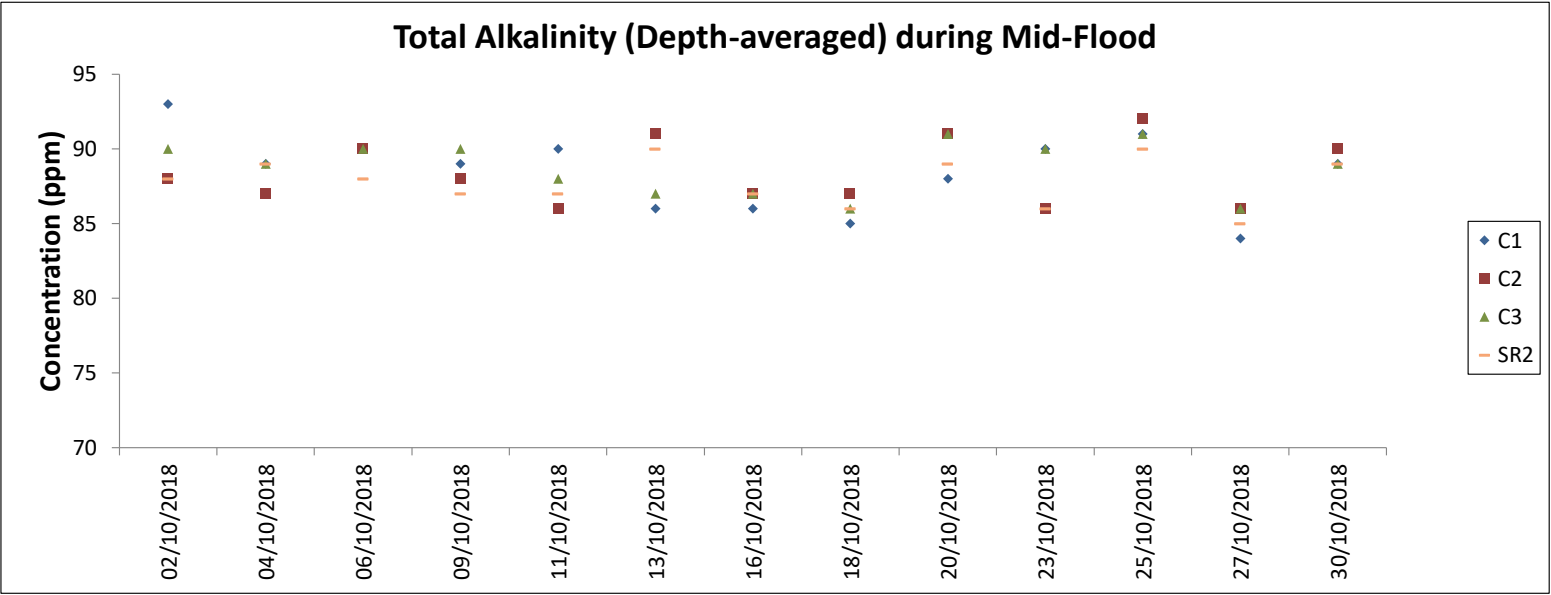
Note: The Action and Limit Level of suspended solids can be referred to Table 4.2 of the monthly EM&A report.



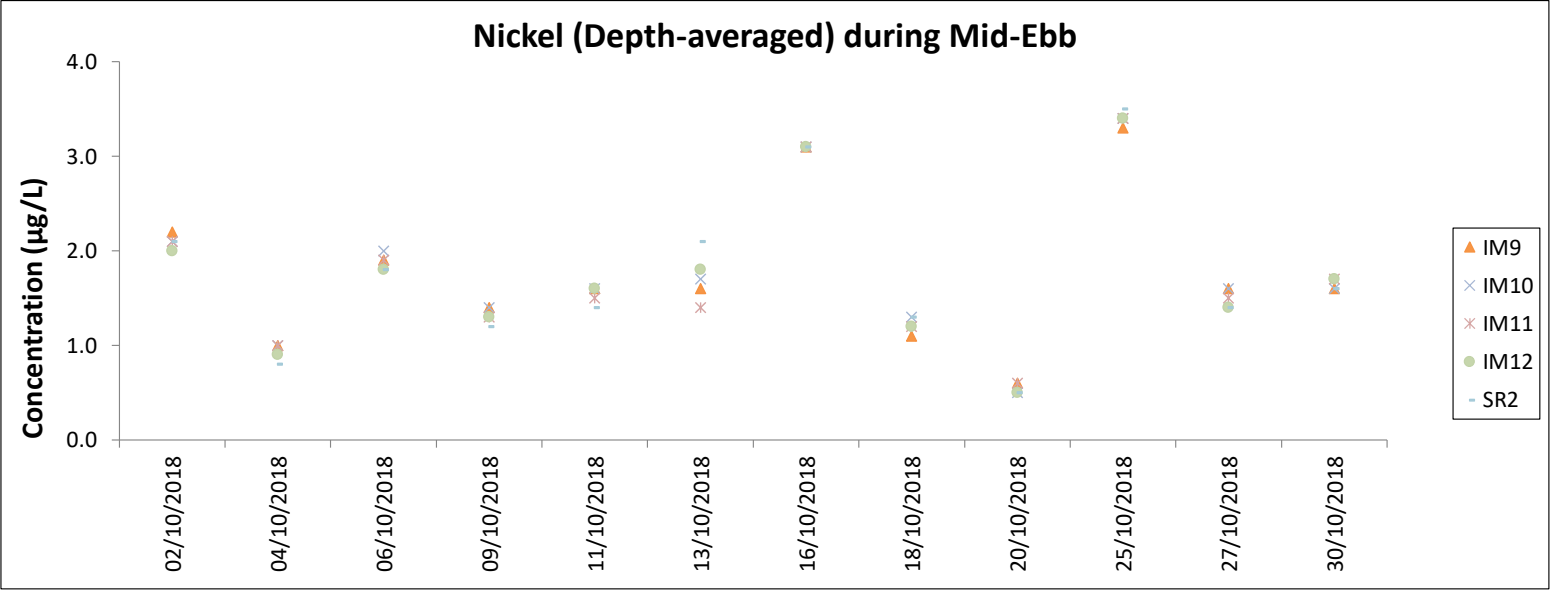
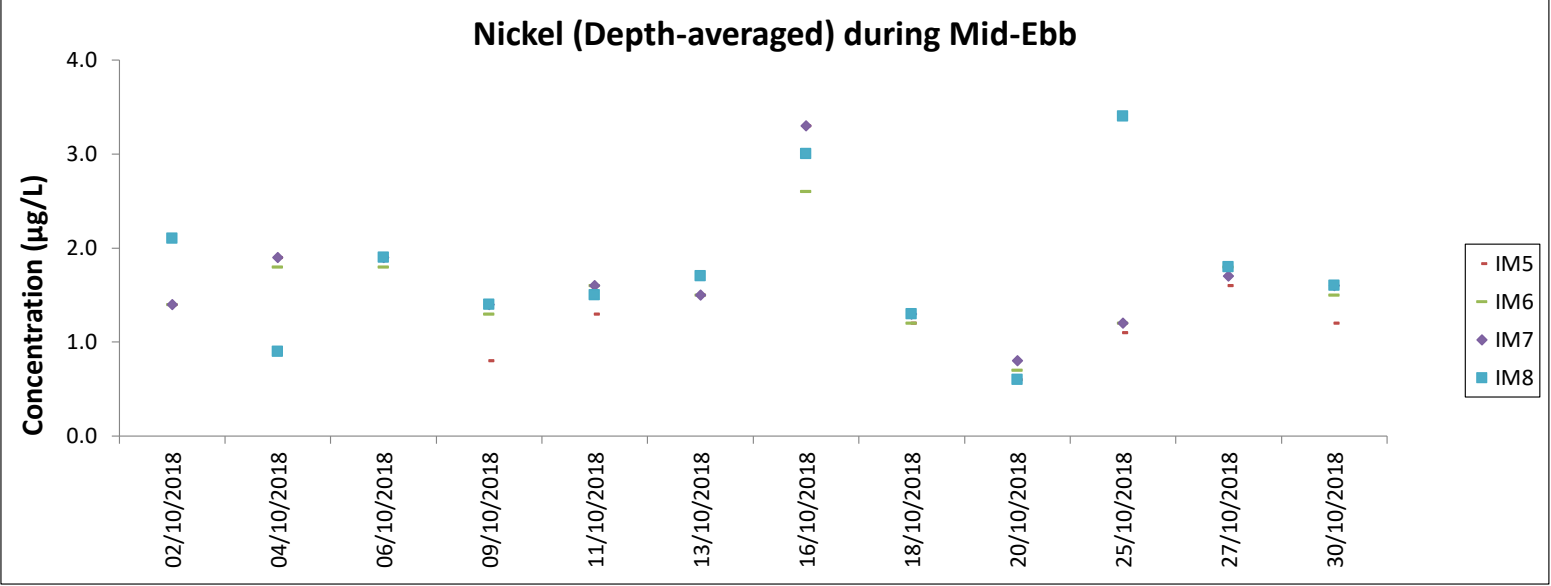
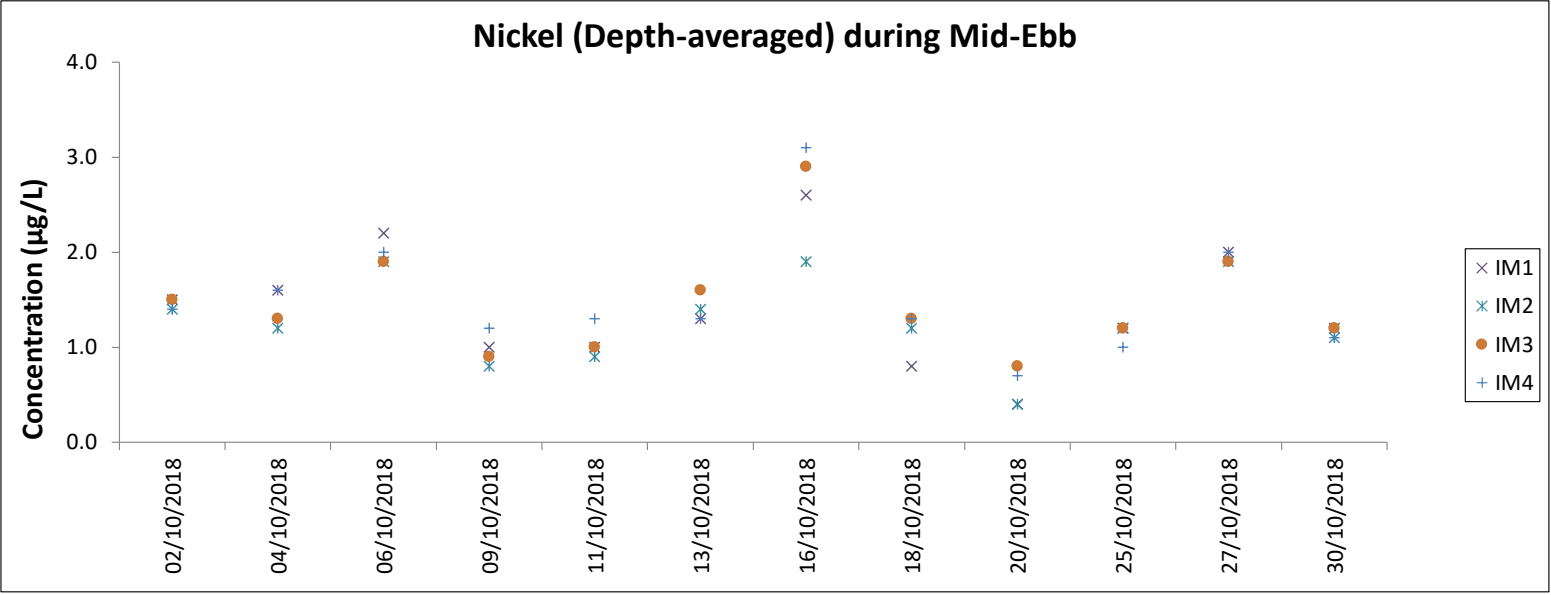
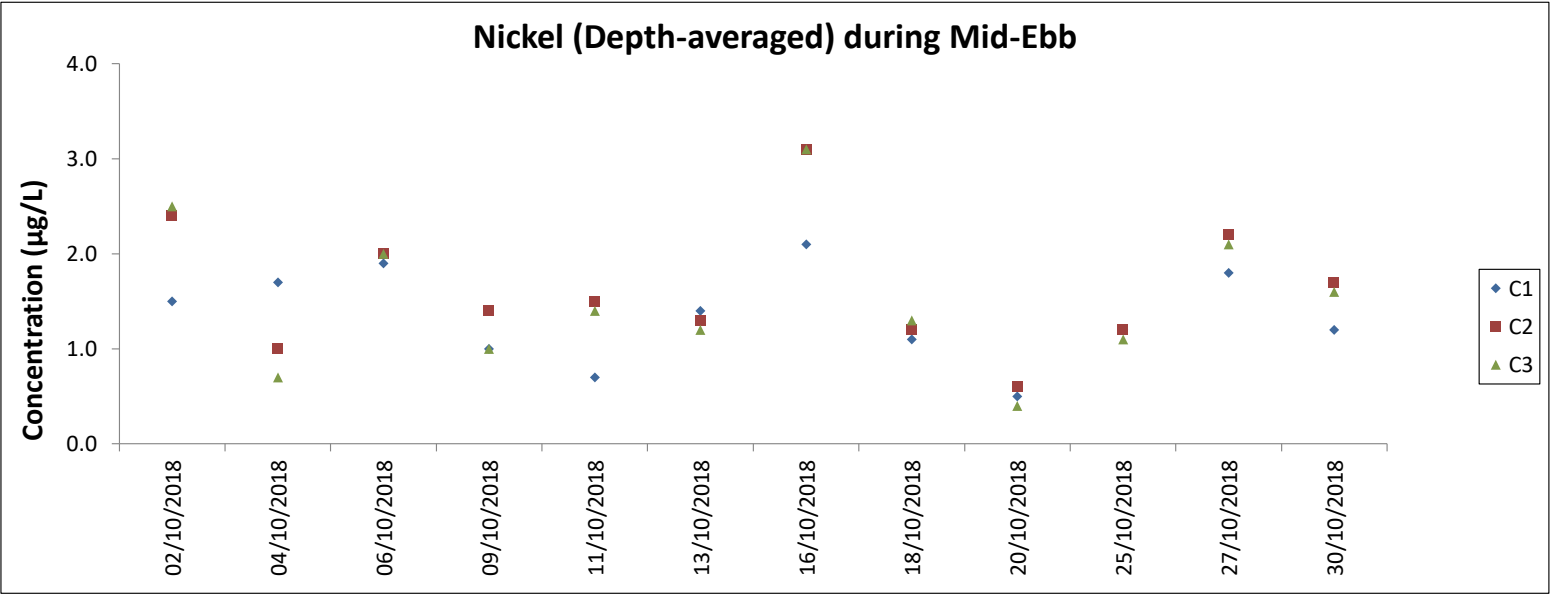
Note: The Action and Limit Level of suspended solids can be referred to Table 4.2 of the monthly EM&A report.



