

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

Construction Phase Monthly EM&A Report No. 86 (For February 2023)

March 2023

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March 2023

This Monthly EM&A Report No. 86 has been reviewed and certified by

the Environmental Team Leader (ETL) in accordance with

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

(m Kor)

Certified by:

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

Date

14 March 2023



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By Email

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

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

14 March 2023

Dear Sir,

Contract No. 3102 3RS Independent Environmental Checker Consultancy Services

Submission of Monthly EM&A Report No. 86 (February 2023)

Reference is made to the Environmental Team's submission of the Monthly EM&A Report No. 86 under Condition 3.5 of the Environmental Permit No. EP-489/2014 certified by the ET Leader on 14 March 2023.

We would like to inform you that we have no adverse comment and verify the captioned submission in accordance with the requirement stipulated in Condition 3.5 of EP-489/2014.

Should you have any query, please feel free to contact the undersigned at 3922 9141.

Yours faithfully, AECOM Asia Co. Ltd.

Koyin

Roy Man Independent Environmental Checker

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Abbreviations

3RS	Three-Runway System		
ААНК	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		
АРМ	Automated People Mover		
AW	Airport West		
BHS	Baggage Handling System		
C&D	Construction and Demolition		
САР	Contamination Assessment Plan		
CAR	Contamination Assessment Report		
CTCC	Construction Traffic Control Centre		
CWD	Chinese White Dolphin		
DCM	Deep Cement Mixing		
DEZ	Dolphin Exclusion Zone		
DO	Dissolved Oxygen		
EIA	Environmental Impact Assessment		
EM&A	Environmental Monitoring & Audit		
EP	Environmental Permit		
EPD Environmental Protection Department			
EPSS Emergency Power Supply Systems			
ET	Environmental Team		
FCZ	Fish Culture Zone		
HKBCF	Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary		
	Crossing Facilities		
HKIA	Hong Kong International Airport		
HOKLAS	Hong Kong Laboratory Accreditation Scheme		
HSF	High Speed Ferry		
HVS	High Volume Sampler		
IEC	Independent Environmental Checker		
LKC	Lung Kwu Chau		
ММНК	Mott MacDonald Hong Kong Limited		
MMWP	Marine Mammal Watching Plan		
MSS	Maritime Surveillance System		
MTRMP-CAV	Marine Travel Routes and Management Plan for		
· · ·	Construction and Associated Vessel		
NEL	Northeast Lantau		
NWL	Northwest Lantau		
PAM	Passive Acoustic Monitoring		
PM	Project Manager		
SC	Sha Chau		
SCZ	Speed Control Zone		
SCLKCMP	Sha Chau and Lung Kwu Chau Marine Park		
SS	Suspended Solids		
SSSI	Site of Special Scientific Interest		
STG	Encounter Rate of Number of Dolphin Sightings		

SWL	Southwest Lantau	
T2	Terminal 2	
The Project	The Expansion of Hong Kong International Airport into a	
	Three-Runway System	
The SkyPier Plan	Marine Travel Routes and Management Plan for High	
	Speed Ferries of SkyPier	
The Manual	The Updated EM&A Manual	
TSP	Total Suspended Particulates	
WL	West Lantau	
WMP	Waste Management Plan	

Executive summary

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

Airport Authority Hong Kong (AAHK) commissioned Mott MacDonald Hong Kong Limited (MMHK) to undertake the role of Environmental Team (ET) for carrying out the Environmental Monitoring & Audit (EM&A) works during the construction phase of the Project in accordance with the Updated EM&A Manual (the Manual).

This is the 86th Construction Phase Monthly EM&A Report for the Project which summarises the monitoring results and audit findings of the EM&A programme during the reporting period from 1 to 28 February 2023.

Key Activities in the Reporting Period

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

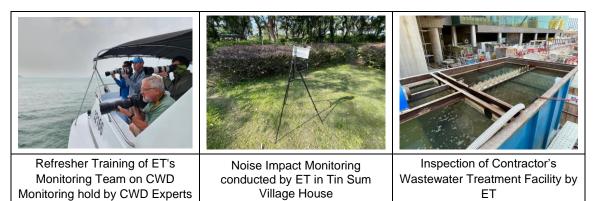
EM&A Activities Conducted in the Reporting Period

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

Monitoring Activities	Number of Sessions
1-hour Total Suspended Particulates (TSP) air quality monitoring	30
Noise monitoring	16
Water quality monitoring	12
Vessel line-transect surveys for Chinese White Dolphin (CWD) monitoring	2
Land-based theodolite tracking survey effort for CWD monitoring	2

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

Snapshots of EM&A Activities in the Reporting Period



Results of Impact Monitoring

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

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

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

Summary of Upcoming Key Issues

Reclamation Works:

Contract 3206 Main Reclamation Works

Backfilling works.

Airfield Works

Contract 3302 Eastern Vehicular Tunnel Advance Works

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

Contract 3305 Airfield Ground Lighting System

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

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

• Equipment installation.

Contract 3307 Fire Training Facility

- Architectural, builder's and finishing works; and
- Drainage and utilities works;

Contract 3308 Foreign Object Debris Detection System

• Rectification work for handover sensor system.

Contract 3310 North Runway Modification Works

- Architectural, builder's work and finishing works;
- Excavation works;
- Seawall construction;
- Construction of stormwater drainage;
- Construction of walls and slabs;
- Jet grouting and asphalt paving works;
- Installation of pipe piles; and
- Backfilling works.

Third Runway Concourse:

Contract 3403 New Integrated Airport Centres Building and Civil Works

- Roofing installation of covered walkway; and
- Demolition works.

Contract 3404 Integrated Airport Control System

• System maintenance.

Contract 3405 Third Runway Concourse Foundation and Substructure Works

- Bored piling;
- Structure works;
- Excavation; and
- Road formation.

Contract 3408 Third Runway Concourse and Apron Works

- Building services and Architectural, builder's work and finishing works;
- Foundation Works for Concrete Batching Plant;
- Reinforced concrete works; and
- Excavation.

Terminal 2 Expansion:

Contract 3508 Terminal 2 Expansion Works

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

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

Contract 3601 New Automated People Mover System (TRC Line)

• Guidebeam installation.

Contract 3602 Existing APM System Modification Works

- Erection and fixing of power rail; and
- Concrete plinth construction.

Contract 3603 Baggage Handling System (BHS)

BHS installation.

Construction Support (Facilities):

Contract 3721 Construction Support Infrastructure Works

- Watermain connection works;
- Sewage phasing works for fire training facility.

Airport Support Infrastructure:

Contract 3801 APM and BHS Tunnels on Existing Airport Island

- Backfilling works;
- Wall construction.

Contract 3802 APM and BHS Tunnels and Related Works

- Excavation and lateral supports;
- Box Culvert Construction;
- Tunnel construction;
- Electrical and mechanical works; and
- Architectural, builder's work and finishing works.

Contract 3804 East and Landside Fire Stations

- Site setup and formation works;
- Preparation works of bored pile;
- Excavation and concreting; and
- Ground Investigation works.

Construction Support (Services / Licences):

Contract 3901A Concrete Batching Facility

• Operation of concrete batching plant and material conveyor belt.

Contract 3901B Concrete Batching Facility

• Operation of concrete batching plant and material conveyor belt.

Contract 3908 Quay Management Services

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

Contract 3913 Asphalt Batching Plant

• Operation of asphalt batching plant.

Summary Table

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

	Yes	No	Details	Analysis / Recommendation / Remedial Actions
Breach of Limit Level^		\checkmark	No breach of Limit Level was recorded.	Nil
Breach of Action Level [^]		\checkmark	No breach of Action Level was recorded.	Nil
Complaint Received		V	A complaint regarding dust nuisance was received on 19 December 2022.	ET requested the related contractors to provide information regarding the complaint. The relevant contractor informed there was an alarm fault which led to the incident. The system was rectified by the contractor and no observation regarding dust nuisance was recorded during the subsequent joint site inspection and regular site inspections. All contractors were reminded to properly implement dust mitigation measures in their works sites in accordance with the implementation schedule in the Updated EM&A Manual. Hence, the case was considered closed.
Notification of any summons and status of prosecutions		\checkmark	No notification of summons nor prosecution was received.	Nil
Change that affect the EM&A		\checkmark	There was no change to the construction works that may affect the EM&A.	Nil

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

1 Introduction

1.1 Background

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

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

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

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

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

1.2 Scope of this Report

This is the 86th Construction Phase Monthly EM&A Report for the Project which summarises the key findings of the EM&A programme during the reporting period from 1 to 28 February 2023.

1.3 Project Organisation

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

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

Table 1.1: Contact Information of Key Personnel

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

Party	Position	Name	Telephone
	Deputy Environmental Team Leaders	Heidi Yu	2828 5704
		Ken Wong	2828 5817
Independent Environmental Checker (IEC) (AECOM Asia Company Limited)	Independent Environmental Checker	Roy Man	3922 9141
,	Deputy Independent Environmental Checker	Jackel Law	3922 9376

Reclamation Works:

Party	Position	Name	Telephone
Contract 3206 Main Reclamation Works (ZHEC-CCCC-CDC Joint	Project Manager	Alan Mong	3763 1352
Venture)	Environmental Officer	Zhang Bin Wang	3763 1525

Airfield Works:

Party	Position	Name	Telephone
Contract 3302 Eastern Vehicular Tunnel Advance	Project Manager	Dickey Yau	5699 4503
Works (China Road and Bridge Corporation)	Environmental Officer	Dennis Ho	5645 0563
Contract 3305 Airfield Ground Lighting System	Project Manager	Allam Al-Turk	2944 9725
(ADB Safegate Hong Kong Limited)	Environmental Officer	Ivan Ting	9222 9490
Contract 3306 Observation Facility Control System	Project Director	Dennis Yam	9551 9920
Supporting Interim 2RS and 3RS (Chinney Alliance Engineering Limited)	Environmental Officer	Richard Liu	9216 8990
Contract 3307 Fire Training Facility	Project Manager	Ken Tang	9640 5397
(Paul Y. Construction Company Limited)	Environmental Officer	Ferddy Leung	5585 6746
Contract 3308 Foreign Object Debris Detection System (DAS Aviation Services Group)	Project Manager	Jeffrey Yau	9873 7422
Contract 3310 North Runway Modification Works (China State Construction Engineering (Hong Kong) Ltd.)	Project Manager	Kingsley Chiang	9424 8437
	Environmental Officer	Federick Wong	9842 2703

Third Runway Concourse:

Party	Position	Name	Telephone
Contract 3402 New Integrated Airport Centres Enabling Works	Project Manager	Wyman Lau	6112 9753
(Wing Hing Construction Co., Ltd.)	Health Safety Environmental Manager	Mike Leung	6625 2550
Contract 3403 New Integrated Airport Centres Building and Civil Works	Project Manager	Alice Leung	9220 3162
(Sun Fook Kong Construction Limited)	Environmental Officer	Ray Cheung	9785 1566
Contract 3404 Integrated Airport Control System (Shun Hing Systems	Project Manager	Andy Ng	9102 2739
Integration Co., Ltd.)	Safety Officer	Keith Chau	9620 7515
Contract 3405 Third Runway Concourse Foundation and Substructure Works (China Road and Bridge Corporation – Bachy Soletanche Group Limited – LT Sambo Co., Ltd. Joint Venture)	Project Manager	Francis Choi	9423 3469
	Environmental Officer	Jacky Lai	9028 8975
Contract 3408 Third Runway Concourse and Apron Works (Beijing Urban Construction Group Company Limited and Chevalier (Construction) Company Limited Joint Venture)	Assistant Project Manager	Qian Zhang	5377 7976
	Environmental Officer	Malcolm Leung	7073 7559

Terminal 2 (T2) Expansion:

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

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

Party	Position	Name	Telephone
Contract 3601 New Automated People Mover System (TRC Line) (CRRC Puzhen	Project Manager	Hongdan Wei	158 6180 9450
Bombardier Transportation Systems Limited and CRRC Nanjing Puzhen Co., Ltd. Joint Venture)	Environmental Officer	H Y Yue	9185 8186

Party	Position	Name	Telephone
Contract 3602 Existing APM System Modification Works (Niigata Transys Co., Ltd.) Project Manager Environmental Officer	Project Manager	Kunihiro Tatecho	9755 0351
	Environmental Officer	Y M Tong	5316 9801
Contract 3603 3RS Baggage Handling System (VISH Consortium)	Project Manager	К С Но	9272 9626
	Environmental Officer	Richard Ng	9802 9577

Construction Support (Facilities):

Party	Position	Name	Telephone
Contract 3721 Construction Support Infrastructure Works (China State Construction	Site Agent	Thomas Lui	9011 5340
Engineering (Hong Kong) Ltd.)	Environmental Officer	John Mak	6273 8703
Contract 3728 Minor Site Works	Contract Manager	C K Liu	9194 8739
(Shun Yuen Construction Company Limited)	Environmental Officer	Dan Leung	6856 5899

Contract 3733 Emergency Repair Service	Project Manager	Michael Kan	9206 0550
(Wing Hing Construction Co., Ltd.)	Safety Health Environmental Manager	Mike Leung	6625 2550

Airport Support Infrastructure:

Party	Position	Name	Telephone
Contract 3801 APM and BHS Tunnels on Existing Airport Island	Project Manager	Kingsley Chiang	9424 8437
(China State Construction Engineering (Hong Kong) Ltd.)	Environmental Officer	Eunice Kwok	9243 1331

Contract 3802 APM and BHS Tunnels and Related Works	Project Director	John Adams	6111 6989
(Gammon Construction Limited)	Environmental Officer	Phoebe Ng	9869 1105
Contract 3804 East and Landside Fire Stations (Beijing Urban	Project Manager	Mr. Zhang Xianda	4661 6818
Construction Group Construction Limited -	Environmental Officer	Ms. Kimberly Wong	5542 1669
Beijing Urban Construction International Construction Limited - Kin Shing			

Party	Position	Name	Telephone
(Leung's)			
General Contractors Ltd			
Joint Venture)			

Construction Support (Services / Licences):

Party	Position	Name	Telephone
Contract 3901A Concrete Batching Facility	Project Manager	Benedict Wong	9553 2806
K. Wah Concrete Company Limited)	Environmental Officer	C P Fung	9874 2872
Contract 3901B Concrete Batching Facility	General Manager	Gabriel Chan	2435 3260
Gammon Construction	Environmental Officer	Rex Wong	2695 6319
Contract 3908 Quay Management Services (Gitanes – Crown Asia Joint Venture)	Project Manager	Mr. Ian Li	9750 6438
	Environmental Officer	Mr. Tang Kai Fun	9406 3526
Contract 3913 Asphalt Batching Plant (SPR Joint Venture)	Project Manager	Xie Yi Sheng	6580 6005
	Environmental Officer	Kenneth Chan	9300 2182

1.4 Summary of Construction Works

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

The locations of key construction activities are presented in **Figure 1.1**. **Figure 1.2** presents the latest layout of enhanced silt curtain deployed.

1.5 Summary of EM&A Programme Requirements

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

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

Parameters	EM&A Requirements	Status
Air Quality		
Baseline Monitoring	At least 14 consecutive days before commencement of construction work	The baseline air quality monitoring result was reported in Baseline Monitoring Report and submitted to EPD under EP Condition 3.4.
Impact Monitoring	At least 3 times every 6 days	On-going
Noise		
Baseline Monitoring	Daily for a period of at least two weeks prior to the commencement of construction works	The baseline noise monitoring result was reported in Baseline Monitoring Report and submitted to EPD under EP Condition 3.4.
Impact Monitoring	Weekly	On-going

Parameters	EM&A Requirements	Status
Water Quality		
General Baseline Water Quality Monitoring for reclamation, water jetting and field joint works	Three days per week, at mid-flood and mid-ebb tides, for at least four weeks prior to the commencement of marine works.	The baseline water quality monitoring result was reported in Baseline Water Quality Monitoring Report and submitted to EPD under EP Condition 3.4.
General Impact Water Quality Monitoring for reclamation, water jetting and field joint works	Three days per week, at mid-flood and mid-ebb tides.	On-going for reclamation works. General impact water quality monitoring for water jetting works was completed on 23 May 2017.
Initial Intensive Deep Cement Mixing (DCM) Water Quality Monitoring	At least four weeks	The Initial Intensive DCM Monitoring Report was submitted and approved by EPD in accordance with the Detailed Plan on DCM.
Regular DCM Water Quality Monitoring	Three times per week until completion of DCM works.	Due to the completion of all marine-based DCM works within April 2022, regular DCM monitoring was ceased at all monitoring stations starting from 28 April 2022 and would be resumed if there are marine-based DCM works in the coming future.
Sewerage and Sewage Tre	eatment	
Methodology for carrying out annual sewage flow monitoring for concerned gravity sewer	Methodology to be prepared and submitted to EPD one year before the scheduled commencement of operation of the proposed third runway	The proposed methodology of the annual sewage flow monitoring was approved by EPD. The annual flow monitoring was started from June 2021 and completed in 2022.
Details of the routine H_2S monitoring system for the sewerage system of 3RS	Details to be prepared and submitted to EPD at least one year before commencement of the operation of 3RS	The details of the routine H_2S monitoring system will be prepared and submitted to EPD at least one year before commencement of operation of 3RS.
Waste Management		
Waste Monitoring	At least weekly	On-going
Land Contamination		
Supplementary Contamination Assessment Plan (CAP)	At least 3 months before commencement of any soil remediation works.	The Supplementary CAP was submitted and approved by EPD under EP Condition 2.20.
Contamination Assessment Report (CAR) for Golf Course	CAR to be submitted for golf course	The CAR for Golf Course was submitted and accepted by EPD.
Contamination Assessment Reports (CAR) for Terminal 2 Emergency Power Supply Systems	CAR to be submitted for Terminal 2 Emergency Power Supply Systems	The CARs for Terminal 2 Emergency Power Supply Systems were submitted and accepted by EPD.
Terrestrial Ecology		
Pre-construction Egretry Survey Plan	Once per month in the breeding season between April and July, prior to the commencement of HDD drilling works.	The Egretry Survey Plan was submitted and approved by EPD under EP Condition 2.14.
Ecological Monitoring	Monthly monitoring during the HDD construction works period from August to March.	The terrestrial ecological monitoring at Sheung Sha Chau was completed in January 2019.
Marine Ecology		
Pre-Construction Phase Coral Dive Survey	Prior to marine construction works	The Coral Translocation Plan was submitted and approved by EPD under EP Condition 2.12.
Coral Translocation	-	The coral translocation was completed.
Post-Translocation Coral Monitoring	As per an enhanced monitoring programme based on the Coral Translocation Plan	The post-translocation monitoring programme according to the Coral Translocation Plan was completed in April 2018.
Chinese White Dolphins (CWD)	

Parameters	EM&A Requirements	Status
Baseline Monitoring	6 months of baseline surveys before the commencement of land formation related construction works. Vessel line transect surveys: Two full surveys per month; Land-based theodolite tracking surveys: Two days per month at the Sha Chau station and two days per month at the Lung Kwu Chau station; and Passive Acoustic Monitoring (PAM): For the whole duration of baseline period.	Baseline CWD results were reported in the CWD Baseline Monitoring Report and submitted to EPD in accordance with EP Condition 3.4.
Impact Monitoring	Vessel line transect surveys: Two full surveys per month; Land-based theodolite tracking surveys: One day per month at the Sha Chau station and one day per month at the Lung Kwu Chau station; and PAM: For the whole duration for land formation related construction works.	On-going
Landscape & Visual		
Landscape & Visual Plan	At least 3 months before the commencement of construction works on the formed land of the Project.	The Landscape & Visual Plan was submitted and approved by EPD under EP Condition 2.18
Baseline Monitoring	One-off survey within the Project site boundary prior to commencement of any construction works	The baseline landscape & visual monitoring result was reported in Baseline Monitoring Report and submitted to EPD under EP Condition 3.4.
Impact Monitoring	Weekly	On-going
Environmental Auditing		
Regular site inspection	Weekly	On-going
Marine Mammal Watching Plan (MMWP) implementation measures	Monitor and check	On-going
Dolphin Exclusion Zone (DEZ) Plan implementation measures	Monitor and check	On-going
SkyPier High Speed Ferries (HSF) implementation measures	Monitor and check	On-going
Construction and Associated Vessels Implementation measures	Monitor and check	On-going
Silt Curtain Deployment Plan implementation measures	Monitor and check	On-going
Spill Response Plan implementation measures	Monitor and check	On-going
Complaint Hotline and Email channel	Construction phase	On-going
Environmental Log Book	Construction phase	On-going

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

The EM&A programme also involved weekly site inspections and related auditing conducted by the ET for checking the implementation of the required environmental mitigation measures recommended in the approved EIA Report. To promote the environmental awareness and

enhance the environmental performance of the contractors, regular environmental management meetings were conducted during the reporting period, which are summarised as below:

• Seventeen environmental management meetings for EM&A review with works contracts: 9, 10, 16, 17, 21, 22, 24, 27 and 28 February 2023.

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

2 Air Quality Monitoring

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

Table 2.1: Locations of Impact Air Quality Monitoring Stations

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

2.1 Action and Limit Levels

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

Table 2.2: Action and Limit Levels of Air Quality Monitoring

Monitoring Station	Action Level (μg/m ³)	Limit Level (µg/m³)
AR1A	306	500
AR2	298	

2.2 Monitoring Equipment

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

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-1 (Serial No. 597337)	11 May 2022	Monthly EM&A Report No. 77, Appendix D
	SIBATA LD-3B-2 (Serial No. 296098)	16 Sep 2022	Monthly EM&A Report No. 83, Appendix D

2.3 Monitoring Methodology

2.3.1 Measuring Procedure

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

- a. The portable direct reading dust meter was mounted on a tripod at a height of 1.2m above the ground.
- b. Prior to the measurement, the equipment was set up for 1 minute span check and 6 second background check.

- c. The one hour dust measurement was started. Site conditions and dust sources at the nearby area were recorded on a record sheet.
- d. When the measurement completed, the "Count" reading per hour was recorded for result calculation.

2.3.2 Maintenance and Calibration

The portable direct reading dust meter is calibrated every year against high volume sampler (HVS) to check the validity and accuracy of the results measured by direct reading method. The calibration record of the HVS provided in Appendix D of the Monthly EM&A Report No. 77 and the calibration certificates of portable direct reading dust meters listed in **Table 2.3** are valid in the reporting period.

2.4 Summary of Monitoring Results

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

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

Table 2.4: Summary of Air Quality Monitoring Results

Monitoring Station	1-hr TSP Concentration Range (μg/m³)	Action Level (μg/m³)	Limit Level (µg/m³)
AR1A	14 - 56	306	500
AR2	10 - 32	298	

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

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

2.5 Conclusion

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

3 Noise Monitoring

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

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

Table 3.1: Locations of Impact Noise Monitoring Stations

Notes:

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

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

3.1 Action and Limit Levels

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

Table 3.2: Action and Limit Levels for Noise Monitoring

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

Note:

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

3.2 Monitoring Equipment

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

Table 3.3: Noise Monitoring Equipment

Equipment	Brand and Model	Last Calibration Date	Calibration Certificate Provided in
Integrated Sound Level Meter	Rion NL-52 (Serial No. 00998505)	22 Mar 2022	Monthly EM&A Report No. 75, Appendix D
Integrated Sound Level Meter	Rion NL-52 (Serial No. 01287679)	10 Oct 2022	Monthly EM&A Report No. 82, Appendix D
Acoustic Calibrator	Castle GA607 (Serial No. 040162)	22 Mar 2022	Monthly EM&A Report No. 75, Appendix D
Acoustic Calibrator	Casella CEL-120 (Serial No. 2383737)	18 Jun 2022	Monthly EM&A Report No. 79, Appendix D

3.3 Monitoring Methodology

3.3.1 Monitoring Procedure

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

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

3.3.2 Maintenance and Calibration

The maintenance and calibration procedures are summarised below:

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

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

3.4 Summary of Monitoring Results

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

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

Monitoring Station	Noise Level Range, dB(A)	Limit Level, dB(A)	
	Leq (30mins)	Leq (30mins)	
NM1A ⁽¹⁾	60 - 73	75	
NM4 ^{(1) (3)}	60 - 65	70 ⁽²⁾	
NM5 ^{(1) (3)}	58 - 61	75	
NM6 ^{(1) (3)}	65 - 68	75	

Table 3.4: Summary of Construction Noise Monitoring Results

Notes:

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

(2) The limit level will be reduced to 65dB(A) during school examination periods at NM4. No school examination took place during this reporting period.

(3) Some of the noise measurement results were higher than the baseline monitoring levels. In order to reduce the influence of non-Project related noise on the monitoring results, these measurement results were corrected with reference to the baseline monitoring results.

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

3.5 Conclusion

As the construction activities were far away from the monitoring stations, major sources of noise dominating the monitoring stations observed during the construction noise impact monitoring were traffic noise near NM1A, school activities near NM4 and aircraft noise near NM6 during this reporting period. It is considered that the monitoring work during the reporting period was effective and there was no adverse impact attributable to the Project activities.

4 Water Quality Monitoring

Water quality monitoring of DO, pH, temperature, salinity, turbidity, and suspended solids (SS) was conducted three days per week, at mid-ebb and mid-flood tides, at a total of 14 water quality monitoring stations, comprising 6 impact (IM) stations, 5 sensitive receiver (SR) stations and 3 control (C) stations in the vicinity of water quality sensitive receivers around the airport island in accordance with the Manual. The purpose of water quality monitoring at the IM stations is to promptly capture any potential water quality impact from the Project before it could become apparent at sensitive receivers (represented by the SR stations). **Table 4.1** describes the details of the monitoring stations. **Figure 4.1** shows the locations of the monitoring stations.

Table 4.1: Monitoring Locations of Impact Water Quality Monitoring

Monitoring Station	Description	Coordinates		Parameters
		Easting	Northing	
C1	Control Station	804247	815620	General Parameters
C2	Control Station	806945	825682	DO, pH,
C3 ⁽²⁾	Control Station	817803	822109	Temperature, Salinity, Turbidity, SS
IM1 ⁽⁴⁾	Impact Station	806458	818351	
IM2 ⁽⁴⁾	Impact Station	806236	819183	
IM7 ⁽⁴⁾	Impact Station	806835	821349	
IM10 ⁽⁴⁾	Impact Station	809838	822240	
IM11 ⁽⁴⁾	Impact Station	810545	821501	
IM12 ⁽⁴⁾	Impact Station	811519	821162	
SR1A ⁽¹⁾	Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities (HKBCF) Seawater Intake for cooling	812660	819977	<u>General Parameters</u> DO, pH, Temperature, Salinity, Turbidity, SS
SR2	Planned marine park / hard corals at The Brothers / Tai Mo To	814166	821463	<u>General Parameters</u> DO, pH, Temperature, Salinity, Turbidity, SS
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,
SR4A	Sha Lo Wan	807810	817189	Salinity, Turbidity, SS
SR8 ⁽³⁾	Seawater Intake for cooling at Hong Kong International Airport (East)	811623	820390	

Notes:

(1) With the operation of HKBCF, water quality monitoring at SR1A station was commenced on 25 October 2018. To better reflect the water quality in the immediate vicinity of the intake, the monitoring location of SR1A has been shifted closer to the intake starting from 5 January 2019.

(2) According to the Baseline Water Quality Monitoring Report, C3 station is not adequately representative as a control station of impact/ SR stations during the flood tide. The control reference has been changed from C3 to SR2 from 1 September 2016 onwards.

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

(4) With the seawall completion and removal of enhanced open sea silt curtains, these monitoring stations were relocated back to their original locations. For IM2, there was minor adjustment of the monitoring location.

4.1 Action and Limit Levels

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

Parameters		Action Level (A	L)	Limit Level (LL)		
Action and Lin (excluding SR	mit Levels for general 1A & SR8)	water quality monit	oring			
General Water Quality	DO in mg/l (Surface, Middle & Bottom)	Surface and Middle 4.5mg/l Bottom 3.4mg/l		Surface and Middle 4.1mg/l Bottom 2.7mg/l		
Monitoring						
	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	
	Turbidity in NTU	22.6		36.1	station at the same tide of the same day, whichever is higher	
Action and Li	mit Levels SR1A					
SS (mg/l))		33		42		
Action and Li	mit Levels SR8					
SS (mg/l)		52		60		

Notes:

- (1) For DO measurement, non-compliance occurs when monitoring result is lower than the limits.
- (2) For parameters other than DO, non-compliance of water quality results when monitoring results is higher than the limits.
- (3) Depth-averaged results are used unless specified otherwise.

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

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

Note:

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

4.2 Monitoring Equipment

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

Equipment	Brand and Model	Last Calibration Date	Calibration Certificate Provided in
Multifunctional Meter (measurement of DO,	YSI ProDSS (Serial No. 16H104234)	20 Dec 2022	Monthly EM&A Report No. 84, Appendix E
pH, temperature, salinity and turbidity)	YSI ProDSS (Serial No. 17E100747)	20 Dec 2022	Monthly EM&A Report No. 84, Appendix E

Table 4.4: Water Quality Monitoring Equipment

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

Table 4.5: Other Monitoring Equipment

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

4.3 Monitoring Methodology

4.3.1 Measuring Procedure

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

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

4.3.2 Maintenance and Calibration

Calibration of In-situ Instruments

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

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

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

4.3.3 Laboratory Measurement / Analysis

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

Table 4.6: Laboratory Measurement/ Analysis of SS

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

4.4 Summary of Monitoring Results

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

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

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

Table 4.7 presents the summary of the SS compliance status at IM and SR stations during midflood tide for the reporting month.

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

	IM1	IM2	IM7	IM10	IM11	IM12	SR1A	SR3	SR4A	SR8
02/02/2023										
04/02/2023										
07/02/2023										
09/02/2023										
11/02/2023										
14/02/2023										
16/02/2023										
18/02/2023										
21/02/2023										
23/02/2023										
25/02/2023										
28/02/2023										
No. of										
result										
triggering	0	1	0	0	0	0	0	0	0	0
Action or										
Limit Level										

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

Monitoring result triggered the corresponding Action Level on one monitoring day. In accordance with Event and Action Plan stipulated in the Manual, IEC and Contractors were informed when the corresponding Action Level was triggered.

Details of the Project's marine construction activities and site observations of the concerned monitoring days were collected. Findings were summarised in **Table 4.8**.

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
21/2/2023	Sea wall construction	1.22 km	N/A	No	No	No

Table 4.8: Summary of Findings from Investigation of SS Monitoring Result

On 21 February 2023, IM2 was located upstream of the Project during flood tide. No silt plume, construction vessel, spillage incident or specific observation at outfalls were observed in the vicinity when monitoring was undertaken at the monitoring station. Therefore, the case was considered unlikely due to the Project.

4.5 Conclusion

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

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

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

In the meantime, the contractors were reminded to implement and maintain all mitigation measures as recommended in the Manual during weekly site inspection and regular environmental management meetings.

5 Waste Management

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

5.1 Action and Limit Levels

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

Table 5.1: Action and Limit Levels for Construction Waste

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

5.2 Waste Management Status

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

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

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

		Reused in the Project		Transferred to Public Fill	Chemical Waste (kg)	Chemical Waste (I)	General Refuse (tonne)
February 2023 ⁽²⁾	623	0	2,225	7,639	0	0	2,833

Table 5.2: Construction Waste Statistics

Notes:

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

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

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

5.3 Marine Sediment Management

Marine sediment is managed according to the EIA Report, Updated EM&A Manual, Waste Management Plan and the proposal of Further Development on Treatment Level / Details and the Reuse Mode for Marine Sediment (hereinafter referred to as "Further Development Proposal") of the Project. The sampling process, storage conditions of the excavated marine sediment, treatment process, final backfilling location as well as associated records were inspected and checked by ET and verified by IEC to ensure they were in compliance with the requirements as stipulated in the Waste Management Plan and Further Development Proposal.

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

6 Chinese White Dolphin Monitoring

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

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

6.1 Action and Limit Levels

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

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

	NEL, NWL, AW, WL and SWL as a Whole
Action Level ⁽³⁾	Running quarterly ⁽¹⁾ STG < 1.86 & ANI < 9.35
Limit Level ⁽³⁾	Two consecutive running quarterly ⁽²⁾ (3-month) STG < 1.86 & ANI < 9.35
(U	baseline monitoring report) – running quarterly encounter rates STG & ANI of this month will be calculated from the reporting

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

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

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

6.2 CWD Monitoring Transects and Stations

6.2.1 Small Vessel Line-transect Survey

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

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

Waypoint	Easting	Northing	Waypoint	Easting	Northing
		NI	EL		
1S	813525	820900	6N	818568	824433
1N	813525	824657	7S	819532	821420
2S	814556	818449	7N	819532	824209
2N	814559	824768	8S	820451	822125
3S	815542	818807	8N	820451	823671
3N	815542	824882	9S	821504	822371
4S	816506	819480	9N	821504	823761
4N	816506	824859	10S	822513	823268
5S	817537	820220	10N	822513	824321
5N	817537	824613	11S	823477	823402
6S	818568	820735	11N	823477	824613
		NV	NL		
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
		Α	W		
1W	804733	818205	2W	805045	816912
1E	806708	818017	2E	805960	816633
		N	/L		
1W	800600	805450	7W	800400	811450
1E	801760	805450	7E	802400	811450
2W	800300	806450	8W	800800	812450
2E	801750	806450	8E	802900	812450
3W	799600	807450	9W	801500	813550
3E	801500	807450	9E	803120	813550
4W	799400	808450	10W	801880	814500
4E	801430	808450	10E	803700	814500
5W	799500	809450	11W	802860	815500
5E	801300	809450	12S/11E	803750	815500
6W	799800	810450	12N	803750	818500
6E	801400	810450			
		SV	NL		
1S	802494	803961	6S	807467	801137
1N	802494	806174	6N	807467	808458
2S	803489	803280	7S	808553	800329
2N	803489	806720	7N	808553	807377
3S	804484	802509	8S	809547	800338
3N	804484	807048	8N	809547	807396
4S	805478	802105	9S	810542	800423
4N	805478	807556	9N	810542	807462
5S	806473	801250	10S	811446	801335
5N	806473	808458	10N	811446	809436

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

6.2.2 Land-based Theodolite Tracking Survey

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

Table 6.3: Land-based Theodolite Survey Station Details

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

6.3 CWD Monitoring Methodology

6.3.1 Small Vessel Line-transect Survey

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

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

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

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

All data collected on both primary and secondary transect lines were used for analysis of sighting distribution, group size, activities including association with fishing boat, and mother-calf pairs. Only on-effort data collected under favourable conditions of Beaufort 0-3 and visibility of approximately 1200 m or beyond were used for analysis of the CWD encounter rates.

A 15-20m vessel with a flying bridge observation platform about 4 to 5m above water level and unobstructed forward view, and a team of three to four observers were deployed to undertake the surveys. Two observers were on search effort at all times when following the transect lines with a constant speed of 7 to 8 knots (i.e. 13 to 15 km per hour), one using 7X handheld binoculars and the other using unaided eyes and recording data.

During on-effort survey periods, the survey team recorded effort data including time, position (waypoints), weather conditions (Beaufort sea state and visibility) and distance travelled in each series with assistance of a handheld GPS device. The GPS device also continuously and automatically logged data including time, position (latitude and longitude) and vessel speed throughout the entire survey.

When CWDs were seen, the survey team was taken off-effort, the dolphins were approached and photographed for photo-ID information (using a Canon 7D [or similar] camera and long 300 mm+

telephoto lens), then followed until they were lost from view. At that point, the boat returned (off effort) to the survey line at the closest point after obtaining photo records of the dolphin group and began to survey on effort again.

Focal follows of dolphins would be used for providing supplementary information only where practicable (i.e. when individual dolphins or small stable groups of dolphins with at least one member that could be readily identifiable with unaided eyes during observations and weather conditions are favourable). These would involve the boat following (at an appropriate distance to minimise disturbance) an identifiable individual dolphin for an extended period of time, and collecting detailed data on its location, behaviour, response to vessels, and associates.

6.3.2 Photo Identification

CWDs can be identified by their unique features like presence of scratches, nick marks, cuts, wounds, deformities of their dorsal fin and distinguished colouration and spotting patterns.

When CWDs were observed, the survey team was taken off-effort, the dolphins were approached and photographed for photo-ID information (using a Canon 7D [or similar] camera and long 300 mm+ telephoto lens). The survey team attempted to photograph both sides of every single dolphin in the group as the colouration and spotting pattern on both sides may not be identical. The photos were taken at the highest available resolution and stored on Compact Flash memory cards for transferring into a computer.

All photos taken were initially examined to sort out those containing potentially identifiable individuals. These sorted-out images would then be examined in detail and compared to the CWD photo-identification catalogue established for 3RS Project during the baseline monitoring stage.

6.3.3 Land-based Theodolite Tracking Survey

Land-based theodolite tracking survey obtains fine-scale information on the time of day and movement patterns of the CWDs. A digital theodolite (Sokkia/Sokkisha Model DT5 or similar equipment) with 30-power magnification and 5-s precision was used to obtain the vertical and horizontal angle of each dolphin and vessel position. Angles were converted to geographic coordinates (latitude and longitude) and data were recorded using *Pythagoras* software, Version 1.2. This method delivers precise positions of multiple spatially distant targets in a short period of time. The technique is fully non-invasive, and allows for time and cost-effective descriptions of dolphin habitat use patterns at all times of daylight.

Three surveyors (one theodolite operator, one computer operator, and one observer) were involved in each survey. Observers searched for dolphins using unaided eyes and handheld binoculars (7X50). Theodolite tracking sessions were initiated whenever an individual CWD or group of CWDs was located. Where possible, a distinguishable individual was selected, based on colouration, within the group. The focal individual was then continuously tracked via the theodolite, with a position recorded each time the dolphin surfaced. In case an individual could not be positively distinguished from other members, the group was tracked by recording positions based on a central point within the group whenever the CWD surfaced. Tracking continued until animals were lost from view; moved beyond the range of reliable visibility (>1-3km, depending on station height); or environmental conditions obstructed visibility (e.g., intense haze, Beaufort sea state >4, or sunset), at which time the research effort was terminated. In addition to the tracking of CWD, all vessels that moved within 2-3km of the station were tracked, with effort made to obtain at least two positions for each vessel.

Theodolite tracking included focal follows of CWD groups and vessels. Priority was given to tracking individual or groups of CWD. The survey team also attempted to track all vessels moving within 1 km of the focal CWD.

6.4 Monitoring Results and Observations

6.4.1 Small Vessel Line-transect Survey

Survey Effort

Within this reporting period, two complete sets of small vessel line-transect surveys were conducted on the 7, 8, 13, 14, 16, 20, 21 and 22 February 2023 covering all transects in NEL, NWL, AW, WL and SWL survey areas for twice.

A total of around 446.54 km of survey effort was collected from these surveys and around 434.91 km of these survey effort was being conducted under favourable weather condition (i.e. Beaufort Sea State 3 or below with favourable visibility). Details of the survey effort are given in **Appendix C**.

Sighting Distribution

In the current reporting period, 20 sightings with 72 dolphins were sighted. All these sightings were on-effort records under favourable weather condition (i.e. Beaufort Sea State 3 or below with favourable visibility). Details of cetacean sightings are presented in **Appendix C**.

Distribution of all CWD sightings recorded in the current reporting period is illustrated in **Figure 6.3**. In NWL, four CWD groups were recorded around SC and LKC, while two CWD groups were recorded at the southwestern part of the survey area. In WL, CWD sightings were scattered across the survey area. There was no CWD sighting recorded in SWL and NEL survey areas during the reporting period.

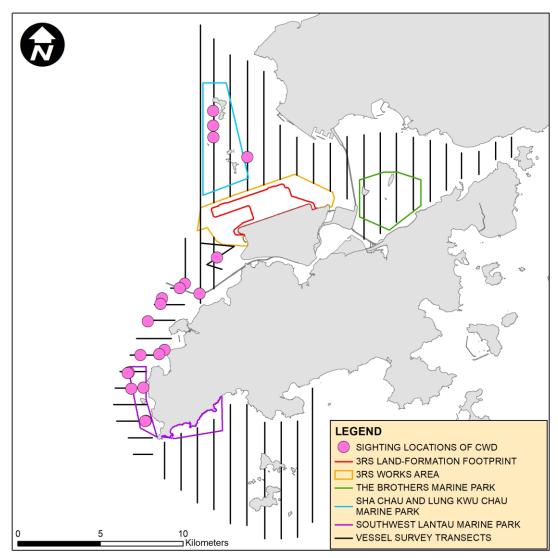


Figure 6.3: Sightings Distribution of Chinese White Dolphins

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

Encounter Rate

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

Encounter Rate by Number of Dolphin Sightings (STG)

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

Encounter Rate by Number of Dolphins (ANI)

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

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

In this reporting period, a total of around 434.91 km of survey effort was conducted under Beaufort Sea State 3 or below with favourable visibility, whilst a total number of 20 on-effort sightings with 72 dolphins were sighted under such condition. Calculation of the encounter rates for the month are shown in **Appendix C**.

For the running quarter of the reporting period (i.e., from December 2022 to February 2023), a total of around 1291.64 km of survey effort was conducted under Beaufort Sea State 3 or below with favourable visibility, whilst a total number of 33 on-effort sightings and a total number of 110 dolphins from on-effort sightings were obtained under such condition. Calculation of the running quarterly encounter rates are shown in **Appendix C**.

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

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

	Encounter Rate (STG)	Encounter Rate (ANI)
February 2023	4.60	16.56
Running Quarter from December 2022 to February 2023 ⁽¹⁾	2.55	8.52
Action Level	Running quarterly ⁽¹⁾ ST	G < 1.86 & ANI < 9.35

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

Group Size

In the current reporting period, 20 groups of 72 dolphins in total were sighted, and the average group size of CWDs was 3.6 dolphins per group. The number of CWD sightings with small group size (i.e. 1-2 dolphins) and CWD sightings with medium group size (i.e. 3-9 dolphins) were similar. There was one CWD sighting with large group size (i.e. 10 or more dolphins) which was recorded in NWL area in the current reporting period.

Activities and Association with Fishing Boats

There were four CWD sightings recorded engaging in foraging activities in the current reporting period in NWL and WL survey areas. One of these CWD sightings was observed associated with an operating purse seiner in WL.

Mother-calf Pair

In this reporting period, there were four sightings with the presences of mother-and-unspotted juvenile pair. Two of these sightings were recorded in NWL, while another two were recorded in WL.

6.4.2 Photo Identification

In the current reporting period, a total number of 43 different CWD individuals were identified for totally 49 times. A summary of photo identification works is presented in **Table 6.5**. Representative photos of these individuals are given in **Appendix C**.

Individual ID	Date of Sighting (dd-mmm- yy)	Sighting Group No.	Area	Individual ID	Date of Sighting (dd-mmm- yy)	Sighting Group No.	Area
NLMM001	20-Feb-23	1	NWL	SLMM031	21-Feb-23	5	WL
NLMM009	16-Feb-23	2	NWL		22-Feb-23	10	WL
		3	NWL	SLMM035	22-Feb-23	8	WL
NLMM013	21-Feb-23	1	WL			10	WL
NLMM015	16-Feb-23	3	NWL	SLMM037	22-Feb-23	10	WL
NLMM016	16-Feb-23	3	NWL	SLMM044	21-Feb-23	4	WL
NLMM020	16-Feb-23	1	NWL	SLMM058	21-Feb-23	2	WL
NLMM027	16-Feb-23	4	NWL		22-Feb-23	3	WL
	22-Feb-23	1	AW	SLMM071	16-Feb-23	1	NWL
NLMM040	16-Feb-23	1	NWL	SLMM073	22-Feb-23	6	WL
NLMM041	16-Feb-23	1	NWL	SLMM074	22-Feb-23	3	WL
NLMM052	16-Feb-23	2	NWL	WLMM007	22-Feb-23	6	WL
		3	NWL	WLMM028	16-Feb-23	1	NWL
NLMM055	21-Feb-23	1	WL	WLMM029	22-Feb-23	3	WL
NLMM060	16-Feb-23	1	NWL	WLMM056	22-Feb-23	7	WL
NLMM065	16-Feb-23	3	NWL	WLMM063	16-Feb-23	1	NWL
NLMM078	22-Feb-23	9	WL	WLMM065	22-Feb-23	7	WL
NLMM088	20-Feb-23	1	NWL	WLMM070	22-Feb-23	4	WL
SLMM002	22-Feb-23	7	WL	WLMM079	22-Feb-23	7	WL
SLMM003	22-Feb-23	7	WL	WLMM080	21-Feb-23	1	WL
SLMM007	22-Feb-23	6	WL	WLMM114	22-Feb-23	6	WL
SLMM010	22-Feb-23	9	WL	WLMM135	22-Feb-23	2	WL
SLMM014	22-Feb-23	10	WL	WLMM141	21-Feb-23	1	WL
SLMM025	21-Feb-23	4	WL	WLMM147	22-Feb-23	7	WL
SLMM030	16-Feb-23	1	NWL				

Table 6.5: Summary of Photo Identification

6.4.3 Land-based Theodolite Tracking Survey

Survey Effort

Land-based theodolite tracking surveys were conducted at SC on 15 February 2023 and at LKC on 23 February 2023, with a total of two days of land-based theodolite tracking survey effort accomplished in this reporting period. No CWDs were tracked neither off LKC Station nor SC

station during the reporting period. Information of survey effort and CWD groups are presented in **Table 6.6**. Details of the survey effort are presented in **Appendix C**.

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

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

6.5 Progress Update on Passive Acoustic Monitoring

Underwater acoustic monitoring using Passive Acoustic Monitoring (PAM) should be undertaken during land formation related construction works. Both C-POD and F-POD are considered as effective PAM devices in detecting CWD occurrence, and F-POD was the main PAM device deployed where feasible. During this reporting period, the F-POD was remained underwater and positioned at south of Sha Chau Island inside the SCLKCMP (**Figure 6.4**). The PAM device was last retrieved on 30 December 2022 and the next re-deployment is scheduled in early-March 2023. Acoustic data would be reviewed to give an indication of CWD occurrence patterns and anthropogenic noise information. Analysis would involve use of proprietary software for objective automated data analyses and experienced analysts to perform visual validation for assessment of dolphin detection. As the period of data collection and analysis takes about four months, PAM results could not be reported in monthly intervals but report for supplementing the annual CWD monitoring analysis.

6.6 Site Audit for CWD-related Mitigation Measures

During the reporting period, one dolphin observation station and teams of at least two dolphin observers were deployed by the contractor for continuous monitoring of the DEZ for seawall construction works in accordance with the DEZ Plan. Trainings for the proposed dolphin observers on the implementation of DEZ monitoring were provided by the ET, with a cumulative total of 704 individuals being trained and the training records kept by the ET. From the contractors' records, no dolphin or other marine mammals were observed within or around the silt curtain during this reporting month. These contractors' records were also audited by the ET during site inspection.

Audits of acoustic decoupling measures for construction vessels were carried out during weekly site inspection and the observations are summarised in **Section 7.1**. Audits of SkyPier high speed ferries route diversion and speed control and construction vessel management are presented in **Section 7.4** and **Section 7.5** respectively.

6.7 Timing of reporting CWD Monitoring Results

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

6.8 Summary of CWD Monitoring

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

7 Environmental Site Inspection and Audit

7.1 Environmental Site Inspection

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

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

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

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

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

7.2 Landscape and Visual Mitigation Measures

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

The implementation status of the environmental protection measures is summarized below in **Table 7.1**. Examples of landscape and visual mitigation measures are shown in **Table 7.2**. The

monitoring programme for detailed design, construction, establishment works and long term management (10 years) stages is presented in **Table 7.3**. Event and Action Plan for Landscape and Visual impacts is stated in **Table 7.4**.

Table 7.1: Landscape and Visual – Construction Phase Audit Summary

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

Landscape and Visual Mitigation Measures during Construction	Implementation Status	Relevant Contract(s) in the Reporting Period
CM9 – Trees unavoidably affected by the works shall be transplanted where practical. A detailed Tree Transplanting Specification shall be provided in the Contract Specification, if applicable. Sufficient time for necessary tree	Tree Transplanting Specifications were provided in the relevant Contract Specifications respectively for implementation by the Contractors under the Project where trees would unavoidably be affected by the construction works. The Contractors were required to submit Method	3508, 3801
root and crown preparation periods shall be allowed in the project programme	Statements for tree transplanting prior to the transplanting works. Tree inspections were conducted by ET to check the tree transplanting works implemented by the Contractors on site.	
	The Contractors' performance on the implementation of trees maintenance and protection measures on transplanted trees were observed and checked by the ET bi-monthly during the 12-month establishment period after the completion of each batch of transplanting works.	
	Long term management of the transplanted trees was currently monitored by ET annually.	
CM10 – Land formation works shall be followed with advanced hydroseeding around taxiways and runways as soon as practical	The advanced hydroseeding works around taxiways and runways were partially completed at this stage and would resume in next phase.	To be implemented

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

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

In accordance with the Updated EM&A Manual, all existing trees shall be protected carefully during construction. Trees unavoidably affected by the works shall be transplanted where practical. In this reporting period, the cumulative total number of retained trees and transplanted trees under the Project remained unchanged (i.e. 49 and 26 respectively) comparing to the previous reporting period. Details of the retained trees, transplanted trees and to-be-transplanted trees under the Project are summarized in **Table 7.5**. Details of the retained trees are to be discussed in the Quarterly EM&A reports.

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

Table 7.3: Monitoring Programme for Landscape and Visual

Table 7.4: Event and Action Plan for Landscape and Visual

Event Action Level			Action		
	ET	IEC	AAHK / PM	Contractor	
Design Check	Check final design conforms to the requirements of EP and prepare report.	Check report. Recommend remedial design if necessary.	Undertake remedial design if necessary.		
Non-conformity on one occasion	Identify source. Inform IEC and AAHK / PM.	Check report. Check Contractor's working method.	Notify Contractor.	Amend working methods to prevent	

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

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

Contract	Retain (nos.)	Transplant	Transplanted (nos.)		
		Establishment Period	Maintenanc e Period	(nos.)	
3302	9	0	0	0	
3503	0	0	9	0	
3508 ⁽¹⁾	37	0	12	0	
3602	0	0	0	0	
3801	3	0	5(2)	0	
Grand Total	49	0	26	0	

Notes:

As some of the site areas have been handed over to Contract 3508, Contractor of Contract 3508 is currently managing the trees that are located within their site area. Existing trees to be managed by Contract 3508 is subject to change after initial tree surveys for each batch of site areas have been conducted by the Contractor.

(2) Three transplanted trees (CT1194, CT1794 and CT1795) were subsequently felled after transplantation. Please refer to **Table 7.6** for details.

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

ID	Transplant Date	Management Stage	Management Agency	Remarks			
CT276	3 May 2018	<u>Long Term Management period</u> Jun 2019 – May 2028	Southern Landside Petrol Filling Station	Establishment Period was completed. Next inspection will be conducted in February 2024. Photos			
CT1253	4 May 2018	<u>Long Term Management period</u> Jun 2019 – May 2028	Southern Landside Petrol Filling Station	of the last inspection in February 2023 were shown in Table 7.7 .			
T835	22 Jan 2020	<u>Long Term Management period</u> Feb 2021 – Jan 2030	AAHK	Establishment Period completed. Next inspection will conducted in February 2024. Pho			
T836	13 Dec 2019	Long Term Management period Feb 2021 – Jan 2030	ААНК	of the last inspection in February 2023 were shown in Table 7.7 .			
T838	22 Jan 2020	<u>Long Term Management period</u> Feb 2021 – Jan 2030	ААНК	_			
T812	21 Dec 2020	<u>Long Term Management period</u> Jan 2022 – Dec 2031	ААНК	Establishment Period wa completed. Next inspection will be			
T814	20 Dec 2020	<u>Long Term Management period</u> Jan 2022 – Dec 2031	ААНК	 conducted in December 2023 Photos of the last inspection in December 2022 can be referred to 			
T815	15 Dec 2020	<u>Long Term Management period</u> Jan 2022 – Dec 2031	ААНК	 Table 7.7 of the Construction Phase Monthly EM&A Report No.84. 			
T829	18 Dec 2020	Long Term Management period Jan 2022 – Dec 2031	ААНК	_			
T830	14 Dec 2020	Long Term Management period Jan 2022 – Dec 2031	ААНК	_			
T831	19 Dec 2020	Long Term Management period Jan 2022 – Dec 2031	ААНК	-			
T1493	6 Jul 2021	Long Term Management period Aug 2022 – Jul 2031	Contract 3508	Establishment Period was completed. Next inspection will be			
T1494	6 Jul 2021	Long Term Management period Aug 2022 – Jul 2031	Contract 3508	 conducted in July 2023. Photos of the last inspection in July 2022 can be referred to Table 7.7 of the 			
T1495	10 Jul 2021	Long Term Management period Aug 2022 – Jul 2031	Contract 3508	 Construction Phase Monthly EM&A Report No.79. 			
T1496	5 Jul 2021	Long Term Management period Aug 2022 – Jul 2031	Contract 3508	-			
T1497	5 Jul 2021	Long Term Management period Aug 2022 – Jul 2031	Contract 3508	-			
T1498	29 Jun 2021	Long Term Management period Aug 2022 – Jul 2031	Contract 3508	-			
		5	Contract 3508	-			
T1499	29 Jun 2021	Long Term Management period Aug 2022 – Jul 2031					
	29 Jun 2021 30 Jun 2021	Aug 2022 – Jul 2031 Long Term Management period	Contract 3508	-			
T1499 T1500 T1501		Aug 2022 – Jul 2031		-			

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

Tree ID	Transplant Date	Management Stage	Management Agency	Remarks
		Aug 2022 – Jul 2031		
T1503	6 Jul 2021	Long Term Management period Aug 2022 – Jul 2031	Contract 3508	-
T1504	24 Jun 2021	Long Term Management period Aug 2022 – Jul 2031	Contract 3508	-
CT1194	4 May 2018	<u>Long Term Management period</u> Jun 2019 – May 2028	Southern Landside Petrol Filling Station	Establishment Period was completed. Uprooted and collapsed due to Typhoon Higos on 18 August 2020. Tree removal was conducted as recommended by tree specialist of the contractor of Southern Landside Petrol Filing Station.
CT1794	3 May 2018	<u>Long Term Management period</u> Jun 2019 – May 2028	AsiaWorld-Expo	Establishment Period was completed. The tree within the land parcel was acquired by the government for construction of emergency hospital to handle COVID19 pandemic at AsiaWorld- Expo. The tree was felled in late 2020.
CT1795	3 May 2018	<u>Long Term Management period</u> Jun 2019 – May 2028	AsiaWorld-Expo	Establishment Period was completed. The tree within the land parcel was acquired by the government for construction of emergency hospital to handle COVID19 pandemic at AsiaWorld- Expo. The tree was felled in late 2020.

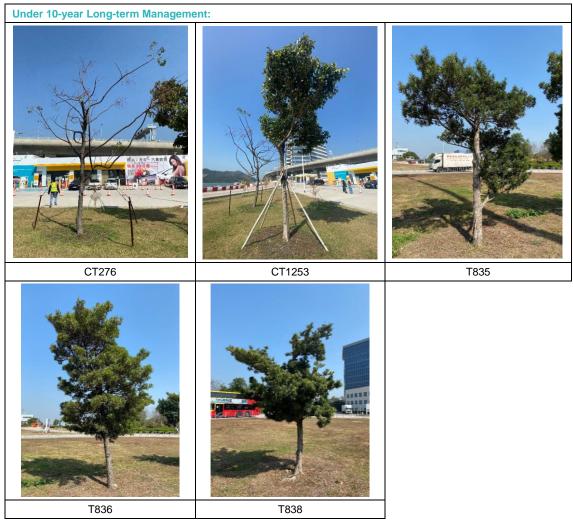


Table 7.7: Photos of the Existing Transplanted Trees Inspected in this Reporting Month

7.3 Land Contamination Assessment

The Supplementary CAP was submitted to EPD pursuant to EP Condition 2.20. The CARs for Golf Course and T2 Emergency Power Supply Systems (EPSS) were submitted to EPD in accordance with EP Condition 1.9 and the Supplementary CAP in which no land contamination issues were identified. EPD has issued no further comment for aforesaid CARs. No leakage was found after the removal of underground fuel pipelines of T2 EPSS and all required additional photos have been submitted to EPD.

According to the approved supplementary CAP, there are 3 remaining locations where site reappraisal / additional site investigation are proposed. Based on the latest construction information, there is no development programme for these locations at this stage. As such, the status of site re-appraisal/ additional site investigation shall be further updated upon latest development programme is available.

7.4 Audit of SkyPier High Speed Ferries

The Marine Travel Routes and Management Plan for High Speed Ferries of SkyPier (the SkyPier Plan) was submitted to the Advisory Council on the Environment for comment and subsequently submitted to and approved by EPD in November 2015 under EP Condition 2.10. The approved SkyPier Plan is available on the dedicated website of the Project. In the SkyPier Plan, AAHK has committed to implement the mitigation measure of requiring HSFs of SkyPier travelling between

HKIA and Zhuhai / Macau to start diverting the route with associated speed control across the area, i.e. Speed Control Zone (SCZ), with high CWD abundance. The route diversion and speed restriction at the SCZ have been implemented since 28 December 2015.