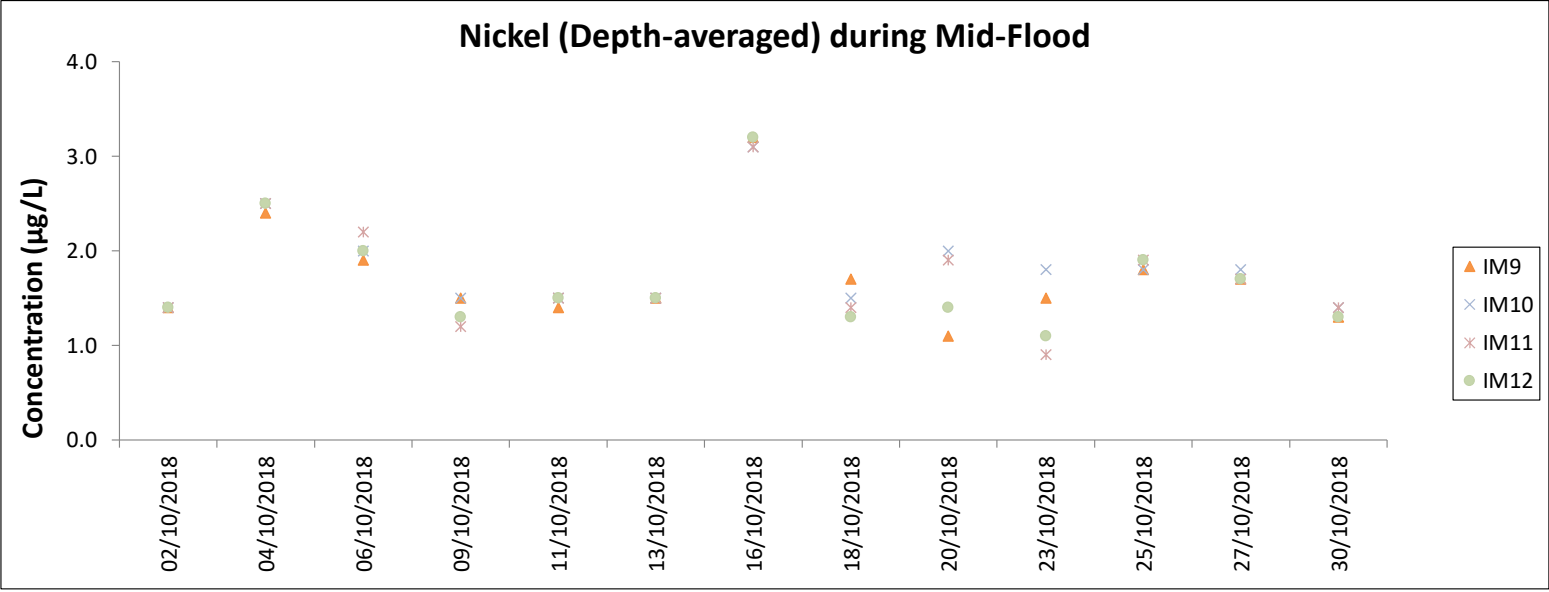
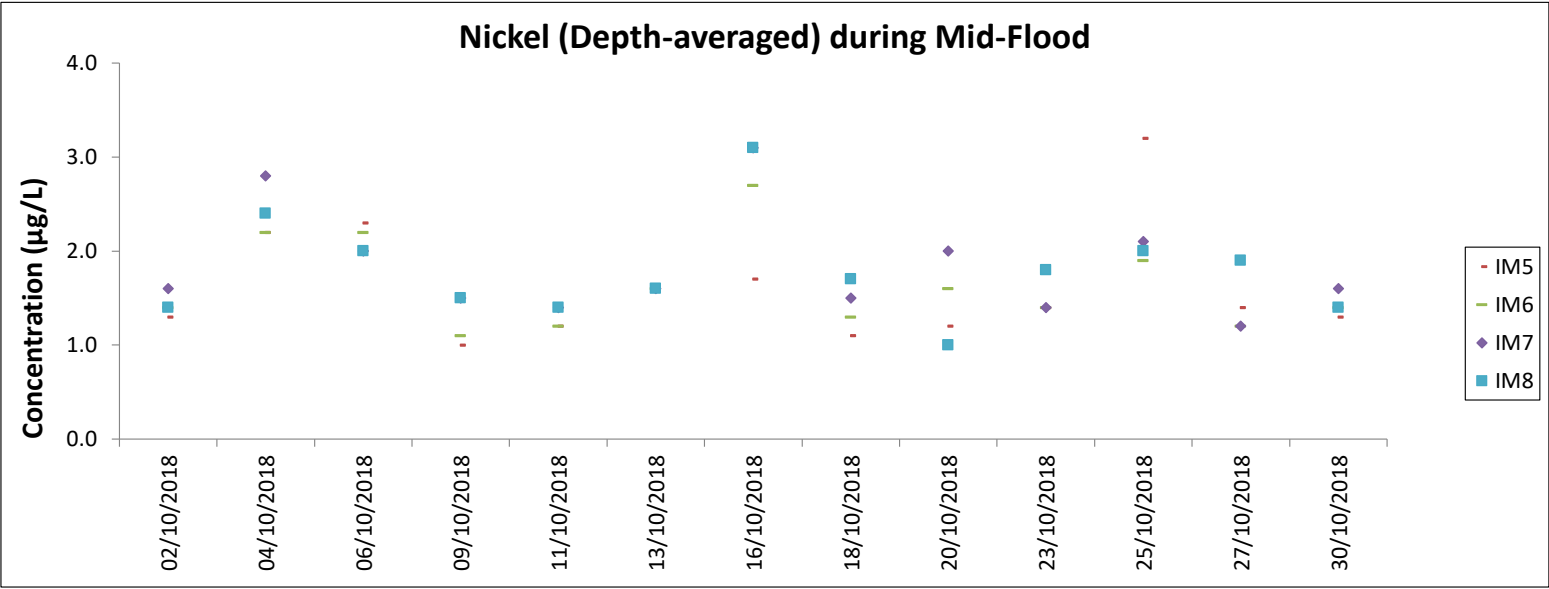
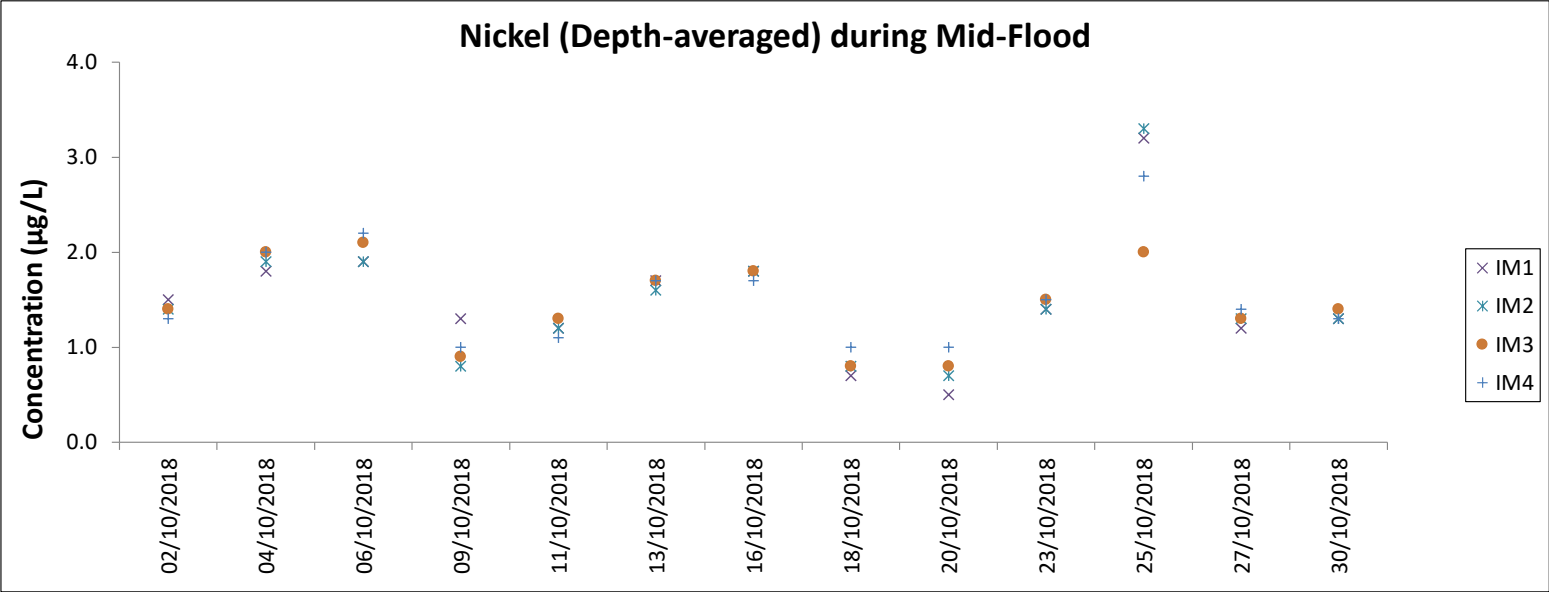
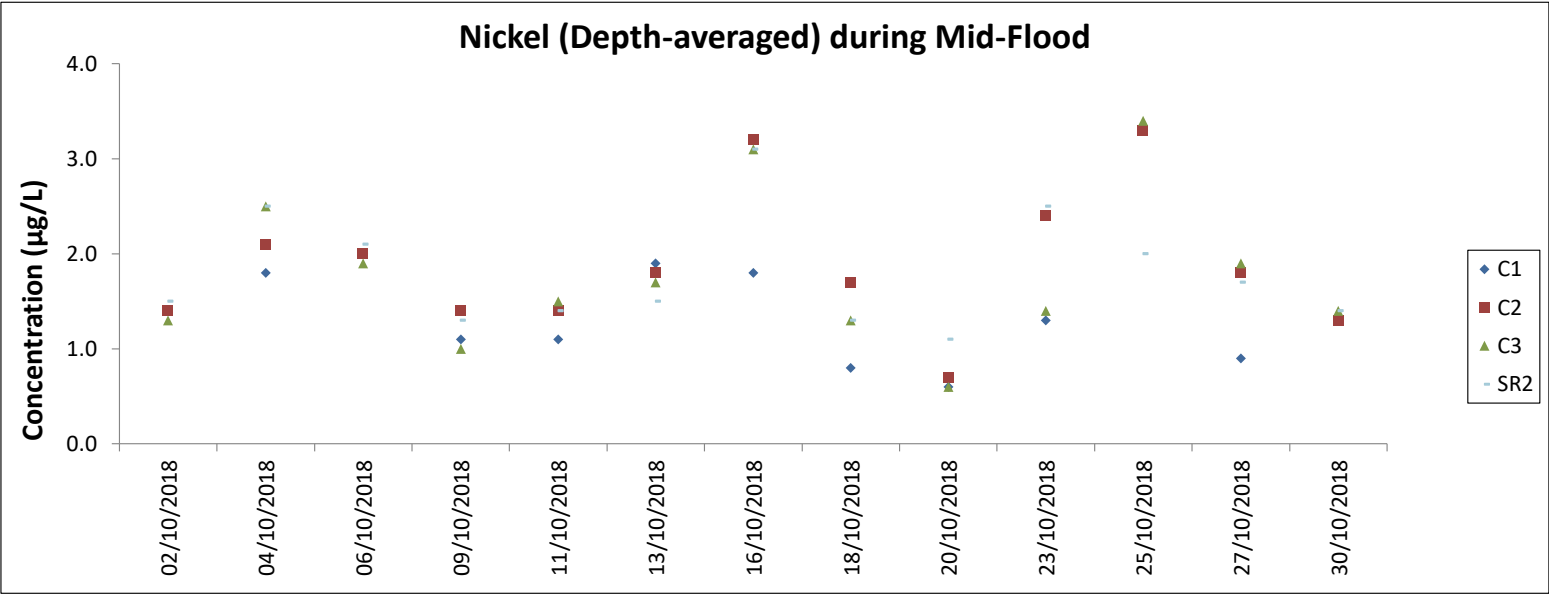
Note: The Action and Limit Level of total alkalinity can be referred to Table 4.2 of the monthly EM&A report.



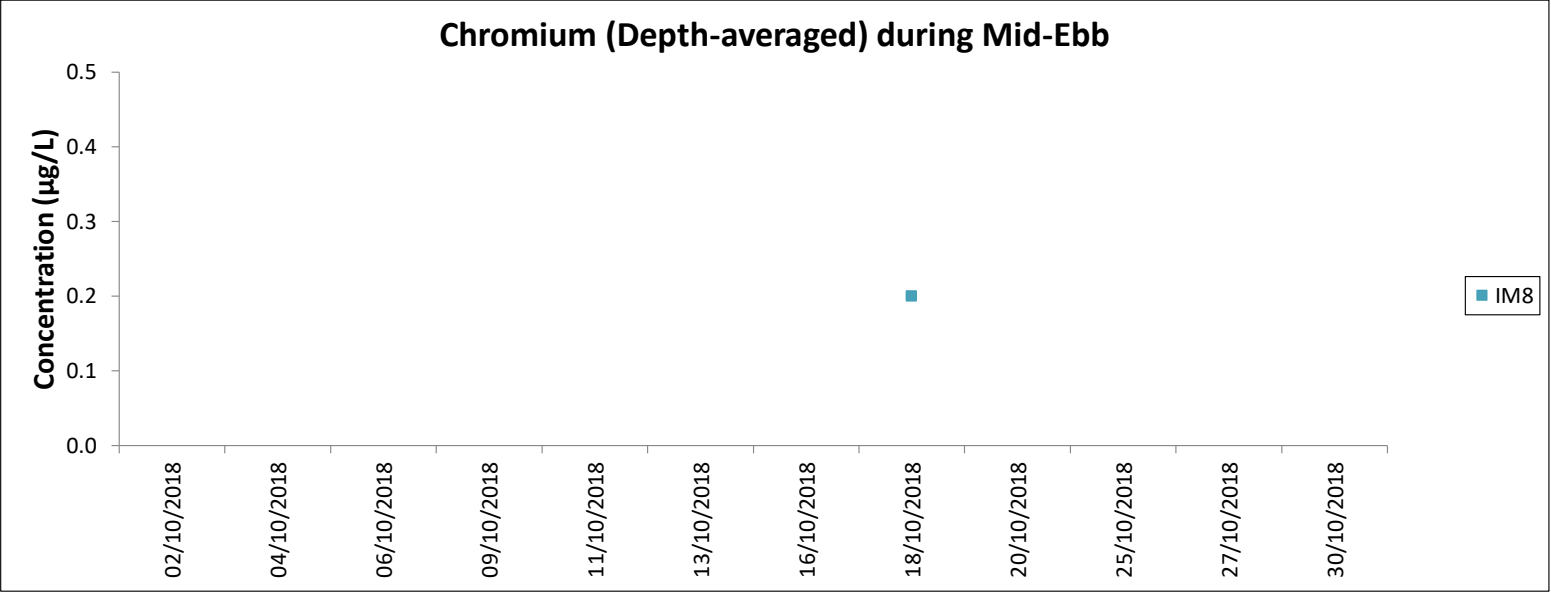
Note: The Action and Limit Level of total alkalinity can be referred to Table 4.2 of the monthly EM&A report.



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



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



Note: All other chromium results in the reporting period were below the reporting limit 0.2 µg/L.

Chinese White Dolphin Monitoring Results

CWD Small Vessel Line-transect Survey

Survey Effort Data

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE	P/S
2-Aug-18	NWL	2	9.284	SUMMER	32166	3RS ET	P
2-Aug-18	NWL	3	46.887	SUMMER	32166	3RS ET	P
2-Aug-18	NWL	4	6.300	SUMMER	32166	3RS ET	P
2-Aug-18	NWL	2	2.029	SUMMER	32166	3RS ET	S
2-Aug-18	NWL	3	9.770	SUMMER	32166	3RS ET	S
2-Aug-18	NWL	4	0.400	SUMMER	32166	3RS ET	S
7-Aug-18	AW	2	4.960	SUMMER	32166	3RS ET	P
7-Aug-18	WL	1	2.480	SUMMER	32166	3RS ET	P
7-Aug-18	WL	2	8.859	SUMMER	32166	3RS ET	P
7-Aug-18	WL	3	4.158	SUMMER	32166	3RS ET	P
7-Aug-18	WL	4	3.370	SUMMER	32166	3RS ET	P
7-Aug-18	WL	2	3.270	SUMMER	32166	3RS ET	S
7-Aug-18	WL	3	4.142	SUMMER	32166	3RS ET	S
7-Aug-18	WL	4	1.120	SUMMER	32166	3RS ET	S
16-Aug-18	NEL	1	0.900	SUMMER	32166	3RS ET	P
16-Aug-18	NEL	2	29.510	SUMMER	32166	3RS ET	P
16-Aug-18	NEL	3	7.200	SUMMER	32166	3RS ET	P
16-Aug-18	NEL	1	0.400	SUMMER	32166	3RS ET	S
16-Aug-18	NEL	2	9.690	SUMMER	32166	3RS ET	S
17-Aug-18	NEL	2	35.410	SUMMER	32166	3RS ET	P
17-Aug-18	NEL	3	1.100	SUMMER	32166	3RS ET	P
17-Aug-18	NEL	2	9.880	SUMMER	32166	3RS ET	S
17-Aug-18	NEL	3	0.200	SUMMER	32166	3RS ET	S
20-Aug-18	NWL	1	9.500	SUMMER	32166	3RS ET	P
20-Aug-18	NWL	2	51.800	SUMMER	32166	3RS ET	P
20-Aug-18	NWL	3	1.300	SUMMER	32166	3RS ET	P
20-Aug-18	NWL	1	1.000	SUMMER	32166	3RS ET	S
20-Aug-18	NWL	2	11.000	SUMMER	32166	3RS ET	S
21-Aug-18	AW	1	4.700	SUMMER	32166	3RS ET	P
21-Aug-18	WL	2	24.554	SUMMER	32166	3RS ET	P
21-Aug-18	WL	3	3.309	SUMMER	32166	3RS ET	P
21-Aug-18	WL	2	7.939	SUMMER	32166	3RS ET	S
21-Aug-18	WL	3	0.572	SUMMER	32166	3RS ET	S
22-Aug-18	SWL	2	50.350	SUMMER	32166	3RS ET	P
22-Aug-18	SWL	3	4.900	SUMMER	32166	3RS ET	P
22-Aug-18	SWL	2	13.170	SUMMER	32166	3RS ET	S
22-Aug-18	SWL	3	2.400	SUMMER	32166	3RS ET	S
23-Aug-18	SWL	2	51.850	SUMMER	32166	3RS ET	P
23-Aug-18	SWL	3	2.905	SUMMER	32166	3RS ET	P
23-Aug-18	SWL	2	11.220	SUMMER	32166	3RS ET	S
23-Aug-18	SWL	3	4.000	SUMMER	32166	3RS ET	S
7-Sep-18	SWL	1	0.800	AUTUMN	32166	3RS ET	P
7-Sep-18	SWL	2	43.560	AUTUMN	32166	3RS ET	P
7-Sep-18	SWL	3	11.660	AUTUMN	32166	3RS ET	P
7-Sep-18	SWL	1	1.500	AUTUMN	32166	3RS ET	S
7-Sep-18	SWL	2	8.130	AUTUMN	32166	3RS ET	S
7-Sep-18	SWL	3	4.900	AUTUMN	32166	3RS ET	S