Key audit findings for the SkyPier HSF travelling to/from Macau against the requirements of the SkyPier Plan during the reporting period are summarised in **Table 7.8**. The daily movement of all SkyPier HSFs, including those not using the diverted route, in this reporting period (i.e., 22 to 25 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, 16 ferry movements between HKIA SkyPier and Macau were recorded in February 2023 and the data are presented in **Appendix F**. The time spent by the SkyPier HSF travelling through the SCZ in February 2023 was presented in **Figure 7.1**. It will take 9.6 minutes to travel through the SCZ when the SkyPier HSFs adopt the maximum allowable speed of 15 knots within the SCZ. **Figure 7.1** shows that the SkyPier HSF spent more than 9.6 minutes to travel through the SCZ.

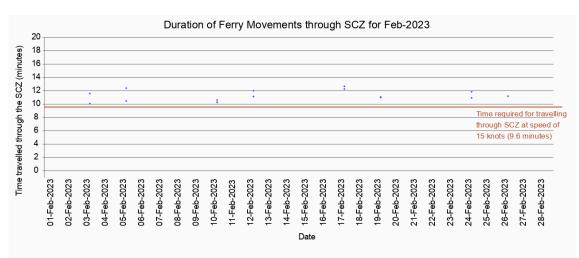


Figure 7.1: Duration of the SkyPier HSFs travelling through the SCZ for February 2023

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

A total of one ferry was recorded with minor route deviation on 26 February 2023. Notice was sent to the ferry operator and the case is under ET investigation by ET.

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

Requirements in the SkyPier Plan	1 to 28 February 2023
Total number of ferry movements recorded and audited for HSF to/from Macau	16
Use diverted route and enter / leave SCZ through Gate Access Points	1 deviation
Speed control in speed control zone	The average speed of all HSFs travelling through the SCZ ranged from 10.7 to 13.5 knots. All HSFs had travelled through the SCZ with average speed under 15 knots in compliance with the SkyPier Plan. The time used by HSFs to travel through SCZ is presented in Figure 7.1 .

Requirements in the SkyPier Plan	1 to 28 February 2023
A maximum daily cap of 125 movements for all SkyPier HSFs including those not using diverted route	22 to 25 daily movements

7.5 Audit of Construction and Associated Vessels

The updated MTRMP-CAV was approved by EPD on 31 May 2022 under EP Condition 2.9. The approved Plan is available on the dedicated website of the Project.

ET carried out the following actions during the reporting period:

- The MSS automatically recorded deviation cases such as speeding, entering no entry zone and not travelling through the designated gate. ET conducted checking to ensure the MSS records deviation cases accurately.
- Deviations such as speeding in the works area, entered no entry zone, and entering from non-designated gates were identified. All the concerned contractors were reminded to comply with the requirements of the MTRMP-CAV during the bi-weekly Construction Traffic Control Centre (CTCC) audit.
- Three-month rolling programmes (one month record and three months forecast) for construction vessel activities were received from the contractors in order to help maintain the number of construction and associated vessels on site to a practicable minimal level.

7.6 Implementation of Dolphin Exclusion Zone

The DEZ Plan was submitted in accordance with EP Condition 3.1 (v) requirement and Section 10.3 of the Manual, and approved in April 2016 by EPD. The ET checked the contractors' dolphin sighting record and relevant records to audit the implementation of DEZ and there was no finding.

During the reporting period, there was no dolphin sightings within the DEZ.

7.7 Status of Submissions under Environmental Permits

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

EP Condition					
2.1	Complaint Management Plan	-			
2.4	Management Organizations	-			
2.5	Construction Works Schedule and Location Plans	-			
2.7	Marine Park Proposal	-			
2.8	Marine Ecology Conservation Plan	-			
2.9	Marine Travel Routes and Management Plan for Construction and Associated Vessels	-			
2.10	Marine Travel Routes and Management Plan for High Speed Ferries of SkyPier	Accepted / approved by EPD			
2.11	Marine Mammal Watching Plan	-			
2.12	Coral Translocation Plan	-			
2.13	Fisheries Management Plan	-			
2.14	Egretry Survey Plan	-			
2.15	Silt Curtain Deployment Plan	-			
2.16	Spill Response Plan	-			
2.17	Detailed Plan on Deep Cement Mixing	-			

Table 7.9: Status of Submissions under Environmental Permit

EP Condition	Submission	Status
2.18	Landscape & Visual Plan	
2.19	Waste Management Plan	-
2.20	Supplementary Contamination Assessment Plan	-
3.1	Updated EM&A Manual	-
3.4	Baseline Monitoring Reports	-

7.8 Compliance with Other Statutory Environmental Requirements

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

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

7.9.1 Complaints

Complaint received in the previous reporting period

A complaint regarding dust nuisance at the Western Quay was received on 19 December 2022. The case was investigated by ET in accordance with the Manual and the Complaint Management Plan of the Project. The ET recognized the location, identified related contractors and requested them to provide information regarding the complaint. According to the information received, an alarm fault led to the dust nuisance incident and the system was rectified subsequently. During post-incident inspections, no dust nuisance was observed and that the faulty flashlight of the related alarm system was repaired. The ET would continue to remind all 3RS contractors to properly implement dust mitigation measures in their works sites in accordance with the implementation schedule in the Updated EM&A Manual. Hence, the case was considered closed.

7.9.2 Notifications of Summons or Status of Prosecution

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

7.9.3 Cumulative Statistics

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

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

8.1 Construction Programme for the Coming Reporting Period

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

Reclamation Works:

Contract 3206 Main Reclamation Works

Backfilling works.

Airfield Works:

Contract 3302 Eastern Vehicular Tunnel Advance Works

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

Contract 3305 Airfield Ground Lighting System

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

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

• Equipment installation.

Contract 3307 Fire Training Facility

- Architectural, builder's and finishing works; and
- Drainage and utilities works;

Contract 3308 Foreign Object Debris Detection System

• Rectification work for handover sensor system.

Contract 3310 North Runway Modification Works

- Architectural, builder's work and finishing works;
- Excavation works;
- Seawall construction;
- Construction of stormwater drainage;
- Construction of walls and slabs;
- Jet grouting and asphalt paving works;
- Installation of pipe piles; and
- Backfilling works.

Third Runway Concourse

Contract 3403 New Integrated Airport Centres Building and Civil Works

- Roofing installation of covered walkway; and
- Demolition works.

Contract 3404 Integrated Airport Control System

• System maintenance.

Contract 3405 Third Runway Concourse Foundation and Substructure Works

- Bored piling;
- Structure works;
- Excavation; and
- Road formation.

Contract 3408 Third Runway Concourse and Apron Works

- Building services and Architectural, builder's work and finishing Works;
- Foundation Works for Concrete Batching Plant;
- Reinforced concrete works; and
- Excavation.

Terminal 2 Expansion:

Contract 3508 Terminal 2 Expansion Works

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

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

Contract 3601 New Automated People Mover System (TRC Line)

• Guidebeam installation.

Contract 3602 Existing APM System Modification Works

- Erection and fixing of power rail; and
- Concrete plinth construction.

Contract 3603 Baggage Handling System (BHS)

BHS installation.

Construction Support (Facilities):

Contract 3721 Construction Support Infrastructure Works

- Watermain connection works;
- Sewage phasing works for fire training facility.

Airport Support Infrastructure:

Contract 3801 APM and BHS Tunnels on Existing Airport Island

- Backfilling works;
- Wall construction.

Contract 3802 APM and BHS Tunnels and Related Works

- Excavation and lateral supports;
- Box Culvert Construction;
- Tunnel construction;
- Electrical and mechanical works; and
- Architectural, builder's work and finishing works.

Contract 3804 East and Landside Fire Stations

- Site setup and formation works;
- Preparation works of bored pile;
- Excavation and concreting; and

• Ground Investigation works.

Construction Support (Services / Licenses):

Contract 3901A Concrete Batching Facility

• Operation of concrete batching plant and material conveyor belt.

Contract 3901B Concrete Batching Facility

• Operation of concrete batching plant and material conveyor belt.

Contract 3908 Quay Management Services

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

Contract 3913 Asphalt Batching Plant

• Operation of asphalt batching plant.

8.2 Key Environmental Issues for the Coming Reporting Period

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

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

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

8.3 Monitoring Schedule for the Coming Reporting Period

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

8.4 Review of the Key Assumptions Adopted in the EIA Report

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

9 Conclusion and Recommendation

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

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

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

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

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

On the implementation of the SkyPier Plan, the daily movements of all SkyPier HSFs in the reporting period, including those not using the diverted route, were in the range of 22 to 25 daily movements, which are within the maximum daily cap of 125 daily movements. A total of 16 HSFs movements under the SkyPier Plan were recorded in the reporting period. The average speed of all HSFs travelling through the SCZ ranged from 10.7 to 13.5 knots. All HSFs had travelled through the SCZ with average speed under 15 knots in compliance with the SkyPier Plan. One deviation from the diverted route in February 2023 was recorded in the HSF monitoring and is under investigation by the ET. 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 and not travelling through the designated gates. ET conducted checking to ensure the MSS records all deviation cases accurately. Deviations including speeding in the works area, entered no entry zone, and entry from non-designated gates were reviewed by ET. All the concerned captains were reminded by the contractor's CTCC representative to comply with the requirements of the MTRMP-CAV. The ET reminded contractors that all vessels shall avoid entering the no-entry zone, in particular the Brothers Marine Park and the Sha Chau & Lung Kwu Chau Marine Park. Three-month rolling programmes for construction vessel activities, which ensures the proposed vessels are necessary and minimal through good planning, were also received from contractors.

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Figures

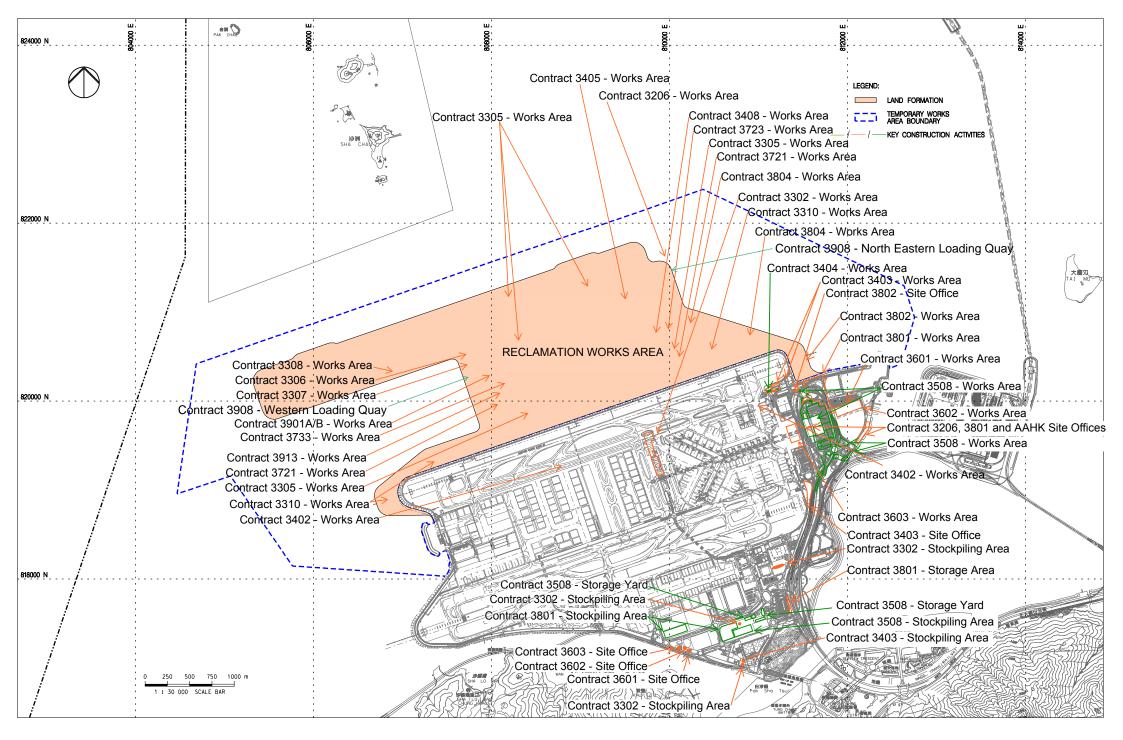
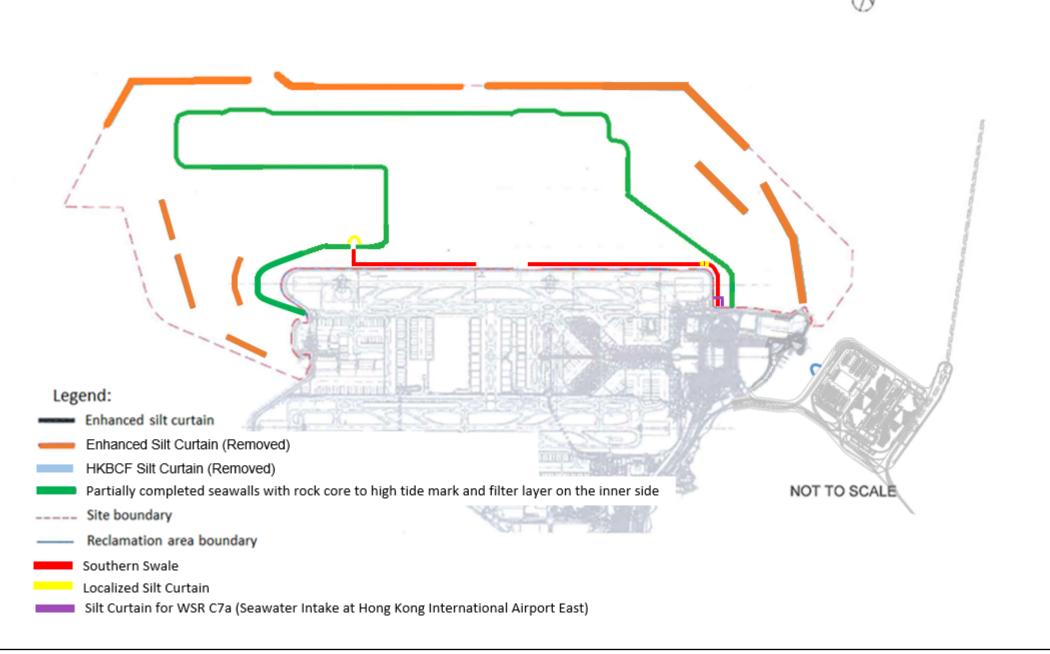
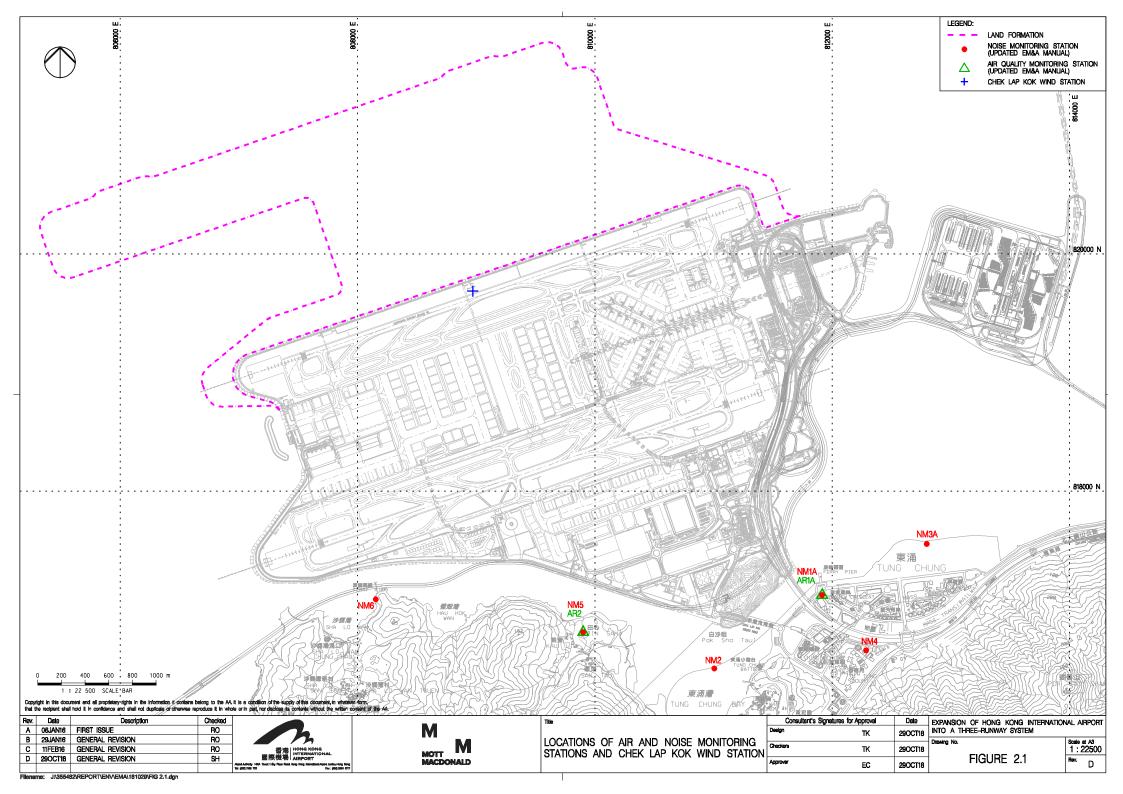
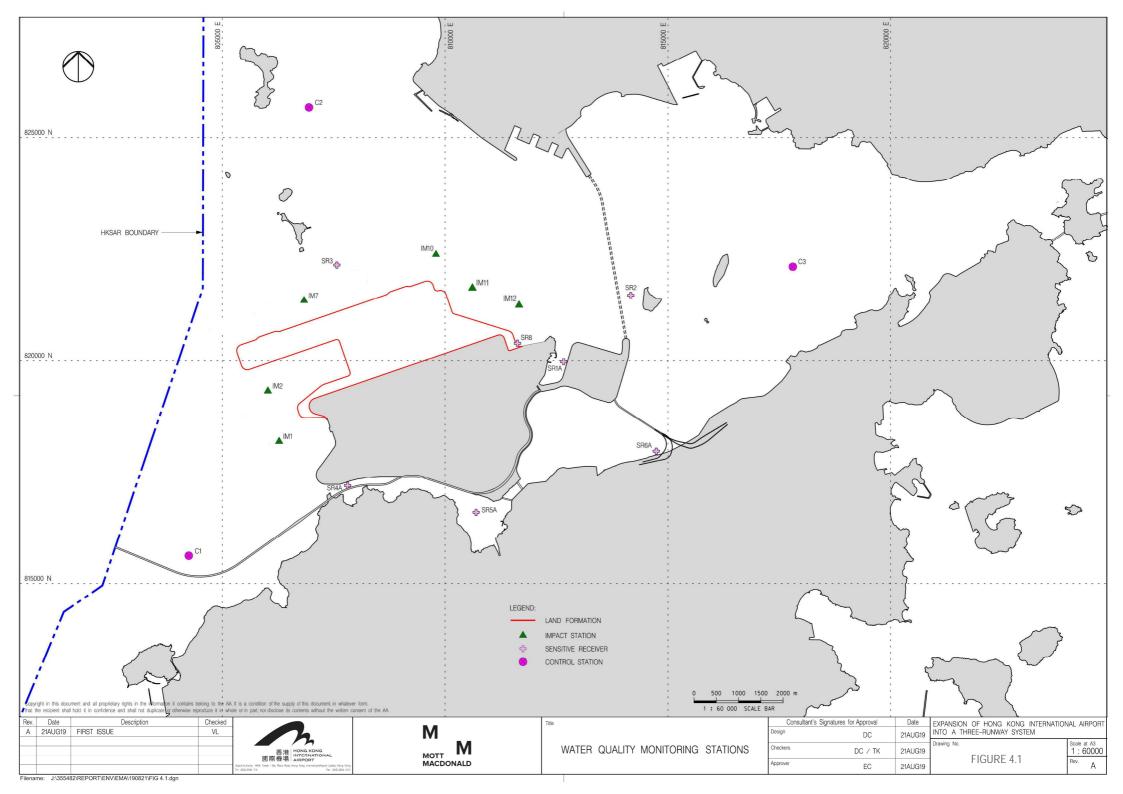
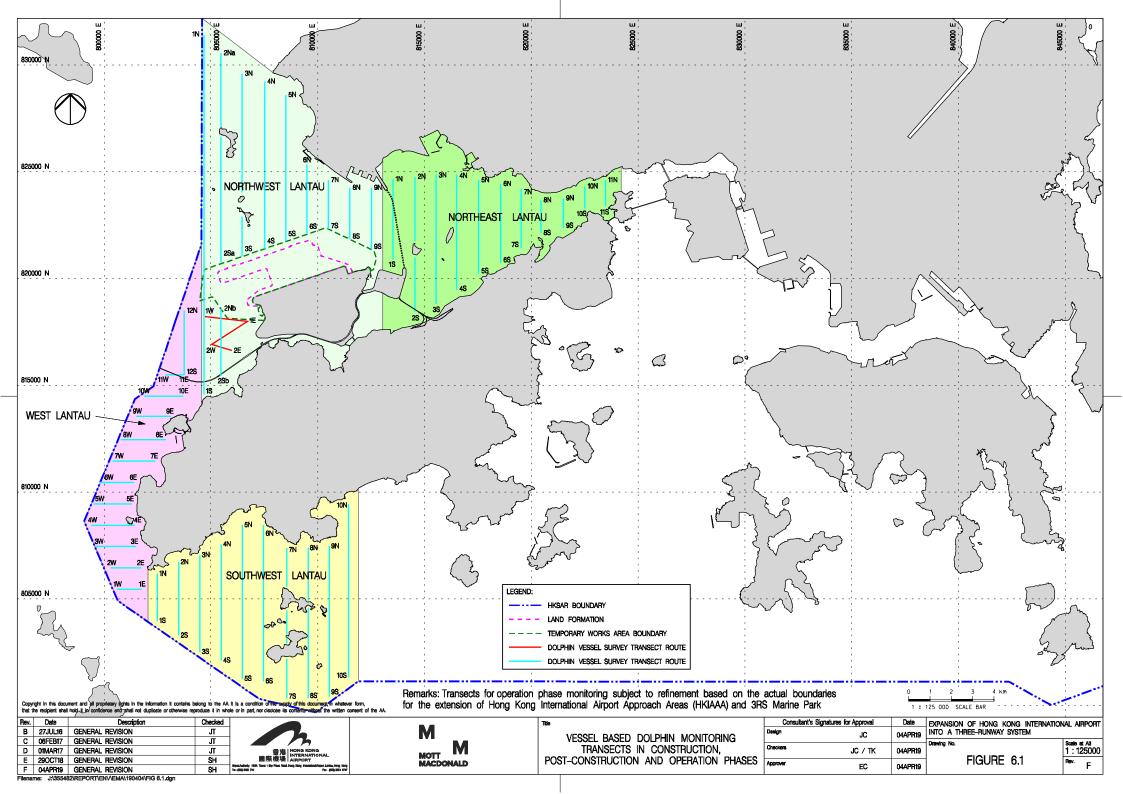


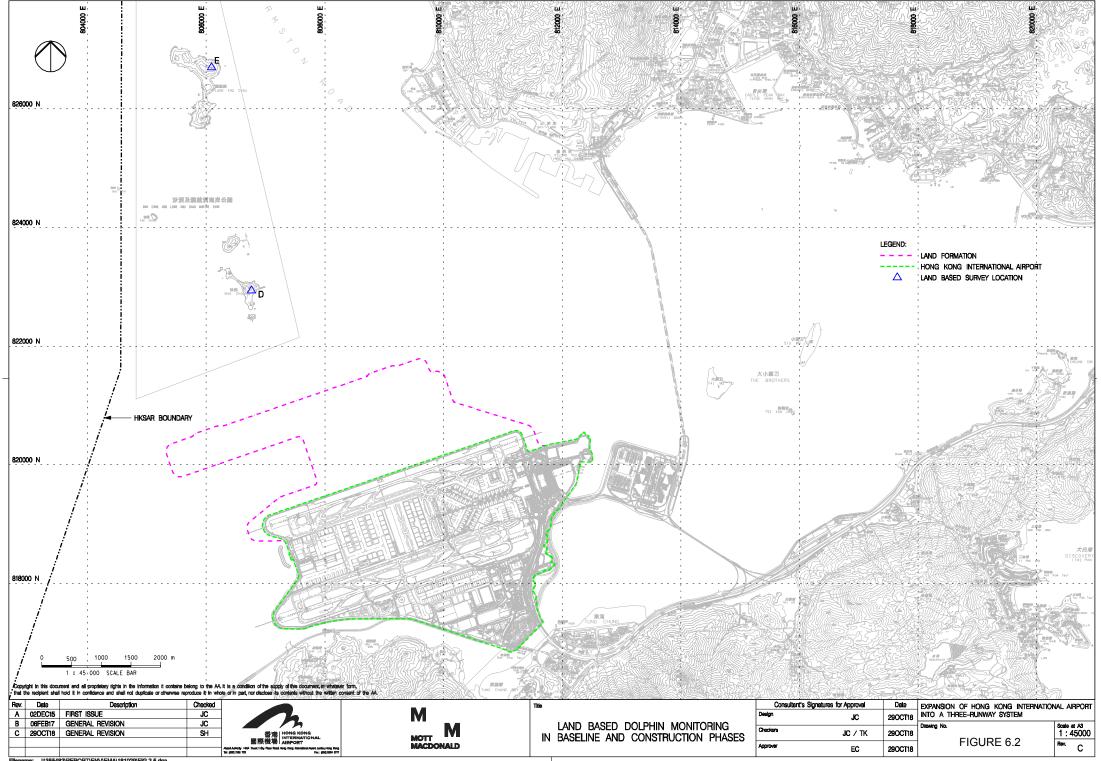
FIGURE 1.1 LOCATIONS OF KEY CONSTRUCTION ACTIVITIES



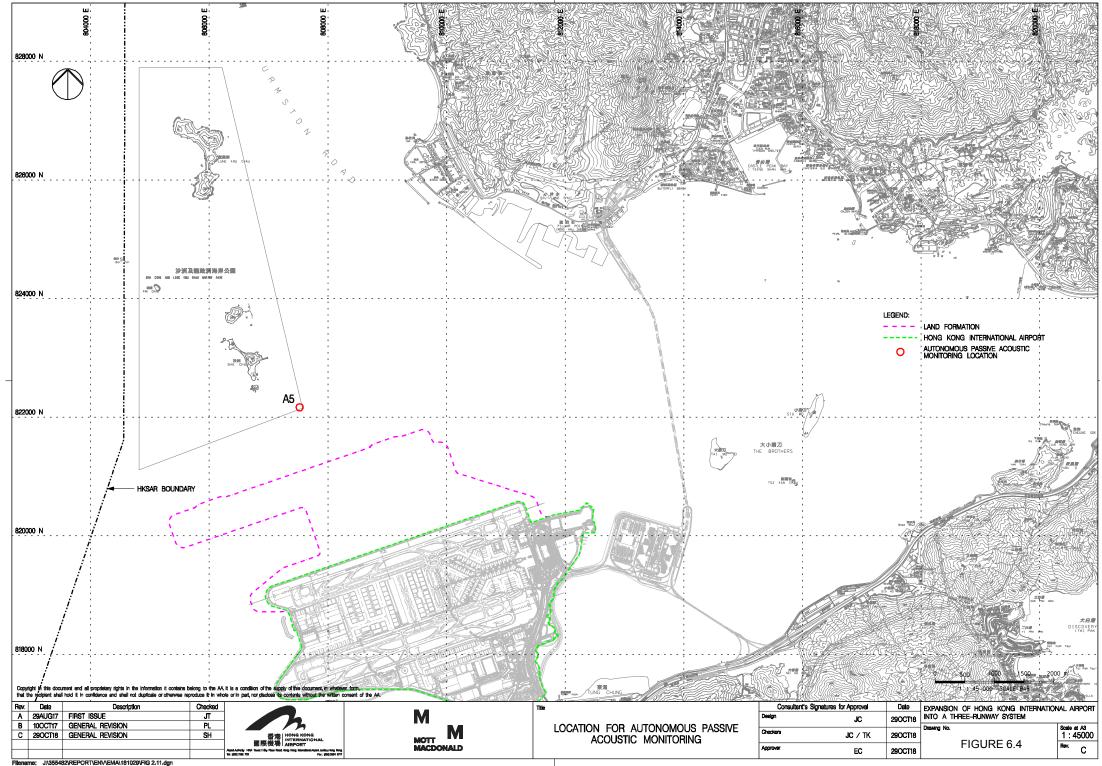








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Appendix A. Environmental Mitigation Implementation Schedule (EMIS) for Construction Phase



Environmental Mitigation Implementation Schedule (EMIS) for Construction Phase

	EM&A Ref.	EP Condition		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	2.1	-	Dust control practices as stipulated in the Air Pollution Control (Construction Dust) Regulation should be adopted. These practices include: Good Site Management	Within construction site / Duration of the construction phase	I
			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 carried out in a manner minimising generation of fugitive dust emissions. The material should be handled properly to prevent fugitive dust emission before cleaning.		
			Disturbed Parts of the Roads	Within construction	T
			 Each and every main temporary access should be paved with concrete, bituminous hardcore materials or metal plates and kept clear of dusty materials; or 	site / Duration of the construction phase	
			 Unpaved parts of the road should be sprayed with water or a dust suppression chemical so as to keep the entire road surface wet. 		
			Exposed Earth	Within construction	1
			 Exposed earth should be properly treated by compaction, hydroseeding, vegetation planting or seating with latex, vinyl, bitumen within six months after the last construction activity on the site or part of the site where the exposed earth lies. 	site / Duration of the construction phase	



	EM&A Ref.	EP Condition	Condition	Location / Duration of measures	Mitigation Measures
				Timing of completion of measures	Implemented?*
			Loading, Unloading or Transfer of Dusty Materials	Within construction	I
			 All dusty materials should be sprayed with water immediately prior to any loading or transfer operation so as to keep the dusty material wet. 	site / Duration of the construction phase	
			Debris Handling	Within construction	I
			 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 	site / Duration of the construction phase	
			 Before debris is dumped into a chute, water should be sprayed so that it remains wet when it is dumped. 		
			Transport of Dusty Materials	Within construction	T
			 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. 	site / Duration of the construction phase	
			Wheel washing	Within construction	I
			 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. 	site / Duration of the construction phase	
			Use of vehicles	Within construction	I
			 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; 	site / Duration of the construction phase	
			 Immediately before leaving the construction site, every vehicle should be washed to remove any dusty materials from its body and wheels; and 		
			 Where a vehicle leaving the construction site is carrying a load of dusty materials, the load should be covered entirely by clean impervious sheeting to ensure that the dusty materials do not leak from the vehicle. 		
			Site hoarding	Within construction	I
			 Where a site boundary adjoins a road, street, service lane or other area accessible to the public, hoarding of not less than 2.4m high from ground level should be provided along the entire length of that portion of the site boundary except for a site entrance or exit. 	site / Duration of the construction phase	
5.2.6.5	2.1	-	Best Practices for Concrete Batching Plant	Within Concrete	I
			The relevant best practices for dust control as stipulated in the Guidance Note on the Best Practicable Means for Cement Works (Concrete Batching Plant) BPM 3/2 as well as in the future Specified Process licence should be adopted. The best practices are recommended to be applied to both the land based and floating concrete batching plants. Best practices include:	Batching Plant / Duration of the construction phase	



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



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



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion 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	Within Concrete	1
			 The aggregates with a nominal size less than or equal to 5 mm shall be stored in totally enclosed structure such as storage bin and shall not be handled in open area; 	Batching Plant / Duration of the construction phase	
			 Where there is sufficient buffer area surrounding the plant, ground stockpiling may be used. The stockpile shall be enclosed at least on top and three sides and with flexible curtain to cover the entrance side. If these aggregates are stored above the feeding hopper, they shall be enclosed at least on top and three sides and be wetted on the surface to prevent wind-whipping; 		
			 The aggregates with a nominal size greater than 5 mm should preferably be stored in totally enclosed structure. Aggregates stockpile that is above the feeding hopper shall be enclosed at least on top and three sides. If open stockpiling is used, the stockpiles shall be enclosed on three sides with the enclosure wall sufficiently higher than the top of the stockpile to prevent wind whipping; 		
			 Belt conveyors shall be enclosed on top and two sides and provided with a metal board at the bottom to eliminate any dust emission due to the wind-whipping effect. Other type of enclosure will also be accepted by EPD if it can be demonstrated that the proposed enclosure can be achieve the same performance; 		
			 Scrapers shall be provided at the turning points of all belt conveyors inside the chute of the transfer points to remove dust adhered to the belt surface; 		
			 All conveyor transfer points shall be totally enclosed. Openings for the passages of conveyors shall be fitted with adequate flexible seals; and 		
			 All materials returned from dust collection system shall be transferred in enclosed system and shall be stored inside bins or enclosures. 		
			Hot feed side	Within Concrete	I
			 The inlet and outlet of the rotary dryer shall be enclosed and ducted to a dust extraction and collection system such as a fabric filter. The particulate and gaseous concentration at the exhaust outlet of the dust collector shall not exceed the required limiting values; 	Batching Plant / Duration of the construction phase	
			 The bucket elevator shall be totally enclosed and the air be extracted and ducted to a dust collection system to meet the required particulates limiting value; 		
			 All vibratory screens shall be totally enclosed and dust tight with close-fitted access inspection opening. Gaskets shall be installed to seal off any cracks and edges of any inspection openings; 		
			 Chutes for carrying hot material shall be rigid and preferably fitted with abrasion resistant plate inside. They shall be inspected daily for leakages; 		
			 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 		



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



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures	Mitigation Measures Implemented?^
				Timing of completion of measures	
			 The outlet of all primary crushers, and both inlet and outlet of all secondary and tertiary crushers, if not installed inside a reasonably dust tight housing, shall be enclosed and ducted to a dust extraction and collection system such as a fabric filter; 		
			 The inlet hopper of the primary crushers shall be enclosed on top and 3 sides to contain the emissions during dumping of rocks from trucks. The rock while still on the trucks shall be wetted before dumping; 		
			Water sprayers shall be installed and operated in strategic locations at the feeding inlet of crushers; and		
			 Crusher enclosures shall be rigid and be fitted with self-closing doors and close-fitting entrances and exits. Where conveyors pass through the crusher enclosures, flexible covers shall be installed at entries and exits of the conveyors to the enclosure. 		
			Vibratory screens and grizzlies	Within Concrete	N/A as there was
			 All vibratory screens shall be totally enclosed in a housing. Screenhouses shall be rigid and reasonably dust tight with self-closing doors or close-fitted entrances and exits for access. Where conveyors pass through the screenhouse, flexible covers shall be installed at entries and exits of the conveyors to the housing. Where containment of dust within the screenhouse structure is not successful then a dust extraction and collection system shall be provided; and 	Batching Plant / Duration of the construction phase	no rock crushing plant at this stage
			 All grizzlies shall be enclosed on top and 3 sides and sufficient water sprayers shall be installed at their feeding and outlet areas. 		
			Belt conveyors	Within Concrete	N/A as there was
			 Except for those conveyors which are placed within a totally enclosed structure such as a screenhouse or those erected at the ground level, all conveyors shall be totally enclosed with windshield on top and 2 sides; 	Batching Plant / Duration of the construction phase	no rock crushing plant at this stage
			 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.		
			Storage piles and bins	Within Concrete	N/A as there was
			 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. 	Batching Plant / Duration of the construction phase	no rock crushing plant at this stage



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

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures	Mitigation Measures Implemented?^
			Timing of completion of measures	in promotion i	
7.5.6	4.3	-	Adoption of QPMEQPME 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	1
			Water Quality Impact – Construction Phase		
8.8.1.2 and 8.8.1.3	5.1	2.26	 Marine Construction Activities General Measures to be Applied to All Works Areas Barges or hoppers shall not be filled to a level which will cause overflow of materials or pollution of water during loading or transportation; Use of Lean Material Overboard (LMOB) systems shall be prohibited; Excess materials shall be cleaned from the decks and exposed fittings of barges and hopper dredgers before the vessels are moved; Plants should not be operated with leaking pipes and any pipe leakages shall be repaired quickly; Adequate freeboard shall be maintained on barges to reduce the likelihood of decks being washed by wave action; All vessels shall be sized such that adequate clearance is maintained between vessels and the seabed at all states of the tide to ensure that undue turbidity is not generated by turbulence from vessel movement	Within construction site / Duration of the construction phase	1
			 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 waterwater meets the WPCO/TM requirements before discharge. No direct discharge of contaminated water is permitted. 		



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures	Mitigation Measures Implemented?^
				Timing of completion of measures	inpromotion
			Specific Measures to be Applied to All Works Areas	Within construction	I – For marine
			 The daily maximum production rates shall not exceed those assumed in the water quality assessment in the EIA report; 	site / Duration of the construction phase	filling
			 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; 		C – Completed in Nov 2020 for san blanket
			 An advance seawall of at least 200m to be constructed (comprising either rows of contiguous permanent steel cells completed above high tide mark or partially completed seawalls with rock core to high tide mark and filter layer on the inner side) prior to commencement of marine filling activities; 		C – Completed in May 2018
			 Closed grab dredger shall be used to excavate marine sediment; 		
			 Silt curtains surrounding the closed grab dredger shall be deployed in accordance with the Silt Curtain Deployment Plan; and 		(The arrangement of silt curtain has been modified. The details can be referred to Sill Curtain Deployment Plan)
			 The Silt Curtain Deployment Plan shall be implemented. 		I
			Specific Measures to be Applied to Land Formation Activities prior to Commencement of Marine Filling	Within construction	N/A
			 Works Double layer 'Type III' silt curtains to be applied around the active eastern works areas prior to commencement of sand blanket laying activities. The silt curtains shall be configured to minimise SS release during ebb tides. A silt curtain efficiency test shall be conducted to validate the performance of the silt curtains; 	site / Duration of the construction phase	(The arrangement of silt curtain has been modified. The details can be referred to Sil Curtain Deployment Plan)
			 Double layer silt curtains to enclose WSRs C7a and silt screens installed at the intake points for both WSR C7a and C8 prior to commencement of construction; and 	-	I – For C7a
					C – Completed ir Dec 2021 for C8
				-	*(The requirement of silt curtain / screen has been modified. The details can be referred to Silt Curta Deployment Plan)
			The silt curtains and silt screens should be regularly checked and maintained.		



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures	Mitigation Measures Implemented?^
				Timing of completion of measures	implemented ?*
			Specific Measures to be Applied to Land Formation Activities during Marine Filling Works	Within construction	I
			 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; 	site / Duration of the construction phase	*(The arrangement o silt curtain has been modified. The details can be referred to Sil Curtain Deployment Plan)
			 Double layer silt curtains to be applied at the south-western opening prior to commencement of marine 		N/A
			filling activities;		(The arrangement of silt curtain has been modified. The details can be referred to Sil Curtain Deployment Plan)
			 Double layer silt curtain to enclose WSR C7a and silt screens installed at the intake points for both WSR C7a and C8 prior to commencement of marine filling activities; and 		I – For C7a
					C – Completed in Dec 2021 for C8
					(The requirement of silt curtain / screen has been modified. The details can be referred to Silt Curta Deployment Plan)
			The silt curtains and silt screens should be regularly checked and maintained.		I
			Specific Measures to be Applied to the Field Joint Excavation Works for the Submarine Cable Diversion	Within construction	N/A – the field
			 Only closed grabs designed and maintained to avoid spillage shall be used and should seal tightly when operated. Excavated materials shall be disposed at designated marine disposal area in accordance with the Dumping at Sea Ordinance (DASO) permit conditions; and 	site / Duration of the construction phase	joint excavation works for the submarine cable diversion will no
			 Silt curtains surrounding the closed grab dredger to be deployed as a precautionary measure. 		longer be conducted anymore
8.8.1.4	5.1	-	Modification of the Existing Seawall	At the existing	I
			 Silt curtains shall be deployed around the seawall modification activities to completely enclose the active works areas, and care should be taken to avoid splashing of rockfill / rock armour into the surrounding marine environment. For the connecting sections with the existing outfalls, works for these connection areas should be undertaken during the dry season in order that individual drainage culvert cells may be isolated for interconnection works. 	northern seawall / Duration of the construction phase	



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures	Mitigation Measures Implemented?^
				Timing of completion of measures	implemented ?**
8.8.1.5	5.1	-	 Construction of New Stormwater Outfalls and Modifications to Existing Outfalls During operation of the temporary drainage channel, runoff control measures such as bunding or silt fence shall be provided on both sides of the channel to prevent accumulation and release of SS via the temporary channel. Measures should also be taken to minimise the ingress of site drainage into the culvert excavations. 	Within construction site / Duration of the construction phase	I
8.8.1.6 8.8.1.7	5.1	2.27	Piling Activities for Construction of New Runway Approach Lights and HKIAAA Marker Beacons Silt curtains shall be deployed around the piling activities to completely enclose the piling works and care should be taken to avoid spillage of excavated materials into the surrounding marine environment.	Within construction site / Duration of the construction phase	C – For approach lights N/A for marker beacons as HKIAAA Marker Beacons would be replaced by buoys
			 For construction of the eastern approach lights at the CMPs Ground improvement via DCM using a close-spaced layout shall be completed prior to commencement of piling works; Steel casings shall be installed to enclose the excavation area prior to commencement of excavation; The excavated materials shall be removed using a closed grab within the steel casings; No discharge of the cement mixed materials into the marine environment will be allowed; and Excavated materials shall be treated and reused on-site. 		C – Completed in Oct 2021
8.8.1.8	5.1	-	Construction of Site Runoff and Drainage The site practices outlined in ProPECC Note PN 1/94 should be followed as far as practicable in order to minimise surface runoff and the chance of erosion. The following measures are recommended:	Within construction site / Duration of the construction phase	
		-	 Install perimeter cut-off drains to direct off-site water around the site and implement internal drainage, erosion and sedimentation control facilities. Channels, earth bunds or sandbag barriers should be provided on site to direct storm water to silt removal facilities. The design of the temporary on-site drainage system should be undertaken by the Contractors prior to the commencement of construction (for works areas located on the existing Airport island) or as soon as the new land is completed (for works areas located on the new landform); 	-	I
			 Sand/silt removal facilities such as sand/silt traps and sediment basins should be provided to remove sand/silt particles from runoff to meet the requirements of the TM-DSS standards under the WPCO. The design of efficient silt removal facilities should make reference to the guidelines in Appendix A1 of ProPECC Note PN 1/94. Sizes may vary depending upon the flow rate. The detailed design of the sand/silt traps should be undertaken by the Contractors prior to the commencement of construction; 		1



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			 All drainage facilities and erosion and sediment control structures should be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly during rainstorms. Deposited silt and grit should be regularly removed, at the onset of and after each rainstorm to ensure that these facilities are functioning properly; 		I
			 Measures should be taken to minimize the ingress of site drainage into excavations. If excavation of trenches in wet periods is necessary, they should be dug and backfilled in short sections wherever practicable. Water pumped out from foundation excavations should be discharged into storm drains via silt removal facilities; 	-	I
			 In the event that contaminated groundwater is identified at excavation areas, this should be treated on- site using a suitable wastewater treatment process. The effluent should be treated according to the requirements of the TM-DSS standards under the WPCO prior to discharge to foul sewers or collected for proper disposal off-site. No direct discharge of contaminated groundwater is permitted; and 	_	1
			 All vehicles and plant should be cleaned before leaving a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. An adequately designed and sited wheel washing facility should be provided at construction site exits. Wash-water should have sand and silt settled out and removed regularly to ensure the continued efficiency of the process. The section of access road leading to, and exiting from, the wheel-wash bay to the public road should be paved with sufficient backfall toward the wheel-wash bay to prevent vehicle tracking of soil and silty water to public roads and drains. All washwater should be treated according to the requirements of the TM-DSS standards under the WPCO prior to discharge. 		1
			 Open stockpiles of construction materials or construction wastes on-site should be covered with tarpaulin or similar fabric during rainstorms. Measures should be taken to prevent the construction materials, soil, silt or debris from washing away into the drainage system; 		I
			 Manholes (including newly constructed ones) should be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system and to prevent stormwater runoff being directed into foul sewers; and 		I
			 Precautionary measures should be taken at any time of the year when rainstorms are likely. Actions to be taken when a rainstorm is imminent or forecasted are summarized in Appendix A2 of ProPECC Note PN 1/94. This includes actions to be taken during and/or after rainstorms. Particular attention should be paid to the control of silty surface runoff during storm events. 		I
8.8.1.9	5.1	-	 Sewage Effluent from Construction Workforce Temporary sanitary facilities, such as portable chemical toilets, should be employed on-site where necessary to handle sewage from the workforce. A licensed contractor should be employed to provide appropriate and adequate portable toilets and be responsible for appropriate disposal and maintenance. 	Within construction site / During construction phase	1



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures	Mitigation Measures
			Timing of completion of measures	Implemented?^	
8.8.1.10	5.1		General Construction Activities	Within construction	I
8.8.1.11			 Construction solid waste, debris and refuse generated on-site should be collected, handled and disposed of properly to avoid entering any nearby storm water drain. Stockpiles of cement and other construction materials should be kept covered when not being used; and 	site / During construction phase	
			• Oils and fuels should only be stored in designated areas which have pollution prevention facilities. To prevent spillage of fuels and solvents to any nearby storm water drain, all fuel tanks and storage areas should be provided with locks and be sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank. The bund should be drained of rainwater after a rain event.		
8.8.1.12	5.1	2.28	Drilling Activities for the Submarine Aviation Fuel Pipelines	Within construction	C – Completed in
8.8.1.13			To prevent potential water quality impacts at Sha Chau, the following measures shall be applied:	site / During	Jan 2019
			 A 'zero-discharge' policy shall be applied for all activities to be conducted at Sha Chau; 	construction phase	
			No bulk storage of chemicals shall be permitted; and		
			• A containment pit shall be constructed around the drill holes. This containment pit shall be lined with impermeable lining and bunded on the outside to prevent inflow from off-site areas.		
			At the airport island side of the drilling works, the following measures shall be applied for treatment of wastewater:	Within construction site / During construction phase	C – Completed in Jan 2019
		treatment before discharge	 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. 		
			Waste Management Implication – Construction Phase		
10.5.1.1	7.1	-	Opportunities to minimise waste generation and maximise the reuse of waste materials generated by the project have been incorporated where possible into the planning, design and construction stages, and the following measures have been recommended:		
			 The relevant construction methods (particularly for the tunnel works) and construction programme have been carefully planned and developed to minimise the extent of excavation and to maximise the on-site reuse of inert C&D materials generated by the project as far as practicable. Temporary stockpiling areas will also be provided to facilitate on-site reuse of inert C&D materials; 	Project Site Area / During design and construction phase	1
			 Priority should be given to collect and reuse suitable inert C&D materials generated from other concurrent projects and the Government's PFRF as fill materials for the proposed land formation works; 	-	I

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			 Only non-dredged ground improvement methods should be adopted in order to completely avoid the need for dredging and disposal of marine sediment for the proposed land formation work; 		I
			 Excavation work for constructing the APM tunnels, BHS tunnels and airside tunnels will not be down to the CMPs beneath the fill materials in order to avoid excavating any sediments; and 	-	I
			 For the marine sediments expected to be excavated from the piling works of TRC, APM & BHS tunnels, airside tunnels and other facilities on the proposed land formation area, piling work of marine sections of the approach lights and HKIAAA beacons, basement works for some of T2 expansion area and excavation works for the proposed APM depot should be treated and reused on-site as backfilling materials, although required treatment level / detail and the specific re-use mode are under development. 	-	1
10.5.1.1	7.1	-	The following good site practices should be performed during the construction activities include:	Project Site Area /	I
			 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; 	Construction Phase	
			 Training of site personnel in proper waste management and chemical waste handling procedures; 		
			 Provision of sufficient waste disposal points and regular collection for disposal; 		
			 Appropriate measures to minimise windblown litter and dust during transportation of waste by either covering trucks by tarpaulin/ similar material or by transporting wastes in enclosed containers. The cover should be extended over the edges of the sides and tailboards; 		
			 Stockpiles of C&D materials should be kept wet or covered by impervious sheets to avoid wind-blown dust; 		
			 All dusty materials including C&D materials should be sprayed with water immediately prior to any loading transfer operation so as to keep the dusty material wet during material handling at the barging points/ stockpile areas; 		
			 C&D materials to be delivered to and from the project site by barges or by trucks should be kept wet or covered to avoid wind-blown dust; 		
			 The speed of the trucks including dump trucks carrying C&D or waste materials within the site should be controlled to about 10 km/hour in order to reduce the adverse dust impact and secure the safe movement around the site; and 		
			 To avoid or minimise dust emission during transport of C&D or waste materials within the site, each and every main temporary access should be paved with concrete, bituminous hardcore materials or metal plates and kept clear of dusty materials. Unpaved parts of the road should be sprayed with water or a dust suppression chemical so as to keep the entire road surface wet. 		
10.5.1.3	7.1	-	The following practices should be performed to achieve waste reduction include:	Project Site Area /	Ι
			 Use of steel or aluminium formworks and falseworks for temporary works as far as practicable; 	Construction Phase	

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			 Adoption of repetitive design to allow reuse of formworks as far as practicable; 		
			 Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal; 		
			 Encourage collection of aluminium cans, PET bottles and paper by providing separate labelled bins to enable these wastes to be segregated from other general refuse generated by the work force; 		
			 Any unused chemicals or those with remaining functional capacity should be collected for reused as far as practicable; 		
			 Proper storage and site practices to minimise the potential for damage or contamination of construction materials; and 		
			 Plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste. 		
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	Ι
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;		I
			 The loading, unloading, handling, transfer or storage of treated and untreated sediment should be carried out in such a manner to prevent or minimise dust emissions; 		1
			 All practical measures, including but not limited to speed control for vehicles, should be taken to minimise dust emission; 		1
			 Good housekeeping should be maintained at all times at the sediment treatment facility and storage area; 		I
			 Treated and untreated sediment should be clearly separated and stored separately; and 		1
			 Surface runoff from the enclosed area should be properly collected and stored separately, and then properly treated to levels in compliance with the relevant effluent standards as required by the Water Pollution Control Ordinance before final discharge. 		I



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
10.5.1.18	7.1	-	The marine sediments to be removed from the cable field joint area would be disposed of at the designated disposal sites to be allocated by the MFC. The following mitigation measures should be strictly followed to minimise potential impacts on water quality during transportation of the sediments requiring Type 1 disposal:	Project Site Area / Construction Phase	N/A – the field joint excavation works for the
			 Bottom opening of barges shall be fitted with tight fitting seals to prevent leakage of material; 		submarine cable
			 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 		diversion will no longer be conducted anymore
			 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. 		anymore
10.5.1.19	7.1	-	Contractor should register with the EPD as a chemical waste producer and to follow the relevant guidelines. The following measures should be implemented:	Project Site Area / Construction Phase	Ι
			 Good quality containers compatible with the chemical wastes should be used; 		
			 Incompatible chemicals should be stored separately; 		
			 Appropriate labels must be securely attached on each chemical waste container indicating the corresponding chemical characteristics of the chemical waste, such as explosive, flammable, oxidizing, irritant, toxic, harmful, corrosive, etc.; and 		
			 The contractor will use a licensed collector to transport and dispose of the chemical wastes at the approved Chemical Waste Treatment Centre or other licensed recycling facilities, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation. 		
10.5.1.20	7.1	-	General refuse should be stored in enclosed bins or compaction units separated from inert C&D material. A reputable waste collector should be employed by the contractor to remove general refuse from the site for disposal at designated landfill sites. An enclosed and covered area should be provided to reduce the occurrence of 'windblown' light material.	Project Site Area / Construction Phase	I
10.5.1.21	7.1	-	The construction contractors will be required to regularly check and clean any refuse trapped or accumulated along the newly constructed seawall. Such refuse will then be stored and disposed of together with the general refuse.	Project Site Area / Construction Phase	I
			Land Contamination – Construction Phase		
11.10.1.2 to 11.10.1.3	8.1	2.32	 For areas inaccessible during site reconnaissance survey Further site reconnaissance would be conducted once the areas are accessible in order to identify any land contamination concern for the areas. 	Project Site Area inaccessible during site reconnaissance / Prior to Construction Phase	I



	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures	Mitigation Measures Implemented?^
				Timing of completion of measures	
			 Subject to further site reconnaissance findings, a supplementary Contamination Assessment Plan (CAP) for additional site investigation (SI) (if necessary) may be prepared and submitted to EPD for endorsement prior to the commencement of SI at these areas. 		C – Completed in Jan 2018
			 After completion of SI, the Contamination Assessment Report (CAR) will be prepared and submitted to EPD for approval prior to start of the proposed construction works at the golf course, the underground and above-ground fuel storage tank areas, emergency power generation units, airside petrol filling station and fuel tank room. 		I *(CAR for golf course and Terminal 2 emergency power supply system nos.1, 2, 3, 4 and 5 were submitted to EPD)
			 Should remediation be required, Remediation Action Plan (RAP) and Remediation Report (RR) will be prepared for EPD's approval prior to commencement of the proposed remediation and any construction works respectively. 		N/A as no remediation was required.
11.8.1.2	8.1	-	If contaminated soil is identified, the following mitigation measures are for the excavation and transportation of contaminated materials (if any):	Project Site Area / Construction Phase	N/A as no contaminated soil
			 To minimize the incidents of construction workers coming in contact with any contaminated materials, bulk earth-moving excavation equipment should be employed; 		was found.
			 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. 		



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures	Mitigation Measures	
				Timing of completion of measures	Implemented? [^]	
			Terrestrial Ecological – Construction Phase			
12.10.1.1	9.2	2.14	 Pre-construction Egretry Survey Conduct ecological survey for Sha Chau egretry to update the latest boundary of the egretry. 	Breeding season (April - July) prior to commencement of HDD drilling works at HKIA	C – Completed in Jan 2019	
12.7.2.3 and 12.7.2.6	9.1	2.30	 Avoidance and Minimisation of Direct Impact to Egretry The daylighting location will avoid direct encroachment to the Sheung Sha Chau egretry. The daylighting location and mooring of flat top barge, if required, will be kept away from the egretry; 	During construction phase at Sheung Sha Chau Island	C – Completed in Jan 2019	
			 In any event, controls such as demarcation of construction site boundary and confining the lighting within the site will be practised to minimise disturbance to off-site habitat at Sheung Sha Chau Island; and 			
			The containment pit at the daylighting location shall be covered or camouflaged.	.		
12.7.2.5	9.1	2.30	 Preservation of Nesting Vegetation The proposed daylighting location and the arrangement of connecting pipeline will avoid the need of tree cutting, therefore the trees that are used by ardeids for nesting will be preserved. 	During construction phase at Sheung Sha Chau Island	C – Completed in Jan 2019	
12.7.2.4	9.1	2.30	Timing the Pipe Connection Works outside Ardeid's Breeding Season	During construction	C – Completed in	
and 12.7.2.6			 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. 	phase at Sheung Sha Chau Island	Jan 2019	
12.10.1.1	9.3	-	Ecological Monitoring	at Sheung Sha Chau	C – Completed in	
			 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. 	Island	Jan 2019	
			Marine Ecological Impact – Pre-construction Phase			
13.11.4.1	10.2.2	-	 Pre-construction phase Coral Dive Survey. 	HKIAAA artificial seawall	C – Completed in Jan 2016	
			Marine Ecological Impact – Construction Phase			
13.11.1.3	-	-	Minimisation of Land Formation Area	Land formation	1	
to 13.11.1.6			 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. 	footprint / during detailed design phase to completion of construction		



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures	Mitigation Measures
				Timing of completion of measures	Implemented?^
13.11.1.7 to 13.11.1.10	-	2.31	 Use of Construction Methods with Minimal Risk/Disturbance Use of non-dredge method for the main land formation and ancillary works including the diversion of the aviation fuel pipeline to the AFRF; 	During construction phase at marine works area	C – Completed in Jan 2019 for diversion of aviation fuel pipeline
			 Use of Deep Cement Mixing (DCM) method instead of conventional seabed dredging for the land formation works to reduce the risk of negative impacts through the elevation of suspended solids and contaminants on CWDs, fisheries and the marine environment; 	_	I
			 Use of bored piling in short duration to form the new approach lights and marker beacons for the new runway; 		C – Completed in Oct 2021 for new approach lights
			 Avoid bored piling during CWD peak calving season (Mar to Jun); 		N/A for marker beacons as HKIAAA Marker Beacons would be replaced by buoys
			 Prohibition of underwater percussive piling; and 	-	I
			 Use of horizontal directional drilling (HDD) method and water jetting methods for placement of submarine cables and pipelines to minimise the disturbance to the CWDs and other marine ecological resources. 		C – Completed in Jan 2019 for HDD works
13.11.2.1	-	-	Mitigation for Indirect Disturbance due to Deterioration of Water Quality	All works area during	
to 13.11.2.7			 Water quality mitigation measures during construction phases include consideration of alternative construction methods, deployment of silt curtain and good site practices; 	the construction phase	1
			 Alternative construction methods including use of non-dredge methods for ground improvement (e.g. Deep Cement Mixing (DCM), prefabricated vertical drains (PVD), sand compaction piles, steel cells, stone columns and vertical sand drains); 	_	I
			 Use of bored piling in short duration to form the new approach lights and marker beacons for the new runway; and 		C – Completed in Oct 2021 for new approach lights
			 Use of horizontal directional drilling (HDD) method and water jetting methods for placement of undersea cables and pipelines to minimise the disturbance to the CWDs and other marine ecological resources. 	-	C – Completed in Jan 2019 for HDD works
13.11.1.12	-	-	Strict Enforcement of No-Dumping Policy	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?^
			 A policy prohibiting dumping of wastes, chemicals, oil, trash, plastic, or any other substance that would potentially be harmful to dolphins and/or their habitat in the work area; 		
			 Mandatory educational programme of the no-dumpling policy be made available to all construction site personnel for all project-related works; 		
			 Fines for infractions should be implemented; and 		
			 Unscheduled, on-site audits shall be implemented. 		
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 to completion of construction	I
13.11.5.4 to 13.11.5.13	10.3.1	-	 SkyPier High Speed Ferries' Speed Restrictions and Route Diversions SkyPier HSFs operating to / from Zhuhai and Macau would divert north of SCLKC Marine Park with a 15 knot speed limit to apply for the part-journeys that cross high CWD abundance grid squares as indicatively shown in Drawing No. MCL/P132/EIA/13-023 of the EIA Report. Both the alignment of the northerly route and the portion of routings to be subject to the speed limit of 15 knots shall be finalised prior to commencement of construction based on the future review of up-to-date CWD abundance and EM&A data and taking reference to changes in total SkyPier HSF numbers; and 	Area between the footprint and SCLKC Marine Park during construction phase	I
			A maximum of 10 knots will be enforced through the designated SCLKC Marine Park area at all times.		
			 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	l C – Completed in Sep 2016
13.11.5.14 to 13.11.5.18	10.3.1	2.31	 Dolphin Exclusion Zone Establishment of a 24 hr Dolphin Exclusion Zone (DEZ) with a 250 m radius around the land formation works areas; 	Marine waters around land formation works area during construction phase	1



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			 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 	of measures	I
			 A DEZ would also be implemented during bored piling work but as a precautionary measure only. 		C – Completed in Oct 2021 for the bored piling work of New approach lights
13.11.5.19	10.4	2.31	Acoustic Decoupling of Construction Equipment	Around coastal works	1
			 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 	area during construction phase	
			 Specific acoustic decoupling measures shall be specified during the detailed design of the project for use during the land formation works. 		
13.11.5.20	10.6.1	2.29	Spill Response Plan	Construction phase	1
			 An oil and hazardous chemical spill response plan is proposed to be established during the construction phase as a precautionary measure so that appropriate actions to prevent or reduce risks to CWDs can be undertaken in the event of an accidental spillage. 		
13.11.5.21	10.6.1	-	Construction Vessel Speed Limits and Skipper Training	All areas north and	I
to 13.11.5.23			 A speed limit of 10 knots should be strictly observed for construction vessels at areas with the highest CWD densities (as currently indicated by the 1x1km grid squares in Figure 6 of Appendix 13.2 of EIA report). 	west of Lantau Island during construction phase	
			 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. 		
			Fisheries Impact – Construction Phase		
14.9.1.2 to	-		Minimisation of Land Formation Area	Land formation	I
14.9.1.5			 Minimise the overall size of the land formation needed for the additional facilities to minimise the overall loss of habitat for fisheries resources. 	footprint / during detailed design phase to completion of construction	
14.9.1.6	-	-	Use of Construction Methods with Minimal Risk/Disturbance	During construction	C – Completed in
			 Use of non-dredge method for the main land formation and ancillary works including the diversion of the aviation fuel pipeline to the AFRF; 	phase at marine works area	Jan 2019 for diversion of aviation fuel pipeline



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			 Use of Deep Cement Mixing (DCM) method instead of conventional seabed dredging for the land formation works to reduce the risk of negative impacts through the elevation of suspended solids and contaminants on fisheries and the marine environment; 		I
			 Use of bored piling in short duration to form the new approach lights and marker beacons for the new runway; and 		C – Completed in Oct 2021 for new approach lights
					N/A for marker beacons as HKIAAA Marker Beacons would be replaced by buoys
			 Use of horizontal directional drilling (HDD) method and water jetting methods for placement of undersea cables and pipelines to minimise the disturbance to fisheries resources. 	-	C – Completed in Jan 2019 for HDD works
14.9.1.11	-		Strict Enforcement of No-Dumping Policy	All works area during	I
			 A policy prohibiting dumping of wastes, chemicals, oil, trash, plastic, or any other substance that would potentially be harmful to dolphins and/or their habitat in the work area; 	the construction phase	
			 Mandatory educational programme of the no-dumpling policy be made available to all construction site personnel for all project-related works; 		
			 Fines for infractions should be implemented; and 		
			 Unscheduled, on-site audits shall be implemented. 		
14.9.1.12	-		Good Construction Site Practices	All works area during	I
			 Regular inspection of the integrity and effectiveness of all silt curtains and monitoring of effluents to ensure that any discharge meets effluent discharge guidelines; 	the construction phase	
			 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. 		
14.9.1.13	-		Mitigation for Indirect Disturbance due to Deterioration of Water Quality	All works area during	I
to 14.9.1.18			 Water quality mitigation measures during construction phases include consideration of alternative construction methods, deployment of silt curtain and good site practices; 	the construction phase	
			 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); 	-	1



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			 Use of bored piling in short duration to form the new approach lights and marker beacons for the new runway; and 		C – Completed in Oct 2021 for new approach lights
					N/A for marker beacons as HKIAAA Marker Beacons would be replaced by buoys
			 Use of horizontal directional drilling (HDD) method and water jetting methods for placement of undersea cables and pipelines to minimise the disturbance to fisheries resources. 		C – Completed on Jan 2019 for HDD work
			Landscape and Visual Impact – Construction Phase		
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.	Ι
Table 15.6	12.3	-	CM3 - Phasing of the construction stage to reduce visual impacts during the construction phase.	All works areas for duration of works; Upon handover and completion of works.	I
Table 15.6	12.3	-	CM4 - Construction traffic (land and sea) including construction plants, construction vessels and barges should be kept to a practical minimum.	All works areas for duration of works; Upon handover and completion of works.	I
Table 15.6	12.3	-	CM5 - Erection of decorative mesh screens or construction hoardings around works areas in visually unobtrusive colours.	All works areas for duration of works; Upon handover and completion of works. – may be disassembled in phases.	1



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures	Mitigation Measures	
				Timing of completion of measures	Implemented?^	
Table 15.6	12.3	-	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	1	
				completion of works.		
Table 15.6	12.3	-	CM7 - Control of night-time lighting by hooding all lights and through minimisation of night working periods.	All works areas for duration of works;	Ι	
				Upon handover and completion of works. – may be disassembled in phases.		
Table 15.6 1	12.3	-	Specification shall be provided in the Contract Specification. Under this specification, the Contractor shall	All existing trees to be retained;	Ι	
	be required to submit, for approval, a detailed working method statement for the protection of trees price undertaking any works adjacent to all retained trees, including trees in contractor's works areas.			Upon handover and completion of works.		
Table 15.6	12.3	-	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;	Ι	
				Upon handover and completion of works.		
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.	To be implemented *(The advanced hydroseeding works around taxiways and runways were partially completed at this stage and would resume in next phase)	
			Cultural Heritage Impact – Construction Phase			
			Not applicable to the construction stage of this project.			
			Health Impact – Aircraft Emissions			



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			Not applicable to the construction stage of this project.		
			Health Impact – Aircraft Noise		
			Not applicable to the construction stage of this project.		
Notes:					

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

"I" Implemented and on-going where applicable.

" N/A " Not applicable to the construction works implemented during the reporting month. " ^ " Checked by ET through site inspection and record provided by the Contractor.

Appendix B. Monitoring Schedule

Monitoring Schedule of This Reporting Period

Feb-23

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Culluty	monday	Tuesday	1	2	3	4
			Site Inspection	Site Inspection	Site Inspection	*
				AR1A, AR2 NM1A, NM5	NM4, NM6	
				WQ General mid-ebb: 23:44	3	WQ General mid-ebb: 12:42
5	6	7	8	mid-flood: 11:29	10	mid-flood: 07:46
5	Site Inspection	Site Inspection	o	Site Inspection	Site Inspection	
		CWD Survey (Vessel)	CWD Survey (Vessel) AR1A, AR2 NM1A, NM5	NM4, NM6		
		WQ General mid-ebb: 14:1	2	WQ General mid-ebb: 15:12	2	WQ General mid-ebb: 16:25
		mid-flood: 08:5		mid-flood: 09:44)	mid-flood: 10:28
12	13 Site Inspection	14 Site Inspection	15	16 Site Inspection	17 Site Inspection	18
	CWD Survey (Vessel)	CWD Survey (Vessel) AR1A, AR2	CWD Survey (Land-based)	CWD Survey (Land-based)		
		NM1A, NM5		NM4, NM6		
		WQ General mid-ebb: 06:0	17	WQ General mid-ebb: 22:09		WQ General mid-ebb: 00:04
		mid-flood: 12:0		mid-flood: 09:33	2	mid-flood: 06:54
19	20	21	22	23	24	25
	Site Inspection	Site Inspection		Site Inspection	Site Inspection	
	CWD Survey (Vessel) AR1A, AR2 NM1A, NM5	CWD Survey (Vessel)		NM4, NM6	CWD Survey (Vessel)	AR1A, AR2
		WQ General mid-ebb: 14:1	3	WQ General mid-ebb: 15:3'		WQ General mid-ebb: 16:49
		mid-flood: 08:4	И	mid-flood: 09:4		mid-flood: 10:23
26	27 Site Inspection	28 Site Inspection				
		CWD Survey (Vessel)				
		WQ General				
		mid-ebb: 20:0				
		mid-flood: 07:0	N N N N N N N N N N N N N N N N N N N			
		CWD - Chinese White Dolphin	NM1A/AR1A - Man Tung Road Park			
		Air quality and Noise Monitoring Station	NM4 - Ching Chung Hau Po Woon Prim NM5/AR2 - Village House, Tin Sum NM6 - House No. 1, Sha Lo Wan	nary School		
		WQ - Water Quality	NINO - HOUSE NO. 1, SHA LO WAN			

Tentative Monitoring Schedule of Next Reporting Period

Mar-23

1 2 3 4 3302, 3305, 3310, 3403, 3804, 3907, 3907B 3721, 3733, 3804, 3907A 3907C, 3920 4 CWD Survey (Vessel) CWD Survey (Vessel) CWD Survey (Vessel) GWD Survey (Vessel) WQ General & Regular DCM mid-ebb: mi	Regular DCM 12:07 6:56
Image: Section of the sectio	12:07
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6 7 8 9 10 11 3405,3408,3802 3206,3307,3508,3801,3901AB 3302,3305,3310,3403,3601 3721,3733,3804 11	
5 6 7 8 9 10 11 3405, 3408, 3802 3206, 3307, 3508, 3801, 3901AB 8 9 3302, 3305, 3310, 3403, 3601 3721, 3733, 3804 11	6:56
3405, 3408, 3802 3206, 3307, 3508, 3801, 3901AB 3302, 3305, 3310, 3403, 3601 3721, 3733, 3804	
CWD Survey (Vessel) CWD Survey (Vessel) CWD Survey (Vessel)	
AR1A, AR2 NM4, NM6	
ARTIA, ARZ NWH, NWH	
WQ General & Regular DCM WQ General & Regular DCM WQ General & I	
mid-ebb: 13:20 mid-ebb: 14:13 mid-ebb: mid-flood: 7:51 mid-flood: 8:28 mid-flood:	15:17
mid-flood: 7:51 mid-flood: 8:28 mid-flood: 12 13 14 15 16 17 18	9:09
3405, 3408, 3802 3206, 3307, 3508, 3801, 3901AB 3302, 3305, 3310, 3403, 3601 3721, 3733, 3804	
3602, 3603, 3728, 3908, 3913	
CWD Survey (Vessel) CWD Survey (Land-based)	
AR1A, AR2 NM4, NM6	
NM1A, NM5	
WQ General & Regular DCM WQ General & Regular DCM	
mid-ebb: 17:38 mid-ebb: 20:26 mid-ebb: mid-fload: 10:28 mid-fload: 7:33 mid-fload:	11:14 15:53
<u>19</u> <u>20</u> <u>21</u> <u>22</u> <u>23</u> <u>24</u> <u>25</u>	10.00
3405, 3408, 3802 3206, 3307, 3508, 3801, 3901AB 3302, 3305, 3310, 3403, 3601 3721, 3733, 3804	
3602, 3603, 3908, 3913	
AR1A, AR2 NM4, NM6	
NN1A, NN5	Decides DCM
WQ General & Regular DCM WQ General & Regular DCM WQ General & Regular DCM mid-ebb: 13:13 mid-ebb: 14:19	15:29
mid-flood: 7:28 mid-flood: 8:17 mid-flood:	8:59
26 27 28 29 30 31 (11)	
3405, 3408, 3802 3206, 3307, 3508, 3801, 3901AB 3302, 3305, 3310, 3403, 3601 3603, 3721, 3733, 3804 3602, 3908, 3913	
AR1A, AR2 NM4, NM5	
WQ General & Regular DCM WQ General & Regular DCM	
mid-ebb: 17:47 mid-ebb: 20:26 mid-flood: 9:54 mid-flood: 7:45	
mid-flood: 9:54 mid-flood: 7:45 Notes:	
Contract Number - Site Inspection	
CWD - Chinese White Dolphin	
NM1A/AR1A - Man Tung Road Park NM4 - Ching Chung Hau Po Woon Primary School	
NM5/AR2 - Village House, Tin Sum	
NM6 - House No. 1, Sha Lo Wan	
WQ - Water Quality	

Appendix C. Monitoring Results

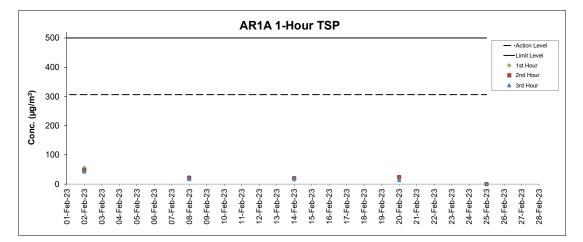
Air Quality Monitoring Results

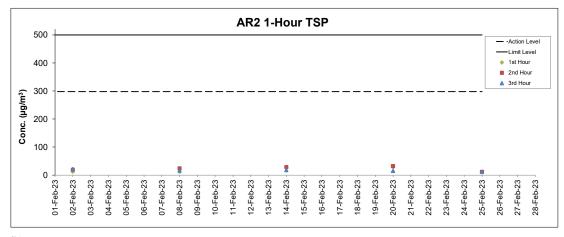
1-hour TSP Results Station: AR1A- Man Tung Road Park

	. <u> </u>						
Date	Time	Weather	Wind Speed (m/s)	Wind Direction	1-hr TSP (μg/m³)	Action Level	Limit Level
				(deg)	1 m 131 (µg/m /	(μg/m³)	(µg/m³)
2-Feb-23	8:12	Cloudy	1.9	235	18	306	500
2-Feb-23	9:12	Cloudy	1.4	Variable	20	306	500
2-Feb-23	10:12	Cloudy	4.7	57	14	306	500
8-Feb-23	14:54	Cloudy	6.1	79	56	306	500
8-Feb-23	15:54	Cloudy	5.8	78	48	306	500
8-Feb-23	16:54	Cloudy	4.7	93	43	306	500
14-Feb-23	8:17	Sunny	4.7	39	24	306	500
14-Feb-23	9:17	Sunny	4.4	7	21	306	500
14-Feb-23	10:17	Sunny	4.7	45	17	306	500
20-Feb-23	8:21	Sunny	1.1	191	15	306	500
20-Feb-23	9:21	Sunny	2.2	56	20	306	500
20-Feb-23	10:21	Sunny	1.4	38	18	306	500
25-Feb-23	8:15	Sunny	4.4	33	17	306	500
25-Feb-23	9:15	Sunny	4.2	24	24	306	500
25-Feb-23	10:15	Sunny	6.9	40	14	306	500

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

				Wind Direction	3.	Action Level	Limit Level
Date	Time	Weather	Wind Speed (m/s)	(deg)	1-hr TSP (μg/m ³)	(µg/m ³)	(µg/m ³)
2-Feb-23	12:34	Cloudy	9.4	95	12	298	500
2-Feb-23	13:34	Cloudy	10.0	100	19	298	500
2-Feb-23	14:34	Cloudy	10.6	97	22	298	500
8-Feb-23	15:11	Cloudy	5.3	79	12	298	500
8-Feb-23	16:11	Cloudy	5.8	75	24	298	500
8-Feb-23	17:11	Cloudy	4.7	89	16	298	500
14-Feb-23	13:00	Sunny	5.6	349	26	298	500
14-Feb-23	14:00	Sunny	4.2	321	29	298	500
14-Feb-23	15:00	Sunny	6.1	319	18	298	500
20-Feb-23	12:31	Sunny	3.6	255	29	298	500
20-Feb-23	13:31	Sunny	4.4	249	32	298	500
20-Feb-23	14:31	Sunny	3.9	252	15	298	500
25-Feb-23	13:36	Sunny	5.8	324	10	298	500
25-Feb-23	14:36	Sunny	5.3	346	12	298	500
25-Feb-23	15:36	Sunny	5.0	350	12	298	500





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

Noise Monitoring Results

Noise Measurement Results

Station: NM1A- Man Tung Road Park

Data	Date Weather		Measured	Measured	
Date	weather	Time	L ₁₀ dB(A)	L ₉₀ dB(A)	L _{eq(30mins)} dB(A) ^
2-Feb-23	Cloudy	9:13	63.7	59.6	
2-Feb-23	Cloudy	9:18	63.6	60.4	
2-Feb-23	Cloudy	9:23	62.9	59.4	65
2-Feb-23	Cloudy	9:28	62.4	58.9	05
2-Feb-23	Cloudy	9:33	62.6	59.5	
2-Feb-23	Cloudy	9:38	63.8	59.4	
8-Feb-23	Cloudy	14:53	61.2	51.7	
8-Feb-23	Cloudy	14:58	60.0	52.6	
8-Feb-23	Cloudy	15:03	60.4	53.0	60
8-Feb-23	Cloudy	15:08	59.5	53.1	00
8-Feb-23	Cloudy	15:13	59.1	53.3	
8-Feb-23	Cloudy	15:18	57.2	51.2	
14-Feb-23	Sunny	8:19	71.3	69.8	
14-Feb-23	Sunny	8:24	70.8	69.6	
14-Feb-23	Sunny	8:29	71.4	69.7	- 73
14-Feb-23	Sunny	8:34	70.9	69.7	/3
14-Feb-23	Sunny	8:39	71.4	69.8	
14-Feb-23	Sunny	8:44	70.7	69.5	
20-Feb-23	Sunny	9:22	62.2	58.2	
20-Feb-23	Sunny	9:27	62.1	58.3]
20-Feb-23	Sunny	9:32	62.9	58.1	- 64
20-Feb-23	Sunny	9:37	62.3	58.1	04
20-Feb-23	Sunny	9:42	62.5	58.6]
20-Feb-23	Sunny	9:47	62.2	58.3	

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

Noise Measurement Results

Station: NM4- Ching Chung Hau Po Woon Primary School

Date	Weather	Time	Measured	Measured					
Date	weather	Time	L ₁₀ dB(A)	L ₉₀ dB(A)	L _{eq(30mins)} dB(A) ^				
3-Feb-23	Sunny	11:15	61.8	57.5					
3-Feb-23	Sunny	11:20	60.5	57.0					
3-Feb-23	Sunny	11:25	61.3	57.2	64				
3-Feb-23	Sunny	11:30	62.7	58.0	04				
3-Feb-23	Sunny	11:35	61.4	57.6					
3-Feb-23	Sunny	11:40	62.1	57.8					
9-Feb-23	Sunny	13:55	68.6	60.9					
9-Feb-23	Sunny	14:00	69.1	60.7]				
9-Feb-23	Sunny	14:05	68.0	60.2	60*				
9-Feb-23	Sunny	14:10	67.2	62.4					
9-Feb-23	Sunny	14:15	63.9	58.3]				
9-Feb-23	Sunny	14:20	64.5	59.2]				
16-Feb-23	Sunny	13:18	69.1	58.9					
16-Feb-23	Sunny	13:23	62.4	58.1					
16-Feb-23	Sunny	13:28	60.6	56.9	65				
16-Feb-23	Sunny	13:33	60.6	57.3	05				
16-Feb-23	Sunny	13:38	63.4	58.2					
16-Feb-23	Sunny	13:43	61.1	57.6	1				
23-Feb-23	Sunny	13:02	63.7	59.7					
23-Feb-23	Sunny	13:07	70.5	59.7]				
23-Feb-23	Sunny	13:12	62.4	59.4	60*				
23-Feb-23	Sunny	13:17	64.2	59.6					
23-Feb-23	Sunny	13:22	62.2	58.8]				
23-Feb-23	Sunny	13:27	63.2	58.7					

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

Noise Measurement Results

Station: NM5- Village House, Tin Sum

Date Weather		Time	Measured	Measured					
Date	weather	Time	L ₁₀ dB(A)	L ₉₀ dB(A)	L _{eq(30mins)} dB(A) ^				
2-Feb-23	Cloudy	11:42	56.6	51.6					
2-Feb-23	Cloudy	11:47	57.3	50.8					
2-Feb-23	Cloudy	11:52	56.3	51.7	58				
2-Feb-23	Cloudy	11:57	55.6	51.5					
2-Feb-23	Cloudy	12:02	56.1	50.9					
2-Feb-23	Cloudy	12:07	57.6	51.5					
8-Feb-23	Cloudy	15:36	57.6	52.2					
8-Feb-23	Cloudy	15:41	56.6	52.7					
8-Feb-23	Cloudy	15:46	56.6	52.2	61*				
8-Feb-23	Cloudy	15:51	61.5	52.7	01.				
8-Feb-23	Cloudy	15:56	61.8	60.6					
8-Feb-23	Cloudy	16:01	61.8	54.2					
14-Feb-23	Sunny	12:16	60.2	55.0					
14-Feb-23	Sunny	12:21	61.3	54.9					
14-Feb-23	Sunny	12:26	61.6	56.1	59*				
14-Feb-23	Sunny	12:31	59.8	54.4					
14-Feb-23	Sunny	12:36	60.3	55.9					
14-Feb-23	Sunny	12:41	59.8	56.0					
20-Feb-23	Sunny	13:42	60.3	56.0					
20-Feb-23	Sunny	13:47	60.6	56.0]				
20-Feb-23	Sunny	13:52	60.7	56.0	61*				
20-Feb-23	Sunny	13:57	62.5	59.4					
20-Feb-23	Sunny	14:02	62.5	58.6]				
20-Feb-23	Sunny	14:07	62.6	59.4					

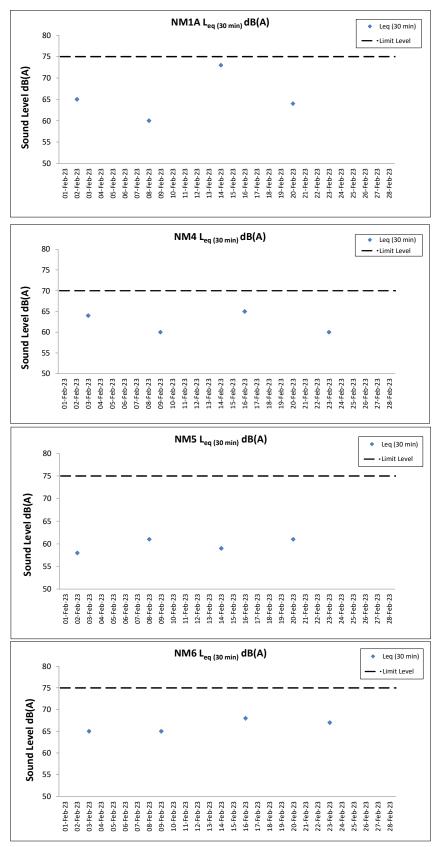
(^) +3dB (A) correction in Leq(30mins) dB(A) was applied to free-field measurement. (*) The measurement result was corrected with reference to the baseline monitoring levels.

Noise Measurement Results

Station: NM6- House No.1 Sha Lo Wan

Date	Weather	Time	Measured	Measured					
Date	weather	Time	L ₁₀ dB(A)	L ₉₀ dB(A)	L _{eq(30mins)} dB(A) ^				
3-Feb-23	Sunny	9:41	67.1	57.7					
3-Feb-23	Sunny	9:46	63.0	54.0					
3-Feb-23	Sunny	9:51	62.7	51.2	65				
3-Feb-23	Sunny	9:56	63.3	54.4	60				
3-Feb-23	Sunny	10:01	67.2	54.3	7				
3-Feb-23	Sunny	10:06	60.1	53.3	7				
9-Feb-23	Sunny	15:39	62.8	49.1					
9-Feb-23	Sunny	15:44	72.3	53.5					
9-Feb-23	Sunny	15:49	54.5	45.3	65				
9-Feb-23	Sunny	15:54	67.2	46.0	05				
9-Feb-23	Sunny	15:59	57.2	50.1					
9-Feb-23	Sunny	16:04	61.5	48.0					
16-Feb-23	Sunny	15:44	72.0	57.7					
16-Feb-23	Sunny	15:49	69.6	52.8					
16-Feb-23	Sunny	15:54	65.7	50.5	68				
16-Feb-23	Sunny	15:59	60.1	46.9	00				
16-Feb-23	Sunny	16:04	61.7	47.6					
16-Feb-23	Sunny	16:09	65.2	51.5					
23-Feb-23	Sunny	15:41	68.0	52.4					
23-Feb-23	Sunny	15:46	55.5	46.3]				
23-Feb-23	Sunny	15:51	53.2	46.1	67				
23-Feb-23	Sunny	15:56	68.1	46.4	0/				
23-Feb-23	Sunny	16:01	65.2	45.1]				
23-Feb-23	Sunny	16:06	50.6	44.2]				

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



Notes

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

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

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

Water Quality Monitoring Results

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

Water Quality Monitoring Results on 02 February 23 during Mid-Ebb Tide

Water Qual	ity Monite	oring Resu	lts on		02 February 23	during Mid-	Ebb lide	÷																													
Monitoring	Weather	Sea	Sampling	Water			Current Speed	Current	Water Te	emperature (°C)	p	эΗ	Salir	nity (ppt)		aturation (%)	Disso Oxyg		Turbidity	(NTU)	Suspender (mg/		Coordinate HK Grid	Coordinate HK Grid													
Station	Condition	Condition	Time	Depth (m)	Camping Dept	()	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)													
					Surface	1.0	0.5	211	16.9	16.9	8.3	8.3	31.2		135.2	135.1	10.9		3.5		2																
					Sunace	1.0	0.5	210	16.8	10.9	8.3	0.5	31.2	31.2	134.9	155.1	10.8	10.5	3.5		3																
C1	Fine	Rough	23:25	8.2	Middle	4.1	0.5	202	16.7	16.7	8.3	8.3	31.3		129.1 123.8	126.5	10.4	10.5	4.1	4.4	3	3	815619	804242													
01	1 1110	Rough	20.20	0.2	Middle	4.1	0.5	209	16.6	10.7	8.3	0.5	31.3	51.5		120.5	10.0		4.4	4.4	3	5	013013	004242													
					Bottom	7.2	0.5	207	16.6	16.6	8.3 8.3	8.3	31.4	31.4	120.9 119.3	120.1	9.7	9.7	5.2		4																
					Bottom	7.2	0.5	208	16.6	10.0		0.5	31.4			120.1	9.6	3.1	5.9		5																
					Surface	1.0	0.5	162	17.4	17.4	8.3 8.3	8.3	29.8 29.9	29.9	153.1 153.0	153.1	12.3		2.3		3																
					Gunace	1.0	0.6	165	17.4	17.4	8.3	0.5	29.9	23.3	153.0	155.1	12.3	12.3	2.4		3																
C2	Fine	Rough	22:11	10.8	Middle	5.4	0.5	169	17.2	17.3	8.3	8.3	30.3	30.3	151.7	151.8	12.2	12.5	2.5	3.5	3	3	825705	806954													
02	1 1110	Rough	22.11	10.0	Middle	5.4	0.5	175	17.3		8.3	0.5	30.2	50.5	151.9	101.0	12.2		2.4	5.5	3	5	023703	806954													
					Bottom	9.8	0.5	181	16.9	16.9	8.3	8.3	31.1	31.1	135.1 135.2	135.2	10.8	10.9	5.7		3																
					Bottom	9.8	0.5	175	16.9	10.5	8.3	0.5	31.1		135.2	100.2	10.9	10.5	5.6		3																
													Surface	1.0	0.4	87	16.4	16.4	7.9	7.9	32.3		109.7	7 109.5 8.8	8.8		1.2		3		1 1						
	C3 Fine Rough 23:23 10.2									Gunace	1.0	0.4	80	16.4	10.4	7.9	1.5	32.3	52.5	109.2	103.5	8.8	8.8	1.2		3											
C3		10.2	Middle	5.1	0.3	67	16.3	16.3	7.9	7.9	32.4	32.4	107.8 107.8	107.8	8.7	0.0	1.5	1.6	3	3	822096	817819															
05		10.2	Middle	5.1	0.3	67	16.3		7.9	1.5	32.4		107.8	107.0	8.7		1.4	1.0	3	5	022030	01/019															
					Bottom	9.2	0.3	70	16.2	16.2	7.9 7.9	7.9	32.4	32.3	105.8 101.2	103.5	8.6	8.4	2.2		3																
								Bottom	9.2	0.3	74	16.1	10.2		1.5	32.2	52.5		100.0	8.2	0.4	2.2		3													
											Surface	1.0	0.4	184	17.2	17.2	8.3 8.3	8.3	31.3		129.6 129.5	129.6	10.3		3.5		2		<u>г т</u>								
					Guilade	1.0	0.4	188	17.2	17.2		0.5	31.3			123.0	10.3 10 3	10.2	3.5		3																
IM1	Fine	Rough	23:02 6.3	23:02 6.3	23:02 6.3	23:02	63	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	23:02 6.3	Middle	3.2	0.4	175	17.2	17.2	8.3	8.3	31.3		127.6 126.8	127.2	10.2	10.2	3.5	5.5	3	3	818350	806464
	1 110	Rough	20.02	0.0	Middle	3.2	0.4	169	17.2	17.2	8.3	0.0	31.3	01.0	126.8	121.2	10.1		3.2	0.0	2	0	010000	000404													
										Bottom	5.3	0.3	<u>3 175 17.2</u> 17.3 <u>8.3</u> 8.3 <u>31.3</u> <u>31.2</u> 1	120.7 120.2 120.5		9.6 9.6		9.2		4																	
										Bottom	5.3	0.3	180	17.3	11.0	8.3	0.0	31.2	01.2	120.2	120.0	9.6	0.0	9.9		3											
					Surface	1.0	0.4	191	17.2	17.2	8.3	8.3	31.3		126.9 126.8	126.9	10.1		3.6		2																
					Oundee	1.0	0.4	189	17.2	17.2	8.3	0.0	31.3		126.8	120.0	10.1	10.0	3.6		3																
IM2	Fine	Rough	22:59	6.5	Middle	3.3	0.4	196	17.2	17.2	8.3	8.3	31.3		124.4	123.9	9.9	10.0	3.8	4.3	3	3	819192	806246													
11112	1 110	rtougn	22.00	0.0	Middle	3.3	0.4	194	17.2	17.2	8.3	0.0	31.3		123.3	120.0	9.8		3.9	4.0	3	0	010102	000240													
					Bottom	5.5	0.4	202	17.2	17.2	8.3	8.3	31.3	31.3	117.6	117.3	9.4	9.4	5.6		4																
					Bottom	5.5	0.4	204	17.2	17.2	8.3	0.0	31.3	01.0	116.9	111.0	9.3	0.4	5.5		4																
					Surface	1.0	0.2	165	17.2	17.2	8.3	8.3	30.1	30.1	134.0 133.9	134.0	10.8		2.2		3			806816													
					Gundoo	1.0	0.2	165	17.2	17.2	8.3	0.0	30.1	30.1		134.0	10.7	10.4	2.3		4 3																
IM7	Fine	Rough	22:38	7.9	Middle	4.0	0.2	153	17.0	17.0	8.3	8.3	30.7	30.8	125.6 125.0	125.3	10.1		3.0	3.0		3	821364														
	1 110	Rough	22.00	7.5	wilddie	4.0	0.2	153	17.0	17.0	8.3	0.0	30.8			120.0	10.0		3.1	0.0	4	5	021004	000010													
					Bottom	6.9	0.2	148	17.0	17.0	8.3	8.3	31.2		119.9	119.2	9.6	9.6	3.6		3																
						6.9	0.2	148	17.0	17.0	8.3	0.5	31.2	51.2	118.4	113.2	9.5	5.0	3.9	1	3																

DA: Depth-Averaged

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

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

Water Quality Monitoring Results on 02 February 23 during Mid-Ebb Tide

Nater Qual	ity Monit	oring Resu	lits on		02 February 23	during Mid-		9															
Monitoring	Weather	Sea	Sampling	Water	Sampling Dept	h (m)	Current Speed	Current	Water Te	emperature (°C)	рН	Salir	nity (ppt)		aturation (%)	Disso Oxy		Turbidity	(NTU)	Suspende (mg		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dept	ii (iii)	(m/s)	Direction	Value	Average	Value Average	e Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.5	104 107	17.0 17.0	17.0	8.0 8.0	30.3 30.3	30.3	136.1 135.9	136.0	11.0 10.9		1.0 1.0		3			
						4.2	0.5	115	17.0		80	30.3		135.5		10.9	10.9	1.8		5			
IM10	Fine	Rough	22:17	8.4	Middle	4.2	0.4	114	17.0	17.0	8.0 8.0	30.3	30.3	135.2	135.4	10.9		1.7	1.8	4	4	822230	809833
					Bottom	7.4	0.4	123	17.0	17.0	8.0 8.0	30.5	30.3	134.7	134.6	10.8	10.9	2.8		5			
						7.4	0.5	121	17.0		8.0	30.0		134.5		10.9		2.7		6			
					Surface	1.0	0.6	96	16.7	16.7	8.0 8.0	32.2 32.2	32.2	129.1 128.4	128.8	10.3		1.0		4			
						4.6	0.6	95 93	16.7 16.7		80	32.2		128.4		10.3 9.9	10.1	1.1 1.4		3			
IM11	Fine	Rough	22:26	9.2	Middle	4.6	0.6	94	16.8	16.8	8.0 8.0	32.1	32.1	123.0	123.6	9.8		1.5	1.5	2	3	821495	810522
						8.2	0.6	73	16.8		80	32.1		116.2		9.3		2.0		2			
					Bottom	8.2	0.5	69	16.8	16.8	8.0 8.0	32.1	32.1	114.9	115.6	9.2	9.3	2.0		2			
					Surface	1.0	0.6	102	16.6	16.6	8.0 8.0	32.2	32.2	133.0	131.1	10.7		1.0		3			
					Sunace	1.0	0.6	101	16.6	10.0	8.0	32.2	32.2	129.1	131.1	10.4	10.4	1.1		3			
IM12	Fine	Rough	22:31	9.6	Middle	4.8	0.6	106	16.6	16.6	8.0 8.0	32.1	32.1	126.5	126.2	10.2	10.4	1.7	1.7	3	3	821142	811536
11112	1 110	rtough	22.01	0.0		4.8	0.6	107	16.6	10.0	8.0	32.1	02.1	125.9	120.2	10.1		1.7		4	0	021142	011000
					Bottom	8.6	0.6	91	16.4	16.4	8.0 8.0	32.2	32.3	122.2	119.9	9.8	9.7	2.5		4			
						8.6	0.6	95	16.4		8.0	32.3		117.5		9.5		2.4		3		1	
					Surface	1.0	0.0	87 94	16.6 16.5	16.6	8.0 8.0	32.1 32.1	32.1	132.7 132.3	132.5	10.7 10.6		1.3 1.3		3			
						2.4	0.0	94 102	-		0.0	-		-		-	10.7	-		-			
SR1A	Fine	Rough	22:51	4.8	Middle	2.4	0.0	98	-	-		-		-	-	-		-	1.6		3	819972	812657
						3.8	0.1	93	16.6		8.0	32.0		130.3		10.5		1.9		3			
					Bottom	3.8	0.0	94	16.6	16.6	8.0 8.0	32.0	32.0	130.1	130.2	10.5	10.5	1.9		3			
					Surface	1.0	0.4	37	16.5	16.5	8.1 8.1	32.3	32.4	129.1	128.4	10.4		1.0		4			
					Sunace	1.0	0.4	41	16.4	10.5	8.1	32.4	32.4	127.7	120.4	10.3	10.4	1.0		3			
SR2	Fine	Rough	23:04	5.2	Middle	-	0.5	50	-	-		-	-	-	-	-	10.4	-	1.1	-	4	821451	814150
						-	0.5	51	-		-	-		-		-		-		-	-		
					Bottom	4.2	0.5	61	16.1	16.1	8.1 8.1	32.6	32.6	115.1	113.8	9.3	9.2	1.2		4			
						4.2	0.5	64 145	16.1 17.2		8.1	32.6		112.4		9.1		1.3 3.2		4			
					Surface	1.0	0.5	145	17.2	17.2	8.3 8.3	30.1 30.1	30.1	136.4 136.4	136.4	11.0 10.9		3.2		3			
						4.4	0.5	138	17.2		83	31.0		126.6		10.9	10.6	3.1		3			
SR3	Fine	Rough	22:31	8.8	Middle	4.4	0.5	136	17.0	17.0	8.3 8.3	31.0	31.0	125.6	126.1	10.1		3.5	4.6	3	3	822147	807579
					Deller	7.8	0.5	139	17.0	47.0	83	31.0	04.0	118.6	440.4	9.5	9.5	7.4		3			
					Bottom	7.8	0.5	132	17.0	17.0	8.3 8.3	31.0	31.0	118.2	118.4	9.5	9.5	7.4		3			
					Surface	1.0	0.1	7	17.2	17.2	8.3 8.3	31.3	31.3	134.6	133.0	10.7		3.9		4			
					Guilace	1.0	0.1	13	17.1	17.2	8.3	31.3	51.5	131.4	155.0	10.5	10.3	4.0		5			
SR4A	Fine	Rough	23:54	9.5	Middle	4.8	0.0	11	16.9	16.9	8.3 8.3	31.5	31.5	126.0	125.7	10.1	10.0	4.6	4.4	4	4	817165	807823
		- 5				4.8	0.1	16	16.9		8.3	31.5		125.4	-	10.0		4.6		3			
					Bottom	8.5 8.5	0.0	30 26	16.9 17.0	17.0	8.3 8.3	31.5 31.5	31.5	120.0 119.6	119.8	9.6	9.6	4.8 4.7		2			
	I		1			8.5	- 0.0	- 26	17.0		80	31.5	1			9.6 9.5		4.7		3			<u> </u>
					Surface	1.0	-	-	16.7	16.7	8.0 8.0	32.2	32.2	118.3 117.2	117.8	9.5 9.4		1.1		4			
						-	-		-		-	-		-		- 9.4	9.5	-		-			
SR8	Fine	Rough	22:35	4.6	Middle	-	-	-	-	-		-		-	-	-		-	1.2	-	4	820398	811638
					Bottom	3.6	-	-	16.6	16.6	8.0	32.2	22.2	111.6	110.2	9.0	8.9	1.4	1	4			
					Bottom	3.6	-	-	16.6	16.6	8.0 8.0	32.2	32.2	108.9	110.3	8.7	8.9	1.3	1	5			

Water Quality Monitoring Results on 02 February 23 during Mid-Flood Tide

water Quali	ty Monito	oring Resu	lits on		02 February 23	during Mid-	FIOOd II	de																
Monitoring	Weather	Sea	Sampling	Water	Sampling Dep	th (m)	Current Speed	Current	Water Te	emperature (°C)	F	ъH	Salii	nity (ppt)		aturation (%)	Dissol Oxyg		Turbidity	(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Camping Dep		(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.0	187	16.8	16.8	8.3	8.3	31.0	31.0	137.5	137.4	11.1		3.2		2			
					Sunace	1.0	0.1	181	16.8	10.0	8.3	0.3	31.0	31.0	137.3	137.4	11.1	10.8	3.2		3			
C1	Fine	Bough	11:52	8.0	Middle	4.0	0.0	202	16.6	16.6	8.3	8.3	31.3	31.3	129.4	129.1	10.4	10.8	4.7	4.9	3	3	815638	804263
CI	FILLE	Rough	11.52	8.0	INIQUIE	4.0	0.0	198	16.6	10.0	8.3	0.3	31.3	31.3	128.8	129.1	10.4	Í	5.0	4.9	3	3	010000	004203
					Pottom	7.0	0.0	204	16.6	16.6	8.3	0.2	31.3	31.3	126.5 126.4	126.5	10.2	10.2	6.5		4			
					Bottom	7.0	0.0	199	16.6	10.0	8.3	8.3	31.3	31.3	126.4	120.5	10.2	10.2	6.7		5			
					Surface	1.0	0.1	179	17.3	17.3	8.3 8.3	8.3	29.7	29.7	142.7 142.2	142.5	11.5		2.2		4			
					Sunace	1.0	0.1	180	17.3	17.5	8.3	0.3	29.7	29.7	142.2	142.0	11.4	10.8	2.2		5			
C2	Fine	Rough	13:13	11.2	Middle	5.6	0.1	185	16.9	16.9	8.2	8.2	31.1	31.1	127.0	126.9	10.2	10.0	5.3	3.7	5	5	825659	806955
02		Rough	13.15	11.2	Widdle	5.6	0.1	188	16.9	10.9	8.2	0.2	31.1	51.1	126.7	120.9	10.2		5.4	5.7	4	5	023039	800933
					Bottom	10.2	0.0	157	16.9	16.9	8.2	8.2	31.1	31.1	124.4	124.1	10.0	10.0	3.5		5			
					Dottom	10.2	0.0	154	16.9	10.5	8.2	0.2	31.1	51.1	123.8		9.9	10.0	3.8		6			
					Surface	1.0	0.1	87	16.5	16.5	7.6	7.5	31.8	31.8	109.9 109.8	109.9	8.9		1.0		2			
					Canade	1.0	0.1	94	16.5	10.0	7.5	7.0	31.8			100.0	8.8	8.8	1.1		2			
C3	Fine	Rough	12:06	11.8	Middle	5.9	0.0	107	16.5	16.5	7.5	7.5	31.7		107.9	107.9	8.7	0.0	1.1	1.1	4	3	822118	817817
						5.9	0.1	111	16.5		7.5		31.7		107.8		8.7		1.1		3			
					Bottom	10.8	0.1	77	16.5	16.5	7.4	7.4	31.7		107.2	107.1	8.6	8.6	1.2		4			
						10.8	0.1	71	16.5		7.4		31.7				8.6		1.2		4			
					Surface	1.0	0.1	148	17.1	17.1	8.3 8.3	8.3	31.1	31.1	131.9 131.7	131.8	10.5		4.4		3			
						1.0	0.1	152	17.1				31.1				10.5	10.2	4.6		2			
IM1	Fine	Rough	12:07	6.4	Middle	3.2	0.1	164 159	16.9	16.9	8.3 8.3	8.3	31.3 31.3		123.4 123.0	123.2	9.9 9.9		4.9 4.8	6.3	2	2	818344	806463
						3.2 5.4	0.1	159	16.9 16.7		8.3		31.3				0.0		4.8 9.6	-	3 <2			
					Bottom	5.4	0.0	169	16.7	16.7	8.2	8.2	31.4	31.4	112.1	112.1	9.0 9.0	9.0	9.6		<2			
						1.0	0.0	169	16.7		8.3		31.4				9.0		3.2		2			
					Surface	1.0	0.0	171	17.1	17.1	8.3	8.3	31.2		136.7 136.4	136.6	10.0		3.2		3			
						3.4	0.0	171	16.8		8.3		31.4		132.9		10.7	10.8	3.9		3			
IM2	Fine	Rough	12:11	6.7	Middle	3.4	-	164	16.8	16.8	8.3	8.3	31.4	31.4	132.3	132.6	10.6		3.9	4.0	3	3	819181	806220
					_	5.7	0.0	183	16.8				31.4				10.1		5.0		4			
					Bottom	5.7	0.1	185	16.8	16.8	8.3 8.3	8.3	31.4		126.2 126.1	126.2	10.1	10.1	5.0		5			
			İ İ		. <i>(</i>	1.0	0.1	148	17.2	17.0			29.8				10.9		2.3		2			
					Surface	1.0	0.1	149	17.1	17.2	8.3 8.3	8.3	29.9	29.9	135.2 134.6	134.9	10.0	40.5	2.3	1	3			
11.47	F 1	Devel	40.05		MC-L-II-	4.0	0.1	152	16.9	40.0	8.3	0.0	31.0			400.4	10.2	10.5	2.5		3		004000	000000
IM7	Fine	Rough	12:35	8.0	Middle	4.0	0.1	156	16.9	16.9	8.3	8.3	31.0		126.6 126.2	126.4	10.1	ľ	2.7	2.5	4	4	821338	806820
					Pottom	7.0	0.0	133	16.9	16.9	8.3	8.3	31.1	31.1	120.6	120.5	9.7	9.7	2.7	1	5			
					Bottom	7.0	0.0	132	16.9	10.9	8.3	0.3	31.1	31.1	120.3	120.5	9.7	9.7	2.8	1	4			

DA: Depth-Averaged

Water Quality Monitoring Results on 02 February 23 during Mid-Flood Tide

Water Qual	ity Monit	oring Resu	Its on		02 February 23	during Mid-	Flood Ti	de															
Monitoring	Weather	Sea	Sampling	Water	Sampling Dept	h (m)	Current Speed	Current	Water Te	emperature (°C)	рН	Sal	linity (ppt)		aturation (%)	Disso Oxyg		Turbidity	(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dept		(m/s)	Direction	Value	Average	Value Averaç	e Valu	e Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.0	244	16.7	16.7	8.0 8.0	31.8		131.2	130.8	10.5		1.1		4			
					Canado	1.0	0.0	242	16.7	10.1	8.0	31.8	3	130.3		10.5	10.3	1.1		3			
IM10	Fine	Rough	13:10	8.8	Middle	4.4	0.0	239	16.7	16.8	7.9 7.9	32.0		125.8	124.7	10.1		1.2	1.2	3	4	822248	809856
		-				4.4	0.0	241	16.8		7.9	32.0		123.6		9.9		1.2		4			
					Bottom	7.8	0.0	243 249	16.9 17.0	17.0	7.9 7.9	31.9		115.5 114.8	115.2	9.2 9.2	9.2	1.2 1.2		4 5			
						1.0	0.0	95	16.6		8.0	32.2	>	129.8		9.2		1.2		4			
					Surface	1.0	0.0	97	16.6	16.6	8.0 8.0	32.2		129.1	129.5	10.4		1.0		4			
						4.0	0.0	104	16.9		8.0	32.0)	122.8		9.8	10.1	1.1		5	_		
IM11	Fine	Rough	13:05	8.0	Middle	4.0	0.1	106	16.9	16.9	8.0 8.0	31.9		122.1	122.5	9.7		1.1	1.2	5	5	821508	810551
					Detter	7.0	0.0	78	17.2	17.0	8.0	31.7	7	117.9	447.0	9.4	9.3	1.6		6			
					Bottom	7.0	0.0	84	17.2	17.2	8.0 8.0	31.7	, 31.7	116.1	117.0	9.2	9.3	1.5		7			
					Surface	1.0	0.0	113	16.6	16.6	7.9 7.9	32.2	32.2	124.8	124.6	10.0		1.1		3			
					Sunace	1.0	0.1	118	16.6	10.0	7.9	32.2	2 32.2	124.3	124.0	10.0	9.9	1.1		4			
IM12	Fine	Rough	13:00	7.6	Middle	3.8	0.0	130	16.6	16.6	7.9 7.9	32.2		121.2	121.3	9.7	0.0	1.3	1.3	3	3	821158	811535
		rtougn	10.00		maaro	3.8	0.0	130	16.6	10.0	7.9	32.2	2	121.3	.20	9.7		1.2		3	U	021100	011000
					Bottom	6.6	0.0	108	16.6	16.6	7.9 7.9	32.2		109.6	108.6	8.8	8.7	1.4		3			
						6.6	0.0	109	16.6		7.9	32.1		107.5		8.6	-	1.4		2			
					Surface	1.0	0.0	178	16.5	16.5	7.9 7.9	32.0		116.9	116.3	9.4		1.3		4			
						2.3	0.0	182 167	16.5 -		7.9	32.0)	115.7		9.3	9.4	1.4		4			
SR1A	Fine	Rough	12:37	4.6	Middle	2.3	0.0	167	-	-		-		-		-		-	1.4	-	4	819977	812661
						3.6	0.0	166	16.5		7.0	32.1	1	107.7		8.7		1.5		4			
					Bottom	3.6	0.0	161	16.5	16.5	7.8 7.8	32.0		106.3	107.0	8.6	8.7	1.6		3			
					o (1.0	0.1	85	16.6	10.0	7.8	32.1		121.8	100.0	9.8		1.7		5			
					Surface	1.0	0.1	90	16.5	16.6	7.8 7.8	32.1		118.1	120.0	9.5	9.7	1.7		4			
SR2	Fine	Rough	12:25	5.6	Middle	-	0.1	60	-	-	-	-	_	-	-	-	9.7	-	1.9	-	4	821443	814172
0112	1 1110	Rough	12.20	5.0	Wilddie	-	0.1	59	-		-	-	_	-		-		-	1.5	-	-	021445	014172
					Bottom	4.6	0.0	64	16.5	16.5	7.8 7.8	32.2		104.1	103.7	8.4	8.4	2.1		3			
					Bottom	4.6	0.0	65	16.5	10.0	7.8	32.2	2	103.2	100.1	8.3	0.1	2.1		4			
					Surface	1.0	0.0	186	17.3	17.3	8.2 8.2	29.3		137.1	137.0	11.0		2.0		3			
						1.0	0.0	181	17.3		8.2 0.2	29.3		136.9		11.0	10.6	2.0		2			
SR3	Fine	Rough	12:42	8.2	Middle	4.1	0.1	184 186	17.0 17.0	17.0	8.2 8.2 8.2	30.4		126.5 126.0	126.3	10.2 10.1		2.6 2.7	4.5	3	3	822148	807583
						7.2	0.1	186	17.0		8.2	30.5		126.0		10.1		8.9		3			
					Bottom	7.2	0.1	197	17.0	17.0	8.2 8.2	30.9		124.2	124.1	9.9	10.0	8.9		4			
						1.0	0.0	265	17.0		83	31.5		123.9		10.3		4.0		4			
					Surface	1.0	0.1	268	17.1	17.1	8.3 8.3	31.5		129.1	129.2	10.3		4.0		5			
05.44	-					4.3	-	250	16.9	10.0	0.2	31.6	:	124.4		9.9	10.1	4.3		3		0.17105	
SR4A	Fine	Rough	11:31	8.6	Middle	4.3	0.0	256	16.9	16.9	8.3 8.3	31.6		124.0	124.2	9.9		4.3	4.2	4	4	817185	807801
					Bottom	7.6	0.0	264	16.9	17.0	8.3 8.3	31.6	31.6	121.0	120.7	9.7	9.7	4.2		3			
					BOILOIN	7.6	0.0	264	17.0	17.0	8.3 0.3	31.6	31.0	120.3	120.7	9.6	5.1	4.3		2			
					Surface	1.0	-	-	16.7	16.8	7.9 7.9	32.1		127.7	127.4	10.2		1.8		3			
					Cundoo	1.0	-	-	16.8	10.0	7.9	32.1	02.1	127.1	121.4	10.2	10.2	1.7		3			
SR8	Fine	Rough	12:54	4.8	Middle	-	-	-	-	-	<u> </u>	-		-	- 1	-		-	1.9	-	3	820411	811624
						-	-	-	-		-	-		-				-		-	-		
					Bottom	3.8	-	-	17.4	17.5	7.9 7.9	31.6		110.9	109.9	8.8	8.7	2.0		3			
A: Dopth Avor						3.8	-	-	17.5		7.9	31.5		108.9		8.6		2.1		4			

DA: Depth-Averaged

Water Quality Monitoring Results on 04 February 23 during Mid-Ebb Tide

Water Qua	lity Monit	oring Resu	its on		04 February 23	during Mid-																		
Monitoring	Weather	Sea	Sampling	Water			Current Speed	Current	Water Te	emperature (°C)	F	pН	Salir	nity (ppt)	DOS	Saturation (%)	Disso Oxy		Turbidity	(NTU)	Suspende (mg/		Coordinate	Coordinate
Station	Condition	Condition	Time	Depth (m)	Sampling Dept	h (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	.	Value	DA	Value	DA	HK Grid (Northing)	HK Grid (Easting)
						1.0	0.1	194	16.9		8.1		31.9		135.6		10.8		3.4		6			
					Surface	1.0	0.0	189	16.9	16.9	8.1	8.1	31.9	31.9	135.6	135.6	10.8		3.4		6			
						4.4	0.1	181	16.9		8.1		31.9				10.7	10.8	3.3		6	_		
C1	Cloudy	Rough	13:00	8.8	Middle	4.4	0.1	177	16.9	16.9	8.1	8.1	31.9	31.9	134.4 134.3	134.4	10.7		3.3	3.2	7	7	815601	804235
					Dettern	7.8	0.0	162	16.9	16.9	8.1	0.4	31.9	31.9		133.1	10.6	10.6	3.0		8			
					Bottom	7.8	0.0	158	16.9	16.9	8.1	8.1	31.9	31.9	133.1 133.1	133.1	10.6	10.6	3.0		7			
					Surface	1.0	0.1	1	16.7	16.7	8.1	8.1	31.7	31.7	138.4 138.3	138.4	11.1		3.1		6			
					Sullace	1.0	0.1	2	16.7	10.7	8.1	0.1	31.7	31.7	138.3	130.4	11.1	11.1	3.1		5			
C2	Rainy	Rough	11:10	9.5	Middle	4.8	0.2	11	16.7	16.7	8.1	8.1	31.7	31.7	137.7	137.7	11.1	11.1	2.8	3.2	5	6	825658	806944
02	Rainy	Rough	11.10	9.0	Middle	4.8	0.2	16	16.7	10.7	8.1	0.1	31.7	51.7	137.7	137.7	11.1		2.9	5.2	6	0	020000	000944
					Bottom	8.5	0.2	349	16.7	16.7	8.1	8.1	31.7	31.7	136.9	136.9	11.0	11.0	3.6		6			
					Bottom	8.5	0.1	355	16.7	10.7	8.1	0.1	31.7	51.7	136.9	150.5	11.0	11.0	3.5		6			
					Surface	1.0	0.1	92	17.1	17.1	7.8	7.8	31.3	31.3	119.2	119.0	9.5		2.0		6			
					Guilace	1.0	0.0	93	17.1	17.1	7.8	7.0	31.3	51.5	118.7	113.0	9.5	9.3	2.1		7			
C3	Rainy	Rough	12:11	11.0	Middle	5.5	0.1	101	17.0	17.0	7.8	7.8	31.1	31.1	113.2	113.0	9.1	0.0	3.9	3.5	6	6	822126	817798
00	rearry	rtougn	12.11	11.0	Middle	5.5	0.1	97	17.0	11.0	7.8	7.0	31.1	01.1	112.8	110.0	9.0		3.8	0.0	7	Ū	022120	011100
					Bottom	10.0	0.1	67	16.9	16.9	7.9	7.9	31.2	31.3	111.5	111.4	8.9	8.9	4.5		5			
					20110111	10.0	0.2	63	16.9	10.0	7.9		31.3	01.0			8.9	0.0	4.4		6			
					Surface	1.0	0.1	87	16.7	16.7	8.1	8.1	31.7	31.7	138.6 138.6	138.6	11.1		3.0		8			
						1.0	0.1	89	16.7		8.1		31.7	• · · ·			11.1	11.1	3.1		7			
IM1	Cloudy	Rough	12:28	7.7	Middle	3.9	0.0	97	16.7	16.7	8.1	8.1	31.7	31.7	137.8	137.8	11.1		3.3	3.4	7	8	818329	806458
	-	Ũ				3.9	0.1	91	16.7		8.1		31.7		137.8		11.1		3.3		7			
					Bottom	6.7	0.0	56	16.7	16.7	8.1	8.1	31.7	31.7	137.2 137.2	137.2	11.0	11.0	3.8		9			
						6.7	0.0	58	16.7		8.1		31.7				11.0		3.7		10			
					Surface	1.0	0.1	47	16.7	16.7	8.1	8.1	31.7	31.7	137.4	137.4	11.0		3.5		6			
						1.0	0.1	44	16.7		8.1		31.7		137.4		11.0	11.0	3.5		6			
IM2	Cloudy	Rough	12:16	7.8	Middle	3.9 3.9	0.1	49	16.7 16.7	16.7	8.1 8.1	8.1	31.7 31.7	31.7	136.1 136.0	136.1	10.9 10.9		3.6 3.6	3.6	7	7	819203	806225
						3.9 6.8	0.1	43 61	16.7				31.7						3.6		6 7			
					Bottom	6.8	0.1	61	16.7	16.7	8.1 8.1	8.1	31.7	31.7	133.5 133.4	133.5	10.7 10.7	10.7	3.8	-	7			
	-					1.0	0.1	48	16.7		8.1		31.7				11.3		3.8		9			
					Surface	1.0	0.1	52	16.6	16.6	8.1	8.1	31.7	31.7	140.6	140.6	11.3		3.5	1	8			
						4.0	0.2	46	16.6		8.1		31.7		136.9		11.0	11.2	5.3	1	° 7			
IM7	Rainy	Rough	11:47	7.9	Middle	4.0	0.2	40	16.6	16.6	8.1	8.1	31.7	31.7	136.8	136.9	11.0		5.4	4.6	6	7	821368	806839
						6.9	0.2	30	16.6		8.1		31.7		136.4		11.0		4.8		5			
					Bottom	6.9	0.1	29	16.6	16.6	8.1	8.1	31.7	31.7	136.4	136.4	11.0	11.0	4.0	1	6			
						0.9	U.I	29	10.0		0.1		31.7		130.4		11.0		4.9	1	0			