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE	P/S
10-Sep-18	NEL	2	37.280	AUTUMN	32166	3RS ET	P
10-Sep-18	NEL	2	8.640	AUTUMN	32166	3RS ET	S
10-Sep-18	NEL	3	1.080	AUTUMN	32166	3RS ET	S
14-Sep-18	NWL	1	1.400	AUTUMN	32166	3RS ET	P
14-Sep-18	NWL	2	58.520	AUTUMN	32166	3RS ET	P
14-Sep-18	NWL	3	3.600	AUTUMN	32166	3RS ET	P
14-Sep-18	NWL	2	11.780	AUTUMN	32166	3RS ET	S
18-Sep-18	NEL	2	4.900	AUTUMN	32166	3RS ET	P
18-Sep-18	NEL	3	28.270	AUTUMN	32166	3RS ET	P
18-Sep-18	NEL	4	4.070	AUTUMN	32166	3RS ET	P
18-Sep-18	NEL	2	1.000	AUTUMN	32166	3RS ET	S
18-Sep-18	NEL	3	8.260	AUTUMN	32166	3RS ET	S
18-Sep-18	NEL	4	1.000	AUTUMN	32166	3RS ET	S
19-Sep-18	SWL	2	42.334	AUTUMN	32166	3RS ET	P
19-Sep-18	SWL	3	12.170	AUTUMN	32166	3RS ET	P
19-Sep-18	SWL	2	13.810	AUTUMN	32166	3RS ET	S
19-Sep-18	SWL	3	0.900	AUTUMN	32166	3RS ET	S
20-Sep-18	AW	2	4.940	AUTUMN	32166	3RS ET	P
20-Sep-18	WL	2	6.421	AUTUMN	32166	3RS ET	P
20-Sep-18	WL	3	11.471	AUTUMN	32166	3RS ET	P
20-Sep-18	WL	2	5.212	AUTUMN	32166	3RS ET	S
20-Sep-18	WL	3	6.235	AUTUMN	32166	3RS ET	S
21-Sep-18	AW	2	4.690	AUTUMN	32166	3RS ET	P
21-Sep-18	WL	2	4.136	AUTUMN	32166	3RS ET	P
21-Sep-18	WL	3	13.589	AUTUMN	32166	3RS ET	P
21-Sep-18	WL	2	2.288	AUTUMN	32166	3RS ET	S
21-Sep-18	WL	3	7.393	AUTUMN	32166	3RS ET	S
26-Sep-18	NWL	2	40.190	AUTUMN	32166	3RS ET	P
26-Sep-18	NWL	3	21.690	AUTUMN	32166	3RS ET	P
26-Sep-18	NWL	2	6.418	AUTUMN	32166	3RS ET	S
26-Sep-18	NWL	3	3.520	AUTUMN	32166	3RS ET	S
4-Oct-18	AW	2	1.010	AUTUMN	32166	3RS ET	P
4-Oct-18	AW	3	3.830	AUTUMN	32166	3RS ET	P
4-Oct-18	WL	3	16.560	AUTUMN	32166	3RS ET	P
4-Oct-18	WL	4	3.020	AUTUMN	32166	3RS ET	P
4-Oct-18	WL	2	0.740	AUTUMN	32166	3RS ET	S
4-Oct-18	WL	3	8.310	AUTUMN	32166	3RS ET	S
4-Oct-18	WL	4	1.110	AUTUMN	32166	3RS ET	S
5-Oct-18	NWL	2	9.800	AUTUMN	32166	3RS ET	P
5-Oct-18	NWL	3	37.010	AUTUMN	32166	3RS ET	P
5-Oct-18	NWL	4	15.400	AUTUMN	32166	3RS ET	P
5-Oct-18	NWL	2	1.100	AUTUMN	32166	3RS ET	S
5-Oct-18	NWL	3	8.290	AUTUMN	32166	3RS ET	S
5-Oct-18	NWL	4	1.400	AUTUMN	32166	3RS ET	S
8-Oct-18	NWL	2	45.386	AUTUMN	32166	3RS ET	P
8-Oct-18	NWL	3	14.046	AUTUMN	32166	3RS ET	P
8-Oct-18	NWL	2	10.674	AUTUMN	32166	3RS ET	S
8-Oct-18	NWL	3	1.390	AUTUMN	32166	3RS ET	S
11-Oct-18	NEL	2	15.780	AUTUMN	32166	3RS ET	P

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE	P/S
11-Oct-18	NEL	3	19.940	AUTUMN	32166	3RS ET	P
11-Oct-18	NEL	4	1.900	AUTUMN	32166	3RS ET	P
11-Oct-18	NEL	2	3.580	AUTUMN	32166	3RS ET	S
11-Oct-18	NEL	3	5.900	AUTUMN	32166	3RS ET	S
12-Oct-18	NEL	2	29.540	AUTUMN	32166	3RS ET	P
12-Oct-18	NEL	3	6.500	AUTUMN	32166	3RS ET	P
12-Oct-18	NEL	2	7.440	AUTUMN	32166	3RS ET	S
12-Oct-18	NEL	3	2.900	AUTUMN	32166	3RS ET	S
23-Oct-18	SWL	2	24.730	AUTUMN	32166	3RS ET	P
23-Oct-18	SWL	3	31.390	AUTUMN	32166	3RS ET	P
23-Oct-18	SWL	2	9.780	AUTUMN	32166	3RS ET	S
23-Oct-18	SWL	3	5.100	AUTUMN	32166	3RS ET	S
24-Oct-18	AW	2	4.710	AUTUMN	32166	3RS ET	P
24-Oct-18	WL	2	13.470	AUTUMN	32166	3RS ET	P
24-Oct-18	WL	3	4.494	AUTUMN	32166	3RS ET	P
24-Oct-18	WL	4	1.000	AUTUMN	32166	3RS ET	P
24-Oct-18	WL	2	6.760	AUTUMN	32166	3RS ET	S
24-Oct-18	WL	3	2.240	AUTUMN	32166	3RS ET	S
24-Oct-18	WL	4	0.300	AUTUMN	32166	3RS ET	S
24-Oct-18	WL	5	0.500	AUTUMN	32166	3RS ET	S
26-Oct-18	SWL	2	25.709	AUTUMN	32166	3RS ET	P
26-Oct-18	SWL	3	30.667	AUTUMN	32166	3RS ET	P
26-Oct-18	SWL	2	9.234	AUTUMN	32166	3RS ET	S
26-Oct-18	SWL	3	5.860	AUTUMN	32166	3RS ET	S

Notes: CWD monitoring survey data of the two preceding survey months (i.e. August and September 2018) are presented for reference only.

CWD Small Vessel Line-transect Survey

Sighting Data

DATE	STG #	TIME	CWD/FP	GP SZ	AREA	BEAU	PSD	EFFORT	TYPE	DEC LAT	DEC LON	SEASON	BOAT ASSOC.	P/S
2-Aug-18	1	1029	CWD	15	NWL	2	999	ON	3RS ET	22.2945	113.8705	SUMMER	NONE	P
2-Aug-18	2	1122	CWD	1	NWL	3	12	ON	3RS ET	22.2741	113.8705	SUMMER	NONE	P
2-Aug-18	3	1156	CWD	2	NWL	2	17	ON	3RS ET	22.2901	113.8786	SUMMER	NONE	P
7-Aug-18	1	1008	CWD	2	WL	1	250	ON	3RS ET	22.2920	113.8613	SUMMER	NONE	P
7-Aug-18	2	1043	CWD	5	WL	2	69	ON	3RS ET	22.2642	113.8578	SUMMER	NONE	S
7-Aug-18	3	1328	CWD	2	WL	2	524	ON	3RS ET	22.2027	113.8233	SUMMER	NONE	S
7-Aug-18	4	1344	CWD	5	WL	2	352	ON	3RS ET	22.1966	113.8411	SUMMER	NONE	P
17-Aug-18	1	1149	CWD	1	NEL	2	8	ON	3RS ET	22.3387	113.9562	SUMMER	NONE	P
21-Aug-18	1	1025	CWD	2	WL	2	22	ON	3RS ET	22.2688	113.8601	SUMMER	NONE	P
21-Aug-18	2	1052	CWD	5	WL	2	267	ON	3RS ET	22.2526	113.8343	SUMMER	NONE	S
21-Aug-18	3	1133	CWD	1	WL	2	380	ON	3RS ET	22.2417	113.8352	SUMMER	NONE	P
21-Aug-18	4	1149	CWD	1	WL	2	181	ON	3RS ET	22.2357	113.8253	SUMMER	NONE	S
21-Aug-18	5	1209	CWD	8	WL	2	93	ON	3RS ET	22.2226	113.8359	SUMMER	NONE	P
21-Aug-18	6	1241	CWD	2	WL	2	26	ON	3RS ET	22.2140	113.8291	SUMMER	NONE	P
21-Aug-18	7	1304	CWD	2	WL	2	26	ON	3RS ET	22.2055	113.8303	SUMMER	NONE	P
21-Aug-18	8	1320	CWD	5	WL	2	160	ON	3RS ET	22.2039	113.8222	SUMMER	NONE	S
21-Aug-18	9	1340	CWD	2	WL	3	162	ON	3RS ET	22.1963	113.8415	SUMMER	NONE	P
22-Aug-18	1	1439	CWD	3	SWL	2	17	ON	3RS ET	22.1860	113.8689	SUMMER	NONE	P
23-Aug-18	1	1457	CWD	1	SWL	2	161	ON	3RS ET	22.1881	113.8592	SUMMER	NONE	P
23-Aug-18	2	1522	CWD	5	SWL	2	263	ON	3RS ET	22.1842	113.8491	SUMMER	NONE	P
7-Sep-18	1	1408	FP	1	SWL	2	244	ON	3RS ET	22.1951	113.9275	AUTUMN	NONE	P
7-Sep-18	2	1425	FP	5	SWL	2	147	ON	3RS ET	22.1751	113.9282	AUTUMN	NONE	P
14-Sep-18	1	1326	CWD	1	NWL	2	38	ON	3RS ET	22.3994	113.8982	AUTUMN	NONE	P
19-Sep-18	1	1041	CWD	9	SWL	2	808	ON	3RS ET	22.1925	113.8590	AUTUMN	NONE	P
19-Sep-18	2	1112	CWD	3	SWL	2	208	ON	3RS ET	22.1937	113.8589	AUTUMN	NONE	P
19-Sep-18	3	1303	CWD	1	SWL	3	49	ON	3RS ET	22.1726	113.8970	AUTUMN	NONE	P
20-Sep-18	1	1025	CWD	5	WL	3	38	ON	3RS ET	22.2686	113.8478	AUTUMN	NONE	P
20-Sep-18	2	1047	CWD	10	WL	2	18	ON	3RS ET	22.2686	113.8526	AUTUMN	NONE	P
20-Sep-18	3	1108	CWD	1	WL	2	72	ON	3RS ET	22.2600	113.8497	AUTUMN	NONE	P
20-Sep-18	4	1135	CWD	3	WL	3	66	ON	3RS ET	22.2416	113.8462	AUTUMN	NONE	P
20-Sep-18	5	1145	CWD	2	WL	3	8	ON	3RS ET	22.2415	113.8406	AUTUMN	NONE	P
20-Sep-18	6	1250	CWD	7	WL	3	77	ON	3RS ET	22.1964	113.8414	AUTUMN	NONE	P

DATE	STG #	TIME	CWD/FP	GP SZ	AREA	BEAU	PSD	EFFORT	TYPE	DEC LAT	DEC LON	SEASON	BOAT ASSOC.	P/S
20-Sep-18	7	1317	CWD	1	WL	3	83	ON	3RS ET	22.1871	113.8399	AUTUMN	NONE	P
20-Sep-18	8	1327	CWD	2	WL	3	81	ON	3RS ET	22.1870	113.8312	AUTUMN	NONE	P
21-Sep-18	1	1026	CWD	6	WL	3	44	ON	3RS ET	22.2688	113.8523	AUTUMN	NONE	P
21-Sep-18	2	1105	CWD	2	WL	3	520	ON	3RS ET	22.2499	113.8394	AUTUMN	NONE	P
21-Sep-18	3	1142	CWD	3	WL	3	4	ON	3RS ET	22.2285	113.8377	AUTUMN	NONE	S
21-Sep-18	4	1208	CWD	6	WL	3	279	ON	3RS ET	22.2143	113.8313	AUTUMN	NONE	P
21-Sep-18	5	1237	CWD	1	WL	2	2	ON	3RS ET	22.2135	113.8351	AUTUMN	NONE	P
21-Sep-18	6	1306	CWD	4	WL	3	57	ON	3RS ET	22.1957	113.8348	AUTUMN	NONE	P
26-Sep-18	1	1030	CWD	2	NWL	2	77	ON	3RS ET	22.2832	113.8697	AUTUMN	NONE	P
26-Sep-18	2	1050	CWD	1	NWL	2	125	ON	3RS ET	22.2713	113.8721	AUTUMN	NONE	S
26-Sep-18	3	1221	CWD	1	NWL	3	387	ON	3RS ET	22.3863	113.8878	AUTUMN	NONE	P
26-Sep-18	4	1426	CWD	1	NWL	2	131	ON	3RS ET	22.3659	113.9188	AUTUMN	NONE	S
4-Oct-18	1	1104	CWD	3	WL	3	461	ON	3RS ET	22.2411	113.8415	AUTUMN	NONE	P
4-Oct-18	2	1148	CWD	1	WL	3	2	ON	3RS ET	22.2319	113.8356	AUTUMN	NONE	P
4-Oct-18	3	1210	CWD	3	WL	3	325	ON	3RS ET	22.2232	113.8283	AUTUMN	NONE	P
4-Oct-18	4	1253	CWD	2	WL	3	49	ON	3RS ET	22.2029	113.8235	AUTUMN	NONE	S
4-Oct-18	5	1314	CWD	7	WL	4	214	ON	3RS ET	22.1965	113.8380	AUTUMN	NONE	P
5-Oct-18	1	1038	CWD	3	NWL	3	182	ON	3RS ET	22.2805	113.8703	AUTUMN	NONE	P
8-Oct-18	1	0948	CWD	6	NWL	3	860	ON	3RS ET	22.3855	113.8703	AUTUMN	NONE	P
8-Oct-18	2	1201	CWD	1	NWL	2	59	ON	3RS ET	22.3717	113.8774	AUTUMN	NONE	P
8-Oct-18	3	1223	CWD	4	NWL	2	196	ON	3RS ET	22.3923	113.8781	AUTUMN	NONE	P
8-Oct-18	4	1410	CWD	1	NWL	2	116	ON	3RS ET	22.3887	113.8980	AUTUMN	NONE	P
8-Oct-18	5	1423	CWD	2	NWL	2	15	ON	3RS ET	22.3897	113.8979	AUTUMN	NONE	P
12-Oct-18	1	1210	CWD	1	NEL	2	18	ON	3RS ET	22.3219	113.9658	AUTUMN	NONE	P
24-Oct-18	1	1033	CWD	5	WL	3	264	ON	3RS ET	22.2690	113.8447	AUTUMN	NONE	S
24-Oct-18	2	1054	CWD	6	WL	3	300	ON	3RS ET	22.2690	113.8459	AUTUMN	NONE	P
26-Oct-18	1	1236	FP	1	SWL	2	55	ON	3RS ET	22.1571	113.8774	AUTUMN	NONE	S

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 (i.e. August and September 2018) are presented for reference only. No relevant figure or text will be mentioned in the 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 October 2018 encounter rates STG and ANI in the whole survey area (NEL, NWL, AW, WL, SWL):

A total of 423.870 km of survey effort was collected under Beaufort Sea State 3 or below with favourable visibility; total no. of 13 on-effort sightings and total number of 38 dolphins from on-effort sightings were collected under such condition. Calculation of the encounter rates in October 2018 are shown as below:

Encounter Rate by Number of Dolphin Sightings (STG) in October 2018

$$STG = \frac{13}{423.870} \times 100 = 3.07$$

Encounter Rate by Number of Dolphins (ANI) in October 2018

$$ANI = \frac{38}{423.870} \times 100 = 8.97$$

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

A total of 1313.155 km of survey effort was collected under Beaufort Sea State 3 or below with favourable visibility; total no. of 55 on-effort sightings and total number of 180 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)

$$STG = \frac{55}{1313.155} \times 100 = 4.19$$

Running Quarterly Encounter Rate by Number of Dolphins (ANI)

$$ANI = \frac{180}{1313.155} \times 100 = 13.71$$

CWD Small Vessel Line-transect Survey

Photo Identification

	
WLMM043_20181004_1_6	WLMM065_20181004_1_1
	
SLMM027_20181004_3_13	WLMM114_20181004_3_6
	
NLMM019_20181004_5_1	NLMM020_20181004_5_4
	
NLMM063_20181004_5_4	SLMM044_20181004_5_3

	
WLMM060_20181004_5_1	WLMM071_20181004_5_3
	
NLMM023_20181005_1_5	NLMM043_20181005_1_4
	
WLMM089_20181005_1_2	NLMM015_20181008_1_8
	
NLMM058_20181008_1_8	NLMM063_20181008_1_5

	
WLMM019_20181008_1_3	WLMM127_20181008_1_1
	
WLMM127_20181008_2_8	NLMM002_20181008_3_1
	
NLMM015_20181008_3_1	NLMM040_20181008_3_6
	
NLMM041_20181008_3_11	NLMM063_20181008_3_10

	
NLMM004_20181008_4_7	NLMM006_20181008_5_2
	
NLMM013_20181008_5_1	NLMM059_20181012_1_6
	
WLMM056_20181024_1_2	WLMM065_20181024_1_2
	
SLMM007_20181024_2_6	WLMM001_20181024_2_2

	
WLMM060_20181024_2_1	WLMM071_20181024_2_6
	
WLMM119_20181024_2_4	WLMM130_20181024_2_3_Lower

CWD Land-based Theodolite Tracking Survey**CWD Groups by Survey Date**

Date	Station	Start Time	End Time	Duration	Beaufort Range	Visibility	No. of Focal Follow Dolphin Groups Tracked	Dolphin Group Size Range
8/Oct/18	Sha Chau	8:37	14:37	6:00	2	3	0	N/A
9/Oct/18	Sha Chau	8:51	14:51	6:00	2	3	0	N/A
15/Oct/18	Lung Kwu Chau	8:47	14:47	6:00	2	2	3	1-2
22/Oct/18	Lung Kwu Chau	8:42	14:42	6:00	2	2-3	4	1-5
29/Oct/18	Lung Kwu Chau	9:22	15:22	6:00	2-3	2	4	1-7