DA: Depth-Averaged

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

Water Quality Monitoring Results on 04 February 23 during Mid-Ebb Tide

Nater Qua	lity Monit	oring Resu	lts on		04 February 23	during Mid-	Ebb Tide	e																
Monitoring	Weather	Sea	Sampling	Water	Sampling Dep	th (m)	Current Speed	Current	Water Te	emperature (°C)		pН	Salin	iity (ppt)		aturation (%)	Dissol Oxyg		Turbidity	(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dep		(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.1	306	17.2	17.2	8.0	8.0	30.8	30.8	129.8	129.6	10.4		1.0		6			
					Gunace	1.0	0.1	308	17.2	17.2	8.0	0.0	30.8	50.0	129.3	123.0	10.3	10.1	1.1		6			
IM10	Rainy	Rough	11:07	8.0	Middle	4.0	0.2	311	17.0	17.0	8.0	8.0	31.0	31.0	125.8	123.2	10.1		1.1	1.1	6	6	822244	809822
			_			4.0	0.2	316	16.9	-	8.0		31.0		120.5	_	9.7		1.2		5			
					Bottom	7.0	0.1	320	16.7	16.7	8.0 8.0	8.0	31.2 31.2	31.2	116.7 116.9	116.8	9.4 9.4	9.4	1.2		6 5			
						1.0	0.1	319 319	16.7 17.2								_		1.1 1.4		5			
					Surface	1.0	0.0	316	17.2	17.2	8.0 8.0	8.0	30.9 30.9	30.9	128.7 128.2	128.5	10.3 10.3		1.4		6			
						4.6	0.0	327	16.9		8.0		31.2		125.0		10.0	10.2	1.4		6			
IM11	Rainy	Rough	11:12	9.2	Middle	4.6	0.0	323	16.8	16.9	8.0	8.0	31.2	31.2	123.7	124.4	10.0		1.5	1.6	5	6	821511	810540
						8.2	0.0	290	16.6		8.0		31.4		116.1		0.4		1.9		7			
					Bottom	8.2	0.0	290	16.5	16.6	8.0	8.0	31.4	31.4	114.4	115.3	9.2	9.3	1.8		6			
					Surface	1.0	0.0	303	17.2	17.2	8.0	8.0	30.9	20.0	126.9 126.0	126.5	10.1		1.1		10			
					Surface	1.0	0.1	304	17.2	17.2	8.0	8.0	30.9	30.9	126.0	120.5	10.1	9.9	1.1		9			
IM12	Rainy	Rough	11:19	7.8	Middle	3.9	0.1	291	17.2	17.2	8.0	8.0	30.9	30.9	122.8	121.7	9.8	5.5	1.3	1.5	7	8	821150	811517
INTZ	rtairry	Rough	11.13	7.0	Widdle	3.9	0.0	286	17.2	17.2	8.0	0.0	30.9	50.5	120.6	121.7	9.6		1.4	1.5	6	0	021150	011317
					Bottom	6.8	0.1	318	17.2	17.2	8.0	8.0	30.8	30.8	114.3	113.8	9.1	9.1	2.0		7			
						6.8	0.1	321	17.2		8.0		30.9		113.2		9.0	÷	2.0		6			
					Surface	1.0	0.0	165	17.4	17.4	8.0	8.0	31.1	31.1	132.5	132.3	10.5		1.9	-	6			
						1.0	0.1	166	17.4		8.0		31.1		132.0		10.5	10.5	1.9		7			
SR1A	Rainy	Rough	11:39	5.6	Middle	2.8 2.8	0.1	170 166	-	-		-	-	-	-	-	•		-	2.0	-	6	819978	812654
						4.6	0.0	177	17.4		8.0		31.1		- 131.0		10.4		2.1		5			
					Bottom	4.6	0.0	173	17.4	17.4	8.0	8.0	31.1	31.1	130.7	130.9	10.4	10.4	2.1		6			
					. <i>i</i>	1.0	0.0	42	17.2	17.0	8.0		30.9		123.2	100 5	9.9		1.3		5			
					Surface	1.0	0.0	35	17.2	17.2	8.0	8.0	30.9	30.9	121.7	122.5	0.7	~ ~	1.2		6			
SR2	Rainy	Rough	11:51	5.6	Middle	-	0.1	40	-	-	-		-		-	_	-	9.8	-	1.4	-	6	821464	814162
382	Rainy	Rough	11.51	5.0	Widdle	-	-	33	-	-	-	-	-	-	-	-	-		-	1.4	-	0	021404	014102
					Bottom	4.6	0.1	54	17.1	17.2	8.0	8.0	31.0	30.9	113.1	112.1	9.0	9.0	1.6		6			
					Bottom	4.6	0.0	57	17.2		8.0	0.0	30.9	00.0	111.0		8.9	0.0	1.6		6			
					Surface	1.0	0.2	1	16.6	16.6	8.1	8.1	31.7	31.7	139.8	139.8	11.2		3.5		6			
						1.0	0.2	7	16.6		8.1		31.7		139.8		11.2	11.2	3.5		6			
SR3	Rainy	Rough	11:35	8.8	Middle	4.4	0.2	351	16.6	16.6	8.1 8.1	8.1	31.7	31.7	139.1 139.1	139.1	11.2		3.9 3.9	4.5	7	6	822137	807583
						4.4	0.2	344 31	16.6 16.6		8.1		31.7 31.7				11.2 10.9		3.9 6.0	-	6			
					Bottom	7.8	0.2	31	16.6	16.6	8.1	8.1	31.7	31.7	135.4 135.5	135.5	10.9	10.9	6.0		7			
	l l				1	1.0	0.2	298	16.9		8.1		31.9		140.8		11.3		2.5		7			
					Surface	1.0	0.0	294	16.9	16.9	8.1	8.1	31.9	31.9	140.8	140.8	11.2		2.5		8			
	<u>.</u>		10.00	10.0		5.2	0.0	293	16.9	10.0	8.1		31.9		136.8	100.0	10.9	11.1	2.7		8			
SR4A	Cloudy	Moderate	13:26	10.3	Middle	5.2	0.0	297	16.9	16.9	8.1	8.1	31.9	31.9	136.8	136.8	10.9	ľ	2.7	2.7	7	8	817176	807823
					Bottom	9.3	0.0	273	16.9	16.9	8.1	8.1	31.9	31.9	136.5	136.5	10.9	10.9	2.8		8			
					BOILOIN	9.3	0.0	275	16.9	10.9	8.1	0.1	31.9	51.9	136.4	130.5	10.9	10.9	2.8	1	9			
					Surface	1.0	-	-	16.9	16.9	8.0	8.0	31.2	31.2	125.1	124.2	10.1	Ī	1.1		5			
					Gundoo	1.0	-	-	16.8	10.0	8.0	0.0	31.2	01.2	123.3	12-7.2	9.9	10.0	1.1		6			
SR8	Rainy	Rough	11:23	4.6	Middle	-	-	-	-	-	-		-	-	-		-		-	1.2	-	7	820384	811607
	. ,		-	-		-	-	-	-		-		-		-		-		-		-			
					Bottom	3.6	-	-	16.6	16.6	8.0	8.0	31.3	31.0	114.9	113.8	9.3	9.2	1.3	-	7			
			1		1	3.6	-	-	16.5		8.0	1	30.8		112.6		9.1		1.3		8			

DA: Depth-Averaged

Water Quality Monitoring

Water Quality Monitoring Results on 04 February 23 during Mid-Flood Tide

valer Quai		oring Resu	its on		04 February 23	during Mid-		ue																
Monitoring	Weather	Sea	Sampling	Water	Sampling Dept	h (m)	Current Speed	Current	Water To	emperature (°C)	F	эΗ	Salir	nity (ppt)		aturation %)	Disso Oxy		Turbidity	(NTU)	Suspende (mg/		Coordinate HK Grid	Coordina HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dept	n (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting
					0	1.0	0.3	44	16.7	16.7	7.9	7.0	31.7	31.7	136.0	136.1	10.9		3.0		6			
					Surface	1.0	0.3	49	16.7	16.7	7.9	7.9	31.7	31.7	136.1	136.1	10.9		3.0		7			
01		Devel	07.44		Middle	4.2	0.3	21	16.7	16.7	7.9	7.0	31.7	04.7	135.7	135.7	10.9	10.9	2.0	2.2	6	-	045040	00.40
C1	Cloudy	Rough	07:11	8.3	IVIIddie	4.2	0.3	18	16.7	16.7	7.9	7.9	31.7	31.7	135.7	135.7	10.9		2.0	2.2	7	7	815643	8042
					Detter	7.3	0.3	25	16.7	40.7	7.9	7.0	31.7	04.7	135.2	405.0	10.9	40.0	1.6		6			
					Bottom	7.3	0.3	26	16.7	16.7	7.9	7.9	31.7	31.7	135.2	135.2	10.9	10.9	1.6		7			
					Curtone	1.0	0.3	354	16.7	16.7	8.1	0.4	31.7	31.7	137.7	137.7	11.1		3.3		7			
					Surface	1.0	0.3	356	16.7	10.7	8.1	8.1	31.7	31.7	137.7 137.6	137.7	11.1	11.0	3.3		7			
C2	Cloudy	Rough	08:40	9.2	Middle	4.6	0.3	334	16.7	16.7	8.1	8.1	31.7	31.7	136.2 136.2	136.2	10.9	11.0	3.6	3.6	7	7	825673	8069
62	Cloudy	Rough	06.40	9.2	Midule	4.6	0.4	340	16.7	10.7	8.1	0.1	31.7	31.7	136.2	130.2	10.9		3.6	3.0	7	'	023073	0009
					Bottom	8.2	0.3	9	16.7	16.7	8.1	8.1	31.7	31.7	135.2	135.2	10.9	10.9	4.0		8			
					Bollom	8.2	0.3	10	16.7	10.7	8.1	0.1	31.7	31.7	135.2	133.2	10.9	10.9	4.1		7			
					Surface	1.0	0.4	269	17.1	17.1	8.1	8.1	31.3	31.3	124.1 123.8	124.0	9.9		2.2		8			
					Guilace	1.0	0.5	274	17.1	17.1	8.1	0.1	31.3	51.5		124.0	9.9	9.6	2.1		7			
C3	Rainv	Rough	08:10	11.8	Middle	5.9	0.4	280	17.0	17.0	8.1	8.1	31.4	31.4	115.5	115.4	9.2	0.0	3.1	3.1	7	7	822125	8178
						5.9	0.4	272	17.0		8.1		31.4		115.3		9.2		3.1		6	-		
					Bottom	10.8	0.5	278	17.0	17.0	8.1	8.1	31.4	31.4	113.7	113.5	9.1	9.1	4.1	_	7			
						10.8	0.5	270	17.0	-	8.1	-	31.4		113.3		9.1	-	4.0		6			
					Surface	1.0	0.2	9	16.9	16.9	8.0 8.0	8.0	31.9	31.9	133.8 133.8	133.8	10.7		1.8	_	7			
						1.0	0.1	14	16.9				31.9				10.7	10.7	1.8	-	7			
IM1	Cloudy	Rough	07:40	7.3	Middle	3.7	0.2	20	16.9	16.9	8.0 8.0	8.0	31.9	31.9	132.9 132.9	132.9	10.6		2.3	2.1	6	7	818349	8064
						3.7 6.3	0.2	12	16.9				31.9				10.6		2.3	-	6			
					Bottom	6.3	0.2	13 6	16.9 16.9	16.9	8.0 8.0	8.0	31.9 31.9	31.9	130.2 130.0	130.1	10.4 10.4	10.4	2.2 2.2	-	6			
						1.0	0.1	8	16.9				31.9				10.4		1.8		5			
					Surface	1.0	0.2	10	16.9	16.9	8.0 8.0	8.0	31.9	31.9	134.8 134.8	134.8	10.8		1.8	-	6			
						3.7	0.2	30	16.9		8.0		31.9		134.5		10.7	10.8	1.9	-	6			
IM2	Cloudy	Rough	07:49	7.4	Middle	3.7	0.2	35	16.9	16.9	8.0	8.0	31.9	31.9	134.5	134.5	10.7		2.0	2.3	6	6	819179	8062
						6.4	0.2	33	16.9		8.0		31.9		134.2		10.7		3.1	-	8			
					Bottom	6.4	0.1	28	16.9	16.9	8.0	8.0	31.9	31.9	134.2	134.2	10.7	10.7	3.2	-	7			
						1.0	0.1	319	16.7		8.1		31.8		-		10.8		3.7		9			
					Surface	1.0	0.1	323	16.7	16.7	8.1	8.1	31.8	31.8	134.6 134.6	134.6	10.8		3.7	1	8			
	<u>.</u>			7.0		3.8	0.1	322	16.7	10 7	8.1		31.8		133.7	100 -	10.7	10.8	3.2	1	8			
IM7	Cloudy	Rough	08:14	7.6	Middle	3.8	0.1	317	16.7	16.7	8.1	8.1	31.8	31.8	133.7	133.7	10.7		3.3	3.7	9	8	821326	8068
					Dettern	6.6	0.1	309	16.7	40.7	8.1	0.4	31.8	24.0	132.6	132.6	10.7	40.7	4.2	1	7			
					Bottom	6.6	0.1	306	16.7	16.7	8.1	8.1	31.8	31.8	132.6	132.6	10.6	10.7	4.2	1	7			

DA: Depth-Averaged

Water Quality Monitoring Results on 04 February 23 during Mid-Flood Tide

Nater Qual	lity Monit	oring Resu	Its on		04 February 23	during Mid-	Flood T	de																
Monitoring	Weather	Sea	Sampling	Water	Sampling Dep	th (m)	Current Speed	Current	Water Te	emperature (°C)		pН	Salin	ity (ppt)		aturation (%)	Dissol Oxyg		Turbidity	(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dep		(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.3	302	17.2	17.2	8.0	8.0	30.8	30.8	128.4	128.2	10.3		1.2		7			
					Gunace	1.0	0.4	298	17.2	17.2	8.0	0.0	30.8	50.0	127.9	120.2	10.2	10.2	1.3		8			
IM10	Rainy	Rough	09:24	8.8	Middle	4.4	0.3	273	17.2	17.2	8.0	8.0	30.8	30.8	126.0	125.7	10.1		1.4	1.4	6	7	822241	809818
						4.4	0.3	273	17.2		8.0		30.8		125.4	_	10.0		1.4		6		-	
					Bottom	7.8	0.2	303	17.2	17.2	8.0	8.0	30.8	30.8	116.2 114.6	115.4	9.3	9.3	1.7	-	6			
						7.8 1.0	0.2	303 281	17.2 17.2		8.0		30.8				9.2		1.6 1.0		6			
					Surface	1.0	0.4	281	17.2	17.2	8.0 8.0	8.0	30.9 30.9	30.9	126.1 125.4	125.8	10.1 10.0		1.0	-	8			
						3.9	0.4	202	17.2		8.0		30.9		123.4		9.8	9.9	1.1		8			
IM11	Rainy	Rough	09:20	7.8	Middle	3.9	0.4	272	17.2	17.2	8.0	8.0	30.9	30.9	122.1	122.6	9.8		1.1	1.1	7	7	821500	810530
					_	6.8	0.4	255	17.2		8.0		30.8		113.0		0.0		1.3		7			
					Bottom	6.8	0.3	249	17.2	17.2	8.0	8.0	30.8	30.8	111.7	112.4	8.9	9.0	1.2		6			
						1.0	0.4	289	17.2		8.0		30.9		128.2		10.2		1.2		5			
					Surface	1.0	0.4	283	17.2	17.2	8.0	8.0	30.9	30.9	127.8	128.0	10.2	10.1	1.2		5			
IM12	Deinu	Davish	00.02	7.0	Middle	3.8	0.3	273	17.2	17.2	8.0	8.0	30.9	20.0	125.6	125.2	10.0	10.1	1.3	1.3	7	6	821174	811523
IIVI I Z	Rainy	Rough	09:03	7.6	widdie	3.8	0.3	279	17.2	17.2	8.0	8.0	30.9	30.9	124.8	125.2	10.0		1.3	1.3	6	6	821174	811523
					Bottom	6.6	0.3	266	17.2	17.2	8.0	8.0	30.8	30.8	116.8	116.0	9.3	9.3	1.6		7			
					Dottom	6.6	0.4	265	17.2	17.2	8.0	0.0	30.8	50.0	115.1	110.0	9.2	5.5	1.6		6			
					Surface	1.0	0.0	215	17.0	17.0	8.1	8.1	31.4	31.4	125.3	124.5	10.0		1.0		6			
						1.0	0.1	221	16.9		8.1	0.1	31.5	0	123.6	12.110	9.9	10.0	1.1		6			
SR1A	Rainy	Rough	08:43	4.4	Middle	2.2	0.0	222	-	-	-	-	-	-	-	-	-		-	1.5	-	7	819976	812656
		÷				2.2	0.1	220	-		-		-		-		-		-	-	-			
					Bottom	3.4 3.4	0.0	211	16.5 16.4	16.5	8.1 8.1	8.1	31.6 29.9	30.8	113.2 110.2	111.7	9.1 8.9	9.0	1.9 2.0	-	7 8			
						1.0	0.0	203 313								1			1.2					
					Surface	1.0	0.0	313	17.2 17.2	17.2	8.0 8.0	8.0	31.0 31.0	31.0	120.6 114.7	117.7	9.6 9.2		1.2	-	6 6			
						-	0.0	318	-				-		-		-	9.4	-	-	-			
SR2	Rainy	Rough	08:31	4.6	Middle	-	0.0	324	-	-	-		-	-	-	-	-		-	1.4	-	7	821463	814146
					_	3.6	0.0	316	17.2		8.0		31.0		111.7		80		1.5		7			
					Bottom	3.6	0.1	322	17.2	17.2	8.0	8.0	30.8	30.9	109.5	110.6	8.8	8.9	1.6		8			
					0	1.0	0.2	340	16.7	40.7	8.0		31.8	04.0	135.3	405.0	10.9		3.1		7			
					Surface	1.0	0.2	337	16.7	16.7	8.0	8.0	31.8	31.8	135.3	135.3	10.0	10.9	3.2		8			
SR3	Cloudy	Bough	08:26	8.4	Middle	4.2	0.2	324	16.7	16.7	8.1	8.1	31.8	31.8	135.2	135.2	10.9	10.9	3.3	3.6	7	7	822147	807577
3K3	Cloudy	Rough	00.20	0.4	Widdle	4.2	0.2	321	16.7	10.7	8.1	0.1	31.8	31.0	135.2	133.2	10.9		3.3	3.0	7	'	022147	807577
					Bottom	7.4	0.3	309	16.7	16.7	8.1	8.1	31.8	31.8	134.5	134.5	10.8	10.8	4.4		7			
					Dottom	7.4	0.3	311	16.7	10.7	8.1	0.1	31.8	51.0	134.5	104.0	10.8	10.0	4.4		7			
					Surface	1.0	0.0	219	16.7	16.7	7.8	7.8	31.7	31.7	135.9	135.9	10.9		1.0		6			
						1.0	0.0	221	16.7		7.8		31.7		135.9		10.9	10.9	1.1		5			
SR4A	Cloudy	Moderate	06:39	9.7	Middle	4.9	0.0	224	16.7	16.7	7.9	7.9	31.7	31.7	134.9	134.9	10.8		1.5	1.3	7	7	817196	807808
						4.9	0.0	225	16.7		7.9		31.7		134.9		10.8		1.5	-	8			
					Bottom	8.7 8.7	0.0	218 212	16.7 16.7	16.7	7.9	7.9	31.7 31.7	31.7	133.3 133.2	133.3	10.7 10.7	10.7	1.5 1.5		8			
						8.7	- 0.0	- 212	16.7		7.9 8.0	1	31.7		133.2		10.7		1.5		6		I	
					Surface	1.0	-	-	17.0	17.0	8.0	8.0	31.1	31.1	124.7	122.4	9.6		1.0	-	7			
						-	-	-	-		0.0				-		9.0	9.8	-		- '			
SR8	Rainy	Rough	08:58	5.2	Middle	-	-	-		-	-	-		-	-	-	-		-	1.2	-	7	820408	811608
						4.2	-	-	16.7		8.0		31.3		113.6		9.1	_	1.3		7			
					Bottom	4.2	-	-	16.7	16.7	8.0	8.0	30.4	30.8	110.0	111.8	8.9	9.0	1.3		7			
						4.2	-	-	10.7		0.0		30.4		110.0		0.9		1.3		/			

DA: Depth-Averaged

Water Quality Monitoring Water Quality Monitoring Results on

07 February 23 during Mid-Ebb Tide

Water Qua	iity wonit	oring Resu	its on		07 February 23	during Mid-																		
Monitoring	Weather	Sea	Sampling	Water	Sampling Dep	sth (m)	Current Speed	Current	Water Te	emperature (°C)		pН	Salin	ity (ppt)	DO S	aturation (%)	Disso Oxy	olved ⁄gen	Turbidity	(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dep		(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.1	188	17.5	17.5	8.2	8.2	29.9	29.9	132.4	132.2	10.6		5.1		4			
					Surface	1.0	0.1	182	17.5	17.5	8.2	8.2	29.9	29.9	131.9	132.2	10.6	10.4	5.6		3			
C1	Cloudy	Moderate	13:46	8.8	Middle	4.4	0.1	210	17.4	17.4	8.2	8.2	30.0	30.0	128.4	128.1	10.3	10.4	8.1	7.8	4	3	815638	804266
CI	Cloudy	wouerate	13.40	0.0	WIGGIE	4.4	0.1	206	17.4	17.4	8.2	0.2	30.0	30.0	127.7	120.1	10.2		8.5	1.0	3	3	013030	004200
					Bottom	7.8	0.1	205	17.5	17.5	8.2	8.2	30.0	30.0	120.6 120.2	120.4	9.6	9.6	9.9		2			
					Dollom	7.8	0.1	200	17.5	17.5	8.2	0.2	30.0	30.0	120.2	120.4	9.6	9.0	9.8		3			
					Surface	1.0	0.1	25	17.7	17.7	8.2	8.2	29.3	29.3	138.4 138.1	138.3	11.1		1.7		4			
					Sunace	1.0	0.1	25	17.7	17.7	8.2	0.2	29.4	29.5	138.1	130.3	11.0	11.0	1.7		5			
C2	Cloudy	Moderate	12:33	11.3	Middle	5.7	0.1	11	17.6	17.6	8.2	8.2	29.8	29.8	136.6	136.6	10.9	11.0	5.8	6.9	3	4	825698	806942
02	Cloudy	wouerate	12.55	11.5	IVIIUUIE	5.7	0.2	10	17.6	17.0	8.2	0.2	29.8	29.0	136.5	130.0	10.9		6.1	0.5	4	4	023090	000942
					Bottom	10.3	0.1	30	17.6	17.6	8.3	8.3	29.9	29.9	136.4	136.4	10.9	10.9	13.1		3			
					Bollom	10.3	0.1	24	17.6	17.0	8.3	0.3	29.9	29.9	136.4	130.4	10.9	10.9	13.2		2			
					Surface	1.0	0.2	102	17.4	17.4	8.0	8.0	31.1	31.1	137.4	137.4	10.9		2.5		3			
					Sunace	1.0	0.2	98	17.4	17.4	8.0	0.0	31.1	51.1	137.4	137.4	10.9	10.7	2.5		3			
C3	Sunny	Calm	14:18	11.4	Middle	5.7	0.3	85	17.1	17.1	8.0	8.0	31.3	31.3	131.6	131.6	10.5	10.7	3.7	4.4	3	4	822109	817793
03	Sunny	Califi	14.10	11.4	IVIIUUIE	5.7	0.3	85	17.1	17.1	8.0	0.0	31.3	51.5	131.5	131.0	10.5		3.8	4.4	4	4	022109	017795
					Bottom	10.4	0.3	70	16.9	16.9	7.9	7.9	31.6	31.6	120.9 120.9	120.9	9.7	9.7	6.9		5			
					Dollom	10.4	0.3	75	16.9	10.9	7.9	7.5	31.6	51.0	120.9	120.9	9.7	5.7	6.9		4			
					Surface	1.0	0.0	124	17.6	17.6	8.2	8.2	29.6	29.6	138.3 137.9	138.1	11.1		3.7		5			
					Sunace	1.0	0.1	131	17.6	17.0	8.2	0.2	29.6	29.0	137.9	130.1	11.0	10.7	4.0		4			
IM1	Cloudy	Moderate	13:26	6.4	Middle	3.2	0.1	125	17.6	17.6	8.2	8.2	30.0	30.0	128.7 128.4	128.6	10.3	10.7	11.0	9.3	4	4	818345	806480
IIVII	Cloudy	woderate	10.20	0.4	Widdle	3.2	0.1	122	17.6	17.0	8.2	0.2	30.0	50.0	128.4	120.0	10.2		12.3	5.5	5	-	010040	000400
					Bottom	5.4	0.1	134	17.7	17.8	8.2	8.2	29.9	29.9	123.5 119.0	121.3	9.8	9.7	12.7		3			
					Dottom	5.4	0.1	128	17.8	17.0	8.2	0.2	29.9	23.3	119.0	121.5	9.5	3.7	12.2		4			
					Surface	1.0	0.0	77	17.6	17.6	8.2	8.2	29.8	29.8	134.0 132.8	133.4	10.7		6.8		2			
					Ounace	1.0	0.0	83	17.6	17.0	8.2	0.2	29.9	23.0		100.4	10.6	10.4	7.4		3			
IM2	Cloudy	Moderate	13:22	7.2	Middle	3.6	0.1	84	17.6	17.6	8.2	8.2	29.9	29.9	127.3 126.6	127.0	10.2	10.4	9.5	10.0	2	3	819175	806232
IIVIZ	Cloudy	woderate	10.22	1.2	Widdle	3.6	0.0	82	17.6	17.0	8.2	0.2	29.9	23.3		127.0	10.1		10.3	10.0	3	5	013173	000232
					Bottom	6.2	0.0	60	17.6	17.6	8.2	8.2	30.0	29.9	124.7 124.3	124.5	9.9	9.9	13.1		4			
					Dottom	6.2	0.0	66	17.6	17.0	8.2	0.2	29.9	23.3		124.5	9.9	3.5	13.1		3			
					Surface	1.0	0.2	66	17.8	17.8	8.2	8.2	29.4	29.5	134.9 134.6	134.8	10.8		1.6		2			
					Canado	1.0	0.2	66	17.7	17.0	8.2	0.2	29.5	20.0		104.0	10.7	10.4	1.8		2			
IM7	Cloudy	Moderate	13:03	7.9	Middle	4.0	0.2	65	17.7	17.7	8.2	8.2	30.0	30.0	127.1	126.9	10.1	10.4	3.5	3.1	3	2	821346	806824
11117	Cioudy	Moderale	10.00	1.5	WILCOLD	4.0	0.2	72	17.7	17.7	8.2	0.2	30.0	50.0	126.7	120.3	10.1		3.7	5.1	2	2	021040	000024
					Bottom	6.9	0.2	59	17.7	17.7	8.2	8.2	30.0	30.0	125.0 124.4	124.7	10.0	10.0	3.8		2			
					Dottom	6.9	0.2	58	17.7		8.2	0.2	30.0	50.0	124.4	127.7	9.9	10.0	3.9		3			

DA: Depth-Averaged

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

Water Quality Monitoring Water Quality Monitoring Results on

07 February 23 during Mid-Ebb Tide

Water Qual	ity Monit	oring Resu	lts on		07 February 23	during Mid-	Ebb lide																	
Monitoring	Weather	Sea	Sampling	Water	Sampling Dep	th (m)	Current Speed	Current	Water Te	emperature (°C)		pН	Salir	nity (ppt)		aturation (%)	Disso Oxy		Turbidity	(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dep	ur (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.1	28	17.4	17.4	7.9	7.9	29.7	29.7	140.5	140.5	11.3		1.5		3			
						1.0	0.0	20	17.4		7.9		29.7		140.5		11.3	11.2	1.5	-	3			
IM10	Sunny	Moderate	12:31	9.1	Middle	4.6	0.0	26	17.3	17.3	7.9	7.9	30.4	30.4	138.3	138.3	11.1		2.0	2.0	4	3	822244	809833
						4.6	-	30	17.3		7.9		30.4		138.2		11.1		2.0	-	3			
					Bottom	8.1 8.1	0.0	39 41	17.2 17.2	17.2	7.8 7.8	7.8	30.7 30.7	30.7	134.3 134.2	134.3	10.8	10.8	2.4 2.4	4	3			
						8.1 1.0	0.1	41 77	17.2		7.8		30.7		134.2		10.7		2.4		2			
					Surface	1.0	0.0	83	17.4	17.4	8.0	8.0	30.6	30.6	138.6	138.7	11.1		2.9	-	2			
						4.1	0.0	56	17.4		8.0		30.7		137.5		11.0	11.1	1.4	1	4			
IM11	Sunny	Moderate	12:45	8.2	Middle	4.1	0.0	52	17.4	17.4	8.0	8.0	30.7	30.7	137.3	137.4	11.0		1.5	2.0	3	3	821517	810565
					_	7.2	0.0	50	17.2		8.0		30.7		134.4		10.8		1.8	1	4			
					Bottom	7.2	0.0	54	17.2	17.2	8.0	8.0	30.7	30.7	134.3	134.4	10.8	10.8	1.8	1	3			
					o. (1.0	0.1	83	17.2	17.0	8.0		30.6		138.8	100.0	11.1		1.9		3			
					Surface	1.0	0.2	78	17.2	17.2	8.0	8.0	30.6	30.6	138.7	138.8	11.1		2.0	1	4			
11440	0	Madamata	10.51	7.0	M della	4.0	0.2	83	17.2	47.0	8.0	0.0	30.7	00.7	135.1	405.0	10.8	11.0	1.8		3	0	004475	044507
IM12	Sunny	Moderate	12:54	7.9	Middle	4.0	0.2	88	17.2	17.2	8.0	8.0	30.7	30.7	134.9	135.0	10.8		1.8	2.1	3	3	821175	811507
					Bottom	6.9	0.1	65	17.1	17.1	8.0	8.0	30.8	30.8	132.6	132.6	10.6	10.6	2.5	1	3			
					Bollom	6.9	0.2	60	17.1	17.1	8.0	8.0	30.8	30.8	132.5	132.0	10.6	10.6	2.5		3			
					Surface	1.0	0.0	24	17.2	17.2	8.0	8.0	30.6	30.6	138.4	138.3	11.1		1.0		3			
					Sunace	1.0	0.1	26	17.2	17.2	8.0	0.0	30.6	50.0	138.2	130.5	11.1	11.1	1.0		4			
SR1A	Sunny	Calm	13:39	4.2	Middle	2.1	0.0	359	-		-	_	-		-		-		-	1.3	-	3	819981	812663
GIUIT	County	odini	10.00	4.2	Wilddie	2.1	0.1	2	-		-		-		-		-		-	1.0	-	Ũ	010001	012000
					Bottom	3.2	0.0	355	17.3	17.3	8.0	8.0	31.1	31.1	127.6	127.5	10.2	10.2	1.5	_	3			
						3.2	0.0	353	17.3		8.0		31.1	-	127.3		10.1	-	1.5		3			
					Surface	1.0	0.2	69	17.2	17.2	8.0	8.0	30.7	30.7	138.0	138.0	11.0		1.4	-	4			
						1.0	0.2	75	17.2		8.0		30.7		137.9		11.0	11.0	1.4	-	5			
SR2	Sunny	Calm	13:55	4.7	Middle	-	0.2	62	-	-	-	-	-	-	-	-	-		-	1.6	-	4	821442	814154
						- 3.7	0.2	65	-		-		-		-		-		-	4	-			
					Bottom	3.7	0.2	57 58	17.2 17.2	17.2	8.0 8.0	8.0	30.8 30.8	30.8	135.4 135.3	135.4	10.8 10.8	10.8	1.7 1.7		3			
						1.0	0.2	41	17.2		8.3		29.0		138.5		10.8		0.5	<u> </u>	3			
					Surface	1.0	0.1	47	17.7	17.7	8.3	8.3	29.0	29.1	138.0	138.3	11.0		0.6	•	2			
						4.4	0.1	38	17.6		8.3		29.6		136.2		10.9	11.0	1.0	•	3			
SR3	Cloudy	Moderate	12:57	8.8	Middle	4.4	0.1	44	17.6	17.6	8.3	8.3	29.6	29.6	136.0	136.1	10.9		1.0	0.9	3	3	822134	807584
					_	7.8	0.1	22	17.6		8.3		29.9		135.1		10.8		1.2	1	4			
					Bottom	7.8	0.1	24	17.6	17.6	8.3	8.3	29.9	29.9	135.0	135.1	10.8	10.8	1.2	1	3			
					<u> </u>	1.0	0.0	68	17.7		8.3		29.9		135.8	105 7	10.8		2.6	1	4			
					Surface	1.0	0.0	66	17.7	17.7	8.3	8.3	29.9	29.9	135.6	135.7	10.8	40.5	2.6	1	3			
0.0.4	0	Madamata	44.40		M della	4.3	0.0	88	17.7	47.7	8.3	0.0	30.0	00.0	127.0	400.0	10.1	10.5	3.4		3	0	047400	007044
SR4A	Cloudy	Moderate	14:12	8.6	Middle	4.3	0.0	80	17.7	17.7	8.3	8.3	30.1	30.0	126.6	126.8	10.1		3.4	3.3	3	3	817186	807811
					Bottom	7.6	0.0	70	17.7	17.7	8.3	8.3	30.1	30.0	121.8	121.5	9.7	9.7	3.8		2			
					Bollom	7.6	0.0	67	17.7	17.7	8.3	0.0	30.0	50.0	121.1	121.0	9.6	5.1	3.9		3			
					Surface	1.0	-	-	17.4	17.4	8.0	8.0	30.6	30.6	136.0	136.0	10.9		1.5		2			
					Gunace	1.0	-	-	17.4	17.4	8.0	0.0	30.6	50.0	136.0	150.0	10.9	10.9	1.5		4			
SR8	Sunny	Calm	13:02	4.4	Middle	-	-	-	-	-	-	_	-		-	_	-	10.3	-	1.7	-	3	820412	811615
0110	Juniy	Cain	10.02		Wildolo	-	-	-	-		-		-		-		-		-	1	-	Ŭ	520-12	011010
					Bottom	3.4	-	-	17.1	17.1	8.0	8.0	30.7	30.7	133.2	133.2	10.7	10.7	1.9	4	3			
						3.4	-	-	17.1		8.0		30.7		133.2		10.7		1.9		3			

Water Quality Monitoring

Water Quality Monitoring Results on 07 February 23 during Mid-Flood Tide

water Quar	ity monite	oring Resu	its on		07 February 23	during Mid-	<u>FI00a II</u>	ae																
Monitoring	Weather	Sea	Sampling	Water	Sampling Dept	h (m)	Current Speed	Current	Water Te	emperature (°C)		pН	Salin	ity (ppt)		aturation (%)	Disso Oxy		Turbidity	(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dept	()	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.3	42	17.6	17.6	8.2	8.2	29.5	29.5	134.4	134.2	10.8		3.8		4			
					Sunace	1.0	0.3	48	17.6	17.0	8.2	8.2	29.5	29.5	133.9	134.2	10.7	10.5	4.0		6			
61	Claudu	Madavata	00.55	0.4	Middle	4.2	0.4	38	17.5	17.5	8.2	8.2	29.8	29.8	129.5	127.2	10.4	10.5	10.0	0.4	4		045000	804264
C1	Cloudy	Moderate	08:55	8.4	IVIIddle	4.2	0.3	38	17.5	17.5	8.2	8.2	29.8	29.8	124.8	127.2	10.0		10.8	8.1	5	4	815608	804264
					Dettern	7.4	0.4	22	17.5	47.5	8.2	0.0	29.8	20.0	123.0	122.7	9.9	9.9	10.0		3			
					Bottom	7.4	0.4	25	17.5	17.5	8.2	8.2	29.8	29.8	123.0 122.4	122.7	9.8	9.9	9.7		3			
					Curfage	1.0	0.3	356	17.7	17.7	8.3	8.3	29.3	29.4	133.8	133.6	10.7		1.0		3			
					Surface	1.0	0.3	1	17.7	17.7	8.3	8.3	29.4	29.4	133.8 133.3	133.0	10.7	10.6	1.1		3			
C2	Cloudy	Moderate	10:15	11.5	Middle	5.8	0.3	352	17.6	17.6	8.3	8.3	29.9	29.9	130.5	130.3	10.4	10.6	2.5	4.4	3	3	825671	806930
02	Cloudy	Woderate	10.15	11.5	INIQUIE	5.8	0.2	348	17.6	17.0	8.3	0.5	29.9	29.9	130.1	130.5	10.4		2.5	4.4	3	5	023071	800930
					Bottom	10.5	0.3	14	17.6	17.6	8.3	8.3	29.8	29.8	124.3	124.1	9.9	9.9	9.6		4			
					Bottom	10.5	0.3	6	17.6	17.0	8.3	0.5	29.8	29.0	123.9	124.1	9.9	9.9	9.6		4			
					Surface	1.0	0.4	271	17.1	17.1	8.0	8.0	30.9	30.9	132.7 132.5	132.6	10.6		3.3		5			
					Guildoo	1.0	0.4	269	17.1		8.0	0.0	30.9	00.0		102.0	10.6	10.5	3.3		4			
C3	Sunny	Calm	07:47	12.2	Middle	6.1	0.4	278	17.0	17.0	8.0	8.0	31.0	31.0	130.1	130.1	10.4		5.0	5.4	4	4	822118	817781
•••						6.1	0.4	271	17.0		8.0		31.0		130.1		10.4		5.1		4			
					Bottom	11.2	0.3	239	17.0	17.0	8.0	8.0	31.0	31.0	129.6	129.7	10.4	10.4	7.7		3			
						11.2	0.3	237	17.0		8.0		31.0		129.7		10.4		7.8		4			
					Surface	1.0	0.3	29	17.5	17.5	8.2	8.2	29.8	29.8	133.6 133.4	133.5	10.7		7.6		4			
						1.0	0.2	31	17.5		8.2		29.8				10.7	10.7	7.5		2			
IM1	Cloudy	Moderate	09:18	6.9	Middle	3.5 3.5	0.2	23 30	17.6 17.6	17.6	8.2 8.2	8.2	29.9 29.9	29.9	132.7 132.6	132.7	10.6 10.6		7.5 6.9	8.4	2	3	818341	806434
						3.5 5.9	0.2	30	17.6				29.9 30.0						10.3		2			
					Bottom	5.9	0.3	33	17.6	17.6	8.2 8.2	8.2	30.0	30.0	125.6 125.4	125.5	10.0 10.0	10.0	10.3		2			
						1.0	0.3	21	17.6		8.2		29.8		125.4		10.0		6.8		2			
					Surface	1.0	0.3	26	17.6	17.6	8.2	8.2	29.8	29.8	130.4	130.7	10.3		7.1		2			
						3.7	0.3	34	17.6		8.2		30.0		128.3		10.4	10.3	8.8		3			
IM2	Cloudy	Moderate	09:23	7.4	Middle	3.7	0.3	36	17.6	17.6	8.2	8.2	30.0	30.0	127.7	128.0	10.2		9.1	8.1	4	3	819162	806219
					_	6.4	0.3	356	17.6		8.2		30.0				10.0		8.5		4			
					Bottom	6.4	0.2	348	17.6	17.6	8.2	8.2	30.0	30.0	125.4 125.0	125.2	10.0	10.0	8.3		4			
					Queferre	1.0	0.3	24	17.7	47.7	8.2		29.4	00.4		404.0	10.7		1.6		3			•
					Surface	1.0	0.3	31	17.7	17.7	8.2	8.2	29.5	29.4	134.2 133.8	134.0	10.7	10.0	1.6	1	3			
11.47	Claudu	Madavat	00:42	0.0	Middle	4.1	0.2	5	17.6	47.0	8.2	0.0	30.0	20.0	131.4	101.4	10.5	10.6	3.1	0.7	4	2	004007	000000
IM7	Cloudy	Moderate	09:43	8.2	Middle	4.1	0.2	3	17.6	17.6	8.2	8.2	30.0	30.0	131.3	131.4	10.5		3.0	2.7	3	3	821327	806832
					Bottom	7.2	0.2	5	17.6	17.6	8.2	8.2	30.0	30.0	130.2	130.2	10.4	10.4	3.4		3			
					Bottom	7.2	0.2	5	17.6	17.0	8.2	0.2	30.0	50.0	130.1	130.2	10.4	10.4	3.4		4			

DA: Depth-Averaged

Water Quality Monitoring

Water Quality Monitoring Results on 07 February 23 during Mid-Flood Tide

Nater Qual	ity Monit	oring Resu	its on		07 February 23	during Mid-	-Flood II	de																
Monitoring	Weather	Sea	Sampling	Water	Sampling Dep	nth (m)	Current Speed	Current	Water Te	emperature (°C)	p	н	Salin	ity (ppt)		aturation (%)	Disso Oxyg		Turbidity	(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Camping Dop	, (iii)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.3	310	17.2	17.2	8.0	8.0	29.8	29.8	138.4	138.4	11.1		2.9		3	i T		
ł						1.0	0.3	314	17.2		8.0		29.8		138.4		11.1	11.0	2.9	4	3	4		
IM10	Sunny	Calm	09:37	9.7	Middle	4.9	0.3	288	17.2	17.2	8.0	8.0	30.8	30.8	134.6	134.6	10.8		3.9	3.7	3	4	822224	809819
ł						4.9	0.3	289	17.2		8.0		30.8		134.6		10.8		3.9	1	4	1		
ł					Bottom	8.7 8.7	0.3	299 298	17.2 17.2	17.2	8.0 8.0	8.0	30.8 30.8	30.8	131.2 131.1	131.2	10.5 10.5	10.5	4.2 4.3	i i	5	1		
						1.0	0.3	290	17.2		8.0		30.7		136.6		10.9		2.7		4	·		
ł					Surface	1.0	0.3	269	17.2	17.2	8.0	8.0	30.7	30.7	136.5	136.6	10.9		2.7	i i	4	1		
		<u>.</u>				4.1	0.4	302	17.1		8.0		30.7		135.5		10.9	10.9	3.4		4	Ι.	00/50/	
IM11	Sunny	Calm	09:23	8.2	Middle	4.1	0.4	302	17.1	17.1	8.0	8.0	30.7	30.7	135.5	135.5	10.9		3.4	3.2	3	4	821504	810526
ł					Bottom	7.2	0.4	268	17.1	17.1	8.0	8.0	30.8	30.8	133.6	133.5	10.7	10.7	3.3	i i	3	1		
					Bollom	7.2	0.4	273	17.1	17.1	8.0	0.0	30.8	30.0	133.4	133.5	10.7	10.7	3.4		4	1		
					Surface	1.0	0.4	276	17.2	17.2	8.0	8.0	30.6	30.6	137.8	137.8	11.0		1.8		4	í		
ł					Canado	1.0	0.4	276	17.2		8.0	0.0	30.6	00.0	137.7	10110	11.0	10.9	1.8	1	5	1		
IM12	Sunny	Calm	09:11	8.7	Middle	4.4	0.4	268	17.1	17.1	8.0	8.0	30.8	30.8	134.4	134.4	10.8		1.9	2.0	3	4	821150	811501
ł						4.4	0.4	274	17.1		8.0		30.8		134.3		10.8		2.0	4	4	4		
ł					Bottom	7.7	0.4	259 262	17.1 17.1	17.1	8.0 8.0	8.0	30.8 30.8	30.8	132.2 132.1	132.2	10.6 10.6	10.6	2.2 2.3	1	4	1		
						1.0	0.3	189	17.1				30.8		-		10.6		2.3	┝───	3	<u> </u>		
ł					Surface	1.0	0.0	188	17.2	17.2	8.0 8.0	8.0	30.4	30.4	131.8 131.7	131.8	10.6		1.4	i i	4	1		
	_					2.4	0.0	206	-		-		-		-		-	10.6	-	1	-	1		
SR1A	Sunny	Calm	08:26	4.8	Middle	2.4	0.0	199	-	-	-	-	-	-	-	-	-		-	1.8	-	4	819972	812655
ł					Dettern	3.8	0.0	198	17.2	47.0	8.0	8.0	30.9	20.0	125.1	405.4	10.0	10.0	2.2	1	4	1		
					Bottom	3.8	0.1	201	17.2	17.2	8.0	8.0	30.9	30.9	125.1	125.1	10.0	10.0	2.1		4	L		
					Surface	1.0	0.1	249	17.1	17.1	8.0	8.0	30.8	30.8	135.9	135.9	10.9		1.5		4			
ł					Gunace	1.0	0.1	256	17.1	17.1	8.0	0.0	30.8	50.0	135.9	155.5	10.9	10.9	1.5	1	3	1		
SR2	Sunny	Calm	08:06	5.1	Middle	-	0.1	270	-	-	-	-	-	-	-	-	-	10.0	-	2.0	-	4	821457	814159
-	,			-		-	0.1	264	-		-		-		-		-		-	4	-	4		
ł					Bottom	4.1	0.1	274	17.1	17.1	8.0	8.0	30.8	30.8	134.3	134.3	10.8	10.8	2.4	4	4	4		
						4.1	0.1	279 339	17.1 17.7		8.0		30.8		134.2		10.7		2.4 0.1	┢────	4 3			
ł					Surface	1.0	0.4	336	17.7	17.7	8.2 8.2	8.2	28.7 28.8	28.7	139.3 139.1	139.2	11.2 11.1		0.1	i i	3	1		
ł						4.4	0.4	349	17.6		8.2		20.0		135.6		10.8	10.9	1.5	1	3	1		
SR3	Cloudy	Moderate	09:49	8.8	Middle	4.4	0.3	342	17.6	17.6	8.2	8.2	29.5	29.5	131.6	133.6	10.5		1.6	1.1	2	3	822168	807555
ł					Dattant	7.8	0.3	330	17.6	47.0	8.2	0.0	29.8	00.0	129.8	400.0	10.4	40.4	1.6	1	2	1		
					Bottom	7.8	0.3	323	17.6	17.6	8.2	8.2	29.8	29.8	129.4	129.6	10.3	10.4	1.6		3	L		
					Surface	1.0	0.0	193	17.6	17.6	8.2	8.2	30.2	30.2	131.5	131.4	10.5		5.6		2	[
ł					Gunace	1.0	0.1	185	17.6	17.0	8.2	0.2	30.2	50.2	131.3	131.4	10.5	10.4	5.6	1	4	1		
SR4A	Cloudy	Moderate	08:27	8.6	Middle	4.3	0.0	224	17.6	17.6	8.1	8.1	30.2	30.2	129.8	129.7	10.3		5.3	5.4	3	3	817182	807811
	,					4.3	0.1	216	17.6		8.1	••••	30.2		129.5		10.3		5.3	1	2	1		
ŀ					Bottom	7.6 7.6	0.0	231	17.7 17.7	17.7	8.1 8.1	8.1	30.2 30.2	30.2	128.2 127.9	128.1	10.2	10.2	5.4	1	2	i –		
						7.6	0.0	227	17.7										5.6 1.2	<u> </u>	3	<u> </u>		1
ŀ					Surface	1.0	-	-	17.3	17.3	8.0 8.0	8.0	30.5 30.5	30.5	136.2 136.2	136.2	10.9 10.9		1.2	l	4	i –		
						-	-		-				-		-		-	10.9	-	i .	-	i .		
SR8	Sunny	Calm	08:59	5.3	Middle	-	-	-	-	-	-	-	-	-	-	-	-		-	1.8	-	4	820387	811629
ŀ					Dettern	4.3	-	-	17.2	47.0	8.0	0.0	30.8	20.0	132.8	400.0	10.6	10.0	2.5	i	4	i -		
,			1	1	Bottom	4.3	-	-	17.2	17.2	8.0	8.0	30.8	30.8	132.7	132.8	10.6	10.6	2.4	1	5	í -	1	1

DA: Depth-Averaged

Water Quality Monitoring Results on 09 February 23 during Mid-Ebb Tide

Water Qua	lity Monit	oring Resu	its on		09 February 23	during Mid-																		
Monitoring	Weather	Sea	Sampling	Water	Sampling Dept	h (m)	Current Speed	Current	Water Te	emperature (°C)	pН	S	Salinity ((ppt)		aturation %)	Disso Oxyg		Turbidity	/(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dept		(m/s)	Direction	Value	Average	Value Avera	ige Val	lue Av	verage	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.2	196	17.8	17.8	8.4 8.4	31	1.3	31.3	124.3	124.4	9.8		5.9	1	4			
					Sullace	1.0	0.1	196	17.8	17.0	8.4	31	1.3	31.3	124.4	124.4	9.8	9.7	6.2		3			
C1	Cloudy	Moderate	15:03	8.0	Middle	4.0	0.2	190	17.7	17.7	8.4 8.4	31	1.3	31.3	119.9	119.8	9.5	9.7	7.5	6.2	4	4	815636	804263
01	Cloudy	Woderate	15.05	0.0	Middle	4.0	0.2	185	17.7	17.7	8.4	31	1.3	51.5	119.6	113.0	9.5		7.8	0.2	4	-	013030	004203
					Bottom	7.0	0.2	207	17.7	17.7	8.4 8.4	31		31.3	117.8 116.9	117.4	9.3	9.3	5.0		4			
					Dottoin	7.0	0.2	201	17.7	17.7	8.4 0.4	31	1.3	51.5	116.9	117.4	9.2	3.5	5.0		4			
					Surface	1.0	0.0	58	18.2	18.2	8.4 8.4	28		28.9	124.0 124.0	124.0	9.8		0.1		4			
					Gunace	1.0	0.1	61	18.1	10.2	8.4	28	3.9	20.3	124.0	124.0	9.8	9.6	0.1		3			
C2	Cloudy	Moderate	13:39	11.7	Middle	5.9	0.0	68	17.9	17.9	8.3 8.3	29		29.7	118.7	118.6	9.4	5.0	5.4	3.9	4	5	825683	806923
02	Cloudy	Woderate	15.55	11.7	Wilddie	5.9	0.1	62	17.9	17.5	8.3	29	9.7	23.1	118.5	110.0	9.4		5.7	5.5	5	5	023003	000323
					Bottom	10.7	0.1	46	17.8	17.8	8.3 8.3	29		29.8	117.9	117.9	9.4	9.4	6.0		6			
					Dottom	10.7	0.0	47	17.8	17.0	8.3	29	9.8	23.0	117.8	117.5	9.4	3.4	6.1		5			
					Surface	1.0	0.3	88	17.3	17.3	8.0 8.0	30		30.9	115.2	115.1	9.2		1.4		5			
					Guilace	1.0	0.3	83	17.2	17.5	8.0	30).9	50.5	114.9	113.1	9.2	9.0	1.4		6			
C3	Fine	Calm	14:37	11.0	Middle	5.5	0.3	83	17.2	17.2	8.0 8.0	30		30.8	112.7	110.7	9.0	3.0	3.8	3.1	5	5	822086	817789
05	1 110	Califi	14.57	11.0	Middle	5.5	0.3	84	17.2	17.2	8.1	30).8	50.0	108.6	110.7	8.7		3.9	5.1	4	5	022000	011103
					Bottom	10.0	0.3	81	17.2	17.2	8.1 8.1	30		30.7	108.3 106.9	107.6	8.7	8.7	4.0		4			
					Dottom	10.0	0.3	79	17.2	17.2	8.1 0.	30).7	50.7		107.0	8.6	0.7	4.1		5			
					Surface	1.0	0.1	192	17.8	17.8	8.4 8.4	30		30.7	119.0 118.8	118.9	9.4		4.4		5			
					Guildoo	1.0	0.1	184	17.8	11.0	8.4 8.4	30).7	00.7	118.8	110.0	9.4	9.4	4.5		6			
IM1	Cloudy	Moderate	14:41	6.6	Middle	3.3	0.0	195	17.6	17.6	8.3 8.3	30		30.8	117.5	117.4	9.3	0.4	5.1	5.1	4	5	818342	806447
	cloudy	moderate		0.0	midalo	3.3	0.1	194	17.6		8.3	30).8	00.0	117.3		9.3		5.2	0	4	0	010012	000111
					Bottom	5.6	0.1	198	17.6	17.6	8.3 8.3	30		30.8	111.4	111.2	8.8	8.8	5.5		4			
					Dottom	5.6	0.1	196	17.6		8.3	30).8	00.0	110.9		8.8	0.0	6.0		4			
					Surface	1.0	0.0	143	17.8	17.8	8.4 8.4	30		30.6	118.4	118.4	9.4		5.3		3			
						1.0	0.0	147	17.8		8.4	30).6		118.3		9.4	9.3	5.4		4			
IM2	Cloudy	Moderate	14:36	6.8	Middle	3.4	0.1	137	17.6	17.6	8.4 8.4	30		30.7	116.1	116.1	9.2	0.0	7.2	9.1	5	5	819192	806215
	,					3.4	0.1	134	17.6		8.4	30).7		116.0		9.2		6.8		5	-		
					Bottom	5.8	0.0	113	17.7	17.7	8.3 8.3	30		30.8	109.9	109.7	8.7	8.7	15.0		5			
						5.8	0.0	111	17.7		8.3	30).8		109.4		8.7		14.8		6			
					Surface	1.0	0.1	68	18.1	18.1	8.4 8.4	29		29.1	122.2	122.2	9.7		0.3	4	4			
						1.0	0.1	70	18.1		8.4	29	9.1		122.2		9.7	9.5	0.3	1	4			
IM7	Cloudy	Moderate	14:16	7.6	Middle	3.8	0.1	76	17.9	17.9	8.3 8.3	29		29.6	116.3	116.2	9.3		0.5	0.5	6	6	821362	806844
	2.2003					3.8	0.1	73	17.9		8.3	29	9.6		116.1		9.2		0.6	5.0	5	5	12.002	
					Bottom	6.6	0.2	62	17.8	17.8	8.3 8.3	29		29.8	108.0	107.9	8.6	8.6	0.5	4	7			
					Dottom	6.6	0.2	66	17.8		8.3	29	9.8		107.7		8.6	0.0	0.6		8			

DA: Depth-Averaged

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

Water Quality Monitoring Results on 09 February 23 during Mid-Ebb Tide

Vater Qua	lity Monit	oring Resu	lts on		09 February 23	during Mid-	Ebb Tide	e																
Monitoring	Weather	Sea	Sampling	Water	Sampling Dep	th (m)	Current Speed	Current	Water Te	emperature (°C)		pН	Salin	nity (ppt)	DO S	aturation (%)	Dissol Oxyg		Turbidity	(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinat HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dep		(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.1	26	17.5	17.5	7.9	7.9	29.5	29.5	116.1	115.7	9.3		1.0		5			
					Cunado	1.0	0.1	32	17.5	17.0	7.9	1.0	29.5	20.0	115.3	110.7	9.3	9.1	1.1		5			
IM10	Fine	Calm	13:28	8.0	Middle	4.0	0.0	23	17.4	17.4	7.9	7.9	29.4	29.3	109.9	109.5	8.8		1.4	1.5	5	5	822236	809841
						4.0	0.0	19	17.4		7.9		29.3		109.1		8.8		1.5		5			
					Bottom	7.0	0.1	58 57	17.4 17.4	17.4	7.8 7.8	7.8	29.1 28.9	29.0	107.2	106.7	8.6 8.5	8.6	2.0 2.0		4			
						1.0	0.1	82	17.4		8.0		28.9		117.6		8.5 9.4		2.0		4			
					Surface	1.0	0.1	88	17.5	17.5	8.0	8.0	29.9	29.9	117.5	117.6	9.4		2.1	-	4			
						4.6	0.1	81	17.5		8.0		29.9		117.1		9.4	9.4	3.0		4	_		
IM11	Fine	Calm	13:40	9.2	Middle	4.6	0.1	84	17.5	17.5	8.0	8.0	29.9	29.9	117.0	117.1	9.4		2.9	2.8	5	5	821516	810543
					Dellara	8.2	0.1	69	17.5	47.5	8.0		29.9	00.0	116.9	440.0	0.2	9.3	3.4		5			
					Bottom	8.2	0.1	67	17.5	17.5	8.0	8.0	29.9	29.9	116.9	116.9	9.3	9.3	3.4		5			
					Surface	1.0	0.1	98	17.4	17.4	8.0	8.0	30.0	30.0	116.7	116.6	9.3		1.3		4			
					Sunace	1.0	0.1	100	17.4	17.4	8.0	0.0	30.0	30.0	116.5	110.0	9.3	9.3	1.3		4			
IM12	Fine	Calm	13:46	9.6	Middle	4.8	0.1	103	17.4	17.4	8.0	8.1	29.8	29.8	115.8	115.6	9.3	0.0	2.4	2.3	4	5	821147	811533
		ouin	10.10	0.0	madio	4.8	0.1	103	17.4		8.1	0.1	29.8	20.0	115.4		9.2		2.4	2.0	5	0	021111	011000
					Bottom	8.6	0.1	76	17.4	17.4	8.1	8.1	29.7	29.7	110.0	109.7	8.8	8.8	3.3		6			
						8.6	0.1	81	17.4		8.1		29.7	-	109.3		8.8		3.3		6			
					Surface	1.0	0.0	54	17.6	17.6	8.0	8.0	30.3	30.3	114.1	114.1	9.1		1.9	-	5			
						1.0 2.7	0.1	49 46	17.6		8.0		30.3		114.1		9.1	9.1	1.8	-	4			
SR1A	Fine	Calm	14:06	5.4	Middle	2.7	0.0	46 50	-	-	-	-	-	-	-		-		-	2.2	-	5	819980	812654
						4.4	0.0	56	17.6		8.0		30.3		114.0		0.1		2.5	-	5			
					Bottom	4.4	0.0	61	17.6	17.6	8.0	8.0	30.3	30.3	114.0	114.0	9.1	9.1	2.5		6			
						1.0	0.2	55	17.5		8.0		30.1		114.6		9.2		1.8		5			
					Surface	1.0	0.2	49	17.5	17.5	8.0	8.0	30.0	30.0	113.6	114.1	0.1	9.2	1.8		4			
SR2	Fine	Calm	14:19	5.0	Middle	-	0.1	39	-	_	-	_	-	_	-		-	9.2	-	2.0	-	5	821460	814185
3112	1 me	Calli	14.15	5.0	Wildule	-	0.1	43	-	-	-	-	-	-	-		-		-	2.0	-	5	021400	014103
					Bottom	4.0	0.1	42	17.5	17.5	8.1	8.1	29.9	29.9	106.5	106.0	8.5	8.5	2.3		6			
					Bottom	4.0	0.1	39	17.5	11.0	8.0	0.1	29.9	20.0	105.4		8.4	0.0	2.2		5			
					Surface	1.0	0.1	102	18.0	18.0	8.4	8.4	29.3	29.3	119.2	119.1	9.5		1.1		4			
						1.0	0.1	96	18.0		8.4	-	29.3		118.9		9.4	9.3	1.1		4			
SR3	Cloudy	Moderate	14:08	9.2	Middle	4.6	0.1	106	17.9	17.9	8.3 8.3	8.3	29.8	29.8	115.3	115.2	9.2		2.9	2.6	4	4	822126	807560
						4.6 8.2	0.1	104 104	17.9 17.9		8.3		29.8 29.8		115.0 110.1		9.1 8.7		3.1 3.5	-	5			
					Bottom	8.2	0.1	104	17.9	17.9	8.3	8.3	29.8	29.8	10.1	109.9	8.7	8.7	3.5		4 5			
						1.0	0.0	73	17.9		8.4		30.5		119.6		9.5		4.7		5			
					Surface	1.0	0.0	77	17.8	17.8	8.4	8.4	30.5	30.5	119.4	119.5	0.5		4.8		5			
	.					4.4	0.1	71	17.7		8.4		30.6		118.2		9.4	9.5	5.4		5	_		
SR4A	Cloudy	Moderate	15:31	8.8	Middle	4.4	0.0	74	17.7	17.7	8.4	8.4	30.6	30.6	118.1	118.2	9.4		5.5	5.4	5	5	817207	807833
					Dettern	7.8	0.0	70	17.7	17.7	8.4	8.4	30.6	20.0	111.9	111.7	8.9	0.0	5.9		6			
					Bottom	7.8	0.0	67	17.7	17.7	8.4	8.4	30.6	30.6	111.4	111.7	8.8	8.9	5.9	1	5			
					Surface	1.0	-	-	17.6	17.6	8.1	8.1	29.8	29.8	113.9	113.9	9.1		1.8		4			
					Sunace	1.0	-	-	17.5	17.0	8.1	0.1	29.7	23.0	113.8	113.9	9.1	9.1	1.9		3			
SR8	Fine	Calm	13:51	5.8	Middle	-	-	-	-	-	-		-		-		-	3.1	-	2.6	-	4	820371	811622
0.10		Cann		5.0		-	-	-	-		-		-		-		-		-		-		020071	0.1022
					Bottom	4.8	-	-	17.4	17.4	8.0	8.0	29.3	29.1	106.4	105.0	8.6	8.5	3.4		5			
						4.8	-	-	17.4		8.0		29.0	-	103.5		8.3		3.4		4			

DA: Depth-Averaged

Water Quality Monitoring Results on 09 February 23 during Mid-Flood Tide

Water Qual	ity Monit	oring Resu	its on		09 February 23	during Mid-	Flood I	de																
Monitoring	Weather	Sea	Sampling	Water	Sampling Dep	th (m)	Current Speed	Current	Water Te	emperature (°C)	-	рH	Salini	ity (ppt)		aturation (%)	Disso Oxyg		Turbidity	(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dep	ouri (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.4	39	17.5	17.5	8.2	8.2	30.6	30.6	117.4	117.3	9.3		5.5		4			
					Suilace	1.0	0.3	34	17.5	17.5	8.2	0.2	30.6	30.0	117.2	117.5	9.3	9.3	6.1		4			
C1	Cloudy	Moderate	09:28	8.8	Middle	4.4	0.3	30	17.5	17.5	8.2	8.2	30.6	30.6	115.5	115.4	9.2	9.3	10.8	8.6	4	5	815634	804269
CI	Cioudy	Moderate	09.20	0.0	WIGGIE	4.4	0.3	34	17.5	17.5	8.2	0.2	30.6	30.0	115.3	115.4	9.2	Ī	10.2	0.0	5	5	015054	004209
					Bottom	7.8	0.3	23	17.5	17.6	8.2	8.2	30.4	30.4	107.1	106.6	8.5	8.5	9.3		5			
					Bollom	7.8	0.3	18	17.6	17.0	8.2	8.2	30.4	30.4	106.1	106.6	8.4	8.5	9.7		5			
					Surface	1.0	0.3	341	17.9	17.9	8.3	8.3	29.0	29.0	123.2 123.2	123.2	9.8		1.0		4			
					Sullace	1.0	0.4	346	17.9	17.9	8.3	0.3	29.0	29.0		123.2	9.8	9.6	1.0		4			
C2	Cloudy	Moderate	10:50	11.2	Middle	5.6	0.4	351	17.8	17.8	8.3	8.3	29.2	29.2	118.3 118.1	118.2	9.4 9.4	3.0	1.2	5.0	4	5	825705	806955
02	Cloudy	Moderate	10.50	11.2	Widdle	5.6	0.4	353	17.8	17.0	8.3	0.5	29.2	23.2	118.1	110.2	9.4		1.2	5.0	5	5	023703	000333
					Bottom	10.2	0.3	331	17.8	17.8	8.3	8.3	29.2	29.2	116.9	116.7	9.3	9.3	12.1		5			
					Bottom	10.2	0.4	328	17.8	11.6	8.3	0.0	29.1	20.2	116.5	110.7	9.3	0.0	13.3		6			
					Surface	1.0	0.5	251	17.3	17.3	7.9	7.9	30.4	30.4	117.3	117.2	9.4		2.4		5			
					Cunado	1.0	0.5	245	17.3	11.0	7.9		30.5	00.1	117.0		9.4	9.3	2.5		4			
C3	Fine	Calm	10:01	10.0	Middle	5.0	0.5	254	17.2	17.2	7.9	7.9	30.5	30.5	115.5	115.4	9.2		3.1	3.4	4	4	822100	817810
						5.0	0.4	252	17.2		7.9		30.5		115.2		9.2		3.2		4			
					Bottom	9.0	0.5	283	17.2	17.2	7.9	7.9	30.4	30.3	112.4 112.1	112.3	9.0	9.0	4.6		4			
						9.0	0.5	286	17.2		7.9		30.3				9.0		4.6		4			
					Surface	1.0	0.2	13 19	17.6 17.6	17.6	8.3 8.3	8.3	30.4 30.4	30.4	113.9 113.7	113.8	9.1 9.0	-	11.8 11.1		4			
						3.1	0.2	24	17.6		8.3		30.4		110.7		9.0 8.8	8.9	10.9	-	<i>r</i>			
IM1	Cloudy	Moderate	09:49	6.2	Middle	3.1	0.2	19	17.6	17.6	8.3	8.3	30.4	30.4	110.7	110.6	0.0 8.8	ŀ	10.9	11.2	4	5	818349	806447
						5.2	0.2	19	17.6		8.3		30.4		109.1		8.7		12.0		7			
					Bottom	5.2	0.2	6	17.6	17.6	8.3	8.3	30.4	30.4	103.1	108.9	8.7	8.7	11.1		6			
						1.0	0.2	12	17.7		8.3		30.3		116.4		9.2		6.9		5			
					Surface	1.0	0.2	16	17.7	17.7	8.3	8.3	30.3	30.3	116.3	116.4	9.2		7.2		5			
	<u>.</u>					3.5	0.2	33	17.6	17.0	8.3		30.4		115.2		9.2	9.2	7.9		5			
IM2	Cloudy	Moderate	09:55	6.9	Middle	3.5	0.2	27	17.6	17.6	8.3	8.3	30.4	30.4	115.2	115.2	9.2		7.9	8.2	6	6	819195	806220
					Dettern	5.9	0.2	9	17.6	17.6	8.3	0.0	30.4	30.4	113.8	113.8	9.1	9.1	10.0		6			
					Bottom	5.9	0.2	8	17.6	17.6	8.3	8.3	30.4	30.4	113.7	113.8	9.0	9.1	9.5		7			
					Surface	1.0	0.2	4	17.9	17.9	8.3	8.3	28.8	28.8	121.8	121.7	9.7		0.2		4			
					Sunace	1.0	0.2	3	17.9	17.9	8.3	0.3	28.8	20.0	121.5	121.7	9.7	9.7	0.2		6			
IM7	Cloudy	Moderate	10:18	7.8	Middle	3.9	0.2	9	17.9	17.9	8.3	8.3	29.2	29.2	120.5 120.3	120.4	9.6	5.1	1.4	1.8	5	6	821341	806851
111/1	Cioudy	wouchate	10.10	7.0	WILCOLE	3.9	0.2	9	17.9	17.5	8.3	0.5	29.2	23.2	120.3	120.4	9.6		1.6	1.0	6	U	021341	000031
					Bottom	6.8	0.3	2	17.8	17.8	8.3	8.3	29.9	29.9	113.2	113.2	9.0	9.0	3.7		6			
					230011	6.8	0.3	357	17.8	.7.0	8.3	0.0	29.9	20.0	113.1		9.0	0.0	3.7		6			

DA: Depth-Averaged

Water Quality Monitoring Results on 09 February 23 during Mid-Flood Tide

Nater Qual	ity Monit	oring Resu	lts on		09 February 23	during Mid-	Flood Ti	de																
Monitoring	Weather	Sea	Sampling	Water	Complian Day	Alle ()	Current Speed	Current	Water Te	emperature (°C)	F	ъH	Salin	nity (ppt)		aturation (%)	Disso Oxyg		Turbidity	(NTU)	Suspender (mg/		Coordinate	Coordinate
Station	Condition	Condition	Time	Depth (m)	Sampling Dep	otn (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	HK Grid (Northing)	HK Grid (Easting)
					Surface	1.0	0.3	305	17.4	17.4	7.9	7.9	30.5	30.5	115.4	115.4	9.2		2.0		5			
					Sunace	1.0	0.3	299	17.4	17.4	7.9	7.9	30.5	30.5	115.4	113.4	9.2	9.2	2.0		5			
IM10	Fine	Calm	11:02	8.4	Middle	4.2	0.3	311	17.4	17.4	7.9	7.9	30.5	30.5	114.6	114.5	9.1	5.2	3.7	3.3	6	5	822226	809814
				••••		4.2	0.3	307	17.4		7.9		30.5		114.4		9.1		3.8	-	5	-		
					Bottom	7.4	0.3	275	17.4	17.4	7.9	7.9	30.5	30.5	108.6	108.4	8.7	8.7	4.2	-	6			
						7.4	0.4	267 287	17.4		7.9		30.5		108.2		8.6		4.3 2.9	──	5			
					Surface	1.0	0.3	287	17.4 17.4	17.4	7.9 7.9	7.9	30.5 30.5	30.5	113.8 113.6	113.7	9.1 9.1		2.9	-	4			
						3.7	0.3	294	17.4		7.9		30.5		112.8		9.1	9.1	3.8	-	4 4			
IM11	Fine	Calm	10:55	7.4	Middle	3.7	0.3	203	17.3	17.3	7.9	7.9	30.5	30.5	112.4	112.6	9.0		3.8	3.6	4	4	821523	810565
					_	6.4	0.3	300	17.3		7.9		30.5		106.6		8.5		4.1	1	4			
					Bottom	6.4	0.3	292	17.4	17.4	7.9	7.9	30.5	30.5	106.0	106.3	8.5	8.5	4.2		4			
					a /	1.0	0.4	293	17.3	17.0	8.0		30.4		113.0		9.0		1.0		7			
					Surface	1.0	0.4	288	17.3	17.3	8.0	8.0	30.4	30.4	112.9	113.0	9.0	8.9	1.1		6			
IM12	Fine	Calm	10:50	7.6	Middle	3.8	0.3	293	17.3	17.4	8.0	8.0	30.4	30.4	110.4	110.2	8.8	8.9	1.9	1.8	5	6	821181	811497
IIVITZ	Fille	Calm	10.50	7.0	Midule	3.8	0.3	297	17.4	17.4	8.0	0.0	30.4	30.4	109.9	110.2	8.8		1.8	1.0	6	0	021101	011497
					Bottom	6.6	0.3	268	17.4	17.4	8.0	8.0	30.3	30.3	106.5	105.7	8.5	8.5	2.4		4			
					Dottoin	6.6	0.4	263	17.4	17.4	8.0	0.0	30.3	50.5	104.8	103.7	8.4	0.5	2.5		5			
					Surface	1.0	0.0	175	17.7	17.8	7.9	7.9	30.3	30.3	107.7	107.5	8.5		1.6	_	4			
						1.0	0.0	175	17.8		7.9		30.3		107.2		8.5	8.5	1.6	-	3			
SR1A	Fine	Calm	10:29	4.6	Middle	2.3	0.0	178	-	-	-	-	-	-	-		-		-	1.6	-	5	819972	812656
						2.3	0.0	182	-		-		-		-		-		-	-	-			
					Bottom	3.6 3.6	0.0	184 177	17.9 18.0	18.0	7.9	7.9	30.2 30.0	30.1	100.8	100.8	8.0 8.0	8.0	1.6 1.6	-	6 5			
						1.0	0.0	247	17.4		7.9		30.0		100.7		8.7		2.0	<u> </u>	5			
					Surface	1.0	0.0	247	17.4	17.4	7.9	7.9	30.4	30.4	109.2	109.4	8.7		2.0	1	4			
						-	0.1	253	-		-				-		-	8.7	-	1	-			
SR2	Fine	Calm	10:18	4.2	Middle	-	0.1	260	-	-	-	-	-	-	-		-		-	2.0	-	5	821442	814174
					D. II.	3.2	0.1	278	17.5	47.5	7.9	7.0	30.3	00.7	106.0	404.0	8.5	0.4	2.1	1	5			
					Bottom	3.2	0.0	282	17.5	17.5	7.9	7.9	29.1	29.7	103.6	104.8	8.3	8.4	2.1		4			
					Surface	1.0	0.3	339	18.0	18.0	8.3	8.3	28.9	28.9	123.6	123.6	9.9		0.3		4			
					Sunace	1.0	0.3	343	18.0	18.0	8.3	0.5	28.9	20.9	123.5	123.0	9.8	9.8	0.3		5			
SR3	Cloudy	Moderate	10:25	9.2	Middle	4.6	0.3	332	17.9	17.9	8.3	8.3	29.1	29.1	122.5	122.5	9.8	0.0	0.8	0.7	4	5	822156	807570
	,					4.6	0.3	338	17.9		8.3		29.1		122.5		9.8		0.8	-	5	-		
					Bottom	8.2	0.3	324	17.8	17.8	8.3	8.3	29.3	29.3	117.1	117.0	9.3	9.3	1.1	-	5			
						8.2	0.3	327	17.8		8.3		29.3		116.9		9.3		1.1	<u> </u>	6			
					Surface	1.0	0.0	197 198	17.8 17.8	17.8	8.2 8.2	8.2	30.3 30.3	30.3	118.8 118.8	118.8	9.4 9.4		1.7 1.7	4	6			
						4.6	0.0	198	17.8		8.2		30.3			├───	9.4 9.4	9.4	1.7	-	5			
SR4A	Cloudy	Moderate	09:00	9.2	Middle	4.6	- 0.0	187	17.7	17.7	8.2	8.2	30.4	30.4	118.7 118.7	118.7	9.4 9.4		1.9	2.4	6	6	817196	807790
					_	8.2	0.1	210	17.6		8.2		30.4		115.4		9.4		3.6	1	5			
					Bottom	8.2	0.1	209	17.6	17.6	8.2	8.2	30.5	30.5	115.3	115.4	9.2	9.2	3.5	1	4			
					0(1.0	-	-	17.5	47.5	7.9	7.0	30.4	00.0	110.3	440.4	8.8		1.0	<u>†</u>	5			
			1		Surface	1.0	-	-	17.5	17.5	7.9	7.9	30.3	30.3	109.9	110.1	8.8		1.1	1	4			
600	Fine	Colm	10:46	E 0	Middle	-	-	-	-		-		-		-		-	8.8	-	1 1 6	-	4	920406	011607
SR8	Fine	Calm	10:46	5.8	Middle	-	-	-	-	-	-	-	-		-		-		-	1.6	-	4	820406	811637
					Bottom	4.8	-	-	17.7	17.7	7.9	7.9	30.0	29.9	104.5	102.6	8.3	8.2	2.3]	4			
					Dottom	4.8	-	-	17.7	17.7	7.9	1.3	29.8	20.0	100.7	102.0	8.0	0.2	2.2		4			

DA: Depth-Averaged

Water Quality Monitoring Water Quality Monitoring Results on

s on 11 February 23 during Mid-Ebb Tide

Water Qua	ity wonit	oring Resu	its on		11 February 23	during Mid-	EDD IIDE																	
Monitoring	Weather	Sea	Sampling	Water	Sampling Dep	th (m)	Current Speed	Current	Water Te	emperature (°C)		pН	Salir	nity (ppt)	DO S	Saturation (%)	Disso Oxyg		Turbidity	(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dep	om (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					0	1.0	0.2	209	17.7	47.7	7.9	7.0	31.9	04.0	114.3	444.0	9.0		4.3		2			
					Surface	1.0	0.2	204	17.7	17.7	7.9	7.9	31.9	31.9	114.1		9.0	8.9	4.4		2			
C1	Claudu	Moderate	16:06	0.0	Middle	4.3	0.2	218	17.6	17.6	7.9	7.9	32.0	32.0	112.6	112.5	8.9	8.9	4.8	6.6	3	3	815605	804248
CI	Cloudy	Moderate	16:06	8.6	IVIIdale	4.3	0.2	219	17.6	17.0	7.9	7.9	32.0	32.0	112.3	112.5	8.8	Ī	4.8	0.0	3	3	815005	804248
					Bottom	7.6	0.2	192	17.6	17.6	7.8	7.8	32.1	32.1	108.7 108.6	108.7	8.6	8.6	10.4		3			
					Bollom	7.6	0.2	195	17.6	17.0	7.8	7.0	32.1	32.1	108.6	100.7	8.6	0.0	10.7		4			
					Surface	1.0	0.1	168	18.4	18.4	7.8	7.8	29.0	29.0	113.6 113.6	113.6	9.0		1.7		3			
					Suilace	1.0	0.1	167	18.3	10.4	7.8	7.0	29.0	29.0	113.6	115.0	9.0	8.9	1.8		4			
C2	Cloudy	Rough	14:41	10.4	Middle	5.2	-	141	18.1	18.1	7.8	7.8	29.6	29.6	111.5		8.8	0.9	3.9	3.9	2	3	825660	806944
02	Cloudy	Rough	14.41	10.4	IVIIUUIE	5.2	0.0	141	18.1	10.1	7.8	7.0	29.7	29.0	111.3	111.4	8.8		4.0	5.5	2	5	023000	000944
					Bottom	9.4	0.0	139	18.1	18.1	7.7	7.7	30.0	30.0	109.0		8.6	8.6	5.8		<2			
					Dottom	9.4	0.0	131	18.1	10.1	7.7	1.1	29.9	50.0	108.8		8.6	0.0	5.9		<2			
					Surface	1.0	0.3	88	18.2	18.2	8.0	8.0	30.3	30.3	109.0 108.8	108.9	8.6		1.1		3			
					Guilace	1.0	0.4	85	18.2	10.2	8.0	0.0	30.3	50.5			8.6	8.5	1.1		2			
C3	Misty	Rough	15:54	11.0	Middle	5.5	0.3	78	18.1	18.1	8.0	7.9	30.4	30.4	107.9		8.5	0.0	1.2	1.5	3	3	822109	817819
00	whoty	rtough	10.04	11.0	Middle	5.5	0.3	83	18.1	10.1	7.9	1.5	30.4	00.4	103.7		8.2		1.3	1.0	3	0	022100	011010
					Bottom	10.0	0.3	103	18.1	18.1	7.9	7.9	30.4	30.4	102.4	102.0	8.1	8.1	2.0		5			
					Bottom	10.0	0.3	103	18.1	10.1	7.9	1.0	30.4	00.4			8.0	0.1	2.1		4			
					Surface	1.0	0.1	188	18.0	18.0	7.9 7.9	7.9	31.1	31.1	114.8 114.7	114.8	9.0		6.3		7			
					Guildoo	1.0	0.1	184	17.9	10.0	7.9	7.0	31.1	01.1			9.0	9.0	6.6		6			
IM1	Cloudy	Moderate	15:44	6.5	Middle	3.3	0.1	191	17.8	17.8	7.9	7.9	31.3	31.3	114.0		9.0	0.0	6.9	7.6	6	6	818371	806446
	,					3.3	0.1	197	17.8		7.9		31.3		113.9		9.0		7.0		5	-		
					Bottom	5.5	0.1	154	17.7	17.7	7.8	7.8	31.3	31.3	109.2	109.0	8.6	8.6	9.4		5			
						5.5	0.1	153	17.7		7.8	-	31.3				8.6		9.4		4			
					Surface	1.0	0.0	157	18.0	18.0	7.9	7.9	30.9	30.9	116.7	116.7	9.2	_	6.4		6			
						1.0	0.0	161	18.0		7.9		30.9		116.7		9.2	9.2	6.2		5			
IM2	Cloudy	Moderate	15:39	6.8	Middle	3.4	0.1	155	17.9	17.9	7.9	7.9	31.1	31.2	116.1		9.1	-	6.0	6.1	5	5	819187	806249
	-					3.4	0.1	150	17.9		7.9		31.2		116.0		9.1		6.1		5			
					Bottom	5.8	0.1	173	17.7	17.8	7.9	7.9	31.3	31.3	114.5		9.0	9.0	6.1		5			
						5.8	0.2	176	17.8		7.9		31.3		114.5		9.0		6.1		4			
					Surface	1.0	0.1	116	18.4	18.4	7.9	7.9	29.2	29.2	113.4 113.3	113.4	9.0	ŀ	2.2	-	2			
						1.0	0.1	121	18.4		7.9		29.2				8.9	8.8	2.2	-	2			
IM7	Cloudy	Rough	15:20	8.0	Middle	4.0	0.1	91	18.1	18.1	7.8	7.8	30.2	30.2	109.9		8.7	ŀ	2.4	2.4	3	3	821355	806825
		-				4.0	0.1	85	18.1		7.8		30.2	<u> </u>	109.6		8.6		2.4	-	3			
					Bottom	7.0	0.1	97	18.1	18.1	7.8	7.8	30.2	30.2	107.8		8.5	8.5	2.4	-	3			
						7.0	0.2	103	18.1		7.8		30.2		107.7		8.5		2.4	1	3			

DA: Depth-Averaged

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

Water Quality Monitoring

Water Quality Monitoring Results on 11 February 23 during Mid-Ebb Tide

Water Qua	lity Monit	oring Resu	lts on		11 February 23	during Mid-	Ebb Tide	9															
Monitoring	Weather	Sea	Sampling	Water	Sampling Dep	nth (m)	Current Speed	Current	Water Te	emperature (°C)	рН	Sali	nity (ppt)		Saturation (%)	Disso Oxyg		Turbidity	/(NTU)	Suspender (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Camping Dop	, (iii)	(m/s)	Direction	Value	Average	Value Average	e Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.1	74	18.7	18.7	8.0 8.0	29.2	29.2	109.6		8.6		1.0		4			
					Gunade	1.0	0.1	73	18.7	10.7	8.0	29.2	20.2	109.4		8.6	8.6	1.1		5			
IM10	Misty	Rough	14:42	8.6	Middle	4.3	0.1	61	18.7	18.7	8.0 8.0	29.2	29.1	108.8		8.5	0.0	1.7	1.5	4	4	822216	809854
						4.3	0.2	62	18.7	-	8.0	29.1	_	108.5		8.5		1.6	_	2			
					Bottom	7.6	0.1	54	18.8	18.8	8.0 8.0	29.1	29.1	108.1		8.5	8.5	1.8		3			
						7.6	0.1	54	18.8		8.0	29.0		107.9		8.5		1.8		3			
					Surface	1.0 1.0	0.2	67 72	18.5 18.5	18.5	8.0 8.0	29.4 29.4	29.4	109.8		8.6		1.0	-	3			
						4.5	0.2	94	18.5		8.0	29.4		109.8		8.6 8.3	8.5	1.1	-	3			
IM11	Misty	Rough	14:53	9.0	Middle	4.5	0.2	94 88	18.5	18.5	8.0 8.0	29.4	29.4	105.4	105.3	8.3		1.2 1.2	1.2	3	3	821520	810525
						8.0	0.2	70	18.5		7.0	29.4		103.1		8.1		1.2	-	3			
					Bottom	8.0	0.2	70	18.5	18.5	7.9 7.9	29.4	29.4	103.2		8.1	8.1	1.2	-	4			
						1.0	0.2	85	18.5		80	29.4		102.4		8.6		1.0		3			
					Surface	1.0	0.1	82	18.5	18.5	8.0 8.0	29.4	29.4	109.7	109.8	8.6		1.0	-	4			
						4.7	0.1	96	18.5		80	29.3		105.1		8.3	8.4	1.1	-	3			
IM12	Misty	Rough	15:01	9.4	Middle	4.7	0.2	101	18.5	18.5	8.0 8.0	29.3	29.3	104.6	104.9	8.2		1.3	1.5	4	4	821168	811532
						8.4	0.2	69	18.5		7.0	29.3		104.0		8.1		2.3	-	4			
					Bottom	8.4	0.2	71	18.5	18.5	7.9 7.9	29.3	29.3	101.6		8.0	8.1	2.2	-	5			
						1.0	-	101	18.8		8.0	29.5		106.2		8.3		1.3		4			
					Surface	1.0	0.0	94	18.8	18.8	8.0 8.0	29.5	29.5	106.1	106.2	8.3		1.4		2			
						2.4	0.1	81	-		-	-		-		-	8.3	-	1	-	_		
SR1A	Misty	Rough	15:21	4.8	Middle	2.4	-	83	-	-		-	-	-		-		-	1.4	-	3	819973	812660
					Datter	3.8	0.0	124	18.8	40.0	8.0	29.5	00.5	105.7	405.0	8.3		1.5		<2			
					Bottom	3.8	0.0	119	18.8	18.8	8.0 8.0	29.5	29.5	105.5	105.6	8.2	8.3	1.5		<2			
					Surface	1.0	0.1	58	18.7	18.7	8.0 8.0	29.5	29.5	109.7	109.5	8.6		1.1		2			
					Suilace	1.0	0.1	50	18.7	10.7	8.0	29.5	29.5	109.3	109.5	8.6	8.6	1.2		2			
SR2	Misty	Rough	15:34	5.8	Middle	-	0.1	61	-	-	-	-		-	1 _	-	0.0	•	1.4	-	3	821468	814165
0112	wildty	Rough	13.54	5.0	Wilddie	-	0.1	62	-	-	-	-		-		-		-	1.4	-	5	021400	014105
					Bottom	4.8	0.2	44	18.7	18.7	8.0 8.0	29.5	29.5	103.2		8.1	8.1	1.8		3			
					Bottom	4.8	0.2	41	18.7	10.1	8.0	29.5	20.0	102.3	102.0	8.0	0.1	1.7		3			
					Surface	1.0	0.1	109	18.3	18.3	7.9 7.9	29.1	29.1	113.8		9.0		2.3		3			
					oundoo	1.0	0.1	110	18.3	1010	7.9	29.1	2011	113.7		9.0	8.9	2.3		4			
SR3	Cloudy	Rough	15:13	8.6	Middle	4.3	0.1	105	18.2	18.2	7.9 7.9	29.8	29.8	111.0	110.9	8.8		3.8	3.4	3	3	822148	807581
	,	g.				4.3	0.1	103	18.2		7.9	29.9		110.7		8.7		3.8		3	-		
					Bottom	7.6	0.0	102	18.2	18.2	7.8 7.8	29.9	29.9	108.7	108.7	8.6	8.6	4.1	_	2			
				-		7.6	0.1	97	18.2	-	7.8	29.9		108.6		8.6		4.0		3			
					Surface	1.0	0.0	37	18.2	18.2	7.9 7.9	30.6	30.6	119.0	118.9	9.3		4.2		5			
						1.0	0.0	34	18.2		7.9	30.7		118.7		9.3	9.2	4.3		5			
SR4A	Cloudy	Moderate	16:34	8.8	Middle	4.4	0.0	29	18.1	18.1	7.9 7.9	30.7	30.7	116.3		9.2		4.9	4.8	4	4	817184	807800
						4.4 7.8	0.0	35	18.1		7.9	30.7		116.2		9.1		4.9	-	4			
					Bottom	7.8	0.0	23 24	18.1 18.1	18.1	7.9 7.9	30.7 30.7	30.7	115.2		9.1 9.0	9.1	5.1 5.2	-	3			
	1					1.0					0.0												
			1		Surface	1.0	-	-	18.7 18.6	18.7	8.0 8.0	29.3 29.3		104.8		8.2 8.2		1.1 1.2	4	4 3			
						-	-		-		0.0	23.3	+	-		-	8.2	-	1	-			
SR8	Misty	Rough	15:06	4.4	Middle	-	-	-	-	-		<u> </u>		-	+ -			-	1.9	-	4	820378	811634
						3.4	-		18.5		7.9 7.0	29.4		101.9	1	8.0		2.7	1	4			
					Bottom	3.4	-		18.6	18.6	7.9 7.9	29.4	29.3	101.9	101.4	7.9	8.0	2.6	1	4			
				1		5.7	-	-	10.0		1.3	20.2		100.3	ŧ.	1.3		2.0		-			

Water Quality Monitoring

Water Quality Monitoring Results on 11 February 23 during Mid-Flood Tide

Water Qual	ity Monit	oring Resu	its on		11 February 23	during Mid-	F1000 11	ae																
Monitoring	Weather	Sea	Sampling	Water	Sampling Dep	th (m)	Current Speed	Current	Water Te	emperature (°C)		pН	Salir	nity (ppt)		Saturation (%)	Disso Oxy		Turbidity	(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dep	ur (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					0	1.0	0.2	33	17.8	47.0	8.0		30.7	00.7	115.4	445.0	9.1		7.3		8			
					Surface	1.0	0.2	38	17.8	17.8	8.0	8.0	30.7	30.7	115.2	115.3	9.1		8.0		7			
04	Olauta	Madamata	00.40		NAL-JUL	4.4	0.3	27	17.7	17.7	8.0		30.8	00.0	113.2	440.4	9.0	9.0	8.8	0.5	7		045040	004050
C1	Cloudy	Moderate	09:49	8.8	Middle	4.4	0.3	33	17.7	17.7	8.0	8.0	30.8	30.8	113.0	113.1	8.9		8.3	8.5	6	6	815619	804259
					Detter	7.8	0.2	17	17.8	47.0	8.1		30.8	00.7	111.1	444.0	8.8		9.7		5			
					Bottom	7.8	0.3	19	17.8	17.8	8.1	8.1	30.7	30.7	110.8	111.0	8.8	8.8	9.2		4			
					Curtons	1.0	0.4	344	18.1	18.1	8.0	8.0	28.5	28.5	113.3	113.3	9.0		1.5		3			
					Surface	1.0	0.4	350	18.1	18.1	8.0 8.0	8.0	28.5	28.5	113.3 113.2	113.3	9.0	9.0	1.6		3			
C2	Cloudy	Rough	11:09	10.7	Middle	5.4	0.4	331	18.1	18.1	7.9	7.9	28.6	28.6	111.4	111.3	8.9	9.0	2.5	2.6	2	3	825670	806958
02	Cidudy	Rough	11.05	10.7	Middle	5.4	0.4	334	18.1	10.1	7.9	7.5	28.6	20.0	111.2	111.5	8.9		2.6	2.0	3	5	023070	000930
					Bottom	9.7	0.3	4	18.1	18.1	7.9	7.9	28.7	28.7	109.5	109.5	8.7	8.7	3.6		<2			
					Bottom	9.7	0.3	6	18.1	10.1	7.9	1.0	28.7	20.1	109.4	100.0	8.7	0.7	4.0		<2			
					Surface	1.0	0.5	251	18.0	18.0	8.1	8.1	30.4	30.4	105.4	105.1	8.3		1.5		3			
						1.0	0.4	249	18.0		8.1		30.4		104.7		8.3	8.2	1.4		2			
C3	Misty	Moderate	10:57	10.4	Middle	5.2	0.5	244	18.0	18.0	8.1	8.1	30.4	30.4	103.9	103.5	8.2		1.8	1.8	2	3	822129	817789
	,					5.2	0.6	248	18.0		8.1		30.4		103.0		8.1		1.9		3			
					Bottom	9.4	0.4	241	18.0	18.0	8.1 8.1	8.1	30.4 30.4	30.4	101.6	101.2	8.0	8.0	2.1		3			
						9.4	0.5	237	18.0								8.0		2.2		3			
					Surface	1.0	0.2	1 359	17.9 17.9	17.9	8.0 8.0	8.0	30.4 30.4	30.4	111.2 111.0	111.1	8.8 8.8		3.1 3.1		4			
						3.3	0.1	21	17.8		8.0		30.4		109.5		8.7	8.8	12.7		3			
IM1	Cloudy	Moderate	10:10	6.5	Middle	3.3	0.2	23	17.8	17.8	8.0	8.0	30.5	30.5	109.2	109.4	8.7		12.7	9.4	4	4	818352	806464
					_	5.5	0.2	30	17.8		8.0		30.5		107.1		8.5		12.9		3			
					Bottom	5.5	0.1	25	17.8	17.8	8.0	8.0	30.5	30.5	106.9	107.0	8.5	8.5	12.8		3			
					0	1.0	0.1	330	17.9	47.0	8.0		30.2	00.0	112.2	440.4	8.9		7.1		2			
					Surface	1.0	0.1	334	17.9	17.9	8.0	8.0	30.2	30.2	112.0	112.1	8.9	8.8	7.3		4			
IM2	Cloudy	Moderate	10:14	6.7	Middle	3.4	0.1	326	17.8	17.8	8.0	8.0	30.3	30.3	110.5	110.5	8.8	0.0	10.7	9.6	4	4	819168	806236
IIVIZ	Cloudy	mouerate	10:14	0.7	iviidale	3.4	0.2	333	17.8	17.8	8.0	6.0	30.4	30.3	110.4	110.5	8.7		11.0	9.6	3	4	019100	000230
					Bottom	5.7	0.1	0	17.8	17.8	8.0	8.0	30.4	30.3	109.6	109.5	8.7	8.7	10.7		4			
					Bollom	5.7	0.1	2	17.8	17.0	8.0	0.0	30.3	30.3	109.4	109.5	8.7	0.7	11.0		4			
					Surface	1.0	0.1	322	18.1	18.1	8.0	8.0	29.0	29.0	111.4	111.4	8.9		1.7		<2			
					Guillago	1.0	0.1	328	18.1		8.0	0.0	29.0	20.0	111.3		8.8	8.8	1.7		<2			
IM7	Cloudy	Rough	10:34	7.5	Middle	3.8	0.2	320	18.0	18.0	8.0	8.0	29.1	29.1	110.5	110.5	8.8		2.0	2.1	2	2	821364	806854
	,					3.8	0.1	312	18.0		8.0		29.2		110.4		8.8		2.0		2	-		
					Bottom	6.5	0.2	316	18.0	18.0	7.9	7.9	29.3	29.2	108.2	108.2	8.6	8.6	2.6		3			
						6.5	0.1	313	18.0		7.9		29.2		108.2		8.6		2.6		2			

DA: Depth-Averaged

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

Water Quality Monitoring

Water Quality Monitoring Results on 11 February 23 during Mid-Flood Tide

Matrix Control Tras Daple (m) Surgic Depth (m) Dial Dial <thdia< th=""> Dial Dial <thdi< th=""><th>· Quality Mo</th><th>/lonite</th><th>oring Resu</th><th>lts on</th><th></th><th>11 February 23</th><th>during Mid-</th><th>Flood Ti</th><th>de</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></thdi<></thdia<>	· Quality Mo	/lonite	oring Resu	lts on		11 February 23	during Mid-	Flood Ti	de																
Sindial Candien Candien Tare Depth (m) Link (m) <thlink (m)<="" th=""> <thlink (m)<="" th=""> <thlin< th=""><th>oring</th><th>ather</th><th>Sea</th><th>Sampling</th><th>Water</th><th>Sampling Dop</th><th>th (m)</th><th></th><th></th><th>Water Te</th><th>emperature (°C)</th><th>I</th><th>pН</th><th>Salir</th><th>nity (ppt)</th><th></th><th></th><th></th><th></th><th>Turbidity</th><th>/(NTU)</th><th></th><th></th><th>Coordinate</th><th>Coordinate HK Grid</th></thlin<></thlink></thlink>	oring	ather	Sea	Sampling	Water	Sampling Dop	th (m)			Water Te	emperature (°C)	I	pН	Salir	nity (ppt)					Turbidity	/(NTU)			Coordinate	Coordinate HK Grid
Mer Rugh	Cond	ndition	Condition	Time	Depth (m)	Sampling Dep	un (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
Intro May Rough 10 10 0.0 20 100 <td></td> <td></td> <td></td> <td></td> <td></td> <td>Surface</td> <td></td> <td></td> <td></td> <td></td> <td>18 7</td> <td></td> <td>8.0</td> <td></td> <td>29.3</td> <td></td> <td>108.9</td> <td>8.6</td> <td></td> <td>1.0</td> <td></td> <td>3</td> <td></td> <td></td> <td></td>						Surface					18 7		8.0		29.3		108.9	8.6		1.0		3			
Mete Roup Roup <th< td=""><td></td><td></td><td></td><td></td><td></td><td>Cunade</td><td></td><td>0.2</td><td>292</td><td>18.6</td><td>10.7</td><td>8.0</td><td>0.0</td><td></td><td>20.0</td><td>108.8</td><td>100.0</td><td></td><td>85</td><td>1.1</td><td></td><td>3</td><td></td><td></td><td></td></th<>						Cunade		0.2	292	18.6	10.7	8.0	0.0		20.0	108.8	100.0		85	1.1		3			
Image: border	10 Mis	istv	Rough	12:08	8.6	Middle					18.6	8.0	7.9	29.4	29.4		107.8	8.5	0.0		1.1		3	822258	809830
1 1																							-		
Image: book of the state of the st						Bottom					18.5	7.9	7.9	29.5	29.5	102.3	101.8	8.0	8.0			-			
Meth App App <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td>													-			-						-			
Image with the sector of the sector						Surface					18.5		8.0		29.4		109.4								
Minim Minim																			8.6		_				
Image: border borde	11 Mis	isty	Rough	11:54	7.2	Middle					18.5		7.9		29.4		108.1				2.4		4	821504	810562
Image: bolic		-	÷																		_				
Misty Ready Image Image <th< td=""><td></td><td></td><td></td><td></td><td></td><td>Bottom</td><td></td><td></td><td></td><td></td><td>18.5</td><td></td><td>7.9</td><td></td><td>29.3</td><td></td><td>101.9</td><td></td><td>8.1</td><td></td><td>-</td><td></td><td></td><td></td><td></td></th<>						Bottom					18.5		7.9		29.3		101.9		8.1		-				
Image: boom of the state index																									
Image Rough 11.40 7.2 Medde 3.6 0.4 2.00 18.5 18.6 18.6 18.6 18.6 18.6 18.6 18.6 18.6 18.6 18.6 18.6 18.6 18.6 18.7 19.7 20.7 <t< td=""><td></td><td></td><td></td><td></td><td></td><td>Surface</td><td></td><td></td><td></td><td></td><td>18.5</td><td></td><td>8.0</td><td></td><td>29.3</td><td></td><td>110.3</td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td></t<>						Surface					18.5		8.0		29.3		110.3				-				
MB12 MB34 FOOM 11.90 7.2 MB00 3.6 0.3 200 18.5 18.5 7.9 7.9 28.4 7.90 10.0 8.6 7.9 7.9 28.4 7.90 7.9 7.9 7.9 <													-						8.7		-				
Image: bolic	12 Mis	isty	Rough	11:49	7.2	Middle					18.5		8.0		29.3		109.5				2.2		4	821148	811526
Image: bord bord bord bord bord bord bord bord		-											-						-		-	-			
SR1A Misty Moderate 11.27 A.8 Surface 1.0 0.0 194 18.7 7.9 7.9 25.5 10.6 10.6 10.6 2.5 10.6 10.6 10.6 10.6 10.6 10.6 10.7 <						Bottom					18.5		7.9		29.4		107.5	8.5	8.5		-				
SR1A Midely A.6 Sufface 1.0 0.0 1.0 7.9 7.9 2.6 2.8 1.0 1.0 7.9 7.9 2.5 2.5 1.0 1.0 2.1 1.0 2.1 2.1 1.0 2.1 <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>_</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>																		_							
SR1A Msdef 11:27 4.8 Mddef 2.4 0.0 207 1.7 <						Surface					18.7		7.9		29.5		105.2				-				
Nice Model 11:2/ 4.8 Mobile 2.4 0.0 2.00 - - - - <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>8.3</td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td>																			8.3		-				
Image: brance Image: brance <td>1A Mis</td> <td>isty</td> <td>Moderate</td> <td>11:27</td> <td>4.8</td> <td>Middle</td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td>-</td> <td>-</td> <td>-</td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td>2.0</td> <td></td> <td>4</td> <td>819974</td> <td>812656</td>	1A Mis	isty	Moderate	11:27	4.8	Middle					-		-	-	-		-				2.0		4	819974	812656
Image: border										_				- 20 5							-				
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$						Bottom					18.6		7.9		29.5		99.9		7.9		-				
SR2 Misty Moderate 11:16 4.2 Middle 10 0.1 265 18.5 7.9																									
SR2 Misy Moderate 11:16 4.2 Middle · 0.1 273 · <th< td=""><td></td><td></td><td></td><td></td><td></td><td>Surface</td><td></td><td></td><td></td><td></td><td>18.5</td><td>7.9</td><td>7.9</td><td></td><td>29.4</td><td></td><td>102.4</td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td></th<>						Surface					18.5	7.9	7.9		29.4		102.4				-				
SK2 Misty Moderate 11:16 4.2 Middle · 0.1 271 · · ·																			8.1		-				
Image: bolic biase in the state in therest in therest in therest in the state in the state in the state	R2 Mist	isty	Moderate	11:16	4.2	Middle		-			-		-	-	-		-				1.8		4	821457	814149
SR3 Cloudy Moderate 09:22 8.6 10:42 10:42 10:42 10:42 10:42 10:43 316 18:5 7.9 7.9 7.9 29.3 29.4 98.2 98.7 7.8 2.1 4 4 4 4 4 18:5 7.9 7.9 7.9 7.9 7.8 2.1 1 4 4 4 4 18:5 7.9 7.9 7.9 29.1 111.1 111.0 8.8 8.8 2.9 111.1 111.0 111.0 8.8 8.8 2.9 111.1 111.0 <						_	3.2							29.4				7.8				4			
SR3 Low from from from from from from from from						Bottom					18.5		7.9		29.4		98.9		7.8			-			
SR3 Cloudy Rough 10:42 8.5 Sundae 1.0 0.3 318 18.1 16.1 8.0 6.0 20.0 20.3 10.9 11.0 8.8 8.7 2.9 10.9 11.0 8.8 8.7 5.6																						3			
SR3 Cloudy Rough 10:42 8.5 Middle 4.3 0.3 323 18.1 18.1 7.9 7.9 29.1 29.1 109.3 109.3 8.7 6.6 5.3 5.6 5.3 5.6 5.3 5.6 5.3 5.6 5.7 5.6 5.7 5.6 5.7 5.						Surface					18.1		8.0		28.9		111.0								
SR3 Coudy Rough 10:2 8.5 Model 4.3 0.3 315 18.1 18.1 7.9 29.1 29.1 29.1 109.2 109.3 8.7 5.6			. .	10.10									= 0				100.0		8.8						007550
Image: border	R3 Clou	budy	Rough	10:42	8.5	Middle		0.3		18.1	18.1		7.9		29.1		109.3				5.1		3	822138	807559
SR4 Moderate Moderate Surface 1.0 0.0 197 18.1 18.1 7.9 7.9 29.1 29.1 107.9 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td>Deller</td> <td></td> <td>0.2</td> <td>308</td> <td>18.1</td> <td>10.4</td> <td>7.9</td> <td>7.0</td> <td></td> <td>00.4</td> <td>107.9</td> <td>407.0</td> <td>8.6</td> <td></td> <td>6.9</td> <td></td> <td>2</td> <td></td> <td></td> <td></td>						Deller		0.2	308	18.1	10.4	7.9	7.0		00.4	107.9	407.0	8.6		6.9		2			
$ SR4A \ Moderate \ No derate						Bottom	7.5	0.2	302	18.1	18.1	7.9	7.9		29.1	107.9	107.9		8.6	7.0		3			
$ SR4A \ Moderate \ No derate						Surface	1.0	0.0	197		10.1	8.0	0.0	30.4	20.4	108.3	109.2	8.5		4.8		6			
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$						Sunace	1.0	0.0	197		18.1	8.0	8.0	30.4	30.4	108.2	108.3	8.5	95		1	6			
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	4.4. Close	audu	Modorato	00.22	0 0	Middlo					10.1		8.0		20.4		107 4		0.0		4.2	6	6	917200	807805
SR8 Misty Moderate 11:44 5.0 Bottom 7.8 0.1 180 18.1 18.1 8.0 30.4 107.1 107.1 107.1 8.4 3.9 7 SR8 Misty Moderate 11:44 5.0 Surface 1.0 - - 18.5 18.5 7.9 7.9 29.4 29.4 107.1 107.3 8.4 8.4 3.9 7		Judy	wouerate	09.22	0.0	IVIIGUIE				18.1	10.1	8.0	0.0	30.4	30.4	107.3	107.4	8.5		3.9	4.2	6	0	017200	007000
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $						Bottom		0.0	187	18.1	18.1		8.0		30.4		107 1		84			7			
$\begin{array}{c c c c c c c c c c c c c c c c c c c $						Dollom		0.1	180	18.1	10.1	8.0	0.0	30.4	50.4	107.1	107.1	8.4	0.7	3.9		7			
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		T				Surface		-	-		18.5		79		29.4		105.3	8.4							
SR8 Misty Moderate 11:44 5.0 Middle - <td></td> <td></td> <td></td> <td></td> <td></td> <td>Ounade</td> <td>1.0</td> <td>-</td> <td>-</td> <td>18.5</td> <td>10.5</td> <td>7.9</td> <td>1.5</td> <td>29.4</td> <td>23.4</td> <td>103.5</td> <td>100.0</td> <td>8.2</td> <td>83</td> <td>1.2</td> <td></td> <td>3</td> <td></td> <td></td> <td></td>						Ounade	1.0	-	-	18.5	10.5	7.9	1.5	29.4	23.4	103.5	100.0	8.2	83	1.2		3			
	8 Mie	istv	Moderate	11.44	5.0	Middle	-	-	-		-	-	-	-		-	L	-	0.0		14	-	2	820400	811604
		,	measure		0.0							-		-				-			1.4		- ⁻	020100	0.1004
						Bottom			-	18.5	18.5	7.9	7.9	29.4	29.4		101.0	8.0	8.0		1	2			
Autom Autom							4.0	-	-	18.5		7.9		29.4		100.6		7.9		1.7		2			

DA: Depth-Averaged

Water Quality Monitoring Results on 14 February 23 during Mid-Ebb Tide

Water Qual	ity Monit	oring Resu	Its on		14 February 23	during Mid-	Ebb lide	<u>} </u>																
Monitoring	Weather	Sea	Sampling	Water	Sampling De	oth (m)	Current Speed	Current	Water Te	emperature (°C)	F	pН	Salini	ity (ppt)		aturation (%)	Disso Oxyo		Turbidity	/(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling De	pui (iii)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.0	135	18.9	18.9	8.1	8.1	29.4	29.4	102.2	102.2	8.0		4.4		3			
					Sunace	1.0	0.0	131	18.9	10.9	8.1	0.1	29.4	29.4	102.1	102.2	8.0	8.0	4.5		4			
C1	Fine	Rough	05:05	7.3	Middle	3.7	0.0	150	18.9	18.9	8.1	8.1	29.5	29.5	101.7	101.7	7.9	0.0	5.6	5.9	2	3	815638	804241
01	1 1110	Rough	00.00	7.5	Wilddie	3.7	0.0	151	18.9	10.5	8.1	0.1	29.5	23.5	101.7	101.7	7.9		5.6	5.5	2	5	013030	004241
					Bottom	6.3	0.0	133	18.9	18.9	8.1	8.1	29.6	29.6	100.6 100.6	100.6	7.8	7.8	7.8		2			
					Dottom	6.3	0.0	139	18.9	10.5	8.1	0.1	29.6	23.0		100.0	7.8	7.0	7.9		3			
					Surface	1.0	0.2	164	19.2	19.2	8.2 8.2	8.2	28.6 28.6	28.6	105.3 105.3	105.3	8.2		2.2		<2			
					Guildoe	1.0	0.3	159	19.2	10.2		0.2	28.6	20.0	105.3	100.0	8.2	8.2	2.2		<2			
C2	Fine	Rough	06:33	8.2	Middle	4.1	0.2	158	19.1	19.1	8.2	8.2	28.9	28.9	104.3	104.3	8.1	0.2	3.3	3.1	3	4	825701	806926
02	1 110	Rough	00.00	0.2	Middle	4.1	0.2	154	19.1	10.1	8.2	0.2	28.9	20.0	104.3	104.0	8.1		3.3	0.1	3	-	020701	000020
					Bottom	7.2	0.2	201	19.0	19.0	8.2	8.2	29.4	29.4	101.8 101.8	101.8	7.9	7.9	3.9		6			
					Bottom	7.2	0.2	203	19.0	10.0	8.2	0.2	29.4	20.4		101.0	7.9	7.0	3.9		6			
					Surface	1.0	0.1	283	18.6	18.6	8.0	8.0	30.2	30.2	101.5	101.5	7.9		2.5		4			
					Guildoe	1.0	0.1	287	18.6	10.0	8.0	0.0	30.2	00.2	101.4	101.0	7.9	7.9	2.5		5			
C3	Fine	Rough	04:50	9.4	Middle	4.7	0.1	278	18.6	18.6	8.0	8.0	30.3	30.3	100.6 100.5	100.6	7.9	7.0	3.4	4.0	5	5	822102	817812
00	1 1110	Rough	04.00	0.4	Middle	4.7	0.1	284	18.6	10.0	8.0	0.0	30.3	00.0		100.0	7.8		3.4	4.0	6	0	022102	017012
					Bottom	8.4	0.1	295	18.4	18.4	7.9 7.9	7.9	30.8	30.8	99.1	99.1	7.7	7.7	6.1		4			
					Bottom	8.4	0.2	287	18.4	10.4		1.5	30.8	00.0	99.0	00.1	7.7	7.1	6.2		4			
					Surface	1.0	0.1	194	19.2	19.2	8.2 8.2	8.2	28.7	28.7	104.3 104.3	104.3	8.1		2.1		6			
					Guildoe	1.0	0.1	193	19.2	10.2		0.2	28.7	20.7		104.0	8.1	8.1	2.2		7			
IM1	Fine	Moderate	05:30	6.8	Middle	3.4	0.0	204	19.3	19.3	8.2 8.2	8.2	28.8	28.8	102.5 102.5	102.5	8.0	0	3.4	2.8	6	6	818338	806465
						3.4	0.0	200	19.3				28.8				8.0		3.4		4	-		
					Bottom	5.8	0.1	190	19.0	19.0	8.1	8.1	29.6	29.6	100.4	100.4	7.8	7.8	2.8		6			
						5.8	0.1	190	19.0		8.1	••••	29.6		100.4		7.8		2.9		4			
					Surface	1.0	0.0	196	19.4	19.4	8.2	8.2	27.8	27.8	105.0 105.0	105.0	8.2	_	3.3		4			
						1.0	0.0	197	19.4	-	8.2		27.8				8.2	8.2	3.3	_	2			
IM2	Fine	Moderate	05:37	7.2	Middle	3.6	0.1	181	19.4	19.4	8.2	8.2	27.9	27.9	104.8	104.8	8.2		4.3	4.7	5	4	819201	806231
						3.6	0.1	174	19.4	-	8.2	-	27.9	-	104.8		8.2		4.4		4			
					Bottom	6.2	0.1	178	19.4	19.4	8.1	8.1	28.9	28.9	99.6	99.6	7.7	7.7	6.5		5			
						6.2	0.1	174	19.4	-	8.1	-	29.0		99.6		7.7		6.5		4			
					Surface	1.0	0.1	173	19.1	19.1	8.2	8.2	28.9	28.9	103.0 103.0	103.0	8.0	-	4.2	4	4			
						1.0	0.1	166	19.1		8.2		28.9				8.0	7.9	4.2	4	3			
IM7	Fine	Rough	05:58	6.9	Middle	3.5	0.1	198	18.9	18.9	8.1	8.1	29.7	29.7	100.3 100.2	100.3	7.8	-	5.6	5.8	3	5	821363	806848
		0				3.5	0.1	200	18.9		8.1		29.7				7.8		5.7	4	4			-
					Bottom	5.9	0.1	164	18.9	18.9	8.1	8.1	29.7	29.7	100.1	100.1	7.8	7.8	7.5	4	8			
						5.9	0.1	160	18.9		8.1		29.7		100.1		7.8	-	7.5		6			