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

Terrestrial Ecological Monitoring

Terrestrial Ecological Monitoring – location map and site photos regarding the monthly ecological monitoring for the egretty area on Sheung Sha Chau and the HDD daylighting location



Photo record of View 1



Photo record of View 2



Appendix D. Calibration Certificates



專業化驗有限公司

QUALITY PRO TEST-CONSULT LIMITED

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

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

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

REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Report No. : AH100180
Date of Issue : 26 October 2018
Page No. : 1 of 2

PART A – CUSTOMER INFORMATION

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

PART B – DESCRIPTION

Name of Equipment : YSI ProDSS (Multi-Parameters)
Manufacturer : YSI (a xylem brand)
Serial Number : 16H104234
Date of Received : Oct 26, 2018
Date of Calibration : Oct 26, 2018
Date of Next Calibration^(a) : Jan 26, 2019

PART C – REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

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

PART D – CALIBRATION RESULTS^(b,c)

(1) pH at 25°C

Target (pH unit)	Displayed Reading ^(d) (pH Unit)	Tolerance ^(e) (pH Unit)	Results
4.00	4.05	0.05	Satisfactory
7.42	7.46	0.04	Satisfactory
10.01	9.98	-0.03	Satisfactory

Tolerance of pH should be less than ± 0.10 (pH unit)

(2) Temperature

Reading of Ref. thermometer (°C)	Displayed Reading (°C)	Tolerance (°C)	Results
10.8	10.7	-0.1	Satisfactory
23.5	23.4	-0.1	Satisfactory
45.0	45.5	0.5	Satisfactory

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

- CONTINUED ON NEXT PAGE -

Remark(s): -

^(a) The "Date of Next Calibration" is recommended according to best practice principals as practiced by QPT or quoted from relevant international standards.

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

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

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

^(e) The "Tolerance Limit" mentioned is the acceptance criteria applicable for similar equipment used by QPT or quoted from relevant international standards.

APPROVED SIGNATORY:

LAM Ho-ye, Emma
Assistant Laboratory Manager



專業化驗有限公司

QUALITY PRO TEST-CONSULT LIMITED

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

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PART D – CALIBRATION RESULTS (Cont'd)

(3) Dissolved Oxygen

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)	Results
0.00	0.00	0.00	Satisfactory
1.70	1.81	0.11	Satisfactory
4.79	4.81	0.02	Satisfactory
7.70	7.74	0.04	Satisfactory

Tolerance limit of dissolved oxygen should be less than ± 0.20 (mg/L)

(4) Conductivity at 25°C

Conc. of KCl (M)	Expected Reading ($\mu\text{S}/\text{cm}$)	Displayed Reading ($\mu\text{S}/\text{cm}$)	Tolerance (%)	Results
0.001	146.9	153.0	4.2	Satisfactory
0.01	1412	1359	-3.8	Satisfactory
0.1	12890	12520	-2.9	Satisfactory
0.5	58670	57672	-1.7	Satisfactory
1.0	111900	112190	0.3	Satisfactory

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

(5) Salinity

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)	Results
10	10.11	1.1	Satisfactory
20	20.47	2.3	Satisfactory
30	30.18	0.6	Satisfactory

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

(6) Turbidity

Expected Reading (NTU)	Displayed Reading ⁽¹⁾ (NTU)	Tolerance ⁽²⁾ (%)	Results
0	0.40	--	--
10	9.80	-2.0	Satisfactory
20	19.36	-3.2	Satisfactory
100	102.34	2.3	Satisfactory
800	803.10	0.4	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.

⁽²⁾ The "Tolerance Limit" mentioned is the acceptance criteria applicable for similar equipment used by Quality Pro Test-Consult Ltd. or quoted from relevant international standards.



專業化驗有限公司

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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

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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 : 17H105557
Date of Received : Oct 26, 2018
Date of Calibration : Oct 26, 2018
Date of Next Calibration^(a) : Jan 26, 2019

PART C – REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

Parameter	Reference Method
pH at 25°C	APHA 21c 4500-H ⁺ B
Dissolved Oxygen	APHA 21c 4500-O G
Conductivity at 25°C	APHA 21c 2510 B
Salinity	APHA 21c 2520 B
Turbidity	APHA 21c 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	4.07	0.07	Satisfactory
7.42	7.42	0.00	Satisfactory
10.01	10.01	0.00	Satisfactory

Tolerance of pH should be less than ± 0.10 (pH unit)

(2) Temperature

Reading of Ref. thermometer (°C)	Displayed Reading (°C)	Tolerance (°C)	Results
10.8	10.7	-0.1	Satisfactory
23.5	23.3	-0.2	Satisfactory
45.0	45.7	0.7	Satisfactory

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

~ CONTINUED ON NEXT PAGE ~

Remark(s): -

^(a) The "Date of Next Calibration" is recommended according to best practice principals as practiced by QPT or quoted from relevant international standards.

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

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

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

^(e) The "Tolerance Limit" mentioned is the acceptance criteria applicable for similar equipment used by QPT or quoted from relevant international standards.

APPROVED SIGNATORY:


LAM Ho-ye, Emma
Assistant Laboratory Manager

**REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION**

Report No. : AH100181
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PART D – CALIBRATION RESULTS (Cont'd)**(3) Dissolved Oxygen**

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)	Results
0.00	0.00	0.00	Satisfactory
1.70	1.77	0.07	Satisfactory
4.79	4.83	0.04	Satisfactory
7.70	7.81	0.11	Satisfactory

Tolerance limit of dissolved oxygen should be less than ± 0.20 (mg/L)

(4) Conductivity at 25°C

Conc. of KCl (M)	Expected Reading ($\mu\text{S}/\text{cm}$)	Displayed Reading ($\mu\text{S}/\text{cm}$)	Tolerance (%)	Results
0.001	146.9	150.0	2.1	Satisfactory
0.01	1412	1439	1.9	Satisfactory
0.1	12890	11949	-7.3	Satisfactory
0.5	58670	58670	0.0	Satisfactory
1.0	111900	111563	-0.3	Satisfactory

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

(5) Salinity

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)	Results
10	10.13	1.3	Satisfactory
20	20.16	0.8	Satisfactory
30	30.26	0.9	Satisfactory

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

(6) Turbidity

Expected Reading (NTU)	Displayed Reading ^(a) (NTU)	Tolerance ^(a) (%)	Results
0	0.30	--	--
10	9.70	-3.0	Satisfactory
20	19.76	-1.2	Satisfactory
100	98.33	-1.7	Satisfactory
800	804.22	0.5	Satisfactory

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

~ END OF REPORT ~

Remark(s): -

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

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

Appendix E. Status of Environmental Permits and Licences

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

Contract No.	Description	Location	Permit/ Reference No.	Status
P560 (R)	Notification of Construction Work under APCO	Launching Site	423880	Receipt acknowledged by EPD on 1 Dec 2017
		Site Office	397151	Receipt acknowledged by EPD on 15 Jan 2016
		Stockpiling Area	398015	Receipt acknowledged by EPD on 18 Jan 2016
		Sheung Sha Chau	405860	Receipt acknowledged by EPD on 5 Aug 2016
	Construction Noise Permit (General Works)	Launching Site	GW-RS0326-18	Superseded by GW-RS0965-18 on 24 Oct 2018
			GW-RS0965-18	Valid until 22 Apr 2019
		Stockpiling Area	GW-RS0683-18	Valid until 3 Feb 2019
	Discharge License under WPCO	Launching Site	WT00024249-2016	Valid from to 25 Apr 2016 to 30 Apr 2021
		Stockpiling Area	WT00024250-2016	Approved on 25 Apr 2016 to 30 Apr 2021
	Registration as Chemical Waste Producer	Launching Site	WPN 5213-951-L2902-01	Registration was updated on 29 Sep 2017
		Sheung Sha Chau	WPN 5111-434-L2902-03	Registration was updated on 6 Oct 2017
		Stockpiling Area	WPN 5213-951-L2902-02	Registration was updated on 3 Oct 2016
	Bill Account for disposal		A/C 7023982	Approval granted from EPD on 14 Dec 2015
3201	Notification of Construction Work under APCO	Works area of 3201	406004	Receipt acknowledged by EPD on 10 Aug 2016
	Construction Noise Permit (General Works)	Works area of 3201	GW-RS0761-18	Valid until 28 Feb 2019
	Registration as Chemical Waste Producer	Works area of 3201	WPN 5213-951-P3231-01	Completion of Registration on 9 Sep 2016
	Bill Account for disposal		A/C 7025760	Approval granted from EPD on 31 Aug 2016
3202	Notification of Construction Work under APCO	Works area of 3202	437501	Receipt acknowledged by EPD on 17 Sep 2018
	Construction Noise Permit (General Works)	Works area of 3202	GW-RS0429-18	Valid until 24 Nov 2018

Contract No.	Description	Location	Permit/ Reference No.	Status
3203	Registration as Chemical Waste Producer	Works area of 3202	WPN 5213-951-S3967-01	Registration was updated on 23 May 2017
	Discharge License under WPCO	Works area of 3202	WT00028293-2017	Valid from 12 Jun 2017 to 30 Jun 2022
	Bill Account for disposal		A/C 7025739	Approval granted from EPD on 31 August 2016
	Notification of Construction Work under APCO	Works area of 3203	407053	Receipt acknowledged by EPD on 2 Sep 2016
	Construction Noise Permit (General Works)	Works area of 3203	GW-RS0819-18	Superseded by GW-RS0949-18 on 20 Oct 2018
			GW-RS0949-18	Valid until 19 Apr 2019
	Registration as Chemical Waste Producer	Works area of 3203	WPN 5213-951-S3954-01	Registration was updated on 12 Dec 2016
3204	Discharge License under WPCO	Works area of 3203	WT00028251-2017	Valid from 9 Jun 2017 to 30 Jun 2022
	Bill Account for disposal		A/C 7025846	Approval granted from EPD on 9 Sep 2016
	Notification of Construction Work under APCO	Works area of 3204	406446	Receipt acknowledged by EPD on 19 Aug 2016
	Construction Noise Permit (General Works)	Works Area of 3204	GW-RS0431-18	Valid until 24 Nov 2018
	Registration as Chemical Waste Producer	Works Area of 3204	WPN 5213-951-C4102-01	Completion of Registration on 15 Sep 2016
		Site Office of 3204	WPN 5213-951-C4102-02	Completion of Registration on 17 Mar 2017
	Discharge License under WPCO	Works area of 3204	WT00028245-2017	Valid from 5 Jun 2017 to 30 Jun 2022
3205	Bill Account for disposal		A/C 7025969	Approval granted from EPD on 21 Sep 2016
	Notification of Construction Work under APCO	Works area of 3205	409041	Receipt acknowledged by EPD on 19 Oct 2016
	Registration as Chemical Waste Producer	Works Area of 3205	WPN 5213-951-B2502-01	Registration was updated on 25 Sep 2017
		Works Area of 3205	WPN 5111-421-B2509-01	Registration was updated on 25 Sep 2017
	Construction Noise Permit (General Works)	Works Area of 3205	GW-RS0950-18	Valid until 19 Apr 2019
	Discharge License under WPCO	Works area of 3205	WT00028370-2017	Valid from 21 Jun 2017 to 30 Jun 2022
	Bill Account for disposal	Works area of 3205	A/C 7026295	Approval granted from EPD on 9 Nov 2016
3206	Notification of Construction Work under APCO	Works area of 3206	409237	Receipt acknowledged by EPD on 25 Oct 2016
	Registration as Chemical Waste Producer	Site office of 3206	WPN 5213-951-Z4035-01	Completion of Registration on 18 Nov 2016

Contract No.	Description	Location	Permit/ Reference No.	Status
3301		Works area of 3206	WPN 5213-951-Z4035-02	Completion of Registration on 18 Nov 2016
	Construction Noise Permit (General Works)	Works Area of 3206	GW-RS0596-18	Valid until 10 Jan 2019
			GW-RS0821-18	Superseded by GW-RS0951-18 on 20 Oct 2018
			GW-RS0951-18	Valid until 15 Apr 2019
	Bill Account for disposal	Works area of 3206	A/C 7026398	Approval granted from EPD on 16 Nov 2016
	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
	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 (Cable ducting works)	GW-RS0270-18	Valid until 5 Oct 2018
			GW-RS0923-18	Valid from 15 Oct 2018 to 11 Apr 2019
			GW-RS0288-17	Valid until 5 Oct 2018
			GW-RS0856-18	Effective from 6 Oct 2018 Superseded by GW-RS0937-18 on 15 Oct 2018
			GW-RS0937-18	Valid until 11 Apr 2019
3501	Notification of Construction Work under APCO	Works area of 3501	434640	Receipt acknowledged by EPD on 13 Jun 2018
	Registration as Chemical Waste Producer	Works area of 3501	WPN 5213-951-B2520-02	Completion of Registration on 25 Jul 2017
	Discharge License under WPCO	Works area of 3501	WT00031400-2018	Valid from 30 Aug 2018 to 31 Aug 2023
	Bill Account for disposal	Works area of 3501	A/C 7028144	Approval granted from EPD on 23 Jun 2017
	Construction Noise Permit (General Works)	Works area of 3501	GW-RS0541-18	Valid until 31 Oct 2018
3502	Notification of Construction Work under APCO	Works area of 3502	417511	Receipt acknowledged by EPD on 2 Jun 2017
	Registration as Chemical Waste Producer	Works area of 3502	WPN 5213-951-B2520-01	Completion of Registration on 3 Jul 2017
	Bill Account for disposal	Works area of 3502	A/C 7028050	Approval granted from EPD on 21 Jun 2017
	Construction Noise Permit (General Works)	Works area of 3502	GW-RS0845-18	Valid until 10 Mar 2019

Contract No.	Description	Location	Permit/ Reference No.	Status
3503	Notification of Construction Work under APCO	Works area of 3503	435180	Receipt acknowledged by EPD on 29 Jun 2018
	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
	Bill Account for disposal	Works area of 3503	A/C 7029665	Approval granted from EPD on 27 Dec 2017
	Construction Noise Permit (General Works)	Works area of 3503	GW-RS0822-18	Superseded by GW-RS0940-18 on 16 Oct 2018
			GW-RS0940-18	Valid until 10 Apr 2019
		Stockpiling area of 3503	GW-RS0384-18	Valid until 13 Nov 2018
3505	Bill Account for disposal	Works area of 3505	A/C 7030321	Approval granted from EPD on 16 Mar 2018
	Construction Noise Permit (General Works)	Works area of 3505	GW-RS0497-18	Valid until 31 Oct 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 Producer	Works area of 3602	WPN 5296-951-N2673-01	Completion of Registration on 9 Oct 2017
		Site office of 3602	WPN 5296-951-N2673-02	Completion of Registration on 11 Dec 2017
	Bill Account for disposal	Works area of 3602	A/C 7028942	Approval granted from EPD on 6 Oct 2017
3603	Notification of Construction Work under APCO	Site office of 3603	433604	Receipt acknowledged by EPD on 16 May 2018
	Registration as Chemical Waste Producer	Works area of 3603	WPN 5296-951-S4069-01	Completion of Registration on 22 Jan 2018
	Bill Account for disposal	Works area of 3603	A/C 7030002	Approval granted from EPD on 1 Feb 2018
	Construction Noise Permit (General Works)	Works area of 3603	GW-RS0771-18	Superseded by GW-RS0975-18 on 26 Oct 2018
			GW-RS0975-18	Valid until 25 Apr 2019
3801	Notification of Construction Work under APCO	Works area of 3801	418345	Receipt acknowledged by EPD on 26 Jun 2017
			430372	Receipt acknowledged by EPD on 2 Feb 2018
			435652	Receipt acknowledged by EPD on 16 Jul 2018
	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

Contract No.	Description	Location	Permit/ Reference No.	Status
	Construction Noise Permit (General Works)	Works and stockpiling area of 3801	GW-RS0783-18	Valid until 28 Feb 2019
		Works area of 3801	GW-RS0781-18	Valid until 31 Oct 2018

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

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

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

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

Statistics for Complaints, Notifications of Summons and Prosecution

Reporting Period	Cumulative Statistics		
	Complaints	Notifications of Summons	Prosecutions
This reporting period	0	0	0
From 28 December 2015 to end of the reporting period	15	1	1

Appendix G. Data of SkyPier HSF Movements to/from Zhuhai and Macau (between 1 and 31 October 2018)

Data of SkyPier HSF Movements to/from Zhuhai and Macau (between 1 and 31 October 2018)