DA: Depth-Averaged

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

Water Quality Monitoring Results on 14 February 23 during Mid-Ebb Tide

Water Qual	ity Monite	oring Resu	Its on		14 February 23	during Mid-	Ebb Tide	e																
Monitoring	Weather	Sea	Sampling	Water	Sampling De	nth (m)	Current Speed	Current	Water T	emperature (°C)		pН	Salin	iity (ppt)		aturation (%)	Disso Oxy		Turbidity	(NTU)	Suspender (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling De	pm (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.1	112	19.2	19.2	8.2	8.2	28.8	28.8	104.3	104.3	8.1		3.1		7			
						1.0	0.1	114	19.2	10.2	8.2	0.2	28.8	20.0	104.2	104.0	8.1	8.0	3.2		5			
IM10	Fine	Rough	06:27	8.3	Middle	4.2	0.1	108	19.0	19.0	8.1	8.1	29.3	29.3	101.6	101.6	7.9		5.8	5.1	6	5	822250	809844
		0				4.2	0.1	103	19.0		8.1		29.3		101.5		7.9		5.8		4			
					Bottom	7.3	0.2	98	19.0 19.0	19.0	8.1 8.1	8.1	29.4 29.4	29.4	100.8 100.8	100.8	7.9 7.9	7.9	6.4 6.4	-	3			
						1.0	0.2	102 114	19.0		8.1		29.4		100.8		7.9 8.2		6.4 4.3		3			
					Surface	1.0	0.0	114	19.3	19.3	8.2	8.2	27.9	27.9	105.4	105.4	8.2		4.3		2			
						3.9	0.0	97	19.0		8.1		29.4		101.0		7.9	8.1	5.4	-	3			
IM11	Fine	Rough	06:13	7.7	Middle	3.9	0.0	102	19.0	19.0	8.1	8.1	29.5	29.4	100.9	101.0	7.9		5.4	5.6	4	4	821489	810547
						6.7	0.1	87	18.9		8.1		29.6		99.6		7.8		7.2		3			
					Bottom	6.7	0.1	85	18.9	18.9	8.1	8.1	29.6	29.6	99.6	99.6	7.8	7.8	7.3		5			
					0(1.0	0.1	102	19.1	40.4	8.2		28.9	00.0	103.6	400.0	8.1		2.7		<2			
					Surface	1.0	0.1	103	19.1	19.1	8.2	8.2	28.9	28.9	103.5	103.6	8.1	8.0	2.7		<2			
IM12	Fine	Pough	06:02	7.9	Middle	4.0	0.0	108	19.0	19.0	8.1	8.1	29.5	29.5	101.5	101.5	7.9	0.0	3.4	4.2	3	2	821173	811502
IIVITZ	Fille	Rough	00.02	7.9	Wilddie	4.0	0.0	110	19.0	19.0	8.1	0.1	29.5	29.5	101.5	101.5	7.9		3.5	4.2	2	2	021173	011302
					Bottom	6.9	0.1	111	18.9	18.9	8.1	8.1	29.7	29.7	100.9	100.9	7.9	7.9	6.4		3			
					Bottom	6.9	0.0	111	18.9	10.5	8.1	0.1	29.7	23.1	100.9	100.3	7.9	1.5	6.4		2			
					Surface	1.0	0.0	355	19.2	19.2	8.2	8.2	28.7	28.7	104.3	104.3	8.1		4.5		5			
						1.0	0.0	351	19.2		8.2		28.7		104.2		8.1	8.1	4.5		5			
SR1A	Fine	Moderate	05:19	4.2	Middle	2.1	0.0	342	-		-	-	-	-	-		-		-	4.8	-	4	819972	812664
						2.1	0.0	348	-	-	-		-		-		-		-	-	-			
					Bottom	3.2	- 0.0	334 332	19.1 19.1	19.1	8.1 8.1	8.1	29.1 29.1	29.1	102.1	102.1	8.0 8.0	8.0	5.1 5.2		3			
			1			1.0	0.0	332	19.1		8.1		29.1		-				3.3		2			
					Surface	1.0	0.1	336	18.9	18.9	8.1	8.1	29.4	29.4	102.8 102.8	102.8	8.0 8.0		3.3	-	3			
						-	0.0	333	-		-		-		-		-	8.0	-		-			
SR2	Fine	Rough	05:08	4.3	Middle	-	0.1	337	-		-	-	-	-	-		-		-	4.0	-	3	821479	814178
						3.3	0.1	321	18.9		8.1		29.6		101.9		8.0		4.7	-	3			
					Bottom	3.3	0.1	322	18.9	18.9	8.1	8.1	29.6	29.6	101.9	101.9	8.0	8.0	4.8		5			
					Curtana	1.0	0.1	166	19.3	10.2	8.2	0.0	27.9	27.0	105.9	405.0	8.3		3.2		2			
					Surface	1.0	0.2	163	19.3	19.3	8.2	8.2	27.9	27.9	105.8	105.9	8.3	8.2	3.2		3			
SR3	Fine	Rough	06:06	7.1	Middle	3.6	0.1	182	19.2	19.3	8.2	8.2	28.6	28.6	104.2	104.2	8.1	0.2	3.3	3.0	4	3	822144	807583
0100	1 110	Rough	00.00	7.1	Wilddie	3.6	0.1	182	19.3	13.5	8.2	0.2	28.6	20.0	104.2	104.2	8.1		3.3	5.0	4	5	022144	007 303
					Bottom	6.1	0.1	154	18.9	18.9	8.1	8.1	29.6	29.6	101.2	101.2	7.9	7.9	2.7		3			
					Bottom	6.1	0.0	152	18.9	10.0	8.1	0.1	29.6	20.0	101.2		7.9		2.7		4			
					Surface	1.0	0.0	300	18.6	18.6	8.1	8.1	30.1	30.1	101.7	101.7	7.9		5.2		2			
						1.0	0.0	293	18.6		8.1		30.1		101.7		7.9	7.9	5.2		3			
SR4A	Fine	Moderate	04:35	8.9	Middle	4.5 4.5	0.1	320 327	18.6 18.6	18.6	8.1 8.1	8.1	30.2 30.2	30.2	101.4	101.4	7.9 7.9		6.3 6.4	7.0	2	3	817210	807789
						7.9	0.0	281	18.6						-					-	2			
					Bottom	7.9	0.0	281	18.6	18.6	8.0 8.0	8.0	30.6 30.6	30.6	100.4	100.4	7.8 7.8	7.8	9.6 9.5	-	2 4			
				1	1	1.0	-	- 210	19.4	1	8.2		28.5		100.4		8.1		9.5 5.2		2			
					Surface	1.0	-		19.4	19.4	8.2	8.2	28.5	28.5	104.3	104.3	8.1		5.2		3			
0.00			0.5.55			-	-	-	-	1	-	<u> </u>	-		-		-	8.1	-		-			
SR8	Fine	Moderate	05:52	4.2	Middle	-	-	-	-	1 -	-	1 -	-	- 1	-	-	-		-	7.2	-	3	820383	811606
					Bottom	3.2	-	-	19.3	10.2	8.2	0.0	28.9	28.0	103.3	102.2	8.0	0.0	9.2	1	3			
					Bottom	3.2	-	-	19.3	19.3	8.2	8.2	28.9	28.9	103.2	103.3	8.0	8.0	9.3		3			

DA: Depth-Averaged

Water Quality Monitoring

Water Quality Monitoring Results on 14 February 23 during Mid-Flood Tide

water Quar	ity wonite	oring Resu	its on		14 February 23	during Mid-	F1000 11	ae																
Monitoring	Weather	Sea	Sampling	Water	Sampling Dept	h (m)	Current Speed	Current	Water Te	emperature (°C)	pН		Salin	iity (ppt)		aturation (%)	Disso Oxy		Turbidity	(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dept	n (m)	(m/s)	Direction	Value	Average	Value Av	rage	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Queferre	1.0	0.3	42	18.8	10.0	8.2		29.9	00.0	102.8	400.0	8.0		3.7		4			
					Surface	1.0	0.3	44	18.8	18.8	8.2	8.2	29.9	29.9	102.8	102.8	8.0		3.8		2			
01	E 1	Devel	40.00		NAC-LUL-	4.2	0.3	27	18.7	18.7	8.2		30.0	00.0	102.3	400.0	8.0	8.0	4.6		3		045007	004000
C1	Fine	Rough	12:08	8.4	Middle	4.2	0.3	25	18.7	18.7	8.2	8.2	30.0	30.0	102.3	102.3	8.0		4.6	5.5	3	3	815627	804266
					D. H	7.4	0.3	19	18.7	10.7	8.1		30.1	00.4	101.5	404.5	7.9	7.0	8.2		2			
					Bottom	7.4	0.2	14	18.7	18.7	8.1	8.1	30.1	30.1	101.5	101.5	7.9	7.9	8.3		2			
					Queferre	1.0	0.1	211	19.3	19.3	8.2	8.2	28.1	28.1	105.3	105.3	8.2		4.2		3			
					Surface	1.0	0.1	205	19.3	19.3	8.2	8.2	28.1	28.1	105.3	105.3	8.2	8.1	4.3		2			
C2	Fine	Dough	10:28	0.0	Middle	4.5	0.0	204	19.1	19.1	8.2	8.2	29.3	29.3	102.2	102.2	8.0 8.0	8.1	3.7	3.6	3	3	825691	806930
02	Fille	Rough	10.20	8.9	Middle	4.5	0.1	208	19.1	19.1	8.2	0.2	29.3	29.5	102.2	102.2	8.0		3.7	3.0	2	3	020091	800930
					Bottom	7.9	0.1	197	19.0	19.0	8.1	8.1	29.4	29.4	101.6	101.6	7.9	7.9	2.9		3			
					Bottom	7.9	0.1	196	19.0	19.0	8.1	0.1	29.4	29.4	101.6	101.0	7.9	1.5	2.9		5			
					Surface	1.0	0.4	269	18.5	18.5	8.1	8.1	30.6	30.6	100.8	100.8	7.9		1.0		3			
					Guildee	1.0	0.4	269	18.5	10.0	8.1	0.1	30.6	00.0	100.8	100.0	7.9	7.8	1.1		2			
C3	Fine	Moderate	12:26	10.5	Middle	5.3	0.4	247	18.3	18.3	8.1	8.1	31.1	31.1	98.7	98.7	7.7		1.5	1.8	4	3	822096	817806
						5.3	0.4	241	18.3		8.1		31.1		98.7		7.7		1.5		3	•		
					Bottom	9.5	0.4	273	18.3	18.3	8.1	8.1	31.1	31.1	98.4 98.4	98.4	7.7	7.7	3.0	_	4			
						9.5	0.4	267	18.3		8.1	-	31.1	-			7.7		2.9		4			
					Surface	1.0	0.1	17	19.5	19.5	8.2 8.2	8.2	28.7	28.7	102.6 102.6	102.6	8.0		1.6	_	2			
						1.0	0.1	13	19.5				28.7				8.0	7.9	1.6	-	2			
IM1	Fine	Moderate	11:40	7.2	Middle	3.6	0.2	6	19.2	19.3	8.2 8.2	8.2	29.2 29.2	29.2	101.0	101.1	7.8 7.8		4.1	4.0	2	3	818335	806457
						3.6 6.2	0.2	10 25	19.3										4.0	-	2			
					Bottom	6.2	0.2	25	18.8 18.8	18.8	8.1 8.1	8.1	29.9 29.9	29.9	100.2	100.2	7.8 7.8	7.8	6.3 6.3	-	3			
						1.0	0.1	25 349	18.8		8.2		29.9		100.2		7.8 8.1		1.3	1	4			
					Surface	1.0	0.1	352	19.4	19.4	8.2	8.2	28.6	28.6	103.7	103.7	8.1		1.3	-	4			
						3.6	0.0	334	18.8		9.2		20.0		100.6		7.8	8.0	2.7	-	3			
IM2	Fine	Moderate	11:27	7.2	Middle	3.6	0.0	328	18.8	18.8	8.2	8.2	29.8	29.8	100.6	100.6	7.8		2.7	2.5	3	3	819160	806220
						6.2	0.0	337	18.8		82		29.9		100.7		7.9		3.5	-	2			
					Bottom	6.2	0.1	332	18.8	18.8	8.2	8.2	29.9	29.9	100.7	100.7	7.9	7.9	3.6	-	2			
						1.0	0.1	251	19.3	10.0	9.2		28.8		102.7	100 7	8.0		6.2	1	2			
					Surface	1.0	0.1	244	19.3	19.3	8.2	8.2	28.7	28.7	102.7	102.7	8.0	7.0	6.3	1	3			
11.47	Elso.	Devel	44.00	7.4	M dalla	3.7	0.1	275	19.0	10.0	81		29.4	00.4	100.7	400.7	7.8	7.9	7.5	1	<2		004007	000004
IM7	Fine	Rough	11:06	7.4	Middle	3.7	0.1	271	19.0	19.0	8.1	8.1	29.4	29.4	100.7	100.7	7.8		7.5	7.3	<2	2	821337	806821
					Bottom	6.4	0.1	283	18.9	18.9	8.1	0.1	29.7	29.7	98.5	98.5	7.7	7.7	8.2	1	<2			
					Bottom	6.4	0.2	280	18.9	10.9	8.1	8.1	29.7	29.7	98.5 98.5	98.5	7.7	1.1	8.2	1	<2			

DA: Depth-Averaged

Water Quality Monitoring

Water Quality Monitoring Results on 14 February 23 during Mid-Flood Tide

Water Qua	lity Monite	oring Resu	lts on		14 February 23	during Mid-	Flood Ti	de																
Monitoring	Weather	Sea	Sampling	Water	Sampling Dep	oth (m)	Current Speed	Current	Water Te	emperature (°C)		pН	Salin	iity (ppt)	DO S	aturation (%)	Disso Oxy		Turbidity	(NTU)	Suspended (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dep	un (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.1	279	19.2	19.2	8.2	8.2	28.5	28.5	103.5	103.4	8.1		1.2		<2			
					Suilace	1.0	0.1	272	19.2	19.2	8.2	0.2	28.5	20.5	103.3	103.4	8.1	8.0	1.3		<2			
IM10	Fine	Rough	10:41	8.3	Middle	4.2	0.1	260	19.0	19.0	8.1	8.1	29.3	29.3	101.1	101.1	7.9	0.0	2.3	2.5	<2	<2	822226	809861
INTO	1 IIIC	Rough	10.41	0.0	WINDLE	4.2	0.1	264	19.0	13.0	8.1	0.1	29.3	23.5	101.0	101.1	7.9		2.4	2.5	<2	~2	022220	003001
					Bottom	7.3	0.2	265	19.0	19.0	8.1	8.1	29.4	29.4	100.1	100.1	7.8	7.8	3.8		<2			
					Dottom	7.3	0.2	261	19.0	13.0	8.1	0.1	29.4	23.4	100.1	100.1	7.8	7.0	3.9		<2			
					Surface	1.0	0.3	257	19.3	19.3	8.2	8.2	28.6	28.6	104.8	104.8	8.2		3.3		2			
					Ganado	1.0	0.2	251	19.3	10.0	8.2	0.2	28.6	20.0	104.8	104.0	8.2	8.1	3.3		2			
IM11	Fine	Rough	10:56	8.1	Middle	4.1	0.2	251	19.1	19.1	8.2	8.2	29.1	29.1	102.6	102.6	8.0	0.1	2.6	3.3	2	2	821477	810545
INVEET	1 IIIC	Rough	10.50	0.1	Wilddle	4.1	0.2	253	19.1	13.1	8.2	0.2	29.1	23.1	102.6	102.0	8.0		2.6	0.0	3	2	021477	010040
					Bottom	7.1	0.2	291	19.0	19.0	8.1	8.1	29.6	29.6	99.4	99.4	7.7	7.7	3.9		2			
					Dottom	7.1	0.2	283	19.0	13.0	8.1	0.1	29.6	23.0	99.3	33.4	7.7	1.1	3.9		3			
					Surface	1.0	0.2	273	19.0	19.0	8.2	8.2	29.1	29.1	103.0	103.0	8.0		1.1		3			
					Guilace	1.0	0.2	276	19.0	13.0	8.2	0.2	29.1	23.1	102.9	105.0	8.0	8.0	1.2		2			
IM12	Fine	Rough	11:06	8.4	Middle	4.2	0.2	295	18.9	18.9	8.1	8.1	29.5	29.5	101.4	101.4	7.9	0.0	1.3	1.6	2	3	821139	811500
111112	1 IIIe	Rough	11.00	0.4	INIQUIE	4.2	0.2	289	18.9	10.9	8.1	0.1	29.5	29.5	101.4	101.4	7.9		1.3	1.0	3	5	021139	811300
					Bottom	7.4	0.2	274	18.9	18.9	8.1	8.1	29.6	29.6	99.2	99.2	7.7	7.7	2.5		3			
					Bollom	7.4	0.2	276	18.9	16.9	8.1	0.1	29.6	29.0	99.1	99.2	7.7	7.7	2.5		2			
					Surface	1.0	-	208	19.5	19.5	8.1	8.1	28.9	28.9	99.2	99.2	7.7		5.0		3			
					Sunace	1.0	0.1	206	19.5	19.5	8.1	0.1	28.9	20.9	99.1	99.2	7.7	7.7	5.0		2			
SR1A	Fine	Moderate	11:42	4.8	Middle	2.4	0.0	209	-		-		-		-		-	1.1	-	5.8	-	2	819972	812658
SKIA	FILLE	Moderate	11.42	4.0	IVIIQUIE	2.4	0.0	215	-	-	-	-	-	-	-	-	-		-	5.0	-	2	019972	012030
					Bottom	3.8	0.0	212	19.5	19.5	8.1	8.1	28.9	28.9	98.7	98.7	7.6	7.6	6.5		2			
					Bollom	3.8	0.0	216	19.5	19.5	8.1	0.1	28.9	20.9	98.7	90.7	7.6	7.0	6.6		2			
					Surface	1.0	0.1	275	18.8	18.8	8.2	8.2	29.9	29.9	103.1	103.1	8.0		1.7		4			
					Sunace	1.0	0.1	280	18.8	18.8	8.2	8.2	29.9	29.9	103.1	103.1	8.0		1.7		4			
SR2	Fine	Madavata	40.00	5.0	Middle	-	0.1	274	-	-	-		-		-		-	8.0	-	1.5	-	3	821449	814175
SK2	Fine	Moderate	12:03	5.2	IVIIdale	-	0.1	273	-	-	-	-	-	-	-	-	-		-	1.5	-	3	821449	814175
					Dattan	4.2	0.1	255	18.7	18.7	8.2	8.2	30.0	30.0	102.5	102.5	8.0	8.0	1.3		2			
					Bottom	4.2	0.0	253	18.7	18.7	8.2	8.2	30.0	30.0	102.5	102.5	8.0	8.0	1.3		3			
					Surface	1.0	0.1	239	19.0	19.0	8.2	8.2	29.2	29.2	103.3	103.3	8.1		2.7		3			
					Sunace	1.0	0.0	240	19.0	19.0	8.2	0.2	29.2	29.2	103.3	103.5	8.1	8.1	2.7		3			
SR3	Fine	Davish	10.10	7.0	Middle	4.0	0.0	235	19.0	19.0	8.2	0.0	29.3	20.2	102.5	102.5	8.0	0.1	3.6	3.9	4	3	000407	807589
583	Fine	Rough	10:49	7.9	IVIIdale	4.0	0.0	228	19.0	19.0	8.2	8.2	29.3	29.3	102.4	102.5	8.0		3.6	3.9	2	3	822137	807589
					Bottom	6.9	0.1	248	18.9	18.9	8.2	8.2	29.6	20.6	101.2	101.2	7.9	7.9	5.4		3			
					Bottom	6.9	0.1	244	18.9	18.9	8.2	8.2	29.6	29.6	101.2	101.2	7.9	7.9	5.5		2			
					Surface	1.0	0.0	239	18.5	10 E	8.1	0.1	30.6	20.6	101.1	101.4	7.9		3.3		2			
					Surface	1.0	0.0	246	18.5	18.5	8.1	8.1	30.6	30.6	101.1	101.1	7.9	7.9	3.3	1	4			
SR4A	Fina	Madarata	12.21	0.6	Middle	4.8	0.0	245	18.5	18.5	8.1	0.1	30.6	20.6	100.4	100.4	7.8	1.9	4.3	4.5	4	3	817174	807823
SK4A	Fine	Moderate	12:31	9.6	IVIIGGIE	4.8	0.1	249	18.5	10.0	8.1	8.1	30.6	30.6	100.4	100.4	7.8		4.4	4.0	2	3	01/1/4	807823
					Bottom	8.6	0.0	261	18.3	18.3	8.1	8.1	31.1	31.1	99.0	99.0	7.7	7.8	5.7		3			
					DUILUIII	8.6	0.0	259	18.3	10.3	8.1	0.1	31.1	31.1	99.0	99.0	7.8	1.0	5.8	1	4			
					Surface	1.0	-	-	19.4	19.4	8.2	8.2	28.6	28.6	103.5	103.5	8.0		4.3		3			
					Sunace	1.0	-	-	19.4	19.4	8.2	0.2	28.6	20.0	103.4	103.5	8.0	8.0	4.4	1	2			
SR8	Fina	Modorata	11.14	4.0	Middle	-	-	-	-		-		-		-		-	ö.Ü	-	5.6	-	2	020204	011620
SKÖ	Fine	Moderate	11:14	4.9	IVIIQUIE	-	-	-	-	-	-	-	-	1 -	-	1 -	-		-	5.6	-	3	820384	811639
					Pottom	3.9	-	-	19.1	10.1	8.2	0.0	29.2	20.2	101.9	101.0	7.9	7.0	6.8		3			
					Bottom	3.9	-	-	19.1	19.1	8.2	8.2	29.2	29.2	101.8	101.9	7.9	7.9	6.8	1	4			
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DA: Depth-Averaged

Water Quality Monitoring Water Quality Monitoring Results on

16 February 23 during Mid-Ebb Tide

Water Qua	ity wonit	oring Resu	its on		16 February 23	during Mid-		•																
Monitoring	Weather	Sea	Sampling	Water	Sampling Dep	th (m)	Current Speed	Current	Water Te	emperature (°C)		pН	Salin	ity (ppt)	DO S	Saturation (%)	Disso Oxy		Turbidity	(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dep	un (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.4	208	17.4	17.4	7.8	7.8	32.7	32.7	98.1	98.1	7.7		6.5		<2			
					Surface	1.0	0.4	202	17.4	17.4	7.8	7.8	32.7	32.7	98.1	98.1	7.7	7.7	7.3		<2			
C1	Cloudy	Moderate	21:54	8.7	Middle	4.4	0.5	196	17.4	17.4	7.8	7.8	32.7	32.7	98.2	98.3	7.7	1.1	10.2	8.2	<2	<2	815613	804261
CI	Cioudy	wouerate	21.54	0.7	Middle	4.4	0.4	201	17.4	17.4	7.8	1.0	32.7	32.7	98.3	90.5	7.7		10.2	0.2	<2	<2	010013	004201
					Bottom	7.7	0.4	227	17.4	17.4	7.8	7.8	32.7	32.7	99.8 100.1	100.0	7.9	7.9	7.1		<2			
					Bollom	7.7	0.5	223	17.4	17.4	7.8	7.0	32.7	32.7	100.1	100.0	7.9	7.9	8.0		<2			
					Surface	1.0	0.4	164	17.8	17.8	7.8	7.8	31.1	31.1	99.0 99.0	99.0	7.8		0.7		3			
					Sunace	1.0	0.4	158	17.8	17.0	7.8	1.0	31.1	31.1	99.0	99.0	7.8	7.8	0.8		2			
C2	Cloudy	Moderate	20:41	11.7	Middle	5.9	0.4	178	17.7	17.7	7.8	7.8	31.6	31.6	98.8	98.8	7.8	1.0	10.5	6.0	3	3	825703	806924
62	Cioudy	wouerate	20.41	11.7	WIGGIE	5.9	0.4	178	17.7	17.7	7.8	1.0	31.6	31.0	98.8	90.0	7.8		10.6	0.0	4	3	025705	000924
					Bottom	10.7	0.4	173	17.7	17.7	7.8	7.8	31.9	31.8	98.5 98.5	98.5	7.8	7.8	6.7		2			
					Bollom	10.7	0.4	174	17.7	17.7	7.8	7.0	31.8	31.0	98.5	96.5	7.8	1.0	6.8		3			
					Surface	1.0	0.4	87	18.0	18.0	7.9	7.9	31.5	31.5	99.1 99.2	99.2	7.8		1.4		2			
					Sunace	1.0	0.5	84	18.0	10.0	7.9	7.9	31.5	31.5	99.2	99.2	7.8	7.8	1.5		2			
C3	Misty	Calm	21:32	11.0	Middle	5.5	0.4	82	18.0	18.0	7.9	7.9	31.5	31.5	99.3	99.3	7.8	7.0	1.8	1.7	2	2	822107	817826
03	wisty	Calm	21.32	11.0	WIGGIE	5.5	0.4	88	18.0	10.0	7.9	7.9	31.5	31.5	99.3	99.3	7.8		1.8	1.7	3	2	022107	01/020
					Bottom	10.0	0.4	58	18.0	18.0	8.0	8.0	31.5	31.5	99.7 100.0	99.9	7.8	7.8	2.0		2			
					Bollom	10.0	0.4	62	18.0	18.0	8.0	0.0	31.5	31.5	100.0	99.9	7.8	1.0	2.1		2			
					Surface	1.0	0.3	200	17.6	17.6	7.8	7.8	32.4	32.4	101.9 101.8	101.9	8.0		1.5		<2			
					Surface	1.0	0.3	200	17.6	17.0	7.8	7.0	32.4	32.4	101.8	101.9	8.0	8.0	1.6		<2			
IM1	Cloudy	Moderate	21:34	6.8	Middle	3.4	0.3	179	17.6	17.6	7.8	7.8	32.5	32.5	101.4	101.4	8.0	0.0	4.1	4.1	<2	<2	818362	806444
IIVII	Cloudy	woderate	21.54	0.0	Middle	3.4	0.3	171	17.6	17.0	7.8	7.0	32.5	52.5	101.4	101.4	8.0		4.3	7.1	<2	<u>~</u>	010302	000444
					Bottom	5.8	0.3	214	17.5	17.5	7.9	7.9	32.6	32.6	101.7	101.8	8.0	8.0	6.5		<2			
					Dottom	5.8	0.3	221	17.5	17.5	7.9	1.5	32.6	52.0	101.9	101.0	8.0	0.0	6.5		<2			
					Surface	1.0	0.3	188	17.6	17.6	7.8	7.8	32.3	32.3	101.5	101.5	8.0		1.8		2			
					Ounace	1.0	0.3	190	17.6	17.0	7.8	7.0	32.3	52.5	101.5	101.5	8.0	8.0	1.9		2			
IM2	Cloudy	Moderate	21:30	7.2	Middle	3.6	0.3	185	17.6	17.6	7.8	7.8	32.5	32.5	100.9	100.9	7.9	0.0	3.3	5.3	2	2	819203	806214
TIM2	Cloudy	woderate	21.50	1.2	Widdle	3.6	0.3	187	17.6	17.0	7.8	7.0	32.5	52.5	100.9	100.3	7.9		3.5	0.0	2	2	013203	000214
					Bottom	6.2	0.3	200	17.5	17.5	7.8	7.8	32.6	32.6	101.2	101.3	8.0	8.0	11.0		2			
					Dottom	6.2	0.3	194	17.5	17.5	7.8	7.0	32.6	52.0		101.5	8.0	0.0	10.5		2			
					Surface	1.0	0.2	154	17.8	17.8	7.8	7.8	31.5	31.6	99.9 99.9	99.9	7.9		0.6		2			
					Guilace	1.0	0.2	156	17.8	17.0	7.8	7.0	31.6	51.0		33.3	7.9	7.9	0.6		3			
IM7	Cloudy	Moderate	21:10	7.8	Middle	3.9	0.2	181	17.7	17.7	7.8	7.8	31.9	31.9	99.9	100.0	7.9	1.5	0.9	0.9	3	3	821354	806828
11017	Cioudy	Moderale	21.10	7.0	WILCOS	3.9	0.2	176	17.7		7.8	7.0	32.0	51.5	100.0	100.0	7.9		1.0	0.3	3	5	021004	000020
					Bottom	6.8	0.3	172	17.6	17.6	7.8	7.8	32.2	32.2	101.0	101.1	8.0	8.0	1.2		4			
					Dottom	6.8	0.2	178	17.6	17.0	7.8	7.0	32.2	52.2	101.2	101.1	8.0	0.0	1.2		3			

DA: Depth-Averaged

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

Water Quality Monitoring Water Quality Monitoring Results on

16 February 23 during Mid-Ebb Tide

								e																
Monitoring	Weather	Sea	Sampling	Water	Sampling Dep	nth (m)	Current Speed	Current	Water Te	emperature (°C)		pН	Salin	iity (ppt)	DO S	Saturation (%)	Disso Oxy		Turbidity	(NTU)	Suspended (mg/l		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dep	, an (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.3	97	18.3	18.3	7.9	7.9	30.5	30.5	101.8	101.9	8.0		1.0		2			
					Cunaco	1.0	0.4	94	18.3	1010	7.9		30.5	00.0	101.9		8.0	8.0	1.1		2			
IM10	Misty	Calm	20:27	8.8	Middle	4.4	0.3	103	18.1	18.1	7.9	7.9	30.7	30.7	101.7	101.7	8.0		1.2	1.2	<2	2	822222	809857
						4.4	0.3	101	18.1		7.9		30.7		101.6		8.0		1.1		<2			
					Bottom	7.8	0.4	94	18.1	18.1	7.9	7.9	30.9	30.9	101.7	101.7	8.0	8.0	1.6		2			
						7.8	0.3	96 83	18.1 18.2		7.9		30.9		101.7		8.0		1.5		3			
					Surface	1.0	0.4	77	18.2	18.2	8.0 8.0	8.0	30.5 30.5	30.5	105.3	105.4	8.3 8.3		1.0 1.1	-	2			
						4.6	0.4	107	18.1		8.0		30.5		105.5		8.3	8.3	1.1		<2			
IM11	Misty	Calm	20:34	9.2	Middle	4.6	0.4	107	18.1	18.1	8.0	8.0	30.6	30.6	106.4	106.3	8.4		1.4	1.8	<2	2	821493	810566
						8.2	0.4	85	18.1		8.0		30.6		100.4		8.5		2.9		2			
					Bottom	8.2	0.3	88	18.1	18.1	8.0	8.0	30.6	30.6	107.0	108.1	8.5	8.5	2.8		2			
						1.0	0.5	87	18.2		8.0		30.6		105.0		8.3		1.0		2			
					Surface	1.0	0.5	92	18.1	18.2	8.0	8.0	30.6	30.6	105.3	105.2	8.3		1.1		3			
						4.5	0.4	90	18.1		8.0		30.6		105.8		8.3	8.3	1.2		3			
IM12	Misty	Calm	20:40	9.0	Middle	4.5	0.4	87	18.1	18.1	8.0	8.0	30.7	30.6	106.2	106.0	8.4		1.1	1.2	3	3	821180	811540
					5.4	8.0	0.4	94	18.1	10.0	8.0		30.7		107.1	107.5	8.4		1.3		3			
					Bottom	8.0	0.4	93	18.2	18.2	8.0	8.0	30.7	30.7	107.8	107.5	8.5	8.5	1.3	1	3			
					Quarteria	1.0	-	73	18.3	40.0	7.9	7.0	30.2	00.0	99.6	00.7	7.8		2.0		2			
					Surface	1.0	0.0	65	18.3	18.3	7.9	7.9	30.2	30.2	99.7	99.7	7.8	7.8	1.9		2			
SR1A	Misty	Calm	20:53	4.2	Middle	2.1	0.1	72	-	_	-		-		-	_	-	1.0	-	2.1	-	3	819972	812664
SKIA	iviisty	Call	20.55	4.2	Wildule	2.1	0.1	66	-	-	-		-		-		-		-	2.1		3	019972	012004
					Bottom	3.2	0.0	83	18.3	18.3	7.9	7.9	30.3	30.3	99.9	100.0	7.9	7.9	2.2		4			
					Bottom	3.2	-	85	18.3	10.0	7.9	1.0	30.3	00.0	100.0	100.0	7.9	1.0	2.2		4			
					Surface	1.0	0.4	46	18.2	18.2	8.0	8.0	30.7	30.7	105.4	105.6	8.3		1.0		4			
						1.0	0.4	39	18.1		8.0		30.8		105.7		8.3	8.3	1.1		3			
SR2	Misty	Calm	21:12	5.4	Middle	-	0.4	61	-	-	-	-	-	-	-		-		-	1.6	-	3	821466	814142
						-	0.4	57	-		-		-		-		-		-		-			
					Bottom	4.4	0.4	57	18.1	18.1	8.0	8.0	30.8	30.8	106.3	106.7	8.4	8.4	2.1		3			
						4.4	0.4	53	18.1		8.0		30.8		107.0		8.4		2.2		2			
					Surface	1.0	0.4	143	17.8	17.8	7.8 7.8	7.8	31.0	31.0	100.4	100.5	7.9		0.2		3			
						1.0 4.5	0.4	141 175	17.8 17.7		7.8		31.0 31.5		100.5		7.9 8.0	8.0	0.2		2			
SR3	Cloudy	Moderate	21:01	9.0	Middle	4.5	0.4	169	17.7	17.7	7.8	7.8	31.6	31.5	101.3	101.3	8.0		0.7	0.6	2	2	822136	807562
						8.0	0.4	169	17.7		7.9		31.9		101.3		8.0		0.7		2			
					Bottom	8.0	0.4	159	17.6	17.6	7.9	7.9	31.8	31.9	101.2	101.2	8.0	8.0	0.9		2			
	l l		1			1.0	0.4	76	17.8		7.8	1	31.8		100.9	1	7.9		1.2		2			
					Surface	1.0	0.0	74	17.8	17.8	7.8	7.8	31.8	31.8	100.9	100.9	7.9		1.2		3			
						4.4	-	89	17.7		7.8		32.3		100.4		7.9	7.9	1.9		<2			
SR4A	Cloudy	Moderate	22:19	8.8	Middle	4.4	0.0	84	17.6	17.7	7.8	7.8	32.3	32.3	100.3	100.4	7.9		2.0	1.9	<2	2	817172	807828
					5.4	7.8	0.0	55	17.6	17.0	7.8		32.3		100.4	100 5	7.9	= 0	2.6		2			
					Bottom	7.8	0.0	53	17.6	17.6	7.8	7.8	32.3	32.3	100.5	100.5	7.9	7.9	2.5	1	2			
					Surface	1.0	-	-	18.2	18.2	8.0	0.0	30.6	30.6	106.4	106.6	8.4		1.1		3			
					Surface	1.0	-	-	18.2	18.2	8.0	8.0	30.6	30.6	106.7	106.6	8.4	8.4	1.1	1	2			
SR8	Misty	Colm	20:45	4.6	Middle	-	-	-	-		-		-	_	-		-	ö.4	-	1.6	-	3	820388	811641
one	iviisty	Calm	20.45	4.0	WILCOLE	-	-	-	-	-	-		-		-		-		-	1.0	-	3	020300	011041
					Bottom	3.6	-	-	18.1	18.1	8.0	8.0	30.6	30.6	107.6	108.0	8.5	8.5	2.1	J	2			
					Dottom	3.6	-	-	18.1	10.1	8.0	0.0	30.6	50.0	108.3	100.0	8.5	0.0	2.2		3			

Water Quality Monitoring

Water Quality Monitoring Results on 16 February 23 during Mid-Flood Tide

water Quai	ity monite	oring Resu	its on		16 February 23	during Mid-	F100a 11	ae																
Monitoring	Weather	Sea	Sampling	Water	Sampling Dep	ath (m)	Current Speed	Current	Water Te	emperature (°C)		pН	Salir	nity (ppt)		aturation (%)	Disso Oxy		Turbidity	(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling De	501 (HI)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.0	50	17.4	17.4	7.8	7.8	32.7	32.7	99.4	99.4	7.8		5.7		2			
					Sullace	1.0	0.1	55	17.4	17.4	7.8	7.0	32.7	32.7	99.4	99.4	7.8	7.8	5.8		2			
C1	Cloudy	Moderate	09:05	8.8	Middle	4.4	0.1	54	17.4	17.4	7.8	7.8	32.7	32.7	99.4 99.5	99.5	7.8	1.0	6.4	7.9	3	2	815634	804245
C1	Cloudy	Woderate	09.00	0.0	Middle	4.4	0.1	49	17.4	17.4	7.8	7.0	32.7	32.7	99.5	99.0	7.8		6.6	7.5	2	2	013034	004243
					Bottom	7.8	0.0	35	17.4	17.4	7.9	7.9	32.7	32.7	100.3	100.4	7.9	7.9	11.3		<2			
					Bottom	7.8	0.0	32	17.4	17.4	7.9	1.5	32.7	52.7	100.5	100.4	7.9	1.5	11.8		<2			
					Surface	1.0	0.1	175	17.8	17.8	7.8	7.8	31.1	31.1	99.6 99.6	99.6	7.9		0.4		3			
					Ganade	1.0	0.1	176	17.8	17.0	7.8	7.0	31.1	01.1		00.0	7.9	7.9	0.4		2			
C2	Cloudy	Moderate	10:25	11.4	Middle	5.7	0.1	178	17.7	17.7	7.8	7.8	31.3	31.3	99.6 99.5	99.6	7.9		0.6	2.1	3	3	825679	806960
-	,					5.7	0.1	183	17.7		7.8	_	31.4				7.9		0.6	_	2			
					Bottom	10.4	0.1	152	17.6	17.6	7.9	7.9	31.9	31.9	99.5 99.5	99.5	7.8	7.8	5.2	_	3			
						10.4	0.1	<u>154</u> 71	17.6		7.9		31.9				7.8		5.7	1	4			
					Surface	1.0	0.1	66	18.0 18.0	18.0	7.9	7.9	31.5 31.5	31.5	98.7 98.7	98.7	7.7 7.7		1.0 1.1	-	6 5			
						5.5	0.1	71	18.0		7.9		31.5		99.1		7.8	7.8	1.1	-	2			
C3	Misty	Moderate	10:08	11.0	Middle	5.5	0.0	70	18.0	18.0	7.9	7.9	31.5	31.5	99.3	99.2	7.8		1.1	1.2	2	4	822124	817799
						10.0	0.1	104	18.0		7.9		31.5		100.1		7.8		1.6	-	3			
					Bottom	10.0	0.1	108	18.0	18.0	7.9	7.9	31.5	31.5	100.3	100.2	7.9	7.9	1.5		3			
					Surface	1.0	0.1	149	17.6	17.6	7.8	7.8	32.4	32.4	100.6	100.6	7.9		1.4		4			
					Sunace	1.0	0.0	143	17.6	17.0	7.8	7.8	32.4	32.4	100.6 100.6	100.6	7.9	7.9	1.4		4			
IM1	Cloudy	Moderate	09:30	6.7	Middle	3.4	0.0	175	17.6	17.6	7.8	7.8	32.4	32.4	100.0	100.0	7.9	7.9	2.0	2.9	3	3	818333	806440
IIVIT	Cloudy	Moderate	03.50	0.7	Middle	3.4	0.1	174	17.6	17.0	7.8	7.0	32.4	32.4	100.0	100.0	7.9		2.1	2.5	2	5	010000	000440
					Bottom	5.7	0.0	138	17.5	17.5	7.8	7.8	32.5	32.5	99.6 99.6	99.6	7.8	7.8	5.3		<2			
					Bollom	5.7	0.0	130	17.5		7.8		32.5	02.0		00.0	7.8		5.6		<2			
					Surface	1.0	0.0	102	17.6	17.6	7.8	7.8	32.3	32.3	100.1 100.0	100.1	7.9		1.7	_	<2			
						1.0	0.0	106	17.6		7.8		32.3				7.9	7.9	1.8	-	<2			
IM2	Cloudy	Moderate	09:36	7.2	Middle	3.6	0.1	99	17.6	17.6	7.8	7.8	32.4	32.4	99.7 99.6	99.7	7.8		2.4	2.5	<2	<2	819192	806232
						3.6	0.0	105	17.6		7.8		32.5				7.8		2.6	-	<2			
					Bottom	6.2 6.2	0.0	130 132	17.6 17.6	17.6	7.8	7.8	32.5 32.5	32.5	99.4 99.5	99.5	7.8 7.8	7.8	3.2 3.3	-	<2 <2			
						1.0	0.0	132	17.8		7.8		31.2				7.9		0.5	1	<2			
					Surface	1.0	0.1	131	17.8	17.8	7.8	7.8	31.3	31.3	99.7 99.7	99.7	7.9		0.5	1	<2			
						4.1	0.1	131	17.0		7.8		32.1				7.8	7.9	1.1	1	<2			
IM7	Cloudy	Moderate	09:57	8.2	Middle	4.1	0.1	132	17.6	17.7	7.9	7.8	32.1	32.1	99.5 99.6	99.6	7.8		1.2	1.0	<2	2	821359	806826
					Dettern	7.2	0.0	152	17.6	17.6	7.9	7.0	32.2	22.0		100.0	7.9	7.9	1.5	1	2			
					Bottom	7.2	0.0	146	17.6	17.6	7.9	7.9	32.2	32.2	99.9 100.0	100.0	7.9	7.9	1.5	1	2			

DA: Depth-Averaged

Water Quality Monitoring

Water Quality Monitoring Results on 16 February 23 during Mid-Flood Tide

Matrix Cardie Cardie Cardie Cardie Cardie Cord Cord <thcord< th=""> <thcord< th=""> Cord</thcord<></thcord<>	Water Qual	ity Monit	oring Resu	its on		16 February 23	during Mid-	Flood II	de																
Series Control Order		Weather	Sea	Sampling	Water	Sampling Dop	th (m)			Water Te	mperature (°C)	F	рН	Salir	nity (ppt)	DO S				Turbidity	(NTU)				Coordinate HK Grid
Mer Mer Moderate Mer M	Station	Condition	Condition	Time	Depth (m)	Sampling Dep	ui (iii)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA		(Easting)
Med Med Med Add C C C C <td></td> <td></td> <td></td> <td></td> <td></td> <td>Surface</td> <td></td> <td></td> <td></td> <td></td> <td>18.2</td> <td></td> <td>7.9</td> <td></td> <td>30.5</td> <td></td> <td>103.2</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						Surface					18.2		7.9		30.5		103.2								
Image: biase integra Image: bi	IM10	Misty	Moderate	11:12	8.4	Middle	4.2	0.1	121	18.2	18.2	8.0	8.0	30.6	30.6	104.0	104.2	8.2	8.2	1.1	1.2	<2	2	822223	809853
Mail Mail <th< td=""><td></td><td></td><td></td><td></td><td></td><td>Bottom</td><td>7.4</td><td>0.1</td><td>138</td><td>18.2</td><td>18.2</td><td>8.0</td><td>8.0</td><td>30.6</td><td>30.6</td><td>105.2</td><td>105.6</td><td>8.3</td><td>8.3</td><td>1.6</td><td></td><td><2</td><td></td><td></td><td></td></th<>						Bottom	7.4	0.1	138	18.2	18.2	8.0	8.0	30.6	30.6	105.2	105.6	8.3	8.3	1.6		<2			
M11 May Age Age <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>_</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>																_									
M11 Mais Modesite 110 7.4 Made 3.7 0.1 100 18.1 10.1 20 30.1 30.1 30.2 30.1 30.1 30.2 30.1 30.1 30.2 10.1 20 10.1 20 10.1 20 10.1 20 10.1 20 10.1 20 10.1 20 10.1 20 10.1 <						Surface					18.1		8.0		30.5		103.1		0.0		_				
Image: bord bord bord bord bord bord bord bord	IM11	Misty	Moderate	11:05	7.4	Middle					18.1		8.0		30.6		104.0		8.2		1.5		3	821482	810562
Image: book of the section o						Bottom	6.4	0.1	103	18.1	18.1	8.0	8.0	30.6	30.6	105.1	105.5	8.3	8.3	2.1		2			
Image: base with the section of the section											-														
Misy Misy Misy Miss Miss <th< td=""><td></td><td></td><td></td><td></td><td></td><td>Surface</td><td></td><td></td><td></td><td></td><td>18.1</td><td></td><td>8.0</td><td></td><td>30.7</td><td></td><td>103.4</td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td></th<>						Surface					18.1		8.0		30.7		103.4				-				
Image: brain	11440	Minter	Madavata	10.50	7.0	Midullo	3.6	0.1	95	18.1	40.4	8.0	0.0	30.7	20.7	104.0	101.0	8.2	8.Z	1.3	4.0	3	2	001100	011100
Image: bial bial bial bial bial bial bial bial	IIVI 12	iviisty	Moderate	10.59	1.2	Middle	3.6	0.1	101	18.1	10.1	8.0	0.0	30.7	30.7	104.4	104.2	8.2		1.3	1.0	3	3	021109	011490
SR1A Mesy Moderate 10.39 5.0 Surface 1.0 0.0 188 18.2 7.3 7.9 30.3 30.3 100.5 10.6 1.0 2.4						Bottom					18.1		8.0		30.7		105.9		84						
SR1A Maderale 10.0 0.0 10.0						Bottom					10:1	8.0	0.0		00.7	106.3	100.0		0.4						
SR1A Misty Moderate 10.39 5.0 Middle 2.5 0.0 175 . <						Surface					18.2		7.9		30.3		103.7								
SR1A Misty Modelate 10.59 5.0 Midule 2.5 0.0 181 1.0 7.9 7.9 7.9 30.4 <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>8.2</td><td></td><td>-</td><td></td><td></td><td></td><td></td></th<>																			8.2		-				
Image: bolic	SR1A	Misty	Moderate	10:39	5.0	Middle					-		-				-				1.1		<2	819983	812655
SR2 Misty Moderate 10.28 4.4 10 0.1 42 18.2 7.9 7.9 30.7 30.7 10.36 10.37 8.1 8.2 17.6 10.38 10.7 8.1 8.2 1.6 10.38 1.7 8.2 1.7 8.2 1.7 8.2 1.7 8.2 1.6 1.7 8.2 1.7 8.2 1.7 8.2 1.7 8.2 1.7 8.2 1.7 8.2 1.7 8.2 1.7 8.2 1.7 8.2 1.7 <th1.7< th=""> 1.7 <th1.7< th=""> <th1.7< th=""> <th1.7< th=""></th1.7<></th1.7<></th1.7<></th1.7<>						Bottom					18.2		7.9		30.2		105.6		8.3						
SR2 Misty Moderate 10.28 4.4 Middle 1 0 1 3 1 1 10.3																									
SR2 Misty Moderate 10:28 4.4 Middle - 0.0 46 - <th< td=""><td></td><td></td><td></td><td></td><td></td><td>Surface</td><td></td><td></td><td></td><td></td><td>18.2</td><td></td><td>7.9</td><td></td><td>30.7</td><td>103.6</td><td>103.7</td><td></td><td></td><td></td><td>-</td><td></td><td></td><td></td><td></td></th<>						Surface					18.2		7.9		30.7	103.6	103.7				-				
SR2 Misty Moderate 10:28 4.4 Middle - 0.1 39 - <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>8.2</td><td></td><td>-</td><td>-</td><td></td><td></td><td></td></th<>																			8.2		-	-			
Image: cond bin bin bin bin bin bin bin bin bin bin	SR2	Misty	Moderate	10:28	4.4	Middle					-		-		-		-				2.1		2	821459	814169
Key Key <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td>																					-				
SR3 Loop Moderate 10:0 9.2 Surface 1.0 0.1 151 17.8 7.8 7.8 31.1 31.1 101.2 10.2 8.0						Bottom					18.2		7.9		30.7		104.2		8.2		-				
SR3 Cloudy Moderate 10:0 9.2 Surface 1.0 0.1 150 17.8 17.8 7.8 7.8 31.1 31.1 101.2 10.2 8.0 8.0 10.2 10.2 8.0 8.0 10.2 10.2 8.0 8.0 10.2 10.2 8.0 8.0 10.2 10.2 8.0 8.0 10.2 10.2 8.0 8.0 10.2 10.2 10.2 8.0 8.0 8.0 8.0 10.2 10.2 8.0<																									
SR3 Cloudy Moderate 10:04 9.2 Middle 4.6 0.0 156 17.6 17.6 7.8 7.8 31.8 31.8 101.5 101.6 8.0 1.2 1.2 3.3 3.3 101.5 101.6 8.0 1.2 1.3 3.3 1.3 101.5 101.6 8.0 1.2 1.3 3.3 1.3 101.5 101.6 8.0 1.2 1.3 3.3 1.3 101.5 101.6 8.0 1.2 1.3 3.3 1.						Surface					17.8		7.8		31.1		101.2		• •						
SR4 Moderate Mode	CD2	Cloudy	Modorato	10:04	0.2	Middle	4.6	0.0	156	17.6	17.6	7.8	7 0	31.8	21.0	101.5	101 5		8.0		10	2	2	000105	907560
SR4 Moderate 0 Surface 1.0 0.0 302 17.6 7.8 7.8 32.1 32.1 101.8 101.8 101.8 0.0 2.1 4 4 0 SR4A 0.0 302 17.6 17.6 7.9 7.9 31.4 31.4 100.1 100.1 7.9 7.9 10.0 100.1 100.1 7.9 7.9 10.0 100.1 100.1 100.1 100.1 7.9 7.9 11.0 0.0 302 17.6 17.6 7.8 31.9 31.4 100.1 100.1 100.1 7.9 7.9 11.0 2.2 2	383	Cloudy	wouerate	10.04	9.2	Middle	4.6	0.1	150	17.6	17.0	7.8	1.0	31.9	31.0	101.5	101.5	8.0		1.3	1.2	3	3	022133	607569
SR4A Observe O						Bottom					17.6		78		32.1		101.8		8.0						
SR4A Cloudy Moderate 08:37 Sase Surface 1.0 0.0 302 17.6 7.9 7.9 31.4 31.4 100.1 100.1 7.9 7.9 31.4 31.4 100.1 100.1 7.9 7.9 31.4 31.4 100.1 100.1 7.9 7.9 31.4 31.4 100.1 100.1 7.9 7.9 31.4 31.4 100.1 100.1 7.9 7.9 31.4 31.9						Bottom				ţ	11.0		1.0	_	02.1		101.0		0.0						
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $						Surface					17.6		7.9		31.4	100.1	100.1				_				
SR4A Cloudy Moderate 08:37 8.8 Middle 4.4 0.0 310 17.6 7.8 7.8 31.9 99.7 7.9 3.5 6.0 <2 2 81788 8078 Bottom 7.8 0.1 320 17.6 7.8 7.8 7.8 31.9 99.7 7.9 7.9 3.5 6.0 <2 3 3 3 99.8 99.8 99.8 99.8 99.8 7.9 7.9 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 7.9 7.9 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 7.9 7.9 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 7.9 7.9 7.9 3.6 3.6 3.6 3.6 3.6 7.9 7.9 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td>-</td><td></td><td></td><td></td><td>7.9</td><td></td><td></td><td></td><td></td><td></td><td></td></th<>													-		-				7.9						
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	SR4A	Cloudy	Moderate	08:37	8.8	Middle					17.6		7.8		31.9		99.7				6.0		2	817185	807832
SR8 Misty Moderate 10:55 4.8 Surface 1.0 - - 18.2 18.2 8.0 30.6 30.6 10.4.2 8.2 8.2 1.3 - <																					-				
$ SR8 Misty Moderate 10:55 4.8 \frac{Surface}{1.0} - \frac{1.0}{-} - \frac{18.2}{-} - \frac{18.2}{-} - \frac{8.0}{-} - \frac{30.6}{-} - \frac{30.6}{-} - \frac{104.2}{-} - \frac{104.2}{-} - \frac{1.3}{-}						Bottom					17.6		7.8		31.9		99.8		7.9						
$\begin{array}{c c c c c c c c c c c c c c c c c c c $						Surface					18.2		8.0		30.6		104.2								
SR8 Misty Moderate 10:55 4.8 Middle -										1 1		8.0							8.2		4				
Bottom 3.8 18.1 18.1 8.0 8.0 30.5 30.6 105.3 105.5 8.3 8.3 2.1 <2	SR8	Misty	Moderate	10:55	4.8	Middle					-	-	-		-		-				1.7		<2	820371	811600
						Detters					40.4	8.0		30.5	00.0		405 5	8.3	0.0		1				
3.8 18.1 8.0 30.6 55 105.6 8.3 5 2.1 <2						Bottom	3.8	-	-	18.1	18.1	8.0	8.0	30.6	30.6	105.6	105.5	8.3	8.3	2.1	1	<2			

DA: Depth-Averaged

Water Quality Monitoring Results on 18 February 23 during Mid-Ebb Tide

Water Qual	ity Monit	oring Resu	Its on		18 February 23	during Mid-	Ebb lide)																
Monitoring	Weather	Sea	Sampling	Water	Sampling De	oth (m)	Current Speed	Current	Water Te	emperature (°C)		pН	Salin	ity (ppt)		aturation (%)	Disso Oxyo		Turbidity	/(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling De	pui (iii)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.5	N/A	17.9	17.9	7.9	7.9	31.6	31.7	99.2	99.1	7.8		5.7		5			
					Sunace	1.0	0.5	N/A	17.9	17.9	7.9	1.5	31.7	51.7	98.9	33.1	7.8	7.8	6.2		6			
C1	Fine	Moderate	23:46	8.5	Middle	4.3	0.6	N/A	17.8	17.8	7.9	7.9	32.1	32.1	98.6 98.7	98.7	7.7	1.0	9.5	8.4	6	5	815634	804254
01	1 1110	woderate	20.40	0.0	Wilddie	4.3	0.6	N/A	17.8	17.0	7.9	1.5	32.1	52.1	98.7	30.7	7.7		9.5	0.4	4	5	013034	004234
					Bottom	7.5	0.5	N/A	17.8	17.8	7.9 7.9	7.9	32.0	32.0	99.7	99.9	7.8	7.8	9.7		6			
					Dottom	7.5	0.5	N/A	17.8	17.0		1.5	32.0	52.0	100.0	33.3	7.8	7.0	9.8		5			
					Surface	1.0	0.4	164	18.0	18.0	7.9 7.9	7.9	31.2	31.2	99.1 99.1	99.1	7.8		2.2		3			
					Odiface	1.0	0.4	165	18.0	10.0	7.9	1.5	31.3	51.2	99.1	33.1	7.8	7.8	2.5		3			
C2	Fine	Moderate	22:36	11.1	Middle	5.6	0.3	187	17.9	17.9	7.9	7.9	31.9	32.0	99.0	99.0	7.8	7.0	3.8	3.4	6	3	825686	806933
02	1 110	moderate	22.00		Middle	5.6	0.4	184	17.9	17.5	7.9	7.5	32.0	02.0	98.9	00.0	7.8		3.9	0.4	2	0	020000	000000
					Bottom	10.1	0.4	166	17.9	17.9	7.9 7.9	7.9	32.0	32.0	98.5	98.5	7.7	7.7	4.0		3			
					Dottom	10.1	0.3	160	17.9	17.5		1.5	32.0	02.0	98.4	00.0	7.7	1.1	3.9		2			
					Surface	1.0	0.5	89	18.4	18.4	8.0	8.0	31.4	31.4	96.9	96.9	7.6		1.1		4			
					Guildoe	1.0	0.5	81	18.3	10.4	8.0	0.0	31.4	01.4	96.8	00.0	7.6	7.6	1.1		3			
C3	Fine	Calm	23:24	11.0	Middle	5.5	0.5	89	18.3	18.3	8.0	8.0	31.4	31.4	96.7	96.7	7.5	1.0	1.2	1.4	2	3	822124	817803
05	1 1110	Califi	20.24	11.0	Wilddie	5.5	0.4	96	18.3	10.5	8.0	0.0	31.4	51.4	96.7	30.7	7.6		1.2	1.4	3	5	022124	017003
					Bottom	10.0	0.4	92	18.2	18.3	8.0 8.0	8.0	31.4	31.4	96.8	96.9	7.6	7.6	1.8		2			
					Bottom	10.0	0.5	96	18.3	10.0		0.0	31.4	01.4	96.9	00.0	7.6	1.0	1.9		2			
					Surface	1.0	0.3	180	17.9	17.9	7.9 7.9	7.9	31.9	31.9	101.7	101.7	8.0		4.1		3			
					Ganado	1.0	0.2	181	17.9				32.0	01.0	101.7		8.0	7.9	4.1		3			
IM1	Fine	Moderate	23:22	6.0	Middle	3.0	0.3	173	17.8	17.8	7.9 7.9	7.9	32.3	32.3	98.6	98.7	7.7		3.9	5.4	4	4	818353	806478
						3.0	0.2	175	17.8	-		-	32.3		98.7		7.7		4.0	-	4			
					Bottom	5.0	0.3	202	17.7	17.7	7.7	7.7	32.4	32.4	99.0	99.1	7.8	7.8	8.2		4			
						5.0	0.3	207	17.7		7.7		32.4	-	99.2		7.8	-	8.0		4			
					Surface	1.0	0.3	187	18.0	18.0	7.9 7.9	7.9	31.8	31.8	100.1	100.0	7.8	_	4.4		5			
						1.0	0.3	181	18.0				31.8		99.8		7.8	7.8	4.4	_	2			
IM2	Fine	Moderate	23:17	6.5	Middle	3.3	0.3	188	17.8	17.8	7.9	7.9	32.2	32.2	98.1	98.1	7.7		5.6	6.0	4	4	819162	806256
						3.3	0.3	182	17.8	-	7.9	-	32.2	-	98.0		7.7		5.8		3			
					Bottom	5.5	0.3	209	17.8	17.8	7.8	7.8	32.4	32.4	98.8	98.9	7.7	7.8	7.7		5			
						5.5	0.3	208	17.8	-	7.8	-	32.4	-	98.9		7.8	-	8.0		4			
					Surface	1.0	0.3	169	18.0	18.0	7.9	7.9	31.6	31.6	98.6	98.6	7.7	-	2.5	4	2			
						1.0	0.2	166	18.0		7.9		31.7		98.5		7.7	7.7	2.6	4	2			
IM7	Fine	Moderate	23:01	8.3	Middle	4.2	0.3	171	17.9	17.9	7.8	7.8	32.2	32.2	98.6	98.7	7.7	-	3.0	2.8	2	2	821346	806822
						4.2	0.2	168	17.9		7.8		32.2		98.8		7.7		3.0	4	2			
					Bottom	7.3	0.3	176	17.9	17.9	7.8	7.8	32.2	32.2	99.1	99.2	7.8	7.8	2.9	4	2			
						7.3	0.3	182	17.9		7.8		32.2		99.3		7.8	-	2.9		2			

DA: Depth-Averaged

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

Water Quality Monitoring Results on 18 February 23 during Mid-Ebb Tide

Water Qual	ity Monite	oring Resu	Its on		18 February 23	during Mid-	Ebb lide	<u>} </u>																
Monitoring	Weather	Sea	Sampling	Water	Sampling De	oth (m)	Current Speed	Current	Water T	emperature (°C)		pН	Salin	nity (ppt)	DO S	aturation (%)	Disso Oxy		Turbidity	(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling De	501 (III)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.3	105	18.5	18.6	8.0	8.0	30.7	30.7	98.2	98.2	7.7		1.2		3			
					Cullabo	1.0	0.3	98	18.6	1010	8.0	0.0	30.7	00.1	98.1	00.2	7.6	7.6	1.1		2			
IM10	Fine	Calm	22:20	10.0	Middle	5.0	0.3	112	18.6	18.6	8.0	8.0	30.9	30.9	98.0	98.0	7.6		1.6	1.7	4	3	822250	809823
						5.0	0.4	117	18.6		8.0		30.9		98.0		7.6		1.8	-	5			
					Bottom	9.0	0.4	114 114	18.6 18.6	18.6	8.0 8.0	8.0	30.9 30.9	30.9	98.1 98.1	98.1	7.6 7.6	7.6	2.1 2.1	-	2			
						1.0	0.4	98	18.5		8.0		30.9		98.4		7.7		1.2		4			
					Surface	1.0	0.4	92	18.4	18.5	8.0	8.0	30.7	30.7	98.2	98.3	7.7		1.3		5			
	F 1	Quiter	00.00		NAL-JUL-	4.7	0.4	93	18.4	40.4	8.0		31.0	01.0	97.7	07.0	7.6	7.7	1.7		3		004 477	040500
IM11	Fine	Calm	22:28	9.4	Middle	4.7	0.4	88	18.4	18.4	8.0	8.0	31.1	31.0	97.5	97.6	7.6		1.8	1.6	3	3	821477	810560
					Bottom	8.4	0.5	77	18.5	18.6	8.0	8.0	31.0	31.0	97.3	97.3	7.6	7.6	1.9		2			
					Bottom	8.4	0.5	73	18.6	10.0	8.0	0.0	30.9	51.0	97.3	51.5	7.6	7.0	1.9		2			
					Surface	1.0	0.5	86	18.4	18.4	8.0	8.0	30.7	30.8	98.2	98.1	7.7		1.0	_	2			
						1.0	0.5	81	18.4	-	8.0		30.9		98.0		7.7	7.7	1.0	_	3			
IM12	Fine	Calm	22:34	8.4	Middle	4.2	0.4	79	18.4	18.4	8.0 8.0	8.0	31.1	31.1	97.8 97.9	97.9	7.6 7.6		1.7	1.6	2	3	821138	811504
						7.4	0.5	73 100	18.4 18.7		8.0		31.0 30.8				7.6		1.7 2.0	-	3			
					Bottom	7.4	0.4	100	18.8	18.8	8.0	8.0	30.8	30.7	99.0 99.2	99.1	7.7	7.7	2.0	-	2			
						1.0	0.0	76	18.6		8.0		31.2		98.2		7.6		1.8		2			
					Surface	1.0	0.0	68	18.6	18.6	8.0	8.0	31.2	31.2	98.2	98.2	7.6		1.9		2			
SR1A	Fine	Calm	22.50		Middle	2.2	0.0	67	-		-		-		-		-	7.6	-	4.0	-	0	819974	812653
SKIA	Fine	Calm	22:50	4.4	IVIIdale	2.2	0.0	65	-	-	-	-	-	-	-	-	-		-	1.9	-	2	819974	812003
					Bottom	3.4	0.0	78	18.5	18.5	8.0	8.0	31.2	31.2	98.3	98.3	7.6	7.6	2.0		2			
				-	Dottom	3.4	0.1	71	18.5	10.0	8.0	0.0	31.2	01.2	98.3	00.0	7.6	7.0	2.1		2			
					Surface	1.0	0.6	32	18.4	18.4	8.0	8.0	31.2	31.2	98.3	98.2	7.7		1.1	-	<2			
						1.0	0.6	31	18.4		8.0		31.2		98.1		7.6	7.7	1.1	_	<2			
SR2	Fine	Calm	23:07	5.6	Middle	-	0.5 0.5	38 43	-	-	-		-	-	-	-	-		-	1.2	-	2	821447	814172
						- 4.6	0.5	43 25	- 18.4		8.0	-	- 31.2		97.9		- 7.6		- 1.3	-	2			
					Bottom	4.6	0.6	31	18.4	18.4	8.0	8.0	31.2	31.2	97.9	97.9	7.6	7.6	1.3	-	2			
						1.0	0.4	144	17.9		7.9		31.3		98.6		7.7		2.3		4			
					Surface	1.0	0.4	144	17.9	17.9	7.9	7.9	31.5	31.4	98.6	98.6	7.7		2.5		4			
SR3	F 1	Madamata	00.50		N 41 - J - JI -	4.7	0.4	171	17.9	17.9	7.9	7.0	31.7	04.7	98.3	98.3	7.7	7.7	2.8		3		000457	007540
SK3	Fine	Moderate	22:50	9.4	Middle	4.7	0.4	166	17.9	17.9	7.9	7.9	31.7	31.7	98.2	98.3	7.7		2.7	2.5	4	3	822157	807549
					Bottom	8.4	0.4	171	18.0	18.0	7.9	7.9	31.4	31.3	98.1	98.1	7.7	7.7	2.3		2			
				-	Bottom	8.4	0.4	164	18.0	10.0	7.9	1.5	31.3	51.5	98.1	30.1	7.7	7.7	2.1		3			
					Surface	1.0	0.0	356	18.3	18.3	7.9	7.9	31.7	31.7	103.5	103.4	8.1		4.0	_	6			
						1.0	0.1	356	18.3		7.9		31.7	-	103.2		8.0	8.0	4.1	_	5			
SR4A	Fine	Moderate	00:13	8.3	Middle	4.2	0.0	21	18.0	18.0	7.9	7.9	32.0	32.0	100.5	100.5	7.9 7.9		5.7	5.4	6	6	817194	807828
						4.2	0.0	21 2	18.0		7.9		32.0						5.7	-	6			
					Bottom	7.3	0.1	2	17.9 17.9	17.9	7.8 7.8	7.8	32.1 32.1	32.1	100.4	100.5	7.9 7.9	7.9	6.3 6.3	1	5			
				1		1.0	-	-	18.9	1	8.0		30.6		97.7		7.6		1.1	1	4			
					Surface	1.0	-	-	19.0	19.0	8.0	8.0	30.7	30.7	97.6	97.7	7.5		1.1	1	3			
600	Fine	Calm	22.20	4.6	Middle	-	-	-	-		-		-		-		-	7.6	-	4.0	-	4	000004	044005
SR8	Fine	Calm	22:39	4.6	Middle	-	-	-	-	1 -	-	1 -	-	1 -	-		-	1	-	1.2	-	4	820394	811625
					Bottom	3.6	-	-	19.1	19.2	8.0	8.0	30.6	30.5	97.4	97.4	7.5	7.5	1.3]	4			
					Dottom	3.6	-	-	19.2	10.2	8.0	0.0	30.4	00.0	97.4	57.4	7.5	7.0	1.4		3			

Water Quality Monitoring Water Quality Monitoring Results on

18 February 23 during Mid-Flood Tide

Water Qual	ity wonite	bring Resul	its on		18 February 23	during Mid-	F1000 I I	ae															
Monitoring	Weather	Sea	Sampling	Water	Sampling Dept	h (m)	Current Speed	Current	Water Te	emperature (°C)	pН	Sa	linity (ppt)		aturation (%)	Disso Oxy		Turbidity	/(NTU)	Suspender (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dept	n (m)	(m/s)	Direction	Value	Average	Value Averag	e Valu	e Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					o /	1.0	0.4	21	17.9	17.0	7.9 7.0	31.7		99.6		7.8		4.6	1	4			
					Surface	1.0	0.4	14	17.9	17.9	7.9 7.9	31.7	- 317	99.3	99.5	7.8		4.8		4			
	-	•• • •				4.2	0.4	40	17.8	17.0	7.9 7.0	32.1		97.9		7.7	7.8	5.7		3			
C1	Fine	Moderate	07:11	8.3	Middle	4.2	0.4	38	17.8	17.8	7.9 7.9	32.1		97.9	97.9	7.7		5.6	5.6	4	3	815615	804224
					5.4	7.3	0.4	14	17.8	17.0	7.9 7.0	32.2		97.4		7.6	= 0	6.4		2			
					Bottom	7.3	0.4	17	17.8	17.8	7.9 7.9	32.2		97.4 97.5	97.5	7.6	7.6	6.4		3			
					0	1.0	0.4	338	18.2	10.0	7.9 7.0	30.5	00.5	98.8	00.0	7.8		1.8		4			
					Surface	1.0	0.4	344	18.2	18.2	7.9 7.9	30.5		98.8 98.8	98.8	7.8	7.8	2.0	1	2			
C2	Fine	Moderate	08:30	11.4	Middle	5.7	0.3	342	17.9	17.9	7.9 7.9	31.9	31.9	98.5	98.5	7.7	1.0	3.9	4.4	2	3	825679	806938
02	1 IIIe	Moderate	00.30	11.4	WILCOLE	5.7	0.4	335	17.9	17.5	7.9	31.9	1 31.9	98.4	90.5	7.7		4.0	4.4	3	5	023079	000930
					Bottom	10.4	0.4	352	17.9	17.9	7.9 7.9	31.8		98.2 98.3	98.3	7.7	7.7	7.5		2			
					Dottom	10.4	0.4	348	17.9	17.5	7.9	31.7			30.5	7.7	1.1	7.5		2			
					Surface	1.0	0.5	251	18.4	18.4	8.1 8.1	31.4		98.2 98.2	98.2	7.7		0.9		3			
					Guilado	1.0	0.5	252	18.4		8.1	31.4			00.2	7.7	7.7	0.9	1	2			
C3	Misty	Calm	07:01	11.2	Middle	5.6	0.5	256	18.3	18.3	8.1 8.1	31.4		97.6	97.6	7.6		1.5	1.3	2	2	822107	817808
	-					5.6	0.6	261	18.3		8.1	31.4		97.6		7.6		1.5	_	2			
					Bottom	10.2	0.5	266	18.3	18.3	8.1 8.1	31.4		97.6 97.6	97.6	7.6	7.6	1.5	-	3			
						10.2	0.5	269	18.3		8.1	31.4				7.6		1.5		2			
					Surface	1.0 1.0	0.3	19 11	18.0 17.9	18.0	7.9 7.9	31.7		100.3	100.2	7.9 7.8		3.6 3.6	-	4 5			
						3.3	0.3	356	17.9		7.0	32.1		97.7		7.7	7.8	5.2	-	3			
IM1	Fine	Moderate	07:34	6.5	Middle	3.3	0.3	351	17.8	17.8	7.9 7.9	32.1		97.6	97.7	7.7		5.4	5.1	3	4	818370	806453
						5.5	0.3	7	17.8		79	32.2	,			7.7		6.5	-	5			
					Bottom	5.5	0.3	1	17.8	17.8	7.9 7.9	32.2		98.0 98.1	98.1	7.7	7.7	6.5		6			
					Queferre	1.0	0.3	3	17.8	17.0	70	31.9			00.7	7.8		3.7	i –	5			
					Surface	1.0	0.3	0	17.8	17.8	7.9 7.9	31.9		98.8 98.6	98.7	7.7	7.7	3.8	1	5			
IM2	Fina	Modoroto	07:20	6.6	Middle	3.3	0.2	22	17.8	17.8	7.9 7.9	32.2		97.2	97.2	7.6	1.1	6.3	6.4	6	5	910104	806243
IIVI∠	Fine	Moderate	07:38	6.6	IVIIGGIE	3.3	0.3	27	17.7	17.8	7.9	32.3	32.3	97.1	97.2	7.6		6.4	0.4	5	э	819191	800243
					Bottom	5.6	0.2	26	17.7	17.7	7.9 7.9	32.4		96.9 96.9	96.9	7.6	7.6	9.2		5			
					Bottom	5.6	0.3	28	17.7	17.7	7.9	32.4			30.3	7.6	1.0	9.0		4			
					Surface	1.0	0.3	14	18.1	18.1	7.9 7.9	31.2		98.8 98.8	98.8	7.8		1.8		3			
					Gundoo	1.0	0.3	14	18.0	10.1	7.9	31.3			00.0	7.8	7.8	1.9	1	4			
IM7	Fine	Moderate	07:58	8.3	Middle	4.2	0.2	352	17.9	17.9	7.9 7.9	32.1		98.4 98.5	98.5	7.7		3.0	2.6	3	3	821363	806851
						4.2	0.2	352	17.9		7.9	32.1				7.7		3.0	-	2	-		
					Bottom	7.3	0.2	349	17.9	17.9	7.8 7.8	32.1		99.0 99.1	99.1	7.8	7.8	2.9	4	3			
						7.3	0.2	354	17.9		7.8	32.1		99.1		7.8		2.9		2			

DA: Depth-Averaged

Water Quality Monitoring

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

Water Qua	ity Monit	oring Resu	lts on		18 February 23	during Mid-	Flood Ti	de																
Monitoring	Weather	Sea	Sampling	Water	Sampling Dep	th (m)	Current Speed	Current	Water Te	emperature (°C)		pН	Salin	nity (ppt)		aturation (%)	Disso Oxy		Turbidity	(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Gamping Dep	ur (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.3	302	18.4	18.4	8.0	8.0	31.1	31.1	96.9	96.9	7.6		1.1		3			
					Gunace	1.0	0.3	296	18.4	10.4	8.0	0.0	31.1	51.1	96.8	30.3	7.6	7.6	1.1		2			
IM10	Misty	Calm	08:08	8.4	Middle	4.2	0.4	288	18.5	18.6	8.0	8.0	31.0	31.0	96.8	96.8	7.5	1.0	1.3	1.7	3	3	822227	809858
						4.2	0.4	294	18.6		8.0		30.9		96.8		7.5		1.3		2	-		
					Bottom	7.4	0.3	316	18.8	18.8	8.0	8.0	30.8	30.7	96.9	97.0	7.5	7.5	2.7		3			
						7.4	0.4	320	18.8		8.0		30.7		97.0		7.5	-	2.7		3			
					Surface	1.0	0.5	269	18.5	18.5	8.0	8.0	30.8	30.8	98.5	98.4	7.7		1.1		3			
						1.0	0.5	274	18.5		8.0		30.8		98.2		7.7	7.6	1.1		2			
IM11	Misty	Calm	08:00	7.4	Middle	3.7	0.5	282	18.5	18.6	8.0	8.0	30.8	30.8	98.0	97.4	7.6		1.2	1.2	4	3	821501	810557
						3.7	0.4	288	18.7		8.0		30.8		96.8		7.5		1.1		3			
					Bottom	6.4 6.4	0.4	291	18.7	18.8	8.0 8.0	8.0	30.8 30.8	30.8	96.5 96.2	96.4	7.5 7.5	7.5	1.2		3			
							0.4	284	18.9										1.2					
					Surface	1.0	0.5	294	18.6	18.6	8.0	8.0	30.9	30.9	98.1	98.0	7.6		1.0		3			
						1.0	0.5	291	18.6		8.0		30.9		97.8		7.6	7.6	1.0		3			
IM12	Misty	Calm	07:55	7.0	Middle	3.5	0.5	267	18.6	18.7	8.0	8.0	31.0	30.9	97.2	97.1	7.6		1.1	1.1	2	2	821185	811533
						3.5	0.5	269	18.7		8.0		30.9		96.9		7.5		1.1		2			
					Bottom	6.0 6.0	0.5	281	18.8 18.8	18.8	8.0 8.0	8.0	30.8 30.7	30.7	96.2 96.0	96.1	7.5 7.4	7.5	1.1 1.1		2			
								280													2			
					Surface	1.0	0.0	191	18.4	18.4	8.0	8.0	31.1	31.1	96.2	96.2	7.5		1.1		2			
						1.0	0.1	186	18.4		8.0		31.1		96.2		7.5	7.5	1.1		2			
SR1A	Misty	Calm	07:34	5.2	Middle	2.6	0.0	204	-	-	-	-	-		-	-	-		-	1.2	-	2	819982	812659
						2.6	0.0	200	-		-		-		-		-		-		-			
					Bottom	4.2	0.0	178	18.5	18.6	8.0	8.0	31.0	30.9	95.7	95.3	7.5	7.5	1.2		<2			
						4.2	0.0	181	18.6		8.0		30.7		94.9		7.4		1.2		<2			
					Surface	1.0	0.0	255	18.4 18.4	18.4	8.1	8.1	31.4 31.4	31.4	98.2	98.2	7.7		0.9		<2			
						1.0	0.1	253	-		8.1				98.2		7.7	7.7	0.9		<2			
SR2	Misty	Calm	07:21	4.8	Middle	-	0.1	252 247	-	-	-	-	-		-	-	-		-	1.0	-	<2	821474	814182
						- 3.8	0.1	263	- 18.4				_				-		-	-	- <2			
					Bottom	3.8	0.1	263	18.4	18.4	8.1 8.1	8.1	31.4 31.4	31.4	98.1 98.1	98.1	7.6 7.6	7.6	1.0 1.0		<2			
						1.0	0.1	3	18.4				-						2.4		<2			
					Surface	1.0	0.3	7	18.0	18.0	7.9 7.9	7.9	30.9 31.1	31.0	99.2 99.2	99.2	7.8 7.8		2.4	-	3			
						4.6	0.3	347	18.0								7.8	7.8	4.2	-	3 <2			
SR3	Fine	Moderate	08:03	9.2	Middle	4.6	0.3	351	17.9	17.9	7.9 7.9	7.9	31.8 31.9	31.8	99.6 99.6	99.6	7.8		4.2	3.8	<2	2	822169	807569
						8.2	0.3	351	17.9				31.9				7.8		4.4	-	<2			
					Bottom	8.2	0.4	344	17.9	17.9	7.8	7.8	31.9	31.9	99.6 99.6	99.6	7.8	7.8	4.7	-	<2			
						1.0	0.4	250	17.9		_								4.7		<2			
					Surface	1.0	0.0	250	17.9	18.0	7.9 7.9	7.9	31.6 31.6	31.6	100.8 100.7	100.8	7.9 7.9		4.0	-	<2			
						4.3	-	232	17.9								7.9	7.9		-				
SR4A	Fine	Moderate	06:44	8.6	Middle	4.3	- 0.0	247	17.9	17.9	7.8 7.8	7.8	31.7 31.7	31.7	99.7 99.7	99.7	7.8		5.1 5.1	5.4	3 4	3	817209	807826
						7.6	0.0	242													4 3			
					Bottom	7.6	0.0	217	17.8 17.8	17.8	7.9	7.9	31.7 31.7	31.7	98.6 98.6	98.6	7.8 7.8	7.8	6.4 6.5	-	3			
						1.0			17.8			1				1	7.8							
					Surface	1.0	-	-	18.6	18.7	8.0 8.0	8.0	31.0 31.0	31.0	96.6 96.4	96.5	7.5		1.8 1.8	-	2			
									-					<u> </u>			7.5	7.5		-				
SR8	Misty	Calm	07:50	4.6	Middle	-	-	-	-	-	-		-	-	-	-	-		-	1.9	-	2	820371	811604
						3.6	-		- 18.8		8.0		30.7	<u> </u>	96.2		7.5		2.0	-	- 3			
					Bottom	3.6	-	-	18.8	18.8	8.0 8.0	8.0	30.7	30.5	96.2 96.2	96.2	7.5 7.5	7.5	2.0	-	2			
			1		1	3.0	-		10.0		0.U	1	JU.J	1	90.Z	1	C.1		∠.0		۷			

DA: Depth-Averaged

Water Quality Monitoring Results on 21 February 23 during Mid-Ebb Tide

Water Qua	lity Mohit	oring Resu	lits on		21 February 23	during Mid-																		
Monitoring	Weather	Sea	Sampling	Water	Sampling Dep	th (m)	Current Speed	Current	Water Te	emperature (°C)	F	pН	Salini	ity (ppt)		aturation (%)	Disso Oxyg		Turbidity	y(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dep	ui (iii)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.2	217	18.3	18.3	7.9	7.9	32.4	32.4	96.5	96.5	7.5		10.3		10			
					Surface	1.0	0.2	209	18.3	18.3	7.9	7.9	32.4	32.4	96.4	96.5	7 5	7.5	10.3		9			
61	Cloudy	Madarata	13:44	0.7	Middle	4.4	0.2	217	18.2	18.2	7.9	7.9	32.5	32.5	95.9	95.9	7.5	7.5	11.9	11.4	9	10	815603	804253
C1	Cloudy	Moderate	13:44	8.7	Widdle	4.4	0.2	222	18.2	18.2	7.9	7.9	32.5	32.5	95.9	95.9	7.5		11.2	11.4	9	10	815603	804253
					Bottom	7.7	0.2	190	18.2	18.2	7.8	7.8	32.5	32.5	96.5	96.5	7.5	7.5	12.3		10			
					Bollom	7.7	0.2	189	18.2	18.2	7.8 7.8	7.8	32.5	32.5	96.5 96.5	96.5	7.5	7.5	12.7		10			
					Surface	1.0	0.0	131	18.5	18.5	7.6	7.6	30.1	30.2	96.0	96.0	7.5		2.5		4			
					Sullace	1.0	0.0	136	18.5	10.5	7.6	7.0	30.2	30.2	96.0	90.0	7.5	7.5	2.6		4			
C2	Cloudy	Moderate	12:33	11.4	Middle	5.7	0.0	139	18.4	18.4	7.6	7.6	30.8	30.8	96.1	96.1	7.5	7.5	6.3	5.6	4	4	825680	806935
02	Cloudy	woderate	12.55	11.4	Widdle	5.7	0.1	137	18.4	10.4	7.6	7.0	30.8	30.8	96.1	90.1	7.5	E E	6.4	5.0	3	4	023060	606935
					Bottom	10.4	0.0	120	18.4	18.4	7.6	7.6	30.8	30.8	96.7 96.8	96.8	7.6	7.6	7.7		5			
					Bollom	10.4	0.0	114	18.4	10.4	7.6	7.0	30.8	30.8	96.8	90.0	7.6	7.0	7.9		6			
					Surface	1.0	0.3	95	18.8	18.8	8.0	8.0	31.1	31.1	97.3	97.4	7.5		1.1		3			
					Sunace	1.0	0.3	94	18.8	10.0	8.0	0.0	31.1	31.1	97.5	97.4	7.6	7.6	1.0		4			
C3	Misty	Moderate	13:44	10.6	Middle	5.3	0.3	78	18.7	18.7	8.0	8.0	31.2	31.2	97.7	97.7	7.6	7.0	1.1	1.4	4	4	822114	817818
03	iviisty	woderate	13.44	10.6	WILCOLE	5.3	0.3	79	18.7	10.7	8.0	0.0	31.2	31.2	97.7	97.7	7.6	Г	1.2	1.4	4	4	022114	01/010
					Bottom	9.6	0.4	65	18.7	18.8	7.9	7.9	31.1	31.1	98.4 102.1	100.3	7.6	7.8	2.0		4			
					Dollom	9.6	0.4	72	18.8	10.0	7.9	7.5	31.1	31.1	102.1	100.5	7.9	7.0	1.9		3			
					Surface	1.0	0.0	145	18.5	18.5	7.9 7.9	7.9	31.6	31.6	98.0 98.0	98.0	7.6		7.6		11			
					Ounace	1.0	0.0	137	18.5	10.5		1.5	31.6	51.0		30.0	7.6	7.6	7.6		11			
IM1	Cloudy	Moderate	13:21	7.2	Middle	3.6	0.1	166	18.3	18.3	7.9	7.9	31.7	31.7	97.5	97.5	7.6	7.0	8.9	9.9	9	10	818374	806474
	Cloudy	Moderate	10.21	1.2		3.6	0.0	169	18.3	10.0	7.9	1.5	31.7	01.7	97.5	07.0	7.6		9.0	0.0	9	10	010014	000474
					Bottom	6.2	0.1	140	18.2	18.2	7.8	7.8	31.9	31.9	97.7	97.7	7.6	7.6	13.6		8			
					Domoni	6.2	0.1	143	18.2	1012	7.8	1.0	31.9	01.0	97.7	0	7.6		12.5		9			
					Surface	1.0	0.0	119	18.2	18.2	7.9	7.9	31.6	31.6	96.4 96.4	96.4	7.5		10.1		5			
					Cunado	1.0	0.0	113	18.2	1012	7.9		31.6	01.0		00.1	7.5	7.5	10.0		4			
IM2	Cloudy	Moderate	13:18	7.1	Middle	3.6	0.0	119	18.2	18.2	7.9	7.9	31.7	31.7	96.5	96.5	7.5		10.2	10.5	10	8	819170	806258
	cloudy	moderate	10.10			3.6	0.1	115	18.2	1012	7.9		31.7	0	96.5	00.0	7.5		10.2	10.0	10	0	0.01.0	000200
					Bottom	6.1	0.0	119	18.2	18.2	7.8	7.8	31.7	31.7	97.4	97.5	7.6	7.6	11.3		10			
						6.1	0.1	119	18.2		7.8		31.7		97.6		7.6		11.0		11			
					Surface	1.0	0.2	71	18.7	18.7	7.8	7.8	30.3	30.3	97.4 97.3	97.4	7.6	Ļ	2.4	_	5			
						1.0	0.2	64	18.7		7.8		30.3				7.6	7.6	2.5	_	4			
IM7	Cloudy	Moderate	12:57	8.0	Middle	4.0	0.3	90	18.4	18.4	7.8	7.8	30.8	30.8	96.4 96.4	96.4	7.5	-	3.4	3.6	5	4	821358	806842
						4.0	0.2	82	18.4		7.8		30.8				7.5		3.5		3			
					Bottom	7.0	0.2	93	18.3	18.3	7.8	7.8	31.0	31.0	96.2 96.3	96.3	7.5	7.5	4.8	_	4			
						7.0	0.2	92	18.3		7.8		31.0		96.3		7.5		5.0		3			

DA: Depth-Averaged

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

Water Quality Monitoring Results on 21 February 23 during Mid-Ebb Tide

Vater Qual	ity Monite	oring Resu	Its on		21 February 23	during Mid-	Ebb Tide	e																
Monitoring	Weather	Sea	Sampling	Water	Sampling Dep	h (m)	Current Speed	Current	Water Te	emperature (°C)		pН	Salin	nity (ppt)		aturation (%)	Dissol Oxyg		Turbidity	(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dep		(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.1	47	18.8	18.8	8.0	8.0	30.4	30.4	100.2	100.3	7.8		1.6		4			
						1.0	0.2	42	18.8	10.0	8.0	0.0	30.4	00.1	100.3		7.8	7.8	1.5		4			
IM10	Misty	Moderate	12:33	10.0	Middle	5.0	0.1	49	18.8	18.8	8.0	8.0	30.4	30.4	100.4	100.5	7.8	-	1.7	1.7	4	4	822218	809853
						5.0	0.1	55	18.8		8.0		30.4		100.6		7.8		1.6		3			
					Bottom	9.0	0.1	80 73	18.8 18.8	18.8	8.0 8.0	8.0	30.4 30.4	30.4	100.9 101.1	101.0	7.8 7.9	7.9	2.0		3			
						1.0	0.1	73	18.8		8.0		30.4		100.2		7.8		2.0		3			
					Surface	1.0	0.1	66	18.8	18.8	8.0	8.0	30.4	30.4	100.3	100.3	7.8		1.9		4			
18444	Minter	Madavata	40.44	0.4	Midalla	4.7	0.2	62	18.6	40.0	8.0		30.6	30.6	100.6	100.7	7.9	7.9	2.0	2.0	2	2	004505	040520
IM11	Misty	Moderate	12:41	9.4	Middle	4.7	0.2	55	18.5	18.6	8.0	8.0	30.6	30.6	100.7	100.7	7.9		2.0	2.0	3	3	821505	810538
					Bottom	8.4	0.2	70	18.4	18.4	8.0	8.0	30.7	30.8	101.1	101.3	7.9	7.9	2.0		3			
					Dettern	8.4	0.1	72	18.3	10.4	8.0	0.0	30.8	00.0	101.4	101.0	7.9	1.0	2.1		3			
					Surface	1.0	0.2	86	18.8	18.8	8.0	8.0	30.4	30.5	101.0	101.1	7.9		1.4		3			
						1.0	0.2	82	18.7		8.0		30.5		101.1	-	7.9	7.9	1.5		4			
IM12	Misty	Moderate	12:48	8.2	Middle	4.1	0.2	81	18.6 18.5	18.6	8.0 8.0	8.0	30.6 30.6	30.6	101.5 101.6	101.6	7.9 7.9		1.7 1.7	1.7	2	4	821165	811532
						4.1	0.2	73 106	18.5		8.0		30.6				0.0		1.7		3 5			
					Bottom	7.2	0.2	108	18.5	18.5	8.0	8.0	30.8	30.5	102.3	102.3	8.1	8.1	2.0		5			
						1.0	0.0	17	19.1		8.0		30.4		97.5		7.5		1.1		4			
					Surface	1.0	0.0	20	19.1	19.1	8.0	8.0	30.4	30.4	97.5	97.5	7.5		1.1		4			
SR1A	Minter	Madavata	12:10	4.0	Middle	2.4	0.0	11	-		-		-		-		-	7.5	-		-	4	040070	040000
SKIA	Misty	Moderate	13:10	4.8	widdie	2.4	0.0	16	-	-	-	-	-	-	-	-	-		-	1.1	-	4	819978	812662
					Bottom	3.8	0.0	4	19.1	19.1	8.0	8.0	30.4	30.4	97.6	97.6	7.6	7.6	1.1		4			
					Dottom	3.8	0.1	11	19.1	10.1	8.0	0.0	30.4	00.4	97.6	07.0	7.6	1.0	1.2		4			
					Surface	1.0	0.2	54	18.8	18.8	8.0	8.0	30.5	30.5	100.9	101.0	7.8		1.3		3			
						1.0	0.2	56	18.7		8.0		30.5		101.0		7.9	7.9	1.3	-	3			
SR2	Misty	Moderate	13:27	5.4	Middle	-	0.2	55 62	-	-	-	-	-	-	-	-	-		-	1.4	-	4	821470	814152
						4.4	0.2	54	- 18.7		- 8.0		30.6		- 101.8		7.9		- 1.4		4			
					Bottom	4.4	0.1	51	18.7	18.7	8.0	8.0	30.6	30.6	101.0	102.1	8.0	8.0	1.4	-	5			
						1.0	0.2	68	18.3		7.9		31.0		96.1		7.5		12.3		11			
					Surface	1.0	0.2	63	18.3	18.3	7.9	7.9	31.0	31.0	96.0	96.1	7.5	7.5	12.6		12			
SR3	Cloudy	Modorato	12:50	8.6	Middle	4.3	0.2	57	18.3	18.3	7.9	7.9	31.0	31.0	95.9	95.9	7.5	7.5	12.7	13.5	12	13	822166	807577
583	Cloudy	Moderate	12:50	8.0	Wilddie	4.3	0.1	57	18.3	18.3	7.9	7.9	31.0	31.0	95.9	95.9	7.5		12.6	13.5	13	13	822100	80/5//
					Bottom	7.6	0.1	59	18.3	18.3	7.8	7.8	31.0	31.0	95.9	96.0	7.5	7.5	16.0		13			
					Dettern	7.6	0.1	54	18.3	10.0	7.8	1.0	31.0	01.0	96.0	00.0	7.5	1.0	15.2		14			
					Surface	1.0	0.0	40	18.5	18.5	7.8	7.8	31.2	31.2	97.2	97.2	7.6		7.4		10			
						1.0	0.1	37	18.5		7.8		31.2		97.2		7.6	7.6	7.5		10			
SR4A	Cloudy	Moderate	14:13	8.6	Middle	4.3 4.3	0.0	10 10	18.4 18.4	18.4	7.8 7.8	7.8	31.2 31.2	31.2	97.0 97.0	97.0	7.6 7.6		7.9 8.0	7.8	10 10	10	817185	807817
						4.3	0.0	46	18.4		7.8		31.2		97.0 97.0		7.6		8.0		10			
					Bottom	7.6	0.0	39	18.4	18.4	7.8	7.8	31.3	31.3	97.0	97.1	7.6	7.6	8.0		8			
						1.0	-	-	18.8	46 -	8.0		30.6		102.0	407.7	7.9		1.2		4			
					Surface	1.0	-	-	18.7	18.8	8.0	8.0	30.6	30.6	102.0	102.0	7.9		1.2		4			
000	Minter	Madavat	40.00	5.0	Middle	-	-	-	-		-	1	-		-		-	7.9	-	4.0	-	2	000070	044000
SR8	Misty	Moderate	13:02	5.0	Middle	-	-	-	-		-	1	-		-		-		-	1.6	-	3	820372	811609
					Bottom	4.0	-	-	18.6	18.6	8.0	8.0	30.7	30.7	102.1	102.1	8.0	8.0	2.0		3			
					Dottom	4.0	-	-	18.5	10.0	8.0	0.0	30.7	50.7	102.1	102.1	8.0	0.0	2.1		2			1

DA: Depth-Averaged

Water Quality Monitoring

Water Quality Monitoring Results on 21 February 23 during Mid-Flood Tide

Water Qual	ity Monite	oring Resu	its on		21 February 23	during Mid-	<u>FI00a II</u>	ae																
Monitoring	Weather	Sea	Sampling	Water	Sampling Dept	h (m)	Current Speed	Current	Water Te	emperature (°C)		pН	Salin	nity (ppt)	DO S	Saturation (%)	Dissol Oxyg		Turbidity	(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dept	n (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.4	47	18.1	18.1	7.8	7.8	31.5	31.5	97.3	97.3	7.6		9.8		12			
					Sunace	1.0	0.3	44	18.1	18.1	7.8	7.8	31.5	31.5	97.3	97.3	7.6	7.0	9.8		12			
64	Claudu	Madarata	00.47		Middle	4.5	0.4	14	18.1	18.1	7.8	7.8	31.5	31.5	96.9	96.9	7.6	7.6	10.6	11.3	12	12	045020	804246
C1	Cloudy	Moderate	08:47	8.9	IVIIddie	4.5	0.3	9	18.1	18.1	7.8	7.8	31.5	31.5	96.9	96.9	7.6		11.2	11.3	11	12	815630	804246
					Dettern	7.9	0.4	46	18.1	18.1	7.8	7.0	31.5	31.5	96.9	96.9	7.6	7.6	12.7		10			
					Bottom	7.9	0.4	38	18.1	18.1	7.8	7.8	31.5	31.5	96.9 96.9	96.9	7.6	7.6	13.7		12			
					Surface	1.0	0.5	341	18.5	18.5	7.8	7.8	30.2	30.2	94.8	94.8	7.4		3.1		5			
					Sunace	1.0	0.5	333	18.5	18.5	7.8 7.8	7.8	30.3	30.2	94.8 94.8	94.8	7.4	7.5	3.2		5			
C2	Cloudy	Moderate	10:04	10.9	Middle	5.5	0.4	352	18.4	18.4	7.9	7.9	30.8	30.8	95.3 95.3	95.3	7.5	7.5	5.2	5.5	4	5	825703	806947
02	Cloudy	Woderate	10.04	10.9	Middle	5.5	0.4	355	18.4	10.4	7.9	1.5	30.8	30.0	95.3	95.5	7.5		5.4	5.5	5	5	023703	000947
					Bottom	9.9	0.4	7	18.3	18.3	7.8	7.8	31.0	31.0	96.1	96.2	7.5	7.5	7.8		5			
					Bollom	9.9	0.4	359	18.3	10.5	7.8	7.0	30.9	31.0	96.2	90.2	7.5	1.5	8.3		5			
					Surface	1.0	0.5	263	18.7	18.7	8.0	8.0	31.3	31.3	94.8 94.8	94.8	7.3		1.2		4			
					Guildee	1.0	0.5	260	18.7	10.7	8.0	0.0	31.3	01.0		04.0	7.3	7.3	1.1		3			
C3	Misty	Calm	09:13	11.4	Middle	5.7	0.5	262	18.7	18.7	8.0	8.0	31.3	31.3	94.8 94.8	94.8	7.3		1.3	1.2	3	4	822120	817795
						5.7	0.6	268	18.7		8.0		31.3		-		7.3		1.4		3	-		
					Bottom	10.4	0.4	286	18.7	18.7	8.0	8.0	31.3	31.3	94.9	95.0	7.4	7.4	1.3		4			
						10.4	0.4	279	18.7		8.0		31.3		95.0		7.4		1.2		4			
					Surface	1.0	0.2	14	18.1	18.1	7.9 7.9	7.9	31.5	31.5	96.3 96.3	96.3	7.5		14.1		18			
						1.0	0.2	18	18.1				31.5				7.5	7.5	14.4		18			
IM1	Cloudy	Moderate	09:09	6.4	Middle	3.2 3.2	0.3	12 12	18.1 18.1	18.1	7.8 7.8	7.8	31.6 31.6	31.6	96.2 96.2	96.2	7.5 7.5		11.2 11.2	13.3	19 18	19	818366	806474
						5.4	0.3	26	18.1		7.8		31.5				75		11.2		20			
					Bottom	5.4	0.3	20	18.1	18.1	7.9	7.9	31.5	31.5	96.2 96.2	96.2	7.5	7.5	14.4		18			
						1.0	0.2	29	18.2		7.9		31.5				7.5		14.4		24			
					Surface	1.0	0.3	30	18.2	18.2	7.9	7.9	31.5	31.5	96.4 96.5	96.5	7 5		12.6		24			
						3.6	0.3	15	18.1		7.9		31.6		96.6		7.6	7.6	13.6		24			
IM2	Cloudy	Moderate	09:12	7.2	Middle	3.6	0.3	10	18.1	18.1	7.9	7.9	31.6	31.6	96.6	96.6	7.6		13.3	13.2	24	<u>24</u>	819173	806219
						6.2	0.4	28	18.1		7.8		31.6				7.0		13.5		24			
					Bottom	6.2	0.4	31	18.1	18.1	7.8	7.8	31.6	31.6	97.4 97.5	97.5	7.6	7.6	13.7		24			
					<u> </u>	1.0	0.3	17	18.6	10.0	7.8	= 0	30.4			aa -	7.6		2.5		8			
					Surface	1.0	0.3	23	18.6	18.6	7.8	7.8	30.4	30.4	96.7 96.7	96.7	7.0	7.6	2.5	1	8			
11.47	Claudu	Madarati	00.22	7.0	Middle	3.9	0.3	20	18.4	10.4	7.9	7.0	30.7	20.7		00.0	7.5	1.6	3.8	2.7	7	7	004050	000050
IM7	Cloudy	Moderate	09:32	7.8	Middle	3.9	0.4	19	18.4	18.4	7.9	7.9	30.7	30.7	96.3 96.3	96.3	7.5		3.9	3.7	7	7	821359	806856
					Bottom	6.8	0.3	7	18.4	18.4	7.9	7.9	30.9	30.9	96.3	96.3	7.5	7.5	4.7	1	5			
					Bottom	6.8	0.3	11	18.4	10.4	7.9	1.9	30.9	30.9	96.3 96.3	90.3	7.5	1.5	4.8	1	4			

DA: Depth-Averaged

Water Quality Monitoring Water Quality Monitoring Results on

21 February 23 during Mid-Flood Tide

Vater Qua	ity Monit	oring Resu	its on		21 February 23	during Mid-	Flood II	de																
Monitoring	Weather	Sea	Sampling	Water	Sampling De	oth (m)	Current Speed	Current	Water Te	emperature (°C)		рН	Salin	nity (ppt)		aturation (%)	Disso Oxy		Turbidity	(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Camping De	pur (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.3	310	18.8	18.8	8.0	8.0	30.4	30.4	99.9	99.9	7.8		1.0		4			
						1.0	0.3	305	18.8	10.0	8.0	0.0	30.4	00.1	99.9	00.0	7.8	7.8	1.1		3			
IM10	Misty	Calm	10:15	8.6	Middle	4.3	0.4	293	18.8	18.8	8.0	8.0	30.4	30.4	99.9	99.9	7.8		1.1	1.4	5	4	822219	809824
	-					4.3	0.4	290	18.8		8.0		30.4		99.9		7.8		1.1		3			
					Bottom	7.6	0.3	277	18.8	18.8	8.0	8.0	30.4	30.4	100.0	100.0	7.8	7.8	1.9		3			
						7.6	0.3	275 279	18.8		8.0		30.4		100.0		7.8		2.0		3			
					Surface	1.0	0.4	279	18.8 18.8	18.8	8.0 8.0	8.0	30.4 30.4	30.4	98.7 98.7	98.7	7.7		1.5 1.5	-	4			
						4.6	0.4	303	18.8		8.0		30.4		98.9		7.7	7.7	1.5		3			
IM11	Misty	Calm	10:08	9.2	Middle	4.6	0.4	298	18.8	18.8	8.0	8.0	30.4	30.4	98.9	98.9	7.7		1.6	1.8	4	5	821506	810532
						8.2	0.4	290	18.8		8.0		30.4		99.1		7.7		2.3	-	7			
					Bottom	8.2	0.4	257	18.8	18.8	8.0	8.0	30.4	30.4	99.2	99.2	7.7	7.7	2.3		7			
						1.0	0.3	279	18.9		8.0		30.4		98.9		7.7		1.7		4			
					Surface	1.0	0.3	285	18.9	18.9	8.0	8.0	30.4	30.4	98.9	98.9	7.7		1.6	-	4			
						3.6	0.4	299	18.9		7.9		30.3		99.1		7.7	7.7	2.1		4			
IM12	Misty	Calm	10:02	7.2	Middle	3.6	0.4	303	18.9	18.9	7.9	7.9	30.3	30.3	99.2	99.2	7.7		2.2	2.6	3	4	821150	811502
					5.4	6.2	0.4	272	18.9	10.0	7.9		30.3		99.5		7.7	= 0	4.0		5			
					Bottom	6.2	0.3	268	18.9	18.9	7.9	7.9	30.2	30.2	99.7	99.6	7.8	7.8	3.9		4			
					Curtana	1.0	-	230	18.9	18.9	8.0	8.0	30.4	30.4	99.8	99.9	7.7		1.2		3			
					Surface	1.0	0.0	233	18.9	18.9	8.0	8.0	30.4	30.4	100.0	99.9	7.8	7.8	1.3		4			
SR1A	Misty	Calm	09:41	4.8	Middle	2.4	0.0	222	-		-		-	_	-		-	1.0	-	1.6	-	4	819983	812654
SKIA	wisty	Calli	09.41	4.0	Wilddie	2.4	0.1	229	-	-	-		-	-	•		-		-	1.0	-	4	019903	012034
					Bottom	3.8	0.1	242	18.9	18.9	8.0	8.0	30.3	30.3	100.5	100.8	7.8	7.8	2.0		4			
					Dottom	3.8	0.0	238	18.9	10.5	8.0	0.0	30.4	50.5	101.1	100.0	7.8	7.0	2.1		3			
					Surface	1.0	0.1	258	18.9	18.9	7.9	7.9	30.4	30.4	97.2	97.3	7.5		1.8		4			
					Cundoo	1.0	0.1	254	18.9	10.0	7.9		30.4	00.1	97.3	01.0	7.5	7.5	1.7		4			
SR2	Misty	Calm	09:28	5.0	Middle	-	0.1	244	-	-	-	_	-	-	-	-	-		-	2.2	-	4	821465	814173
						-	0.1	244	-		-		-		-		-		-		-			
					Bottom	4.0	0.1	273	18.9	18.9	7.9	7.9	30.4	30.4	97.4	97.4	7.6	7.6	2.7		4			
						4.0	0.1	278	18.9		7.9		30.3		97.4		7.6		2.6		4			
					Surface	1.0	0.4	3	18.4	18.4	7.9	7.9	31.1	31.1	95.9	95.9	7.5		12.1		8			
						1.0	0.4	358	18.4		7.9		31.1		95.9		7.5	7.5	12.1		7			
SR3	Cloudy	Moderate	09:39	9.0	Middle	4.5 4.5	0.4	330 335	18.3 18.3	18.3	7.9 7.9	7.9	31.1 31.1	31.1	95.7 95.7	95.7	7.5 7.5		7.0 6.7	8.6	6 7	7	822150	807589
						4.5	0.4	335	18.3		7.9		31.1		95.7 96.2		7.5		6.9	-	7			
					Bottom	8.0	0.4	328	18.3	18.3	7.8	7.8	31.1	31.1	96.2	96.3	7.5	7.5	6.8		8			
						1.0	0.0	205	18.2		7.8		30.9				7.5		11.1		13			
					Surface	1.0	0.0	203	18.2	18.2	7.9	7.9	30.9	30.9	94.9 94.9	94.9	7.4		11.3	-	13			
						4.4	-	212	18.2		7.9		30.9		94.8		7.4	7.4	12.5		10			
SR4A	Cloudy	Moderate	08:18	8.8	Middle	4.4	0.0	212	18.2	18.2	7.9	7.9	30.9	30.9	94.8	94.8	7.4		12.0	12.2	12	13	817198	807825
						7.8	0.0	209	18.2		7.9		30.9		94.8		7.4		12.7		14			
					Bottom	7.8	0.0	209	18.2	18.2	7.9	7.9	30.9	30.9	94.7	94.8	7.4	7.4	12.7	-	14			
				İ	0	1.0	-	-	18.9	10.0	7.9	7.0	30.3	00.0	99.7	00.7	7.7		1.1		4			Ì
					Surface	1.0	-	-	18.9	18.9	7.9	7.9	30.3	30.3	99.7	99.7	7.7		1.1	1	4			
CDO	Minter	Calm	00.57	4.0	Midalla	-	-	-	-		-	1	-		-	1	-	7.7	-	4.0	-		000407	044000
SR8	Misty	Calm	09:57	4.8	Middle	-	-	-	-	1 -	-	1 -	-	-	-	1 -	-		-	1.8	-	4	820407	811600
					Bottom	3.8	-	-	18.9	18.9	7.9	7.9	30.3	30.3	99.7	00.6	7.7	77	2.5		3			
				1	Bottom	3.8	-	-	18.9	10.9	7.9	7.9	30.3	30.3	99.4	99.6	7.7	7.7	2.4	1	3			

DA: Depth-Averaged

Water Quality Monitoring

Water Quality Monitoring Results on 23 February 23 during Mid-Ebb Tide DO Saturation Current Dissolved Suspended Solids Water Temperature (°C) pН Salinity (ppt) Turbidity(NTU) Coordinate Coordinate Weather Sea Sampling Water Monitoring Speed Current (%) Oxygen (mg/L) Sampling Depth (m) HK Grid HK Grid Station Direction DA DA Value Average Value DA (Easting) Condition Condition Time Depth (m) (m/s) Value Average Value Average Average Value Value Value (Northing) 0.4 211 18.7 1.0 8.1 31.3 99.6 7.7 6.0 3 18.7 8.1 31.3 99.6 Surface 1.0 0.4 207 18.7 8.1 31.4 99.5 7.7 6.1 4 7.8 4.1 0.4 227 31.6 100.1 7.8 7.9 3 18.6 8.1 C1 Cloudy Moderate 15:12 8.2 Middle 18.6 8.1 31.6 100.2 8.2 4 815624 804266 4.1 8.1 100.3 0.4 223 18.6 31.6 7.8 8.0 4 7.2 0.3 18.7 31.5 102.2 10.9 4 213 8.1 7.9 31.5 102.4 7.9 18.8 8.1 Bottom 31.5 102.5 7.9 7.2 8.1 5 0.3 205 18.8 10.5 1.0 0.1 127 19.2 1.5 8.1 29.0 97.5 7.6 4 29.0 97.5 Surface 19.2 8.1 1.0 0.1 124 19.2 8.1 29.0 97.5 7.6 1.6 5 7.6 5.6 0.0 149 18.7 8.1 30.3 97.4 7.6 2.1 4 30.3 97.4 C2 Cloudy Moderate 13:47 11.2 Middle 18.7 8.1 2.0 4 825689 806968 5.6 30.3 97.4 7.6 0.0 153 18.7 8.1 2.1 5 10.2 0.1 155 18.7 8.1 30.3 98.8 7.7 2.3 4 30.3 98.9 7.7 Bottom 18.7 8.1 7.7 10.2 0.1 158 18.7 8.1 30.3 98.9 2.3 4 1.0 0.4 18.7 92.0 2.8 4 76 7.8 30.7 7.2 7.8 30.7 91.9 18.7 Surface 91.7 1.0 0.3 18.7 7.8 30.7 7.1 2.9 4 76 7.1 5.2 0.3 82 18.7 7.8 30.7 89.6 7.0 3.6 3 30.7 C3 Misty Calm 15:26 10.4 Middle 18.7 7.8 89.3 3.5 4 822124 817785 5.2 0.4 77 18.7 7.8 30.7 89.0 6.9 3.7 4 9.4 0.3 70 18.7 7.8 30.7 83.6 6.5 4.1 4 18.7 7.8 30.7 82.9 6.5 Bottom 9.4 7.8 30.7 82.2 6.4 4.2 3 0.3 68 18.7 1.0 0.1 180 18.8 8.1 31.4 99.0 9.6 4 7.7 8.1 31.4 99.0 18.8 Surface 31.4 99.0 7.7 1.0 0.1 8.1 10.0 4 185 18.8 7.7 3.4 0.1 194 18.6 8.1 31.4 99.5 7.7 12.2 3 8.1 31.4 99.7 IM1 Cloudy Moderate 14:50 6.8 Middle 18.6 11.4 4 818330 806450 31.4 99.8 7.7 3.4 0.1 189 18.6 8.1 12.2 4 5.8 0.2 18.6 8.1 31.4 100.6 12.3 3 186 7.8 7.8 Bottom 18.6 8.1 31.4 100.7 0.2 81 31.4 100.7 7.8 12.3 4 5.8 178 18.6 1.0 0.1 163 18.7 8.1 31.4 97.5 7.6 10.2 3 8.1 31.4 97.5 18.7 Surface 97.5 31.4 1.0 0.1 169 18.7 8.1 7.6 10.6 3 7.6 3.8 0.1 173 18.6 8.1 31.4 97.5 7.6 12.3 5 IM2 14:44 7.5 Middle 18.6 8.1 31.4 97.5 12.6 4 819163 806231 Cloudy Moderate 97.5 7.6 3.8 0.2 173 18.6 8.1 31.4 12.5 4 6.5 0.1 188 18.7 8.1 31.5 97.7 7.6 15.0 5 8.1 31.5 97.8 7.6 Bottom 18.7 6.5 0.1 195 18.7 8.2 31.5 97.8 7.6 15.3 5 1.0 0.2 79 19.0 8.1 30.2 98.0 7.6 2.9 5 8.1 30.2 98.1 Surface 19.0 1.0 0.2 76 18.9 8.1 30.2 98.1 7.6 3.0 4 7.7 4.0 0.2 107 18.7 8.1 30.5 99.3 7.7 3.7 4 IM7 Moderate 14:21 7.9 Middle 18.8 8.1 30.5 99.4 3.5 4 821352 806820 Cloudy 4.0 0.1 30.5 99.5 7.7 110 18.8 8.1 3.7 4 6.9 0.2 3 90 18.8 8.1 30.4 100.2 7.8 3.9 30.4 Bottom 18.9 8.1 100.4 7.8 69 02 83 18.9 81 30.4 100.5 78 3.8 З

DA: Depth-Averaged

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

Water Quality Monitoring

Water Quality Monitoring Results on 23 February 23 during Mid-Ebb Tide DO Saturation Current Dissolved Suspended Solids Water Temperature (°C) pН Salinity (ppt) Turbiditv(NTU) Coordinate Coordinate Weather Sea Sampling Water Monitoring Speed Current (%) Oxygen (mg/L) Sampling Depth (m) HK Grid HK Grid Station Direction DA Average Value DA DA Condition Condition Time Depth (m) (m/s) Value Average Value Value Average Average Value Value Value (Northing) (Easting) 0.2 18.4 1.0 83 7.8 30.7 94.4 7.4 1.1 4 7.8 30.7 Surface 18.4 94.4 1.0 0.2 86 18.3 7.8 30.7 94.3 7.4 1.2 4 7.4 4.3 0.2 7.4 2.4 5 89 18.3 7.8 30.6 94.0 IM10 Misty Calm 13:47 8.6 Middle 18.3 7.8 30.6 94.1 2.3 5 822232 809836 4.3 94.1 2.4 0.1 88 18.3 7.8 30.5 7.4 4 7.6 0.1 95.3 3.4 5 58 18.6 7.8 30.2 7.4 30.2 7.5 18.7 7.8 95.6 Bottom 95.8 7.5 7.6 7.8 30.1 3.3 0.1 53 18.8 5 1.0 0.3 18.4 94.0 1.6 78 7.8 30.3 7.4 4 30.3 Surface 18.4 7.8 94.0 1.0 0.3 80 18.3 7.8 30.3 93.9 7.4 1.5 4 7.4 4.0 0.3 68 18.3 7.8 30.3 93.6 7.3 2.6 5 30.2 IM11 Misty Calm 13:55 8.0 Middle 18.4 7.8 93.6 2.6 4 821503 810550 93.6 4.0 0.3 69 18.4 7.8 30.2 7.3 2.5 4 7.0 0.3 66 18.8 7.8 29.8 93.7 7.3 3.6 4 29.7 7.3 Bottom 18.9 7.8 93.7 93.7 7.3 7.0 0.3 59 18.9 7.8 29.7 3.5 4 1.0 0.3 98 1.0 18.4 7.8 30.5 95.7 7.5 4 7.8 30.5 95.8 Surface 18.4 1.0 7.8 30.5 95.8 7.5 4 0.3 91 18.4 1.1 7.5 4.3 0.2 85 18.4 7.8 30.6 95.9 7.5 1.9 4 30.6 IM12 Misty Calm 14:01 8.6 Middle 18.4 7.8 96.1 1.9 4 821139 811508 4.3 0.2 80 18.4 7.8 30.6 96.3 7.5 1.8 4 7.6 0.3 113 18.4 7.8 30.6 96.5 7.6 2.8 4 18.5 7.8 30.5 96.6 7.6 Bottom 7.6 7.8 30.5 96.7 7.6 2.8 5 0.2 115 18.5 1.0 0.0 7.8 31.0 16 18.6 95.1 7.4 2.1 3 7.8 31.0 18.6 95.1 Surface 31.0 95.1 7.4 1.0 7.8 0.0 16 18.6 2.1 4 7.4 2.1 0.1 15 -------SR1A Misty Calm 14:49 4.2 Middle --2.6 4 819979 812662 --2.1 0.0 8 -------3.2 0.0 34 31.0 3.0 18.6 7.8 95.2 7.4 4 Bottom 18.6 7.8 31.0 95.2 7.4 7.8 31.0 95.2 7.4 3.0 3.2 0.1 40 18.6 4 1.0 0.3 46 18.4 7.8 31.0 94.9 7.4 2.9 4 7.8 31.0 94.9 18.4 Surface 94.9 7.8 31.0 7.4 1.0 0.4 47 18.4 2.8 5 7.4 0.4 50 ----SR2 5.8 3.5 5 821485 814161 Misty Calm 15:09 Middle ---0.3 46 -4.8 0.4 30 18.5 7.8 30.9 94.8 7.4 4.0 5 7.8 94.8 7.4 Bottom 18.5 30.9 4.8 0.3 30 18.5 7.8 30.9 94.8 7.4 4.1 6 1.0 0.2 120 18.9 8.1 29.9 97.3 7.6 3.0 5 8.1 29.9 97.3 Surface 18.9 1.0 0.2 115 18.9 8.1 30.0 97.2 7.6 3.2 6 7.6 4.6 0.2 130 18.7 8.1 30.5 97.5 7.6 10.5 5 8.1 SR3 14:14 9.2 Middle 18.7 30.5 97.6 8.1 5 822158 807574 Cloudy Moderate 4.6 0.2 30.5 97.6 7.6 122 18.7 8.1 10.7 4 8.2 0.1 4 132 18.8 8.1 30.2 99.7 7.8 10.5 7.8 18.8 8.1 30.2 99.7 Bottom 82 02 125 18.8 81 30.2 99.7 78 10.5 3 1.0 0.0 60 18.9 8.1 30.9 98.6 7.6 6.0 4 18.9 8.1 30.9 98.6 Surface 1.0 0.0 60 18.9 8.1 30.9 98.5 7.6 6.2 4 7.6 4.5 0.0 78 18.8 8.1 7.6 30.9 98.4 6.9 4 SR4A 15:40 8.9 Middle 18.8 8.1 30.9 98.5 6.8 4 817165 807796 Cloudy Moderate 4.5 -77 18.8 8.1 30.9 98.5 7.6 7.0 4 7.9 0.0 3 67 18.7 8.1 30.9 98.5 7.7 7.5 7.7 18.7 8.1 30.9 98.6 Bottom 7.9 7.7 0.0 69 18.7 8.1 30.9 98.6 74 4 1.0 -18.5 7.8 30.7 95.3 7.4 2.6 4 30.7 Surface 18.5 7.8 95.2 1.0 -18.4 7.8 30.7 95.1 7.4 2.6 4 7.4 -SR8 4.6 Middle 3.1 5 820371 811612 Misty Calm 14:06 ---3.6 -18.7 7.8 30.4 94.5 7.4 3.7 6 -94.5 18.8 7.8 30.4 7.4 Bottom 3.6 18.8 7.8 30.3 94 5 7.3 3.6 5