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [XZM - Macao (Maritime Ferry Terminal) YFT - Macao (Taipa) ZUI - Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
01-Oct	08:21	8S210	XZM	Arrival	12.3	-	-
01-Oct	08:21	3A061	YFT	Arrival	12.3	-	-
01-Oct	10:01	3A062	YFT	Arrival	12.3	-	-
01-Oct	10:18	3A163	YFT	Departure	12.4	-	-
01-Oct	10:43	8S212	XZM	Arrival	12.1	-	-
01-Oct	10:52	3A081	ZUI	Arrival	12.2	-	-
01-Oct	11:05	8S121	XZM	Departure	11.7	-	-
01-Oct	11:19	3A063	YFT	Arrival	11.3	-	-
01-Oct	12:24	3A168	YFT	Departure	12.2	-	-
01-Oct	12:31	3A181	ZUI	Departure	13	-	-
01-Oct	12:49	8S215	XZM	Arrival	12	-	-
01-Oct	12:55	3A064	YFT	Arrival	11.9	-	-
01-Oct	13:17	8S123	XZM	Departure	12.6	-	-
01-Oct	13:51	3A082	ZUI	Arrival	12.4	-	-
01-Oct	14:13	3A164	YFT	Departure	12.4	-	-
01-Oct	14:15	3A182	ZUI	Departure	13.3	-	-
01-Oct	14:55	3A065	YFT	Arrival	12.8	-	-
01-Oct	16:20	3A167	YFT	Departure	11.8	-	-
01-Oct	16:37	8S218	XZM	Arrival	12.5	-	-
01-Oct	16:52	3A083	ZUI	Arrival	13.3	-	-
01-Oct	16:57	3A067	YFT	Arrival	12.6	-	-
01-Oct	17:10	3A183	ZUI	Departure	12.4	-	-
01-Oct	17:11	8S126	XZM	Departure	12.7	-	-
01-Oct	19:06	3A166	YFT	Departure	12.3	-	-
01-Oct	19:41	3A084	ZUI	Arrival	12.6	-	-
01-Oct	20:19	3A185	ZUI	Departure	12.5	-	-
01-Oct	20:56	8S2113	XZM	Arrival	11.9	-	-
01-Oct	21:05	3A169	YFT	Departure	11.9	-	-
01-Oct	21:55	8S522	XZM	Departure	13.1	-	-
02-Oct	08:15	3A061	YFT	Arrival	12	-	-
02-Oct	08:22	8S210	XZM	Arrival	12.4	-	-
02-Oct	10:03	3A062	YFT	Arrival	12	-	-
02-Oct	10:20	3A163	YFT	Departure	11.3	-	-
02-Oct	10:39	8S212	XZM	Arrival	11.6	-	-
02-Oct	10:54	3A081	ZUI	Arrival	11.4	-	-
02-Oct	11:15	8S121	XZM	Departure	11.9	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [XZM - Macao (Maritime Ferry Terminal) YFT - Macao (Taipa) ZUI - Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
02-Oct	11:24	3A063	YFT	Arrival	10.9	-	-
02-Oct	12:24	3A168	YFT	Departure	11.6	-	-
02-Oct	12:25	3A181	ZUI	Departure	13.6	-	-
02-Oct	12:46	8S215	XZM	Arrival	11.8	-	-
02-Oct	13:08	3A064	YFT	Arrival	12.3	-	-
02-Oct	13:14	8S123	XZM	Departure	12.5	-	-
02-Oct	13:46	3A082	ZUI	Arrival	12.6	-	-
02-Oct	14:17	3A164	YFT	Departure	12.8	-	-
02-Oct	14:20	3A182	ZUI	Departure	11.9	-	-
02-Oct	14:59	3A065	YFT	Arrival	11.9	-	-
02-Oct	16:12	3A167	YFT	Departure	12.2	-	-
02-Oct	16:39	8S218	XZM	Arrival	11.3	-	-
02-Oct	16:43	3A083	ZUI	Arrival	13	-	-
02-Oct	16:54	3A067	YFT	Arrival	12.7	-	-
02-Oct	17:03	3A183	ZUI	Departure	13.1	-	-
02-Oct	17:08	8S126	XZM	Departure	12.9	-	-
02-Oct	19:07	3A166	YFT	Departure	12.8	-	-
02-Oct	19:50	3A084	ZUI	Arrival	13.5	-	-
02-Oct	20:18	3A185	ZUI	Departure	13.1	-	-
02-Oct	20:51	8S2113	XZM	Arrival	12.1	-	-
02-Oct	21:04	3A169	YFT	Departure	13.3	-	-
02-Oct	22:00	8S522	XZM	Departure	12.7	-	-
03-Oct	08:16	3A061	YFT	Arrival	12.6	-	-
03-Oct	08:17	8S210	XZM	Arrival	12.7	-	-
03-Oct	09:55	3A062	YFT	Arrival	12.2	-	-
03-Oct	10:17	3A163	YFT	Departure	12.4	-	-
03-Oct	10:39	8S212	XZM	Arrival	11.9	-	-
03-Oct	10:49	3A081	ZUI	Arrival	12.9	-	-
03-Oct	11:06	8S121	XZM	Departure	12	-	-
03-Oct	11:17	3A063	YFT	Arrival	12.2	<= 5	< 1min
03-Oct	12:11	3A168	YFT	Departure	10.7	-	-
03-Oct	12:13	3A181	ZUI	Departure	12.6	-	-
03-Oct	12:45	8S215	XZM	Arrival	12.7	-	-
03-Oct	12:53	3A064	YFT	Arrival	12.2	-	-
03-Oct	13:11	8S123	XZM	Departure	11.9	-	-
03-Oct	13:42	3A082	ZUI	Arrival	13	-	-
03-Oct	14:11	3A164	YFT	Departure	11.9	-	-
03-Oct	14:16	3A182	ZUI	Departure	12.8	-	-
03-Oct	14:59	3A065	YFT	Arrival	10.8	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [XZM - Macao (Maritime Ferry Terminal) YFT - Macao (Taipa) ZUI - Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
03-Oct	16:14	3A167	YFT	Departure	11.1	-	-
03-Oct	16:42	8S218	XZM	Arrival	11.1	-	-
03-Oct	16:49	3A083	ZUI	Arrival	12.8	-	-
03-Oct	16:51	3A067	YFT	Arrival	12.6	-	-
03-Oct	17:15	8S126	XZM	Departure	12.7	-	-
03-Oct	17:19	3A183	ZUI	Departure	13.3	-	-
03-Oct	19:01	3A166	YFT	Departure	12.6	-	-
03-Oct	20:01	3A084	ZUI	Arrival	12.8	-	-
03-Oct	20:14	3A185	ZUI	Departure	13	-	-
03-Oct	20:55	8S2113	XZM	Arrival	11.7	-	-
03-Oct	21:08	3A169	YFT	Departure	12.8	-	-
03-Oct	21:53	8S522	XZM	Departure	12.9	-	-
04-Oct	08:15	3A061	YFT	Arrival	11.9	-	-
04-Oct	08:20	8S210	XZM	Arrival	12.4	-	-
04-Oct	09:50	3A062	YFT	Arrival	12.2	-	-
04-Oct	10:24	3A163	YFT	Departure	11.2	-	-
04-Oct	10:35	8S212	XZM	Arrival	12.7	-	-
04-Oct	10:51	3A081	ZUI	Arrival	13.1	-	-
04-Oct	11:06	8S121	XZM	Departure	11.8	-	-
04-Oct	11:13	3A063	YFT	Arrival	12.5	-	-
04-Oct	12:14	3A181	ZUI	Departure	12.3	-	-
04-Oct	12:19	3A168	YFT	Departure	12.7	-	-
04-Oct	12:42	8S215	XZM	Arrival	12.8	-	-
04-Oct	13:12	3A064	YFT	Arrival	11.5	-	-
04-Oct	13:16	8S123	XZM	Departure	13	-	-
04-Oct	13:42	3A082	ZUI	Arrival	13.2	-	-
04-Oct	14:16	3A164	YFT	Departure	11.4	-	-
04-Oct	14:21	3A182	ZUI	Departure	13	-	-
04-Oct	14:53	3A065	YFT	Arrival	12.8	-	-
04-Oct	16:22	3A167	YFT	Departure	12.7	-	-
04-Oct	16:41	3A083	ZUI	Arrival	12.7	-	-
04-Oct	16:44	8S218	XZM	Arrival	11.2	-	-
04-Oct	16:52	3A067	YFT	Arrival	12.3	-	-
04-Oct	17:13	3A183	ZUI	Departure	13.5	-	-
04-Oct	17:19	8S126	XZM	Departure	13.3	-	-
04-Oct	19:02	3A166	YFT	Departure	12.3	-	-
04-Oct	19:57	3A084	ZUI	Arrival	13.3	-	-
04-Oct	20:12	3A185	ZUI	Departure	12.9	-	-
04-Oct	20:51	8S2113	XZM	Arrival	11.9	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [XZM - Macao (Maritime Ferry Terminal) YFT - Macao (Taipa) ZUI - Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
04-Oct	21:02	3A169	YFT	Departure	13.1	-	-
04-Oct	22:07	8S522	XZM	Departure	11	-	-
05-Oct	08:13	3A061	YFT	Arrival	12.7	-	-
05-Oct	08:15	8S210	XZM	Arrival	12.9	-	-
05-Oct	09:58	3A062	YFT	Arrival	12.6	-	-
05-Oct	10:18	3A163	YFT	Departure	12.3	-	-
05-Oct	10:37	8S212	XZM	Arrival	11.7	-	-
05-Oct	10:55	3A081	ZUI	Arrival	12.8	-	-
05-Oct	11:05	8S121	XZM	Departure	12.5	-	-
05-Oct	11:12	3A063	YFT	Arrival	12.2	-	-
05-Oct	12:18	3A168	YFT	Departure	12.3	-	-
05-Oct	12:20	3A181	ZUI	Departure	12	-	-
05-Oct	12:46	8S215	XZM	Arrival	11.4	-	-
05-Oct	12:59	3A064	YFT	Arrival	12.3	-	-
05-Oct	13:12	8S123	XZM	Departure	10	-	-
05-Oct	13:55	3A082	ZUI	Arrival	12.5	-	-
05-Oct	14:12	3A164	YFT	Departure	12.4	-	-
05-Oct	14:13	3A182	ZUI	Departure	13.5	-	-
05-Oct	14:54	3A065	YFT	Arrival	12.2	-	-
05-Oct	16:21	3A167	YFT	Departure	12	-	-
05-Oct	16:45	8S218	XZM	Arrival	11.2	-	-
05-Oct	16:51	3A083	ZUI	Arrival	12.7	-	-
05-Oct	16:59	3A067	YFT	Arrival	12.3	-	-
05-Oct	17:08	8S126	XZM	Departure	10.9	-	-
05-Oct	17:15	3A183	ZUI	Departure	13.5	-	-
05-Oct	19:03	3A166	YFT	Departure	12.3	-	-
05-Oct	19:50	3A084	ZUI	Arrival	12	-	-
05-Oct	20:21	3A185	ZUI	Departure	13.3	-	-
05-Oct	20:58	8S2113	XZM	Arrival	13	-	-
05-Oct	21:09	3A169	YFT	Departure	12	-	-
05-Oct	22:04	8S522	XZM	Departure	12.8	-	-
06-Oct	08:18	3A061	YFT	Arrival	11.9	-	-
06-Oct	08:22	8S210	XZM	Arrival	11.5	-	-
06-Oct	10:16	3A062	YFT	Arrival	12.9	-	-
06-Oct	10:51	3A163	YFT	Departure	13.6	-	-
06-Oct	10:52	8S212	XZM	Arrival	12.8	-	-
06-Oct	11:05	3A081	ZUI	Arrival	13.6	-	-
06-Oct	11:23	3A063	YFT	Arrival	11.2	-	-
06-Oct	11:32	8S121	XZM	Departure	12.9	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [XZM - Macao (Maritime Ferry Terminal) YFT - Macao (Taipa) ZUI - Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
06-Oct	12:44	3A168	YFT	Departure	12.1	-	-
06-Oct	12:49	3A181	ZUI	Departure	11.7	-	-
06-Oct	13:05	8S215	XZM	Arrival	12.5	-	-
06-Oct	13:10	3A064	YFT	Arrival	12.9	-	-
06-Oct	13:31	8S123	XZM	Departure	11.4	-	-
06-Oct	13:45	3A082	ZUI	Arrival	11.6	-	-
06-Oct	14:38	3A164	YFT	Departure	13.4	-	-
06-Oct	14:42	3A182	ZUI	Departure	12.3	-	-
06-Oct	15:07	3A065	YFT	Arrival	11.6	-	-
06-Oct	16:34	8S218	XZM	Arrival	11.2	-	-
06-Oct	16:42	3A083	ZUI	Arrival	12.7	-	-
06-Oct	16:57	3A167	YFT	Departure	12.2	-	-
06-Oct	17:13	3A067	YFT	Arrival	12.3	-	-
06-Oct	17:39	8S126	XZM	Departure	13.3	-	-
06-Oct	18:11	3A183	ZUI	Departure	12	-	-
06-Oct	19:35	3A166	YFT	Departure	12	-	-
06-Oct	20:05	3A084	ZUI	Arrival	12.9	-	-
06-Oct	21:09	8S2113	XZM	Arrival	12	-	-
06-Oct	21:46	3A185	ZUI	Departure	12.4	-	-
06-Oct	23:28	3A169	YFT	Departure	13.2	-	-
07-Oct	00:04	8S522	XZM	Departure	12.2	-	-
07-Oct	08:13	3A061	YFT	Arrival	12.6	-	-
07-Oct	08:21	8S210	XZM	Arrival	12.9	-	-
07-Oct	09:49	3A062	YFT	Arrival	12.3	-	-
07-Oct	10:47	8S212	XZM	Arrival	13.3	-	-
07-Oct	10:51	3A163	YFT	Departure	12.4	-	-
07-Oct	10:52	3A081	ZUI	Arrival	13.7	-	-
07-Oct	11:17	3A063	YFT	Arrival	12.5	-	-
07-Oct	11:45	8S121	XZM	Departure	10.6	-	-
07-Oct	12:38	3A168	YFT	Departure	12.4	-	-
07-Oct	12:43	3A181	ZUI	Departure	11.7	-	-
07-Oct	12:54	8S215	XZM	Arrival	12.9	-	-
07-Oct	13:22	3A064	YFT	Arrival	12.7	-	-
07-Oct	13:45	8S123	XZM	Departure	11.4	-	-
07-Oct	13:45	3A082	ZUI	Arrival	12.8	-	-
07-Oct	14:32	3A164	YFT	Departure	12.2	-	-
07-Oct	14:36	3A182	ZUI	Departure	12.8	-	-
07-Oct	15:03	3A065	YFT	Arrival	12.1	-	-
07-Oct	16:27	8S218	XZM	Arrival	12.4	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [XZM - Macao (Maritime Ferry Terminal) YFT - Macao (Taipa) ZUI - Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
07-Oct	16:37	3A083	ZUI	Arrival	12.5	-	-
07-Oct	16:49	3A167	YFT	Departure	12.7	-	-
07-Oct	17:25	3A067	YFT	Arrival	12.3	-	-
07-Oct	18:03	3A183	ZUI	Departure	12.6	-	-
07-Oct	18:21	8S126	XZM	Departure	11.8	-	-
07-Oct	19:32	3A166	YFT	Departure	12.6	-	-
07-Oct	19:37	3A084	ZUI	Arrival	11.5	-	-
07-Oct	21:05	3A185	ZUI	Departure	12.1	-	-
07-Oct	21:05	8S2113	XZM	Arrival	11.3	-	-
07-Oct	22:07	3A169	YFT	Departure	13.3	-	-
08-Oct	08:10	3A061	YFT	Arrival	12.4	-	-
08-Oct	08:20	8S210	XZM	Arrival	11.6	-	-
08-Oct	10:02	3A062	YFT	Arrival	12.6	-	-
08-Oct	10:59	3A081	ZUI	Arrival	11.8	-	-
08-Oct	11:00	3A163	YFT	Departure	12.4	-	-
08-Oct	11:07	8S212	XZM	Arrival	12.6	-	-
08-Oct	11:19	3A063	YFT	Arrival	12.7	-	-
08-Oct	11:36	8S121	XZM	Departure	12.9	-	-
08-Oct	12:44	3A168	YFT	Departure	13	-	-
08-Oct	12:45	3A181	ZUI	Departure	12.4	-	-
08-Oct	13:13	8S215	XZM	Arrival	11.7	-	-
08-Oct	13:21	3A064	YFT	Arrival	13	-	-
08-Oct	13:41	3A082	ZUI	Arrival	12.4	-	-
08-Oct	13:53	8S123	XZM	Departure	10.7	-	-
08-Oct	14:48	3A164	YFT	Departure	12.8	-	-
08-Oct	15:04	3A182	ZUI	Departure	12	-	-
08-Oct	15:14	3A065	YFT	Arrival	12	-	-
08-Oct	16:50	3A167	YFT	Departure	13.3	-	-
08-Oct	17:06	8S218	XZM	Arrival	11.8	-	-
08-Oct	17:06	3A083	ZUI	Arrival	12.9	-	-
08-Oct	17:22	3A067	YFT	Arrival	11.9	-	-
08-Oct	17:50	3A183	ZUI	Departure	13.6	-	-
08-Oct	18:14	8S126	XZM	Departure	11.9	-	-
08-Oct	19:57	3A166	YFT	Departure	12.9	-	-
08-Oct	20:04	3A084	ZUI	Arrival	11.6	-	-
08-Oct	20:53	3A185	ZUI	Departure	12.5	-	-
08-Oct	20:59	8S2113	XZM	Arrival	11.3	-	-
08-Oct	21:31	3A169	YFT	Departure	12.3	-	-
09-Oct	08:13	3A061	YFT	Arrival	11.7	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [XZM - Macao (Maritime Ferry Terminal) YFT - Macao (Taipa) ZUI - Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
09-Oct	08:20	8S210	XZM	Arrival	11.5	-	-
09-Oct	10:26	3A062	YFT	Arrival	12.1	-	-
09-Oct	10:40	3A163	YFT	Departure	12.4	-	-
09-Oct	10:45	3A081	ZUI	Arrival	13.4	-	-
09-Oct	10:48	8S212	XZM	Arrival	12.4	-	-
09-Oct	11:08	8S121	XZM	Departure	13.1	-	-
09-Oct	11:19	3A063	YFT	Arrival	11.6	-	-
09-Oct	12:28	3A168	YFT	Departure	11.6	-	-
09-Oct	12:35	3A181	ZUI	Departure	12	-	-
09-Oct	12:54	8S215	XZM	Arrival	13	-	-
09-Oct	13:08	3A064	YFT	Arrival	12.5	-	-
09-Oct	13:34	8S123	XZM	Departure	12.9	-	-
09-Oct	13:45	3A082	ZUI	Arrival	12.9	-	-
09-Oct	14:24	3A182	ZUI	Departure	12.5	-	-
09-Oct	14:28	3A164	YFT	Departure	11.1	-	-
09-Oct	15:03	3A065	YFT	Arrival	12.1	-	-
09-Oct	16:28	3A167	YFT	Departure	11.4	-	-
09-Oct	16:59	8S218	XZM	Arrival	11.2	-	-
09-Oct	17:04	3A083	ZUI	Arrival	13	-	-
09-Oct	17:05	3A067	YFT	Arrival	12.2	-	-
09-Oct	17:24	3A183	ZUI	Departure	13.1	-	-
09-Oct	17:34	8S126	XZM	Departure	11.5	-	-
09-Oct	19:12	3A166	YFT	Departure	12.9	-	-
09-Oct	20:07	3A084	ZUI	Arrival	12.4	-	-
09-Oct	20:42	3A185	ZUI	Departure	13.6	-	-
09-Oct	21:01	8S2113	XZM	Arrival	11.3	-	-
09-Oct	21:13	3A169	YFT	Departure	13.3	-	-
10-Oct	08:16	3A061	YFT	Arrival	12.1	-	-
10-Oct	08:20	8S210	XZM	Arrival	11.1	-	-
10-Oct	09:53	3A062	YFT	Arrival	12.7	-	-
10-Oct	10:30	3A163	YFT	Departure	12.5	-	-
10-Oct	10:46	3A081	ZUI	Arrival	13	-	-
10-Oct	10:46	8S212	XZM	Arrival	12.4	-	-
10-Oct	11:10	8S121	XZM	Departure	10.8	-	-
10-Oct	11:16	3A063	YFT	Arrival	13	-	-
10-Oct	12:19	3A168	YFT	Departure	12.9	-	-
10-Oct	12:23	3A181	ZUI	Departure	12.2	-	-
10-Oct	12:38	8S215	XZM	Arrival	12	-	-
10-Oct	12:55	3A064	YFT	Arrival	12.6	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [XZM - Macao (Maritime Ferry Terminal) YFT - Macao (Taipa) ZUI - Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
10-Oct	13:30	8S123	XZM	Departure	13.4	-	-
10-Oct	13:40	3A082	ZUI	Arrival	12.2	-	-
10-Oct	14:17	3A164	YFT	Departure	11.9	-	-
10-Oct	14:20	3A182	ZUI	Departure	11.9	-	-
10-Oct	14:56	3A065	YFT	Arrival	12.9	-	-
10-Oct	16:25	3A167	YFT	Departure	12.5	-	-
10-Oct	16:53	3A083	ZUI	Arrival	13.3	-	-
10-Oct	16:56	8S218	XZM	Arrival	11.5	-	-
10-Oct	17:07	3A067	YFT	Arrival	12	-	-
10-Oct	17:26	3A183	ZUI	Departure	13.1	-	-
10-Oct	17:32	8S126	XZM	Departure	13.4	-	-
10-Oct	19:06	3A166	YFT	Departure	12.3	-	-
10-Oct	20:05	3A084	ZUI	Arrival	12.8	-	-
10-Oct	20:21	3A185	ZUI	Departure	13.6	-	-
10-Oct	21:08	8S2113	XZM	Arrival	12.6	-	-
10-Oct	21:32	3A169	YFT	Departure	13.4	-	-
10-Oct	22:02	8S522	XZM	Departure	12.9	-	-
11-Oct	08:14	3A061	YFT	Arrival	11.1	-	-
11-Oct	08:17	8S210	XZM	Arrival	11.8	-	-
11-Oct	10:04	3A062	YFT	Arrival	11	-	-
11-Oct	10:19	3A163	YFT	Departure	11.5	-	-
11-Oct	10:38	8S212	XZM	Arrival	12	-	-
11-Oct	10:45	3A081	ZUI	Arrival	12.8	-	-
11-Oct	11:07	8S121	XZM	Departure	11.7	-	-
11-Oct	11:15	3A063	YFT	Arrival	11.9	-	-
11-Oct	12:21	3A168	YFT	Departure	10.8	-	-
11-Oct	12:25	3A181	ZUI	Departure	12.9	-	-
11-Oct	12:49	3A064	YFT	Arrival	13	-	-
11-Oct	12:52	8S215	XZM	Arrival	10.4	-	-
11-Oct	13:24	8S123	XZM	Departure	12.6	-	-
11-Oct	13:45	3A082	ZUI	Arrival	12.9	-	-
11-Oct	14:18	3A164	YFT	Departure	13.1	-	-
11-Oct	14:20	3A182	ZUI	Departure	11.9	-	-
11-Oct	15:00	3A065	YFT	Arrival	11.6	-	-
11-Oct	16:23	3A167	YFT	Departure	12.5	-	-
11-Oct	16:35	8S218	XZM	Arrival	10.8	-	-
11-Oct	16:47	3A083	ZUI	Arrival	12.9	-	-
11-Oct	17:03	3A067	YFT	Arrival	13	-	-
11-Oct	17:12	3A183	ZUI	Departure	12.8	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [XZM - Macao (Maritime Ferry Terminal) YFT - Macao (Taipa) ZUI - Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
11-Oct	17:19	8S126	XZM	Departure	12.1	-	-
11-Oct	19:13	3A166	YFT	Departure	12.5	-	-
11-Oct	19:53	3A084	ZUI	Arrival	12.3	-	-
11-Oct	20:37	3A185	ZUI	Departure	13.7	-	-
11-Oct	21:07	8S2113	XZM	Arrival	11.5	-	-
11-Oct	21:15	3A169	YFT	Departure	12.7	-	-
11-Oct	22:05	8S522	XZM	Departure	12.6	-	-
12-Oct	08:17	3A061	YFT	Arrival	11.4	-	-
12-Oct	08:20	8S210	XZM	Arrival	11.9	-	-
12-Oct	10:03	3A062	YFT	Arrival	12.2	-	-
12-Oct	10:27	3A163	YFT	Departure	12.6	-	-
12-Oct	10:41	8S212	XZM	Arrival	11.3	-	-
12-Oct	10:50	3A081	ZUI	Arrival	12.5	-	-
12-Oct	11:10	8S121	XZM	Departure	12.1	-	-
12-Oct	11:19	3A063	YFT	Arrival	11.7	-	-
12-Oct	12:29	3A168	YFT	Departure	13	-	-
12-Oct	12:35	3A181	ZUI	Departure	13.4	-	-
12-Oct	12:43	8S215	XZM	Arrival	11.8	-	-
12-Oct	12:59	3A064	YFT	Arrival	12	-	-
12-Oct	13:24	8S123	XZM	Departure	12.8	-	-
12-Oct	13:43	3A082	ZUI	Arrival	13	-	-
12-Oct	14:17	3A164	YFT	Departure	13.5	-	-
12-Oct	14:20	3A182	ZUI	Departure	13	-	-
12-Oct	15:02	3A065	YFT	Arrival	12.7	-	-
12-Oct	16:17	3A167	YFT	Departure	12.8	-	-
12-Oct	16:37	8S218	XZM	Arrival	12.5	-	-
12-Oct	16:43	3A083	ZUI	Arrival	13.3	-	-
12-Oct	16:51	3A067	YFT	Arrival	12.2	-	-
12-Oct	17:08	3A183	ZUI	Departure	12.6	-	-
12-Oct	17:11	8S126	XZM	Departure	12.7	-	-
12-Oct	19:15	3A166	YFT	Departure	13	-	-
12-Oct	19:56	3A084	ZUI	Arrival	12.4	-	-
12-Oct	20:15	3A185	ZUI	Departure	13.5	-	-
12-Oct	21:00	8S2113	XZM	Arrival	12.3	-	-
12-Oct	21:06	3A169	YFT	Departure	12.8	-	-
13-Oct	08:16	3A061	YFT	Arrival	11.6	-	-
13-Oct	08:19	8S210	XZM	Arrival	11.5	-	-
13-Oct	10:07	3A062	YFT	Arrival	12	-	-
13-Oct	10:29	3A163	YFT	Departure	11.9	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [XZM - Macao (Maritime Ferry Terminal) YFT - Macao (Taipa) ZUI - Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
13-Oct	10:42	8S212	XZM	Arrival	12.5	-	-
13-Oct	10:47	3A081	ZUI	Arrival	12.6	-	-
13-Oct	11:10	8S121	XZM	Departure	12.7	-	-
13-Oct	11:14	3A063	YFT	Arrival	12.7	-	-
13-Oct	12:13	3A168	YFT	Departure	13.4	-	-
13-Oct	12:15	3A181	ZUI	Departure	13.7	-	-
13-Oct	12:47	8S215	XZM	Arrival	11.1	-	-
13-Oct	13:13	3A064	YFT	Arrival	12.6	-	-
13-Oct	13:19	8S123	XZM	Departure	12.3	-	-
13-Oct	13:39	3A082	ZUI	Arrival	13	-	-
13-Oct	14:19	3A164	YFT	Departure	12.5	-	-
13-Oct	14:22	3A182	ZUI	Departure	13	-	-
13-Oct	14:50	3A065	YFT	Arrival	12.4	-	-
13-Oct	16:14	3A167	YFT	Departure	13.2	-	-
13-Oct	16:40	8S218	XZM	Arrival	11.2	-	-
13-Oct	16:41	3A083	ZUI	Arrival	12.6	-	-
13-Oct	16:51	3A067	YFT	Arrival	12.7	-	-
13-Oct	17:17	8S126	XZM	Departure	13	-	-
13-Oct	17:23	3A183	ZUI	Departure	12.9	-	-
13-Oct	19:19	3A166	YFT	Departure	13.9	-	-
13-Oct	19:54	3A084	ZUI	Arrival	12.7	-	-
13-Oct	20:34	3A185	ZUI	Departure	13.7	-	-
13-Oct	21:13	8S2113	XZM	Arrival	12.2	-	-
13-Oct	21:21	3A169	YFT	Departure	13	-	-
13-Oct	22:13	8S522	XZM	Departure	11.9	-	-
14-Oct	08:18	3A061	YFT	Arrival	12.6	<= 5	< 1min
14-Oct	08:29	8S210	XZM	Arrival	12.8	-	-
14-Oct	09:55	3A062	YFT	Arrival	11.7	-	-
14-Oct	10:47	3A163	YFT	Departure	12.5	-	-
14-Oct	10:56	8S212	XZM	Arrival	11.9	-	-
14-Oct	10:59	3A081	ZUI	Arrival	12.6	-	-
14-Oct	11:24	3A063	YFT	Arrival	12.3	-	-
14-Oct	11:33	8S121	XZM	Departure	11.8	-	-
14-Oct	12:45	3A168	YFT	Departure	13.2	-	-
14-Oct	12:50	3A181	ZUI	Departure	13.6	-	-
14-Oct	13:00	8S215	XZM	Arrival	10.9	-	-
14-Oct	13:08	3A064	YFT	Arrival	11.8	-	-
14-Oct	13:43	8S123	XZM	Departure	12.7	-	-
14-Oct	13:56	3A082	ZUI	Arrival	12.4	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [XZM - Macao (Maritime Ferry Terminal) YFT - Macao (Taipa) ZUI - Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
14-Oct	14:49	3A164	YFT	Departure	12.7	-	-
14-Oct	14:53	3A182	ZUI	Departure	13.7	-	-
14-Oct	15:12	3A065	YFT	Arrival	11.9	-	-
14-Oct	16:27	3A167	YFT	Departure	12.6	-	-
14-Oct	16:35	8S218	XZM	Arrival	11	-	-
14-Oct	16:57	3A083	ZUI	Arrival	13.2	-	-
14-Oct	17:16	3A067	YFT	Arrival	12.6	-	-
14-Oct	17:52	3A183	ZUI	Departure	12.7	-	-
14-Oct	17:55	8S126	XZM	Departure	12.8	-	-
14-Oct	19:26	3A166	YFT	Departure	12.5	-	-
14-Oct	19:56	3A084	ZUI	Arrival	11.8	-	-
14-Oct	20:20	3A185	ZUI	Departure	12.2	-	-
14-Oct	21:02	8S2113	XZM	Arrival	12.3	-	-
14-Oct	21:14	3A169	YFT	Departure	14.2	-	-
14-Oct	22:15	8S522	XZM	Departure	12.9	-	-
15-Oct	08:13	3A061	YFT	Arrival	12.3	-	-
15-Oct	08:18	8S210	XZM	Arrival	11.3	-	-
15-Oct	09:50	3A062	YFT	Arrival	10.8	-	-
15-Oct	10:34	3A163	YFT	Departure	11.8	-	-
15-Oct	10:39	8S212	XZM	Arrival	12.2	-	-
15-Oct	10:54	3A081	ZUI	Arrival	12.4	-	-
15-Oct	11:29	8S121	XZM	Departure	13.8	-	-
15-Oct	11:33	3A063	YFT	Arrival	11.8	-	-
15-Oct	12:29	3A168	YFT	Departure	12.4	-	-
15-Oct	12:34	3A181	ZUI	Departure	12.7	-	-
15-Oct	12:58	8S215	XZM	Arrival	12	-	-
15-Oct	12:59	3A064	YFT	Arrival	11.6	-	-
15-Oct	13:23	8S123	XZM	Departure	13	-	-
15-Oct	13:47	3A082	ZUI	Arrival	12.5	-	-
15-Oct	14:28	3A164	YFT	Departure	12.6	-	-
15-Oct	14:30	3A182	ZUI	Departure	13.2	-	-
15-Oct	14:57	3A065	YFT	Arrival	12.3	-	-
15-Oct	16:40	3A167	YFT	Departure	12.8	-	-
15-Oct	16:53	3A083	ZUI	Arrival	12.8	-	-
15-Oct	17:03	8S218	XZM	Arrival	12.4	-	-
15-Oct	17:14	3A067	YFT	Arrival	11.8	-	-
15-Oct	17:36	3A183	ZUI	Departure	13.3	-	-
15-Oct	17:38	8S126	XZM	Departure	13.1	-	-
15-Oct	19:34	3A166	YFT	Departure	12.9	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [XZM - Macao (Maritime Ferry Terminal) YFT - Macao (Taipa) ZUI - Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
15-Oct	19:43	3A084	ZUI	Arrival	11.1	-	-
15-Oct	20:39	3A185	ZUI	Departure	12.3	-	-
15-Oct	21:21	8S2113	XZM	Arrival	11.5	-	-
15-Oct	21:35	3A169	YFT	Departure	12.3	-	-
15-Oct	22:11	8S522	XZM	Departure	12.1	-	-
16-Oct	08:14	3A061	YFT	Arrival	11.8	-	-
16-Oct	08:21	8S210	XZM	Arrival	12.5	-	-
16-Oct	10:05	3A062	YFT	Arrival	10.6	-	-
16-Oct	10:33	3A163	YFT	Departure	10.8	-	-
16-Oct	10:38	8S212	XZM	Arrival	13.3	-	-
16-Oct	10:59	3A081	ZUI	Arrival	12.9	-	-
16-Oct	11:18	3A063	YFT	Arrival	12.1	-	-
16-Oct	11:26	8S121	XZM	Departure	11.9	-	-
16-Oct	12:34	3A181	ZUI	Departure	13.2	-	-
16-Oct	12:36	3A168	YFT	Departure	12.6	-	-
16-Oct	13:02	8S215	XZM	Arrival	11.7	-	-
16-Oct	13:04	3A064	YFT	Arrival	11.8	-	-
16-Oct	13:24	8S123	XZM	Departure	12.9	-	-
16-Oct	13:45	3A082	ZUI	Arrival	12.9	-	-
16-Oct	14:25	3A164	YFT	Departure	11.2	-	-
16-Oct	14:30	3A182	ZUI	Departure	10.9	-	-
16-Oct	14:59	3A065	YFT	Arrival	12.1	-	-
16-Oct	16:13	3A167	YFT	Departure	12.2	-	-
16-Oct	16:43	3A083	ZUI	Arrival	12.5	-	-
16-Oct	16:47	8S218	XZM	Arrival	12.7	-	-
16-Oct	17:06	3A067	YFT	Arrival	11.1	-	-
16-Oct	17:18	8S126	XZM	Departure	13.8	-	-
16-Oct	17:23	3A183	ZUI	Departure	12.2	-	-
16-Oct	19:18	3A166	YFT	Departure	12.4	-	-
16-Oct	19:53	3A084	ZUI	Arrival	12.8	-	-
16-Oct	20:12	3A185	ZUI	Departure	12.5	-	-
16-Oct	20:57	8S2113	XZM	Arrival	11.7	-	-
16-Oct	21:15	3A169	YFT	Departure	12.4	-	-
16-Oct	22:03	8S522	XZM	Departure	13.1	-	-
17-Oct	08:16	3A061	YFT	Arrival	12	-	-
17-Oct	08:19	8S210	XZM	Arrival	12	-	-
17-Oct	10:02	3A062	YFT	Arrival	12.1	-	-
17-Oct	10:29	3A163	YFT	Departure	12.8	-	-
17-Oct	10:41	8S212	XZM	Arrival	12.1	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [XZM - Macao (Maritime Ferry Terminal) YFT - Macao (Taipa) ZUI - Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
17-Oct	10:59	3A081	ZUI	Arrival	12.8	-	-
17-Oct	11:19	8S121	XZM	Departure	12.7	-	-
17-Oct	11:25	3A063	YFT	Arrival	11.6	-	-
17-Oct	12:26	3A181	ZUI	Departure	13.3	-	-
17-Oct	12:29	3A168	YFT	Departure	12.4	-	-
17-Oct	12:45	8S215	XZM	Arrival	11.5	-	-
17-Oct	12:56	3A064	YFT	Arrival	12.1	-	-
17-Oct	13:21	8S123	XZM	Departure	13	-	-
17-Oct	13:44	3A082	ZUI	Arrival	13.7	<= 5	< 1min
17-Oct	14:21	3A164	YFT	Departure	13.2	-	-
17-Oct	14:25	3A182	ZUI	Departure	13.7	-	-
17-Oct	14:57	3A065	YFT	Arrival	11.5	-	-
17-Oct	16:22	3A167	YFT	Departure	12.1	-	-
17-Oct	16:46	8S218	XZM	Arrival	10.7	-	-
17-Oct	16:48	3A083	ZUI	Arrival	11.9	-	-
17-Oct	17:01	3A067	YFT	Arrival	12.4	-	-
17-Oct	17:26	8S126	XZM	Departure	13	-	-
17-Oct	17:28	3A183	ZUI	Departure	12.2	-	-
17-Oct	19:06	3A166	YFT	Departure	13.3	-	-
17-Oct	19:57	3A084	ZUI	Arrival	12.6	-	-
17-Oct	20:19	3A185	ZUI	Departure	13.4	-	-
17-Oct	20:47	8S2113	XZM	Arrival	12.6	-	-
17-Oct	21:05	3A169	YFT	Departure	12.4	-	-
17-Oct	21:56	8S522	XZM	Departure	13.1	-	-
18-Oct	08:17	3A061	YFT	Arrival	12.7	-	-
18-Oct	08:21	8S210	XZM	Arrival	12.5	-	-
18-Oct	09:51	3A062	YFT	Arrival	12.1	-	-
18-Oct	10:20	3A163	YFT	Departure	12.5	-	-
18-Oct	10:40	8S212	XZM	Arrival	12.5	-	-
18-Oct	10:56	3A081	ZUI	Arrival	13.3	-	-
18-Oct	11:21	8S121	XZM	Departure	11.7	-	-
18-Oct	11:27	3A063	YFT	Arrival	12.3	-	-
18-Oct	12:21	3A181	ZUI	Departure	12.9	-	-
18-Oct	12:23	3A168	YFT	Departure	12.1	-	-
18-Oct	12:52	8S215	XZM	Arrival	12.4	-	-
18-Oct	12:54	3A064	YFT	Arrival	12.3	-	-
18-Oct	13:27	8S123	XZM	Departure	13.4	-	-
18-Oct	13:53	3A082	ZUI	Arrival	12.4	-	-
18-Oct	14:15	3A164	YFT	Departure	11.8	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [XZM - Macao (Maritime Ferry Terminal) YFT - Macao (Taipa) ZUI - Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
18-Oct	14:20	3A182	ZUI	Departure	11.5	-	-
18-Oct	14:57	3A065	YFT	Arrival	12.2	-	-
18-Oct	16:28	3A167	YFT	Departure	12.9	-	-
18-Oct	16:42	3A083	ZUI	Arrival	12.3	-	-
18-Oct	16:55	3A067	YFT	Arrival	12.1	-	-
18-Oct	17:10	3A183	ZUI	Departure	12.3	-	-
18-Oct	17:18	8S218	XZM	Arrival	0.0 **	-	-
18-Oct	17:29	8S126	XZM	Departure	12.2	-	-
18-Oct	19:07	3A166	YFT	Departure	13.1	<= 5	< 1min
18-Oct	19:53	3A084	ZUI	Arrival	12.5	-	-
18-Oct	20:15	3A185	ZUI	Departure	13.4	-	-
18-Oct	20:58	8S2113	XZM	Arrival	11.3	-	-
18-Oct	21:09	3A169	YFT	Departure	13.4	-	-
18-Oct	21:55	8S522	XZM	Departure	11.7	-	-
19-Oct	08:16	8S210	XZM	Arrival	13	-	-
19-Oct	08:18	3A061	YFT	Arrival	10.7	-	-
19-Oct	09:49	3A062	YFT	Arrival	11.6	-	-
19-Oct	10:20	3A163	YFT	Departure	12.3	-	-
19-Oct	10:35	8S212	XZM	Arrival	12.1	-	-
19-Oct	10:51	3A081	ZUI	Arrival	12.8	-	-
19-Oct	11:01	8S121	XZM	Departure	12.2	-	-
19-Oct	11:12	3A063	YFT	Arrival	12.4	-	-
19-Oct	12:25	3A181	ZUI	Departure	12.6	-	-
19-Oct	12:27	3A168	YFT	Departure	12.8	-	-
19-Oct	12:52	8S215	XZM	Arrival	11.5	-	-
19-Oct	12:57	3A064	YFT	Arrival	12.2	-	-
19-Oct	13:17	8S123	XZM	Departure	13	-	-
19-Oct	13:48	3A082	ZUI	Arrival	11.7	-	-
19-Oct	14:14	3A164	YFT	Departure	12.5	-	-
19-Oct	14:15	3A182	ZUI	Departure	13.5	-	-
19-Oct	15:01	3A065	YFT	Arrival	11.6	-	-
19-Oct	16:16	3A167	YFT	Departure	13.3	-	-
19-Oct	16:44	8S218	XZM	Arrival	10.3	-	-
19-Oct	16:47	3A083	ZUI	Arrival	12.5	-	-
19-Oct	16:54	3A067	YFT	Arrival	12.1	-	-
19-Oct	17:15	8S126	XZM	Departure	13.5	-	-
19-Oct	17:19	3A183	ZUI	Departure	12.3	-	-
19-Oct	19:03	3A166	YFT	Departure	12.8	-	-
19-Oct	19:55	3A084	ZUI	Arrival	12.5	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [XZM - Macao (Maritime Ferry Terminal) YFT - Macao (Taipa) ZUI - Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
19-Oct	20:14	3A185	ZUI	Departure	13.6	-	-
19-Oct	20:48	8S2113	XZM	Arrival	11.7	-	-
19-Oct	20:56	3A169	YFT	Departure	12.4	-	-
19-Oct	21:58	8S522	XZM	Departure	11.5	-	-
20-Oct	08:14	3A061	YFT	Arrival	11.4	-	-
20-Oct	08:17	8S210	XZM	Arrival	12.5	-	-
20-Oct	09:56	3A062	YFT	Arrival	12	-	-
20-Oct	10:20	3A163	YFT	Departure	12.1	-	-
20-Oct	10:35	8S212	XZM	Arrival	12.2	-	-
20-Oct	11:05	3A081	ZUI	Arrival	13.3	-	-
20-Oct	11:07	8S121	XZM	Departure	12.4	-	-
20-Oct	11:11	3A063	YFT	Arrival	12.1	-	-
20-Oct	12:13	3A181	ZUI	Departure	12.5	-	-
20-Oct	12:13	3A168	YFT	Departure	12.1	-	-
20-Oct	12:53	8S215	XZM	Arrival	11.1	-	-
20-Oct	13:01	3A064	YFT	Arrival	12	-	-
20-Oct	13:19	8S123	XZM	Departure	11.7	-	-
20-Oct	13:53	3A082	ZUI	Arrival	12.6	-	-
20-Oct	14:13	3A182	ZUI	Departure	11.9	-	-
20-Oct	14:15	3A164	YFT	Departure	12.2	-	-
20-Oct	15:00	3A065	YFT	Arrival	12.3	-	-
20-Oct	16:26	3A167	YFT	Departure	12.9	-	-
20-Oct	16:29	3A083	ZUI	Arrival	12.7	-	-
20-Oct	16:41	8S218	XZM	Arrival	10.6	-	-
20-Oct	16:59	3A067	YFT	Arrival	12.2	-	-
20-Oct	17:13	8S126	XZM	Departure	12.9	-	-
20-Oct	17:13	3A183	ZUI	Departure	12.5	-	-
20-Oct	19:03	3A166	YFT	Departure	12.7	-	-
20-Oct	19:57	3A084	ZUI	Arrival	12.6	-	-
20-Oct	20:27	3A185	ZUI	Departure	13.6	-	-
20-Oct	21:01	8S2113	XZM	Arrival	12.2	-	-
20-Oct	21:15	3A169	YFT	Departure	12.8	-	-
20-Oct	21:59	8S522	XZM	Departure	12.8	-	-
21-Oct	08:16	3A061	YFT	Arrival	11.9	-	-
21-Oct	08:22	8S210	XZM	Arrival	11.6	-	-
21-Oct	10:06	3A062	YFT	Arrival	12.3	-	-
21-Oct	10:39	3A163	YFT	Departure	13.4	-	-
21-Oct	10:49	3A081	ZUI	Arrival	13.4	-	-
21-Oct	10:52	8S212	XZM	Arrival	12	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [XZM - Macao (Maritime Ferry Terminal) YFT - Macao (Taipa) ZUI - Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
21-Oct	11:12	3A063	YFT	Arrival	12.3	-	-
21-Oct	11:24	8S121	XZM	Departure	12.3	-	-
21-Oct	12:24	3A168	YFT	Departure	12.2	-	-
21-Oct	12:33	3A181	ZUI	Departure	12	-	-
21-Oct	12:47	8S215	XZM	Arrival	11.9	-	-
21-Oct	13:09	3A064	YFT	Arrival	12.9	-	-
21-Oct	13:21	8S123	XZM	Departure	12.3	-	-
21-Oct	13:47	3A082	ZUI	Arrival	11.8	-	-
21-Oct	14:22	3A182	ZUI	Departure	12.3	-	-
21-Oct	14:27	3A164	YFT	Departure	13.4	-	-
21-Oct	14:54	3A065	YFT	Arrival	12.1	-	-
21-Oct	16:28	3A167	YFT	Departure	12.8	-	-
21-Oct	16:59	3A083	ZUI	Arrival	12.7	-	-
21-Oct	17:00	8S218	XZM	Arrival	12.1	-	-
21-Oct	17:06	3A067	YFT	Arrival	11.6	<= 5	< 1min
21-Oct	17:26	3A183	ZUI	Departure	13.6	-	-
21-Oct	17:32	8S126	XZM	Departure	12.4	-	-
21-Oct	19:04	3A166	YFT	Departure	12.1	-	-
21-Oct	19:43	3A084	ZUI	Arrival	11.7	-	-
21-Oct	20:05	3A185	ZUI	Departure	12.6	-	-
21-Oct	21:05	8S2113	XZM	Arrival	11.7	-	-
21-Oct	21:12	3A169	YFT	Departure	13	-	-
22-Oct	08:13	3A061	YFT	Arrival	12.3	-	-
22-Oct	08:19	8S210	XZM	Arrival	12.5	-	-
22-Oct	10:20	3A062	YFT	Arrival	11.9	-	-
22-Oct	10:40	8S212	XZM	Arrival	12.3	-	-
22-Oct	10:40	3A163	YFT	Departure	11.1	-	-
22-Oct	10:47	3A081	ZUI	Arrival	13.9	-	-
22-Oct	11:13	3A063	YFT	Arrival	12.3	-	-
22-Oct	11:22	8S121	XZM	Departure	12.5	-	-
22-Oct	12:20	3A168	YFT	Departure	12.3	-	-
22-Oct	12:24	3A181	ZUI	Departure	12.2	-	-
22-Oct	12:54	8S215	XZM	Arrival	13	-	-
22-Oct	13:12	3A064	YFT	Arrival	11.5	-	-
22-Oct	13:24	8S123	XZM	Departure	12.8	-	-
22-Oct	13:55	3A082	ZUI	Arrival	12	-	-
22-Oct	14:30	3A164	YFT	Departure	10.9	-	-
22-Oct	14:33	3A182	ZUI	Departure	12.8	-	-
22-Oct	14:56	3A065	YFT	Arrival	12.3	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [XZM - Macao (Maritime Ferry Terminal) YFT - Macao (Taipa) ZUI - Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
22-Oct	16:23	3A167	YFT	Departure	12.1	-	-
22-Oct	16:56	8S218	XZM	Arrival	12.2	-	-
22-Oct	17:00	3A083	ZUI	Arrival	12.7	-	-
22-Oct	17:06	3A067	YFT	Arrival	11	-	-
22-Oct	17:32	3A183	ZUI	Departure	13.8	-	-
22-Oct	17:37	8S126	XZM	Departure	13.3	-	-
22-Oct	19:25	3A166	YFT	Departure	12.6	-	-
22-Oct	19:52	3A084	ZUI	Arrival	11.8	-	-
22-Oct	20:13	3A185	ZUI	Departure	12.8	-	-
22-Oct	20:57	8S2113	XZM	Arrival	12	-	-
22-Oct	21:13	3A169	YFT	Departure	12.2	-	-
22-Oct	22:00	8S522	XZM	Departure	13.2	-	-
23-Oct	08:11	3A061	YFT	Arrival	12.4	-	-
23-Oct	08:18	8S210	XZM	Arrival	13.1	-	-
23-Oct	09:50	3A062	YFT	Arrival	0.0 **	-	-
23-Oct	10:27	3A163	YFT	Departure	13	-	-
23-Oct	10:45	8S212	XZM	Arrival	12.9	-	-
23-Oct	10:49	3A081	ZUI	Arrival	13.4	-	-
23-Oct	11:18	8S121	XZM	Departure	12.3	-	-
23-Oct	11:20	3A063	YFT	Arrival	0.0 **	-	-
23-Oct	12:32	3A181	ZUI	Departure	12.4	-	-
23-Oct	12:33	3A168	YFT	Departure	13	-	-
23-Oct	12:55	8S215	XZM	Arrival	12.4	-	-
23-Oct	12:57	3A064	YFT	Arrival	12.4	-	-
23-Oct	13:22	8S123	XZM	Departure	11.9	-	-
23-Oct	13:49	3A082	ZUI	Arrival	12.9	-	-
23-Oct	14:21	3A164	YFT	Departure	12.6	-	-
23-Oct	14:23	3A182	ZUI	Departure	12.2	-	-
23-Oct	15:10	3A065	YFT	Arrival	12.6	<= 5	< 1min
23-Oct	16:18	3A167	YFT	Departure	12.8	-	-
23-Oct	16:59	8S218	XZM	Arrival	10.3	-	-
23-Oct	17:06	3A083	ZUI	Arrival	12.7	-	-
23-Oct	17:11	3A067	YFT	Arrival	11.6	-	-
23-Oct	17:22	3A183	ZUI	Departure	13.8	-	-
23-Oct	17:26	8S126	XZM	Departure	12.4	-	-
23-Oct	19:13	3A166	YFT	Departure	13.3	-	-
23-Oct	20:02	3A084	ZUI	Arrival	12.6	-	-
23-Oct	20:17	3A185	ZUI	Departure	13.8	-	-
23-Oct	20:52	8S2113	XZM	Arrival	11.6	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [XZM - Macao (Maritime Ferry Terminal) YFT - Macao (Taipa) ZUI - Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
23-Oct	21:02	3A169	YFT	Departure	12.4	-	-
23-Oct	22:11	8S522	XZM	Departure	12.5	-	-
24-Oct	08:14	3A061	YFT	Arrival	12.4	-	-
24-Oct	08:21	8S210	XZM	Arrival	12.3	-	-
24-Oct	10:04	3A062	YFT	Arrival	11.6	-	-
24-Oct	10:25	3A163	YFT	Departure	10.9	-	-
24-Oct	10:49	3A081	ZUI	Arrival	13.4	-	-
24-Oct	10:50	8S212	XZM	Arrival	12.2	-	-
24-Oct	11:08	8S121	XZM	Departure	13.5	-	-
24-Oct	11:17	3A063	YFT	Arrival	11.7	-	-
24-Oct	12:21	3A168	YFT	Departure	10.7	-	-
24-Oct	12:26	3A181	ZUI	Departure	12.6	-	-
24-Oct	12:49	8S215	XZM	Arrival	12.9	-	-
24-Oct	13:01	3A064	YFT	Arrival	12.3	-	-
24-Oct	13:20	8S123	XZM	Departure	12.9	-	-
24-Oct	13:44	3A082	ZUI	Arrival	12.9	-	-
24-Oct	14:15	3A164	YFT	Departure	12.4	-	-
24-Oct	14:16	3A182	ZUI	Departure	12.4	-	-
24-Oct	15:04	3A065	YFT	Arrival	11.9	-	-
24-Oct	16:25	3A167	YFT	Departure	10.7	-	-
24-Oct	16:57	8S218	XZM	Arrival	12.6	-	-
24-Oct	16:59	3A083	ZUI	Arrival	12.9	-	-
24-Oct	17:06	3A067	YFT	Arrival	10.7	-	-
24-Oct	17:16	3A183	ZUI	Departure	12.3	-	-
24-Oct	17:34	8S126	XZM	Departure	12.5	-	-
24-Oct	19:01	3A166	YFT	Departure	12.7	-	-
24-Oct	19:45	3A084	ZUI	Arrival	12.3	-	-
24-Oct	20:04	3A185	ZUI	Departure	12.2	-	-
24-Oct	20:55	8S2113	XZM	Arrival	11.9	-	-
24-Oct	21:09	3A169	YFT	Departure	13	-	-
24-Oct	21:53	8S522	XZM	Departure	12.3	-	-
25-Oct	08:16	3A061	YFT	Arrival	12.2	-	-
25-Oct	08:22	8S210	XZM	Arrival	12.1	-	-
25-Oct	10:00	3A062	YFT	Arrival	12.1	-	-
25-Oct	10:20	3A163	YFT	Departure	12.5	-	-
25-Oct	10:35	8S212	XZM	Arrival	12.7	-	-
25-Oct	10:47	3A081	ZUI	Arrival	11.2	-	-
25-Oct	11:12	8S121	XZM	Departure	12.5	-	-
25-Oct	11:18	3A063	YFT	Arrival	12.8	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [XZM - Macao (Maritime Ferry Terminal) YFT - Macao (Taipa) ZUI - Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
25-Oct	12:18	3A168	YFT	Departure	11.9	-	-
25-Oct	12:19	3A181	ZUI	Departure	12.7	-	-
25-Oct	12:46	8S215	XZM	Arrival	11.8	-	-
25-Oct	13:01	3A064	YFT	Arrival	12.2	-	-
25-Oct	13:18	8S123	XZM	Departure	13.4	-	-
25-Oct	13:40	3A082	ZUI	Arrival	12.8	-	-
25-Oct	14:15	3A182	ZUI	Departure	13.1	-	-
25-Oct	14:17	3A164	YFT	Departure	12.4	-	-
25-Oct	14:56	3A065	YFT	Arrival	12.9	-	-
25-Oct	16:20	3A167	YFT	Departure	12.5	-	-
25-Oct	16:44	8S218	XZM	Arrival	10.5	-	-
25-Oct	16:45	3A083	ZUI	Arrival	12.7	-	-
25-Oct	17:04	3A183	ZUI	Departure	13.3	-	-
25-Oct	17:05	3A067	YFT	Arrival	12	-	-
25-Oct	17:26	8S126	XZM	Departure	13.4	-	-
25-Oct	18:58	3A166	YFT	Departure	12.6	-	-
25-Oct	19:53	3A084	ZUI	Arrival	12.4	-	-
25-Oct	20:10	3A185	ZUI	Departure	13.5	-	-
25-Oct	20:56	8S2113	XZM	Arrival	11.8	-	-
25-Oct	21:10	3A169	YFT	Departure	12.6	-	-
25-Oct	22:03	8S522	XZM	Departure	13	-	-
26-Oct	08:11	3A061	YFT	Arrival	11.8	-	-
26-Oct	08:19	8S210	XZM	Arrival	10.7	-	-
26-Oct	10:00	3A062	YFT	Arrival	12.1	-	-
26-Oct	10:16	3A163	YFT	Departure	12.2	-	-
26-Oct	10:42	8S212	XZM	Arrival	12.3	-	-
26-Oct	10:53	3A081	ZUI	Arrival	13.4	-	-
26-Oct	11:06	8S121	XZM	Departure	12.6	-	-
26-Oct	11:17	3A063	YFT	Arrival	12.2	-	-
26-Oct	12:18	3A168	YFT	Departure	12	-	-
26-Oct	12:19	3A181	ZUI	Departure	11.8	-	-
26-Oct	12:49	8S215	XZM	Arrival	11.5	-	-
26-Oct	12:51	3A064	YFT	Arrival	12.6	-	-
26-Oct	13:16	8S123	XZM	Departure	13	-	-
26-Oct	13:44	3A082	ZUI	Arrival	12.9	-	-
26-Oct	14:22	3A182	ZUI	Departure	12.8	-	-
26-Oct	14:26	3A164	YFT	Departure	13	-	-
26-Oct	14:58	3A065	YFT	Arrival	10.6	-	-
26-Oct	16:19	3A167	YFT	Departure	11.8	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [XZM - Macao (Maritime Ferry Terminal) YFT - Macao (Taipa) ZUI - Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
26-Oct	16:40	8S218	XZM	Arrival	11.9	-	-
26-Oct	16:45	3A083	ZUI	Arrival	13.1	-	-
26-Oct	16:58	3A067	YFT	Arrival	13	-	-
26-Oct	17:14	3A183	ZUI	Departure	12.9	-	-
26-Oct	17:15	8S126	XZM	Departure	12.4	-	-
26-Oct	19:02	3A166	YFT	Departure	11.4	-	-
26-Oct	19:52	3A084	ZUI	Arrival	12.6	-	-
26-Oct	20:07	3A185	ZUI	Departure	13.9	-	-
26-Oct	20:55	8S2113	XZM	Arrival	12.4	-	-
26-Oct	20:59	3A169	YFT	Departure	12.3	-	-
26-Oct	22:08	8S522	XZM	Departure	13.5	-	-
27-Oct	08:17	3A061	YFT	Arrival	10.9	-	-
27-Oct	08:25	8S210	XZM	Arrival	11.6	-	-
27-Oct	09:57	3A062	YFT	Arrival	10.3	-	-
27-Oct	10:26	3A163	YFT	Departure	12	-	-
27-Oct	10:39	8S212	XZM	Arrival	12.5	-	-
27-Oct	10:49	3A081	ZUI	Arrival	12.4	-	-
27-Oct	11:12	8S121	XZM	Departure	12.9	-	-
27-Oct	11:18	3A063	YFT	Arrival	12	-	-
27-Oct	12:21	3A168	YFT	Departure	12.4	-	-
27-Oct	12:22	3A181	ZUI	Departure	13.3	-	-
27-Oct	12:48	8S215	XZM	Arrival	12.1	-	-
27-Oct	12:55	3A064	YFT	Arrival	12.7	-	-
27-Oct	13:21	8S123	XZM	Departure	12.8	-	-
27-Oct	13:47	3A082	ZUI	Arrival	12.8	-	-
27-Oct	14:15	3A182	ZUI	Departure	12.6	-	-
27-Oct	14:20	3A164	YFT	Departure	12.8	-	-
27-Oct	14:58	3A065	YFT	Arrival	12	-	-
27-Oct	16:16	3A167	YFT	Departure	12	-	-
27-Oct	16:51	8S218	XZM	Arrival	12.5	-	-
27-Oct	16:52	3A083	ZUI	Arrival	13.2	-	-
27-Oct	17:02	3A067	YFT	Arrival	12.8	-	-
27-Oct	17:10	3A183	ZUI	Departure	13	-	-
27-Oct	17:14	8S126	XZM	Departure	12.8	-	-
27-Oct	19:04	3A166	YFT	Departure	12.5	-	-
27-Oct	19:54	3A084	ZUI	Arrival	12.2	-	-
27-Oct	20:12	3A185	ZUI	Departure	13.9	-	-
27-Oct	20:53	8S2113	XZM	Arrival	12.4	-	-
27-Oct	21:05	3A169	YFT	Departure	11.9	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [XZM - Macao (Maritime Ferry Terminal) YFT - Macao (Taipa) ZUI - Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
27-Oct	21:56	8S522	XZM	Departure	12.6	-	-
28-Oct	08:15	3A061	YFT	Arrival	11.5	-	-
28-Oct	08:24	8S210	XZM	Arrival	11.5	-	-
28-Oct	09:56	3A062	YFT	Arrival	11.8	-	-
28-Oct	10:16	3A163	YFT	Departure	12.5	-	-
28-Oct	10:35	8S212	XZM	Arrival	12.5	-	-
28-Oct	10:46	3A081	ZUI	Arrival	12.8	-	-
28-Oct	11:10	8S121	XZM	Departure	13.6	-	-
28-Oct	11:16	3A063	YFT	Arrival	10.7	-	-
28-Oct	12:33	3A168	YFT	Departure	11.8	-	-
28-Oct	12:38	3A181	ZUI	Departure	13.4	-	-
28-Oct	12:48	8S215	XZM	Arrival	12	-	-
28-Oct	12:58	3A064	YFT	Arrival	12.4	-	-
28-Oct	13:28	8S123	XZM	Departure	13.1	-	-
28-Oct	13:53	3A082	ZUI	Arrival	12.2	-	-
28-Oct	14:15	3A164	YFT	Departure	12.8	-	-
28-Oct	14:19	3A182	ZUI	Departure	13.6	-	-
28-Oct	14:52	3A065	YFT	Arrival	12.8	-	-
28-Oct	16:21	3A167	YFT	Departure	12.5	-	-
28-Oct	16:53	8S218	XZM	Arrival	12.4	-	-
28-Oct	16:53	3A083	ZUI	Arrival	13.2	-	-
28-Oct	17:05	3A067	YFT	Arrival	13.1	-	-
28-Oct	17:17	3A183	ZUI	Departure	12.9	-	-
28-Oct	17:38	8S126	XZM	Departure	13.8	-	-
28-Oct	19:19	3A166	YFT	Departure	11.5	-	-
28-Oct	19:58	3A084	ZUI	Arrival	12.5	-	-
28-Oct	20:08	3A185	ZUI	Departure	14	-	-
28-Oct	20:55	8S2113	XZM	Arrival	12	-	-
28-Oct	20:58	3A169	YFT	Departure	11.9	-	-
28-Oct	22:01	8S522	XZM	Departure	12.1	-	-
29-Oct	08:15	3A061	YFT	Arrival	12.7	-	-
29-Oct	08:21	8S210	XZM	Arrival	12.2	<= 5	< 1min
29-Oct	09:58	3A062	YFT	Arrival	11.3	-	-
29-Oct	10:14	3A163	YFT	Departure	12.1	-	-
29-Oct	10:39	3A081	ZUI	Arrival	12.3	-	-
29-Oct	10:43	8S212	XZM	Arrival	12.3	-	-
29-Oct	11:03	8S121	XZM	Departure	12.8	-	-
29-Oct	11:14	3A063	YFT	Arrival	11.7	-	-
29-Oct	12:18	3A168	YFT	Departure	12.4	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [XZM - Macao (Maritime Ferry Terminal) YFT - Macao (Taipa) ZUI - Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
29-Oct	12:20	3A181	ZUI	Departure	12.5	-	-
29-Oct	12:49	8S215	XZM	Arrival	10.3	-	-
29-Oct	12:53	3A064	YFT	Arrival	12.5	-	-
29-Oct	13:19	8S123	XZM	Departure	11.5	-	-
29-Oct	13:54	3A082	ZUI	Arrival	13.2	-	-
29-Oct	14:11	3A182	ZUI	Departure	13.2	-	-
29-Oct	14:14	3A164	YFT	Departure	12.2	-	-
29-Oct	14:57	3A065	YFT	Arrival	11.9	-	-
29-Oct	16:26	3A167	YFT	Departure	12.3	-	-
29-Oct	16:49	8S218	XZM	Arrival	10.3	-	-
29-Oct	16:53	3A083	ZUI	Arrival	12.5	-	-
29-Oct	17:01	3A067	YFT	Arrival	12.8	-	-
29-Oct	17:10	3A183	ZUI	Departure	13	-	-
29-Oct	17:12	8S126	XZM	Departure	10.9	-	-
29-Oct	19:10	3A166	YFT	Departure	13.3	<= 5	< 1min
29-Oct	19:52	3A084	ZUI	Arrival	12.7	-	-
29-Oct	20:16	3A185	ZUI	Departure	13.9	-	-
29-Oct	20:51	8S2113	XZM	Arrival	12.6	-	-
29-Oct	21:06	3A169	YFT	Departure	11.5	-	-
29-Oct	22:00	8S522	XZM	Departure	11.7	-	-
30-Oct	08:13	3A061	YFT	Arrival	11.8	-	-
30-Oct	08:27	8S210	XZM	Arrival	13.1	-	-
30-Oct	09:58	3A062	YFT	Arrival	11.5	-	-
30-Oct	10:21	3A163	YFT	Departure	11.6	-	-
30-Oct	10:33	8S212	XZM	Arrival	11.7	-	-
30-Oct	10:50	3A081	ZUI	Arrival	12.2	-	-
30-Oct	11:09	8S121	XZM	Departure	12.1	-	-
30-Oct	11:17	3A063	YFT	Arrival	11.9	<= 5	< 1min
30-Oct	12:12	3A168	YFT	Departure	12.9	-	-
30-Oct	12:14	3A181	ZUI	Departure	13.5	-	-
30-Oct	12:37	8S215	XZM	Arrival	12.3	-	-
30-Oct	12:57	3A064	YFT	Arrival	12	-	-
30-Oct	13:27	8S123	XZM	Departure	12.6	-	-
30-Oct	13:48	3A082	ZUI	Arrival	12	-	-
30-Oct	14:16	3A164	YFT	Departure	12.8	-	-
30-Oct	14:18	3A182	ZUI	Departure	11.8	-	-
30-Oct	14:55	3A065	YFT	Arrival	12.4	-	-
30-Oct	16:28	8S218	XZM	Arrival	12	-	-
30-Oct	16:30	3A167	YFT	Departure	12.4	-	-

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [XZM - Macao (Maritime Ferry Terminal) YFT - Macao (Taipa) ZUI - Zhuhai Jiuzhou]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
30-Oct	16:52	3A083	ZUI	Arrival	13	-	-
30-Oct	17:02	3A067	YFT	Arrival	12.1	-	-
30-Oct	17:07	3A183	ZUI	Departure	13	-	-
30-Oct	17:13	8S126	XZM	Departure	12.9	-	-
30-Oct	19:04	3A166	YFT	Departure	12.6	-	-
30-Oct	19:55	3A084	ZUI	Arrival	13.2	-	-
30-Oct	20:13	3A185	ZUI	Departure	13.6	-	-
30-Oct	20:51	8S2113	XZM	Arrival	11.8	-	-
30-Oct	20:58	3A169	YFT	Departure	13.2	-	-
30-Oct	21:59	8S522	XZM	Departure	11.9	-	-
31-Oct	08:16	3A061	YFT	Arrival	11.9	-	-
31-Oct	08:23	8S210	XZM	Arrival	11.8	-	-
31-Oct	09:56	3A062	YFT	Arrival	11.9	-	-
31-Oct	10:20	3A163	YFT	Departure	11.4	-	-
31-Oct	10:37	8S212	XZM	Arrival	12.2	-	-
31-Oct	10:53	3A081	ZUI	Arrival	12.6	-	-
31-Oct	11:09	8S121	XZM	Departure	12.9	-	-
31-Oct	11:15	3A063	YFT	Arrival	11.7	-	-
31-Oct	12:13	3A168	YFT	Departure	12.3	-	-
31-Oct	12:15	3A181	ZUI	Departure	13.6	-	-
31-Oct	12:48	8S215	XZM	Arrival	10.9	-	-
31-Oct	13:02	3A064	YFT	Arrival	11.1	-	-
31-Oct	13:18	8S123	XZM	Departure	13.4	-	-
31-Oct	13:53	3A082	ZUI	Arrival	13.4	-	-
31-Oct	14:10	3A182	ZUI	Departure	13.4	-	-
31-Oct	14:18	3A164	YFT	Departure	13.6	-	-
31-Oct	15:01	3A065	YFT	Arrival	12.2	-	-
31-Oct	16:20	3A167	YFT	Departure	11.8	-	-
31-Oct	16:41	8S218	XZM	Arrival	10.5	-	-
31-Oct	16:46	3A083	ZUI	Arrival	13	-	-
31-Oct	17:02	3A067	YFT	Arrival	11.3	-	-
31-Oct	17:08	3A183	ZUI	Departure	13.2	-	-
31-Oct	17:11	8S126	XZM	Departure	13.4	-	-
31-Oct	19:01	3A166	YFT	Departure	12.7	-	-
31-Oct	19:55	3A084	ZUI	Arrival	13	-	-
31-Oct	20:10	3A185	ZUI	Departure	13.1	-	-
31-Oct	20:52	8S2113	XZM	Arrival	12.3	-	-
31-Oct	20:55	3A169	YFT	Departure	12.7	-	-
31-Oct	21:59	8S522	XZM	Departure	11.4	-	-

** Insufficient or no AIS data for speed calculation.

Follow-up on instantaneous speeding

Referring to the data of SkyPier HSF movements in October 2018, instantaneous speeding (i.e. a sudden change in speed at over 15 knots for a short period of time) within the SCZ was recorded from 9 HSF movements of which the durations of all instantaneous speeding cases were less than one minute. The AIS data and ferry operators' responses showed the cases were due to local strong water currents and giving way to vessels. The captains had reduced speed and maintained the speed at less than 15 knots after the incidents.

No HSFs with insufficient transmission of AIS data was received in October 2018.