DA: Depth-Averaged

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

Water Quality Monitoring

Water Quality Monitoring Results on 23 February 23 during Mid-Flood Tide DO Saturation Current Dissolved Suspended Solids Water Water Temperature (°C) pН Salinity (ppt) Turbidity(NTU) Weather Sea Sampling Monitoring Speed Current (%) Oxygen (mg/L) Sampling Depth (m) Station Direction DA DA (m/s) Value Average Value DA Condition Condition Time Depth (m) Value Average Value Average Average Value Value Value 0.4 18.6 1.0 33 8.1 31.3 96.4 7.5 8.9 4 Surface 18.6 8.1 31.3 96.4 1.0 0.4 27 18.6 8.1 31.3 96.4 7.5 8.9 3 7.6 4.2 0.4 48 18.5 8.1 31.2 97.4 7.6 11.3 3 31.2 97.6 9.7 8.4 8.1 4 C1 Cloudy Moderate 09:41 Middle 18.5 31.2 97.7 4.2 0.4 48 18.5 8.1 7.6 11.1 4 0.4 54 31.2 98.4 9.0 4 7.4 18.5 8.1 7.7 31.2 7.7 Bottom 18.5 8.1 98.5 98.6 7.4 0.4 58 18.5 8.1 31.2 7.7 8.9 4 1.0 0.5 2 18.8 8.1 29.6 95.8 7.5 3.3 4 8.1 29.6 95.8 18.8 Surface 95.8 1.0 0.5 357 18.8 8.1 29.6 7.5 3.4 5 7.5 6.1 0.5 8 18.6 8.1 30.5 95.7 7.5 7.7 5 95.8 C2 12.1 18.6 8.1 30.5 6.8 6 Cloudy Moderate 11:02 Middle 6.1 0.4 18.6 8.1 30.5 95.8 7.5 8.1 6 0 11.1 0.5 346 18.6 8.1 30.5 98.5 7.7 9.4 7 8.1 30.5 98.6 7.7 Bottom 18.6 11.1 0.5 352 18.6 8.1 30.5 98.7 7.7 9.2 7 1.0 0.4 4.1 252 18.1 7.9 31.5 90.3 7.1 7 18.1 7.9 31.5 90.3 Surface 1.0 0.4 259 18.1 7.9 31.5 90.3 7.1 4.2 6 7.1 5.9 0.5 245 18.1 7.9 31.5 90.1 7.1 4.5 5 7.9 90.1 C3 Mistv Calm 10:08 11.8 Middle 18.1 31.5 4.6 5 5.9 0.5 250 18.1 7.9 31.5 90.1 7.1 4.5 4 10.8 0.5 254 18.1 7.8 31.5 90.1 7.0 5.1 3 7.8 31.5 90.1 7.0 Bottom 18.1 31.5 90.1 7.0 10.8 0.5 247 18.1 7.8 5.1 4 1.0 0.3 10 18.5 7.5 11.9 3 8.1 30.9 96.2 Surface 18.5 8.1 30.9 96.2 1.0 0.3 14 18.5 8.1 30.9 96.2 7.5 11.0 3 7.5 3.4 0.3 9.9 3 18.5 8.1 96.5 7.5 7 30.9 8.1 30.9 96.6 IM1 Cloudy Moderate 10:04 6.7 Middle 18.5 11.2 3 3.4 0.3 8.1 96.6 7.5 6 18.5 30.9 9.5 4 5.7 0.3 359 18.5 30.9 96.8 7.6 12.3 2 8.1 7.6 30.9 96.8 Bottom 18.5 8.1 5.7 30.9 96.8 7.6 0.3 2 18.5 8.1 12.8 4 1.0 0.3 2 18.6 8.1 31.0 96.6 7.5 11.6 4 31.0 96.6 Surface 18.6 8.1 1.0 0.3 355 18.6 8.1 31.0 96.6 7.5 12.0 5 7.5 3.7 0.3 19 18.6 8.1 31.0 96.5 7.5 13.7 5 8.1 31.0 96.5 12.9 5 IM2 Cloudy Moderate 10:09 7.4 Middle 18.6 3.7 0.2 25 18.6 8.1 31.0 96.5 7.5 13.7 5 6.4 0.3 17 18.6 8.1 31.0 96.8 7.5 13.1 5 31.0 96.8 7.5 Bottom 18.6 8.1 7.5 6.4 0.3 18 18.6 8.1 31.0 96.8 13.4 5 1.0 0.2 8.1 4.5 4 8 18.9 30.0 96.0 7.5 30.0 96.0 Surface 18.9 8.1 1.0 0.3 2 18.9 8.1 30.0 96.0 7.5 4.5 4 7.5 4.1 0.3 18.7 8.1 30.6 96.0 7.5 6.9 4

2

8

27

29

18.7

18.6

18.6

0.3

0.3

0.2

18.7

18.6

8.1

8.1

8.1

8.1

8.1

30.6

30.6

96.1

97.4

97.4

30.6

30.6

30.6

96.1

97.4

7.5

7.6

7.6

7.6

6.5

4

5

4

7.0

8.2

8.2

Coordinate

HK Grid

(Northing)

815603

825677

822128

818366

819185

821341

4

Coordinate

HK Grid

(Easting)

804224

806936

817811

806450

806217

806827

DA: Depth-Averaged

Cloudy

IM7

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

Moderate

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

10:28

8.2

Middle

Bottom

4.1

7.2

7.2

Water Quality Monitoring

Water Quality Monitoring Results on 23 February 23 during Mid-Flood Tide DO Saturation Dissolved Suspended Solids Current Turbidity(NTU) Water Temperature (°C) pН Salinity (ppt) Coordinate Weather Sea Sampling Water Monitoring Speed Current (%) Oxygen (mg/L) Sampling Depth (m) HK Grid Station Direction DA Average Value DA DA Condition Condition Time Depth (m) (m/s) Value Average Value Value Average Average Value Value Value (Northing) 0.3 304 18.5 1.0 7.8 30.5 94.5 7.4 2.4 4 7.8 30.5 94.5 Surface 18.5 94.5 1.0 0.2 297 18.5 7.8 30.5 7.4 2.4 3 7.4 4.4 7.4 3.4 4 0.3 312 18.5 7.8 30.6 94.4 IM10 Misty Calm 11:18 8.8 Middle 18.5 7.8 30.6 94.4 3.3 4 822259 94.4 4.4 0.2 309 18.4 7.8 30.6 7.4 3.4 4 7.8 0.3 95.3 4.0 5 299 18.4 7.8 30.6 7.5 30.6 7.5 7.8 95.4 Bottom 18.4 95.4 7.5 7.8 7.8 30.6 0.4 300 18.4 4.0 6 1.0 0.4 281 18.3 94.3 3.5 7.9 30.9 7.4 4 30.9 94.3 Surface 18.3 7.8 1.0 0.3 275 18.3 7.8 30.9 94.2 7.4 3.8 3 7.4 4.2 0.3 284 18.2 7.8 30.9 94.0 7.4 4.1 4 30.9 IM11 Misty Calm 11:11 8.4 Middle 18.2 7.8 94.0 4.3 4 821494 94.0 4.2 0.3 288 18.2 7.8 30.9 7.4 4.1 4 7.4 0.4 264 18.2 7.8 30.8 94.6 7.4 5.1 5 30.8 94.7 7.4 Bottom 18.2 7.8 94.8 7.4 7.4 0.4 265 18.2 7.8 30.8 5.2 4 1.0 0.3 278 3.6 18.3 7.8 30.9 93.8 7.3 3 7.8 30.9 93.8 Surface 18.3 1.0 273 7.8 30.9 93.8 7.3 3.7 3 0.4 18.3 7.3 4.8 0.4 271 18.2 7.8 30.8 93.6 7.3 4.0 4 IM12 Misty Calm 11:05 9.6 Middle 18.2 7.8 30.8 93.6 4.3 4 821169 4.8 0.3 264 18.2 7.8 30.8 93.6 7.3 4.1 4 8.6 0.3 263 18.3 7.8 30.7 94.6 7.4 5.1 5 18.3 7.8 30.7 94.7 7.4 Bottom 7.8 30.7 94.8 7.4 4 8.6 0.3 269 18.3 5.2 1.0 201 18.2 7.8 31.1 93.4 7.3 2.3 4 -7.8 31.1 18.2 93.4 Surface 31.1 93.4 7.3 1.0 0.0 7.8 195 18.2 2.3 4 7.3 2.4 0.0 194 -------SR1A Misty Calm 10:40 4.8 Middle --2.8 4 819981 --2.4 0.1 199 -------3.8 0.0 208 31.1 3.3 18.2 7.8 93.4 7.3 5 Bottom 18.2 7.8 31.1 93.4 7.3 7.8 31.1 93.4 7.3 3.4 3.8 0.1 203 18.2 1 1.0 0.1 249 18.3 7.8 30.8 93.7 7.3 2.6 6 7.8 30.8 93.7 18.3 Surface 7.8 30.8 93.7 1.0 0.1 246 18.3 7.3 2.5 5 7.3 0.1 231 ------SR2 4.4 3.1 5 821483 Misty Calm 10:29 Middle ---0.0 224 -3.4 0.1 272 18.3 7.8 30.8 93.5 7.3 3.7 4 7.3 Bottom 18.3 7.8 30.8 93.5 3.4 0.1 273 18.3 7.8 30.8 93.5 7.3 3.7 5 1.0 0.3 332 18.9 8.1 29.5 96.5 7.5 3.3 4 8.1 29.5 96.5 Surface 18.9 1.0 0.3 330 18.9 8.1 29.5 96.5 7.5 3.5 3 7.6 4.3 0.4 341 18.7 8.1 30.5 97.0 7.6 9.2 4 8.1 SR3 10:35 8.6 Middle 18.7 30.5 97.1 7.7 4 822131 Cloudy Moderate 4.3 30.5 97.1 7.6 0.4 337 18.7 8.1 9.5 3 7.6 0.4 9 18.7 8.1 30.2 99.7 7.8 10.2 5 7.8 18.7 8.1 30.2 99.7 Bottom 76 04 4 187 81 30.2 99.7 78 10.2 4 1.0 0.0 192 18.7 8.1 30.8 95.2 7.4 9.0 5 18.7 8.1 30.8 95.2 Surface 1.0 0.0 188 18.7 8.1 30.8 95.1 7.4 9.1 4 7.4 4.2 0.1 207 18.6 94.9 7.4 8.1 30.9 11.1 2 SR4A 09:12 8.4 Middle 18.6 8.1 30.9 94.9 10.7 4 817178 Cloudy Moderate 4.2 0.1 213 18.6 8.1 30.9 94.9 7.4 11.3 4 7.4 0.0 230 18.6 8.2 30.9 95.1 7.4 11.8 3 7.4 18.6 8.2 30.9 95.1 Bottom 7.4 11.8 7.4 0.0 233 18.6 8.2 30.9 95.1 3 1.0 -18.5 7.8 30.9 95.0 7.4 1.3 4 Surface 18.5 7.8 30.9 95.0 1.0 -18.5 7.8 30.9 7.4 95.0 1.3 4 7.4 -SR8 1.9 820413 Misty Calm 11:01 5.0 Middle 4 ---4.0 -18.5 7.8 30.6 95.5 7.5 2.4 3 -18.6 7.8 30.6 95.6 7.5 Bottom

18.6

7.8

30.5

95.7

7.5

2.4

3

4.0

Coordinate

HK Grid

(Easting)

809833

810524

811529

812654

814188

807584

807819

811609

DA: Depth-Averaged

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

Water Quality Monitoring

Water Quality Monitoring Results on 25 February 23 during Mid-Ebb Tide

Water Qua	lity Monit	oring Resu	lts on		25 February 23	during Mid-	Ebb lide																	
Monitoring	Weather	Sea	Sampling	Water	Sampling Dep	th (m)	Current Speed	Current	Water Te	emperature (°C)	ŀ	ъH	Salin	ity (ppt)		aturation (%)	Disso Oxy		Turbidity	(NTU)	Suspende (mg		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dep		(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.4	202	18.2	18.2	7.8	7.8	32.3	32.3	96.1	96.1	7.5		10.7		15			
					Suilace	1.0	0.4	201	18.2	10.2	7.8 7.8	7.0	32.3	52.5	96.1	30.1	7.5 7.5	7.5	10.7		16			
C1	Sunny	Rough	17:04	7.7	Middle	3.9	0.4	224	18.2	18.2	7.8	7.8	32.2	32.2	95.9	95.9	7.5	7.5	11.2	11.8	16	15	815623	804267
01	Cunny	rtough	17.04		Widdle	3.9	0.4	226	18.2	10.2	7.8	7.0	32.2	02.2	95.9	00.0	7.5		11.2	11.0	14	10	010020	004207
					Bottom	6.7	0.4	189	18.1	18.1	7.8	7.8	32.3	32.3	95.6	95.7	7.5	7.5	13.6		15			
					Bottom	6.7	0.4	191	18.1	10.1	7.8	110	32.3	02.0	95.7	00.1	7.5	1.0	13.6		15			
					Surface	1.0	0.1	157	18.6	18.6	7.8 7.8	7.8	30.1	30.1	94.3	94.3	7.4		2.3		4			
						1.0	0.1	153	18.6				30.1		94.3		7.4	7.4	2.3		3			
C2	Sunny	Rough	15:06	9.1	Middle	4.6	0.0	176	18.5	18.5	7.9	7.9	30.1	30.1	93.9	93.9	7.4		3.8	3.7	4	5	825680	806951
	-	0				4.6	0.0	172	18.5		7.9		30.1		93.9		7.4		3.8		5			
					Bottom	8.1	0.1	150	18.5	18.5	7.9	7.9	30.0	30.0	94.4	94.4	7.4	7.4	5.0		6			
						8.1	0.1	145	18.5		7.9		30.0		94.4		7.4		4.9		5			
					Surface	1.0	0.4	90	18.7	18.7	8.1	8.1	31.1	31.1	92.3 92.3	92.3	7.2 7.2		3.4		7			
						1.0	0.4	91	18.7		8.1		31.1				7.2	7.2	3.5		7			
C3	Misty	Moderate	16:17	9.0	Middle	4.5	0.4	65	18.7 18.7	18.7	8.1 8.1	8.1	31.1	31.1	92.7 92.7	92.7	7.2 7.2		4.9	4.6	6	6	822127	817792
	_					4.5	0.4	64	-		-		31.1						4.8		7			
					Bottom	8.0 8.0	0.4	63 63	18.7 18.7	18.7	8.1 8.1	8.1	31.2 31.2	31.2	96.6 96.8	96.7	7.5 7.5	7.5	5.6 5.6		5			
	1					1.0	0.4	190	18.4				31.7		96.1				6.2		9			
					Surface	1.0	0.3	190	18.4	18.4	7.8 7.8	7.8	31.7	31.7	96.1	96.1	7.5 7.5		6.1		10			
						3.6	0.3	175	18.3		7.8		31.7		96.0		7.5	7.5	6.4		9			
IM1	Sunny	Moderate	16:36	7.2	Middle	3.6	0.3	178	18.3	18.3	7.8	7.8	31.7	31.7	96.0	96.0	7.5 7.5		6.4	8.0	8	9	818363	806470
						6.2	0.2	191	18.2		7.8		31.8		96.0		7.5		11.5		9			
					Bottom	6.2	0.2	195	18.2	18.2	7.8	7.8	31.8	31.8	96.0	96.0	7.5	7.5	11.5		8			
	1				. <i>i</i>	1.0	0.3	185	18.4			= 0	31.5		96.1				5.4		8			
					Surface	1.0	0.3	179	18.4	18.4	7.9 7.9	7.9	31.5	31.5	96.1	96.1	7.5 7.5		5.4		7			
	0	Madamata	40.04		Middle	4.2	0.3	178	18.3	18.3	7.9	7.9	31.5	04.5	96.0	96.0	7.5	7.5	6.7	8.8	9		040400	806252
IM2	Sunny	Moderate	16:24	8.3	IVIIDAIE	4.2	0.2	173	18.3	18.3	7.9	7.9	31.5	31.5	96.0	96.0	7.5		6.7	8.8	8	9	819188	806252
					Bottom	7.3	0.2	182	18.3	18.3	7.9	7.9	31.7	31.7	96.3	96.3	7.5	7.5	14.2		9			
					Bollom	7.3	0.3	184	18.3	10.5	7.9	7.9	31.7	31.7	96.3	90.3	7.5	7.5	14.3		10			
					Surface	1.0	0.2	111	18.5	18.5	7.9 7.9	7.9	30.2	30.2	94.8	94.8	7.4		2.5		4			
					Guildee	1.0	0.2	112	18.5	10.5		1.9	30.2	50.2	94.8	34.0	7.4	7.4	2.5		4			
IM7	Sunny	Rough	15:49	8.5	Middle	4.3	0.2	133	18.5	18.5	7.9	7.9	30.7	30.7	94.5	94.5	7.4	·	5.0	4.4	5	5	821340	806819
	Contry	rtougn	10.40	0.0	widdie	4.3	0.2	131	18.5	10.0	7.9	7.5	30.7	00.7	94.5	0.4.0	7.4		4.9		5	5	021040	000013
					Bottom	7.5	0.2	113	18.4	18.4	7.8	7.8	30.9	30.8	94.9	95.0	7.4	7.4	5.7		5			
					Lottom	7.5	0.2	120	18.4	10.4	7.8	7.0	30.8	00.0	95.1	55.0	7.4	·	5.7		6			

DA: Depth-Averaged

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

Water Quality Monitoring

Water Quality Monitoring Results on 25 February 23 during Mid-Ebb Tide

Water Qua	lity Monit	oring Resu	lits on		25 February 23	during Mid-		9																
Monitoring	Weather	Sea	Sampling	Water	Sampling Dep	th (m)	Current Speed	Current	Water To	emperature (°C)		pН	Salin	nity (ppt)		aturation (%)	Disso Oxy		Turbidity	/(NTU)	Suspende (mg		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dep	ouri (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.2	74	19.0	19.0	8.0	8.0	30.1	30.1	92.5	92.5	7.2		3.3		4			
					Guildoo	1.0	0.3	68	19.0	10.0	8.0	0.0	30.1	00.1	92.4	02.0	7.2	7.2	3.3		4			
IM10	Misty	Moderate	15:05	9.8	Middle	4.9	0.2	82	19.0	19.0	8.0	8.0	30.1	30.1	92.5	92.6	7.2		5.0	4.6	4	4	822252	809847
						4.9	0.3	76	19.0		8.0		30.1		92.6		7.2		5.0		5			
					Bottom	8.8	0.1	79	18.9	18.9	8.0	8.0	30.1	30.1	92.8	92.8	7.2	7.2	5.6	-	5			
						8.8 1.0	0.2	77 89	18.9		8.0		30.1		92.8		7.2		5.6		4			
					Surface	1.0	0.4	89	19.0 19.0	19.0	8.1 8.1	8.1	30.1 30.1	30.1	94.6 94.7	94.7	7.3 7.4		1.1 1.2	-	3			
						4.2	0.4	86	19.0		8.1		30.1		97.7		7.4	7.5	2.0	-	4			
IM11	Misty	Moderate	15:23	8.4	Middle	4.2	0.4	92	18.9	19.0	8.1	8.1	30.1	30.1	98.0	97.9	7.6		2.0	2.3	5	4	821487	810552
					_	7.4	0.4	81	18.8		8.0		30.3		99.1		7.7		3.9		5			
					Bottom	7.4	0.3	84	18.7	18.8	8.0	8.0	30.3	30.3	99.3	99.2	7.7	7.7	3.8		5			
			1		o /	1.0	0.3	101	19.0	10.0	8.1		30.1		95.2	05.0	7.4		2.0	1	5			
					Surface	1.0	0.4	98	19.0	19.0	8.1	8.1	30.1	30.1	95.3	95.3	7.4	7.5	2.0		4			
1140	Mintur	Madavata	45.00	0.0	Middle	4.0	0.3	104	19.0	10.0	8.0	8.0	30.1	30.1	97.0	07.4	7.5	1.5	2.9	2.9	5	5	001101	044520
IM12	Misty	Moderate	15:28	8.0	Ivilddie	4.0	0.4	101	19.0	19.0	8.0	8.0	30.1	30.1	97.1	97.1	7.5		2.9	2.9	4	5	821161	811539
					Bottom	7.0	0.3	71	18.9	18.9	8.0	8.0	30.1	30.1	98.3	98.5	7.6	7.7	4.0		6			
					Bollom	7.0	0.3	76	18.9	10.9	8.0	0.0	30.1	30.1	98.6	90.5	7.7	1.1	3.8		4			
					Surface	1.0	0.0	33	19.0	19.0	8.0	8.0	30.1	30.1	93.9	93.9	7.3		1.1		4			
					Cunado	1.0	0.0	38	19.0	1010	8.0	0.0	30.1	00.1	93.9	00.0	7.3	7.3	1.2	_	4			
SR1A	Misty	Moderate	15:41	5.2	Middle	2.6	0.1	61	-	-	-	-	-	-	-	-	-		-	1.5	-	5	819981	812665
						2.6	-	56	-		-		-		-		-		-	-	-			
					Bottom	4.2	0.1	66	19.0	19.0	8.0 8.0	8.0	30.1	30.0	93.9	94.0	7.3	7.3	1.9	-	6			
			-			4.2	0.1	64	19.0				30.0		94.0		7.3		2.0		5			
					Surface	1.0	0.3	65 70	19.0 19.0	19.0	8.1 8.0	8.0	30.3 30.3	30.3	97.9 98.1	98.0	7.6 7.6		2.7 2.6	-	6 5			
						-	0.3	59	- 19.0		- 0.0		- 30.3		- 90.1		7.0	7.6	- 2.0	-	-			
SR2	Misty	Moderate	15:59	5.6	Middle	-	0.3	56	-	-	-	-	-	-	-	-	-		-	2.7		6	821471	814155
						4.6	0.3	48	19.1		8.0		30.2		99.3		7.7		2.7	-	7			
					Bottom	4.6	0.2	45	19.2	19.2	8.0	8.0	30.1	30.1	99.6	99.5	7.7	7.7	2.8	-	6			
						1.0	0.2	147	18.4		7.8		30.8		94.4		7.4		7.6		10			
					Surface	1.0	0.2	147	18.4	18.4	7.8	7.8	30.8	30.8	94.4	94.4	7.4	7.4	7.6		9			
SR3	Cummu	Davish	45.05	0.0	Middle	4.3	0.2	150	18.3	40.2	7.8	7.0	30.8	20.0	94.2	04.0	7.4	7.4	9.6		10	10	000400	807549
583	Sunny	Rough	15:35	8.6	Middle	4.3	0.2	152	18.3	18.3	7.8	7.8	30.8	30.8	94.2	94.2	7.4		9.9	9.0	10	10	822128	807549
					Bottom	7.6	0.2	151	18.3	18.3	7.8	7.8	30.9	30.9	94.3	94.3	7.4	7.4	9.5		12			
					Bollom	7.6	0.2	156	18.3	10.5	7.8	7.0	30.9	30.9	94.3	54.5	7.4	7.4	9.5		11			
					Surface	1.0	0.0	63	18.4	18.4	7.9	7.9	31.5	31.5	96.5	96.5	7.5		6.8		8			
					Cunado	1.0	0.0	63	18.4	1011	7.9		31.5	01.0	96.5	00.0	7.5	7.5	6.8	1	9			
SR4A	Sunny	Moderate	17:41	10.4	Middle	5.2	0.0	79	18.3	18.3	7.9	7.9	31.5	31.5	95.8	95.8	7.5		8.2	8.2	11	10	817202	807789
	,			-		5.2	0.0	76	18.3		7.9	-	31.5		95.8		7.5		8.2	-	10	-		
			1		Bottom	9.4	0.0	78	18.3	18.3	7.9	7.9	31.4	31.4	96.1	96.1	7.5	7.5	9.7	4	10			
			<u> </u>			9.4	0.0	72	18.3		7.9		31.4	l	96.1		7.5		9.7	1	11			
			1		Surface	1.0	-	-	19.0	19.0	8.0 8.0	8.0	30.0	30.0	98.5 98.7	98.6	7.7		1.8	-	5			
			1			1.0	-	-	19.0		- 8.0		30.0		- 98.7		7.7	7.7	1.7	-	6			
SR8	Misty	Moderate	15:32	5.0	Middle	-	-	-	-	-	-	-	-		-	-	-		-	2.1	-	6	820402	811600
			1			4.0	-	-	18.8		8.0		30.1	<u> </u>	- 101.3		7.9		2.6	1	7			
			1		Bottom	4.0	-	-	18.8	18.8	8.0	8.0	30.1	30.1	101.3	101.7	7.9	7.9	2.0	1	6			
			1		1	4 .0	-	-	10.0		0.0		00.1	I	102.0		1.3		2.5	1	U		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

Water Quality Monitoring

Water Quality Monitoring Results on 25 February 23 during Mid-Flood Tide

Water Qua	ity Monito	bring Resu	its on		25 February 23	during Mid-	F1000 11	ae																
Monitoring	Weather	Sea	Sampling	Water	Sampling Dep	oth (m)	Current Speed	Current	Water Te	emperature (°C)		pН	Salin	ity (ppt)		aturation (%)	Disso Oxyg		Turbidity	(NTU)	Suspende (mg		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling De	puri (III)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					0	1.0	0.2	29	18.2	18.2	7.8	7.0	31.4	04.4	95.0	05.0	7.4		9.2		16			
					Surface	1.0	0.2	27	18.2	18.2	7.8	7.8	31.4	31.4	95.0	95.0	7.4		9.3		16			
01	F 1	David	00.00	7.4	MAT JUL	3.6	0.2	26	18.2	18.2	7.8	7.0	31.4	04.4	94.7	94.7	7.4	7.4	10.9	10.9	18	17	045005	004007
C1	Fine	Rough	09:36	7.1	Middle	3.6	0.2	31	18.2	18.2	7.8	7.8	31.4	31.4	94.7	94.7	7.4		11.0	10.9	17	17	815635	804267
					Dettern	6.1	0.2	16	18.2	18.2	7.8	7.8	31.3	31.3	94.7	94.7	7.4	7.4	12.6		18			
					Bottom	6.1	0.2	12	18.2	18.2	7.8	7.8	31.3	31.3	94.7	94.7	7.4	7.4	12.6		17			
					Surface	1.0	0.4	3	18.5	18.5	7.8	7.8	30.1	30.1	94.1	94.1	7.4		2.6		4			
					Sunace	1.0	0.4	5	18.5	18.5	7.8 7.8	7.8	30.1	30.1	94.1	94.1	7.4	7.4	2.6		4			
C2	Fine	Rough	11:27	8.5	Middle	4.3	0.5	334	18.5	18.5	7.8	7.8	30.1	30.1	93.7	93.7	7.3	7.4	2.6	2.8	4	4	825669	806941
02	1 1116	Rough	11.27	0.5	Middle	4.3	0.4	330	18.5	10.5	7.8	7.0	30.1	50.1	93.7	93.7	7.3		2.7	2.0	4	4	023009	000941
					Bottom	7.5	0.5	349	18.4	18.4	7.8	7.8	30.1	30.1	93.6	93.6	7.3	7.3	3.1		5			
					Dottoin	7.5	0.4	352	18.4	10:4	7.8	7.0	30.1	50.1	93.6	35.0	7.3	7.5	3.1		4			
					Surface	1.0	0.5	271	18.7	18.7	7.9	7.9	31.2	31.2	90.8	90.8	7.0		2.8		4			
					Guildoo	1.0	0.5	275	18.7	1011	7.9		31.2	0112	90.8	00.0	7.0	7.1	2.8	_	5			
C3	Misty	Moderate	10:42	10.2	Middle	5.1	0.5	276	18.7	18.7	7.9	7.9	31.2	31.2	91.2	91.2	7.1		3.1	3.1	5	6	822127	817811
	5					5.1	0.5	272	18.7		7.9		31.2		91.2		7.1		3.0	-	4			
					Bottom	9.2	0.5	277	18.7	18.7	7.9 7.9	7.9	31.2	31.2	92.3	92.4	7.2	7.2	3.5	-	7			
						9.2	0.5	283	18.7				31.2		92.5		7.2		3.6		8			
					Surface	1.0	0.2	5 7	18.3 18.3	18.3	7.8 7.8	7.8	31.2 31.2	31.2	94.4 94.4	94.4	7.4 7.4		7.6	-	12 13			
						3.5	0.2	36	18.3		7.9		31.2		94.4 94.5		7.4	7.4	7.6		13			
IM1	Fine	Moderate	10:00	6.9	Middle	3.5	0.2	41	18.3	18.3	7.9	7.9	31.2	31.2	94.5	94.5	7.4		7.6	9.1	13	14	818349	806468
						5.9	0.2	35	18.3		7.9		31.1		94.7		7.4		12.1	-	15			
					Bottom	5.9	0.2	27	18.3	18.3	7.9	7.9	31.1	31.1	94.8	94.8	7.4	7.4	12.1		15			
						1.0	0.2	1	18.3		7.8		31.2		94.9		7.4		7.4		14			
					Surface	1.0	0.2	0	18.3	18.3	7.8	7.8	31.2	31.2	94.8	94.9	7.4		7.3		13			
						3.4	0.1	4	18.3	10.0	7.9		31.2		94.8		7.4	7.4	9.5		12			
IM2	Fine	Moderate	10:12	6.8	Middle	3.4	0.1	1	18.3	18.3	7.9	7.9	31.2	31.2	94.8	94.8	7.4		9.5	8.9	11	12	819178	806241
					D. H	5.8	0.1	346	18.3	40.0		7.9	31.1	04.4	95.0	05.4	7.4	7.4	9.8		11			
					Bottom	5.8	0.2	349	18.3	18.3	7.9 7.9	7.9	31.1	31.1	95.1	95.1	7.4	7.4	9.7		10			
					Surface	1.0	0.2	331	18.4	18.4	7.8 7.8	7.8	30.2 30.2	30.2	94.2	94.2	7.4		2.9		6			
					Sunace	1.0	0.2	332	18.4	10.4		1.0		30.2	94.2	94.2	7.4 7.4	7.4	2.9		7			
IM7	Fine	Rough	10:43	8.2	Middle	4.1	0.2	322	18.4	18.4	7.8	7.8	30.3	30.3	93.9	93.9	7.4	7.4	3.6	4.5	8	8	821364	806832
11/17	1 110	Rough	10.43	0.2	ivildule	4.1	0.2	324	18.4	10.4	7.8	1.0	30.3	50.5	93.9	33.9	7.4		3.6	т .5	8	3	021304	000032
					Bottom	7.2	0.2	323	18.3	18.3	7.8	7.8	30.9	30.9	93.8	93.8	7.3	7.3	7.0		10			
					Dottom	7.2	0.2	325	18.3	10.0	7.8	7.0	30.9	00.0	93.8	00.0	7.3	1.0	7.0		9			

DA: Depth-Averaged

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

Water Quality Monitoring

Water Quality Monitoring Results on 25 February 23 during Mid-Flood Tide

Water Qual	ity Monit	oring Resu	its on		25 February 23	during Mid-	Flood II	de																
Monitoring	Weather	Sea	Sampling	Water	Sampling Dep	th (m)	Current Speed	Current	Water Te	emperature (°C)		pН	Salir	nity (ppt)		aturation (%)	Disso Oxy		Turbidity	(NTU)	Suspend (m	ed Solids g/L)	Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dep	sin (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.3	301	19.0	19.0	8.0	8.0	30.1	30.1	94.3	94.4	7.3		4.6		3			
					Gunade	1.0	0.3	296	19.0	10.0	8.0	0.0	30.1	00.1	94.5	04.4	7.3	7.4	4.7	_	4			
IM10	Misty	Moderate	11:49	9.0	Middle	4.5	0.3	295	18.9	18.9	8.0	8.0	30.1	30.1	95.9	96.0	7.5		5.4	5.5	3	4	822246	809815
-						4.5	0.3	295	18.9		8.0		30.1		96.1		7.5		5.5		4			
					Bottom	8.0	0.3	301	18.9	18.9	8.0	8.0	30.1	30.1	96.7	96.8	7.5	7.5	6.6	_	6			
						8.0 1.0	0.3	304 295	18.9		8.0		30.1		96.9		7.5		6.5		5			
					Surface	1.0	0.4	295	19.0 19.0	19.0	8.0 8.0	8.0	30.1 30.1	30.1	96.0 96.3	96.2	7.5 7.5		2.7 2.6	-	3	-		
						3.9	0.4	291	19.0		8.0		30.1		96.3 96.8		7.5	7.5	3.7	-	4	-		
IM11	Misty	Moderate	11:41	7.8	Middle	3.9	0.4	296	18.9	18.9	8.0	8.0	30.1	30.1	90.0	96.9	7.5		3.8	3.5	4	4	821486	810544
						6.8	0.4	294	18.9		8.0		30.1		97.9		7.6		4.0	-	5	-		
					Bottom	6.8	0.3	280	18.9	18.9	8.0	8.0	30.1	30.1	98.1	98.0	7.6	7.6	4.1	-	4			
						1.0	0.4	293	19.0		8.0		30.1		94.4		7.3		4.7		4			
					Surface	1.0	0.3	296	18.9	19.0	8.0	8.0	30.1	30.1	94.5	94.5	7.3		4.8	-	4			
						4.2	0.4	286	18.9		8.0		30.1		95.5		7.4	7.4	5.3	1	4			
IM12	Misty	Moderate	11:36	8.4	Middle	4.2	0.4	292	18.9	18.9	8.0	8.0	30.1	30.1	95.8	95.7	7.4		5.5	5.4	4	4	821176	811501
					2.4	7.4	0.4	273	18.9	10.0	8.0		30.1		96.7		7.5		5.9		3			
					Bottom	7.4	0.3	270	18.9	18.9	8.0	8.0	30.1	30.1	97.0	96.9	7.5	7.5	5.9		4			
					Curfese	1.0	0.0	197	18.9	40.0	8.0		29.9	20.0	97.9	00.0	7.6		2.7		3			
					Surface	1.0	-	194	18.9	18.9	8.0	8.0	30.0	29.9	98.1	98.0	7.6	7.6	2.7		4			
SR1A	Misty	Moderate	11:13	4.2	Middle	2.1	0.0	198	-	-	-	_	-	_	-		-	7.0	-	3.0	-	4	819978	812655
SKIA	iviisty	wouerate	11.15	4.2	INILUCIE	2.1	0.0	204	-	-	-	-	-	-	-	-	-		-	3.0	-	4	019970	012033
					Bottom	3.2	0.1	178	18.9	18.9	8.0	8.0	30.0	30.0	99.3	99.7	7.7	7.8	3.3		4			
					Dottoin	3.2	0.0	176	18.9	10:5	8.0	0.0	30.0	50.0	100.0	33.1	7.8	7.0	3.3		5			
					Surface	1.0	0.1	289	18.8	18.8	8.0	8.0	30.5	30.5	93.5	93.6	7.3		5.7		3			
					edilaco	1.0	0.1	287	18.8	1010	8.0	0.0	30.5	00.0	93.6	00.0	7.3	7.3	5.6		4			
SR2	Misty	Moderate	11:00	5.8	Middle	-	0.1	272	-	-	-	-	-	-	-	-	-		-	5.9	-	4	821461	814147
-						-	0.0	274	-		-		-		-		-		-		-			-
					Bottom	4.8	0.0	276	18.8	18.8	8.0	8.0	30.5	30.5	96.1	96.2	7.5	7.5	6.1		4			
						4.8	0.1	273	18.8		8.0		30.5		96.3		7.5		6.2		5			
					Surface	1.0	0.3	346	18.5	18.5	7.8	7.8	30.2	30.2	94.4	94.4	7.4		1.9	_	3	-		
						1.0 4.3	0.3	343 320	18.5 18.5		7.8		30.2		94.4 93.8		7.4 7.4	7.4	1.8 2.1	-	2	-		
SR3	Fine	Rough	10:58	8.6	Middle	4.3	0.3	320	18.5	18.5	7.8	7.8	30.1 30.1	30.1	93.8	93.8	7.4		2.1	2.3	4	4	822137	807591
						7.6	0.3	321	18.5		7.8		30.1		93.8 93.5		7.4		2.1	-	5	-		
					Bottom	7.6	0.3	352	18.4	18.4	7.8	7.8	30.1	30.1	93.5	93.5	7.3	7.3	2.8	-	4	-		
						1.0	0.4	248	18.4		7.8		31.2		93.5		7.2		5.3	1	6			
					Surface	1.0	0.0	246	18.4	18.4	7.8	7.8	31.2	31.2	91.9	91.9	7.2		5.4	-	6			
						5.0	0.1	249	18.4		7.9		31.2		91.7		7.2	7.2	6.0	-	7			
SR4A	Fine	Moderate	08:56	9.9	Middle	5.0	0.1	252	18.4	18.4	7.9	7.9	31.2	31.2	91.7	91.7	7.2		6.1	6.1	6	7	817183	807807
						8.9	0.0	233	18.3		7.9		31.1		91.5		7.2		6.8	-	7			
					Bottom	8.9	0.0	229	18.3	18.3	7.9	7.9	31.1	31.1	91.5	91.5	7.2	7.2	6.8	1	8	1		
					Curfeee	1.0	-	-	19.0	10.0	8.0	0.0	29.9	20.0	96.9	07.0	7.5		2.3	1	4	Ī		
					Surface	1.0	-	-	19.0	19.0	8.0	8.0	29.9	29.9	97.0	97.0	7.5		2.2	1	4	1		
SR8	Michy	Madarata	11.01	4.6	Middle	-	-	-	-		-		-	1	-		-	7.5	-	24	-	4	920404	011604
SKØ	Misty	Moderate	11:31	4.6	Middle	-	-	-	-	-	-	-	-	-	-	-	-		-	2.4	-	4	820404	811604
					Bottom	3.6	-	-	19.0	19.0	8.0	8.0	29.9	29.9	97.9	98.0	7.6	7.6	2.5		3			
					Dottom	3.6	-	-	19.0	15.0	8.0	0.0	29.9	23.3	98.1	30.0	7.6	1.0	2.5	1	4	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

Water Quality Monitoring Water Quality Monitoring Results on

28 February 23 during Mid-Ebb Tide

Water Qua	ity wonit	oring Resu	its on		28 February 23	during Mid-		;																
Monitoring	Weather	Sea	Sampling	Water	Sampling Dep	th (m)	Current Speed	Current	Water Te	emperature (°C)		pН	Salin	ity (ppt)	DO S	aturation (%)	Disso Oxy		Turbidity	(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dep	un (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					0	1.0	0.3	213	18.7	10.7	8.1	0.4	31.7	04.7	99.9	00.0	7.7		3.0		3			
					Surface	1.0	0.3	206	18.6	18.7	8.1	8.1	31.7	31.7	99.6	99.8	7.7		3.0		4			
64	Claudu	Madazata	10.50	0.4	Middle	4.1	0.4	222	18.5	18.5	8.1	8.1	31.9	22.0	98.6	98.6	7.6	7.7	5.2	5.2	5	5	815625	804230
C1	Cloudy	Moderate	19:56	8.1	IVIIdale	4.1	0.4	217	18.5	18.5	8.1	0.1	32.0	32.0	98.5	98.6	7.6		5.6	5.2	5	5	813623	804230
					Bottom	7.1	0.4	232	18.4	18.4	8.1	8.1	32.1	32.1	98.3	98.4	7.6	7.6	7.2		5			
					Bollom	7.1	0.4	235	18.4	10.4	8.1	0.1	32.1	32.1	98.4	90.4	7.6	7.0	7.3		5			
					Surface	1.0	0.3	166	18.8	18.8	8.1	8.1	30.0	30.0	96.2	96.1	7.5		0.7		4			
					Sunace	1.0	0.3	168	18.8	10.0	8.1	0.1	30.1	30.0	95.9	90.1	7.5	7.4	0.7		4			
C2	Cloudy	Moderate	18:23	11.2	Middle	5.6	0.3	186	18.7	18.7	8.1	8.1	30.5	30.5	94.3	94.3	7.4	7.4	0.7	0.7	4	4	825670	806953
02	Cioudy	Moderate	10.23	11.2	IVIIdule	5.6	0.3	181	18.6	10.7	8.1	0.1	30.5	30.5	94.2	94.5	7.3		0.7	0.7	4	4	023070	000955
					Bottom	10.2	0.4	159	18.7	18.7	8.1	8.1	30.3	30.3	93.7	93.8	7.3	7.3	0.7		4			
					Bottom	10.2	0.3	164	18.7	10.7	8.1	0.1	30.2	50.5	93.9	93.0	7.3	7.5	0.7		3			
					Surface	1.0	0.3	82	18.1	18.1	8.0	8.0	32.2	32.2	93.8	93.8	7.3		3.3		3			
					Surface	1.0	0.3	87	18.1	10.1	8.0	0.0	32.2	32.2	93.8	55.0	7.3	7.3	3.2		4			
C3	Misty	Calm	19:18	10.6	Middle	5.3	0.3	57	18.1	18.2	8.0	8.0	32.2	32.2	94.0	94.0	7.3	7.5	4.4	4.2	4	3	822107	817805
03	wisty	Califi	19.10	10.6	IVIIdule	5.3	0.3	54	18.2	10.2	8.0	0.0	32.2	32.2	94.0	94.0	7.3		4.4	4.2	3	3	022107	017005
					Bottom	9.6	0.3	81	18.4	18.5	8.0	8.0	31.9	31.9	95.4 99.8	97.6	7.4	7.6	5.0		2			
					Bollom	9.6	0.4	87	18.5	10.5	8.0	0.0	31.9	51.9	99.8	97.0	7.7	7.0	5.1		3			
					Surface	1.0	0.3	186	18.7	18.7	8.1	8.1	32.1	32.1	99.4 99.2	99.3	7.7		3.0		4			
					Sunace	1.0	0.3	187	18.7	10.7	8.1	0.1	32.1	32.1	99.2	99.5	7.7	7.7	3.2		5			
IM1	Cloudy	Moderate	19:32	7.0	Middle	3.5	0.3	201	18.6	18.6	8.1	8.1	32.1	32.1	98.5	98.5	7.6	1.1	4.3	4.2	5	4	818341	806439
	Cloudy	Moderate	10.02	7.0	Middle	3.5	0.3	200	18.6	10.0	8.1	0.1	32.1	52.1	98.5	30.5	7.6		4.5	7.2	4	-	010041	000433
					Bottom	6.0	0.3	214	18.5	18.5	8.1	8.1	32.2	32.2	98.4 98.6	98.5	7.6	7.6	5.0		4			
					Dottom	6.0	0.3	213	18.5	10.5	8.1	0.1	32.2	52.2	98.6	30.5	7.6	7.0	5.0		4			
					Surface	1.0	0.3	207	19.0	19.0	8.1	8.1	32.1	32.1	101.8	101.8	7.8		1.3		5			
					Canade	1.0	0.3	210	19.0	10.0	8.1	0.1	32.1	02.1	101.7	101.0	7.8	7.8	1.3		6			
IM2	Cloudy	Moderate	19:26	7.5	Middle	3.8	0.3	214	18.6	18.6	8.1	8.1	32.1	32.1	100.0	100.0	7.7	7.0	1.5	3.8	6	5	819182	806213
11112	Cloudy	moderate	10.20	1.0	Middle	3.8	0.4	212	18.6	10.0	8.1	0.1	32.1	02.1	99.9	100.0	7.7		1.7	0.0	4	Ū	010102	000210
					Bottom	6.5	0.3	202	18.6	18.6	8.0	8.0	32.2	32.1	100.2	100.3	7.7	7.8	8.4		4			
					Bettern	6.5	0.3	203	18.6	10.0	8.0	0.0	32.1	02.1	100.4	100.0	7.8	7.0	8.4		4			
					Surface	1.0	0.1	163	18.4	18.4	8.1	8.1	31.2	31.3	97.0	97.0	7.6		1.2		6			
					Gundoo	1.0	0.1	164	18.4	10.4	8.1	0.1	31.3	01.0	97.0	07.0	7.6	7.6	1.3		5		1	
IM7	Cloudy	Moderate	19:03	8.7	Middle	4.4	0.1	175	18.4	18.4	8.0	8.0	31.6	31.6	97.3	97.4	7.6		1.6	1.8	4	5	821358	806851
	Cloudy	moderate	10.00	0.7	Middlo	4.4	0.1	170	18.4	10.4	8.0	0.0	31.6	01.0	97.4	01.4	7.6		1.7		5	0	021000	000001
					Bottom	7.7	0.1	148	18.4	18.4	8.0	8.0	31.8	31.7	98.1	98.2	7.6	7.6	2.3		4		1	
					Dottom	7.7	0.2	143	18.4	10.4	8.0	0.0	31.7	51.7	98.3	30.2	7.6	7.0	2.3		4			

DA: Depth-Averaged

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

Water Quality Monitoring

Water Quality Monitoring Results on 28 February 23 during Mid-Ebb Tide

Water Qual	ity Monit	oring Resu	its on		28 February 23	during Mid-		3																
Monitoring	Weather	Sea	Sampling	Water	Sampling Dep	th (m)	Current Speed	Current	Water Te	mperature (°C)		pН	Salir	nity (ppt)		aturation (%)		olved /gen	Turbidity	(NTU)	Suspende (mg		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Camping Bop		(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.3	109	17.9	17.9	8.0	8.0	31.7	31.7	94.6	94.6	7.4		1.0		2			
						1.0	0.4	101	17.9		8.0		31.7	•	94.6		7.4	7.4	1.1	_	2			
IM10	Misty	Calm	18:26	7.6	Middle	3.8	0.3	104	17.9	17.9	8.0	8.0	31.7	31.7	94.7	94.8	7.4		1.9	1.7	2	3	822220	809843
						3.8 6.6	0.3	107 112	17.9		8.0		31.7		94.8		7.4		2.0	-	3			
					Bottom	6.6	0.4	112	17.9 17.9	17.9	8.0 8.0	8.0	31.7 31.7	31.7	94.9 95.0	95.0	7.4	7.5	2.3 2.3	-	3			
						1.0	0.4	107	17.9		8.0		31.7		97.6		7.7		1.1		3			
					Surface	1.0	0.4	107	17.9	17.9	8.0	8.0	31.7	31.7	97.8	97.7	7.7		1.1	-	4			
		<u>.</u>				4.0	0.4	92	17.9	17.0	8.1		31.7	o	98.7		7.7	7.7	1.2	1	3			
IM11	Misty	Calm	18:31	8.0	Middle	4.0	0.4	87	17.9	17.9	8.1	8.1	31.7	31.7	98.9	98.8	7.8		1.1	1.5	3	3	821492	810531
					Bottom	7.0	0.4	82	17.9	17.9	8.1	8.1	31.7	24.7	99.7	99.9	7.8	7.9	2.2		2			
					Bollom	7.0	0.4	75	17.9	17.9	8.1	8.1	31.7	31.7	100.1	99.9	7.9	7.9	2.2		2			
					Surface	1.0	0.3	113	17.9	17.9	8.1	8.1	31.7	31.7	98.9	99.0	7.8		1.6		4			
					Gunace	1.0	0.3	110	17.9	17.5	8.1	0.1	31.7	51.7	99.1	33.0	7.8	7.8	1.5		4			
IM12	Misty	Calm	18:37	7.6	Middle	3.8	0.4	84	17.8	17.8	8.1	8.1	31.7	31.7	99.7	99.9	7.8		1.7	1.7	3	4	821139	811536
						3.8	0.4	80	17.8		8.1		31.7		100.0		7.9		1.6		4			
					Bottom	6.6	0.4	87	17.8	17.8	8.1	8.1	31.7	31.7	101.2	101.4	8.0	8.0	1.8		3			
						6.6	0.4	85	17.8		8.1		31.7		101.6		8.0		1.8		3			
					Surface	1.0	0.0	68	18.0 18.0	18.0	8.0 8.0	8.0	31.8	31.8	93.5 94.8	94.2	7.3		2.0	-	4			
						2.1	0.1	62 69	- 18.0		8.0		31.8		94.8		7.4	7.4	2.1	-	5			
SR1A	Misty	Calm	18:49	4.2	Middle	2.1	0.1	63	-	-	-	-	-	-	-	- +	-		-	2.1	-	4	819975	812653
						3.2	-	82	17.9		8.1		31.8		97.8		7.7		2.1	-	4			
					Bottom	3.2	-	78	17.9	17.9	8.1	8.1	31.8	31.8	99.4	98.6	7.8	7.8	2.2	-	4			
						1.0	0.3	47	18.1	10.1	8.1		31.9		100.3	100.1	7.8		1.2	1	3			
					Surface	1.0	0.3	45	18.1	18.1	8.1	8.1	31.9	31.9	100.5	100.4	7.9	7.9	1.3		3			
SR2	Misty	Calm	18:57	5.2	Middle	-	0.3	47	-		-		-		-	-	-	7.9	-	1.4	-	3	821443	814188
3RZ	wisty	Califi	10.07	5.2	IVIIdale	-	0.2	51	-	-	-	-	-	-	-	-	-		-	1.4	-	3	021443	014100
					Bottom	4.2	0.4	65	18.0	18.0	8.1	8.1	31.9	31.9	101.4	101.6	7.9	8.0	1.4		3			
					Bottom	4.2	0.3	70	18.0	1010	8.1	0.1	31.9	01.0	101.7		8.0	0.0	1.5		2			
					Surface	1.0	0.3	167	18.5	18.5	8.1	8.1	31.0	31.0	95.6	95.5	7.5		1.4	_	3			
						1.0	0.3	162	18.5		8.1	-	31.0		95.4		7.4	7.4	1.5		4			
SR3	Cloudy	Moderate	18:56	8.7	Middle	4.4	0.4	163	18.3	18.3	8.1	8.1	31.2	31.2	93.5	93.4	7.3		2.3	2.0	4	4	822145	807561
						4.4	0.4	160 142	18.3		8.1		31.3		93.3		7.3		2.5	-	4			
					Bottom	7.7	0.3	142	18.4 18.4	18.4	8.0 8.0	8.0	31.5 31.5	31.5	92.7 92.7	92.7	7.2	7.2	2.1	-	5			
						1.0	0.0	145	18.9		8.3		32.2		100.4		7.7		3.2	1	3			
					Surface	1.0	0.0	8	18.9	18.9	8.3	8.3	32.2	32.2	100.4	100.4	7.7		3.2	-	4			
						4.3	0.0	20	18.7		8.3		32.2		99.6		7.7	7.7	4.7	-	5			
SR4A	Cloudy	Moderate	20:24	8.6	Middle	4.3	0.0	21	18.7	18.7	8.3	8.3	32.2	32.2	99.5	99.6	7.7		4.9	4.3	4	4	817197	807806
					Dettern	7.6	0.1	3	18.7	40.7	8.2	0.0	32.2	22.2	99.8	00.0	7.7	77	5.0		5			
					Bottom	7.6	0.0	9	18.7	18.7	8.2	8.2	32.2	32.2	100.0	99.9	7.7	7.7	4.9		5			
					Surface	1.0	-	-	17.9	17.9	8.1	8.1	31.7	31.7	99.1	99.2	7.8		3.1		2			
					Sullace	1.0	-	-	17.9	17.9	8.1	0.1	31.7	51.7	99.3	39.Z	7.8	7.8	3.0]	3]		
SR8	Misty	Calm	18:41	5.6	Middle	-	-	-	-	-	-	-	-		-	L _	-	1.0	-	3.9	-	3	820399	811631
0.00	willoty	Cain	10.41	0.0	Middle	-	-	-	-		-		-		-		-	L	-	0.0	-	Ŭ	020000	011001
					Bottom	4.6	-	-	17.9	17.9	8.1	8.1	31.7	31.7	100.8	101.2	7.9	8.0	4.8	4	3			
			1			4.6	-	-	17.9		8.1		31.7		101.5		8.0		4.9		3			

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

Water Quality Monitoring Water Quality Monitoring Results on

sults on 28 February 23 during Mid-Flood Tide

Water Qual	ity Monit	oring Resu	its on		28 February 23	during Mid-	Flood II	de																
Monitoring	Weather	Sea	Sampling	Water	Queen line Dec	11. ()	Current Speed	Current	Water Te	emperature (°C)	F	эΗ	Salir	nity (ppt)		aturation (%)	Disso Oxyg		Turbidity	(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dep	otn (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					o /	1.0	0.1	217	18.5	10.5	8.0		32.1		97.7		7.6		2.7		4			
					Surface	1.0	0.0	215	18.5	18.5	8.0	8.0	32.1	32.1	97.6	97.7	7.6		3.0		4			
01	Olauta	Madamata	00.50		M. J. II.	4.1	0.1	222	18.5	40.5	8.0		32.1	00.4	97.2	97.2	7.5	7.6	6.3		5	-	045000	004057
C1	Cloudy	Moderate	06:52	8.2	Middle	4.1	0.1	217	18.5	18.5	8.0	8.0	32.1	32.1	97.2	97.2	7.5		6.5	4.6	4	5	815609	804257
					Detter	7.2	0.1	188	18.5	18.5	8.0	8.0	32.2	00.0	97.1	97.1	7.5	7.5	4.7		6			
					Bottom	7.2	0.1	184	18.5	18.5	8.0	8.0	32.2	32.2	97.1	97.1	7.5 7.5	7.5	4.7		5			
					Surface	1.0	0.3	162	19.0	19.0	8.1	8.1	29.8	29.8	98.7	98.7	7.7		1.5		3			
					Surface	1.0	0.2	169	19.0	19.0	8.1	8.1	29.8	29.8	98.7 98.6	98.7	7.7	7.5	1.5		3			
C2	Cloudy	Moderate	08:21	12.8	Middle	6.4	0.3	158	18.7	18.7	8.0	8.0	30.5	30.5	93.9 93.8	93.9	7.3	7.5	0.8	1.1	4	4	825666	806966
02	Cibudy	Woderate	00.21	12.0	widdle	6.4	0.3	162	18.7	10.7	8.0	0.0	30.5	30.5	93.8	93.9	7.3		0.8	1.1	4	4	023000	000900
					Bottom	11.8	0.2	195	18.6	18.6	8.0	8.0	30.7	30.7	93.5	93.6	7.3	7.3	0.9		6			
					Bettom	11.8	0.2	202	18.6	10.0	8.0	0.0	30.7		93.6	00.0	7.3	7.0	0.9		6			
					Surface	1.0	0.1	23	18.1	18.1	8.1	8.1	31.5	31.5	91.8	91.8	7.2 7.2	L	1.0		3			
						1.0	0.1	25	18.1		8.1		31.5		91.7		7.2	7.2	1.1		3			
C3	Misty	Calm	07:54	11.0	Middle	5.5	0.1	12	18.1	18.1	8.1	8.1	31.5	31.5	91.6	91.6	7.2	_	1.1	1.2	4	4	822132	817816
						5.5	0.1	6	18.1		8.1		31.5		91.6		7.2		1.1	-	3			
					Bottom	10.0 10.0	0.0	24	18.1 18.1	18.1	8.1 8.1	8.1	31.5 31.4	31.5	91.9 92.1	92.0	7.2 7.2	7.2	1.4 1.4		5 5			
						1.0	0.0	24 195	-		-								4.3		-			
					Surface	1.0	0.1	195	18.5 18.5	18.5	8.1 8.1	8.1	32.2 32.2	32.2	98.1 97.9	98.0	7.6 7.6	-	4.3		4			
						3.2	0.1	191	18.5		8.1		32.2				7.5	7.6	7.5		4			
IM1	Cloudy	Moderate	07:15	6.3	Middle	3.2	0.1	194	18.5	18.5	8.0	8.0	32.2	32.2	97.5 97.4	97.5	7.5	-	7.9	7.6	3	3	818355	806453
						5.3	0.1	213	18.5		8.0		32.2		97.4		7.5		10.7		3			
					Bottom	5.3	0.1	217	18.5	18.5	8.0	8.0	32.2	32.2	97.4	97.4	7.5	7.5	10.3		3			
					Ourford	1.0	0.1	208	18.6	10.0	8.0		32.1	00.4	97.8	07.0	7.6		3.6		3			
					Surface	1.0	0.1	209	18.6	18.6	8.0	8.0	32.2	32.1	97.8 97.7	97.8	7.6 7.6	7.6	3.6		2			
IM2	Cloudy	Moderate	07:21	7.0	Middle	3.5	0.1	219	18.5	18.5	8.0	8.0	32.2	32.2	97.4	97.4	7.5	7.0	4.0	4.7	2	3	819163	806229
TIVIZ	Cioudy	wouerate	07.21	7.0	IVIIdule	3.5	0.1	217	18.5	10.5	8.0	8.0	32.2	32.2	97.4	97.4	7.5		4.2	4.7	3	3	019103	000229
					Bottom	6.0	0.1	217	18.5	18.5	8.0	8.0	32.2	32.2	98.0 98.2	98.1	7.6	7.6	6.6		4			
					Dottom	6.0	0.1	218	18.5	10:5	8.0	0.0	32.2	52.2		30.1	7.6	7.0	6.2		4			
					Surface	1.0	0.1	224	18.4	18.4	8.0 8.0	8.0	31.3	31.4	94.5 94.3	94.4	7.4	Ţ	1.6		3			
						1.0	0.1	228	18.4				31.4				7.3	7.3	1.7		4			
IM7	Cloudy	Moderate	07:43	8.1	Middle	4.1	0.1	198	18.4	18.4	8.0	8.0	31.8	31.8	94.1	94.1	7.3		2.5	2.4	4	4	821329	806848
						4.1	0.1	199	18.4		8.0	-	31.8		94.1		7.3		2.6		4			
					Bottom	7.1	0.1	197	18.4	18.4	8.0 8.0	8.0	32.0 32.0	32.0	94.2 94.2	94.2	7.3 7.3	7.3	3.0	4	5			
						7.1	0.1	190	18.4		8.0		32.0		94.2		7.3		3.0	1	4			

DA: Depth-Averaged

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

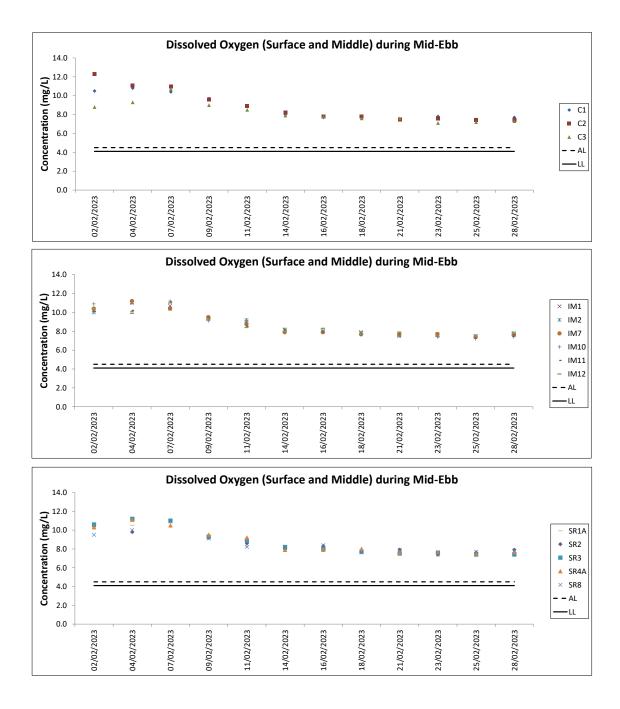
Water Quality Monitoring

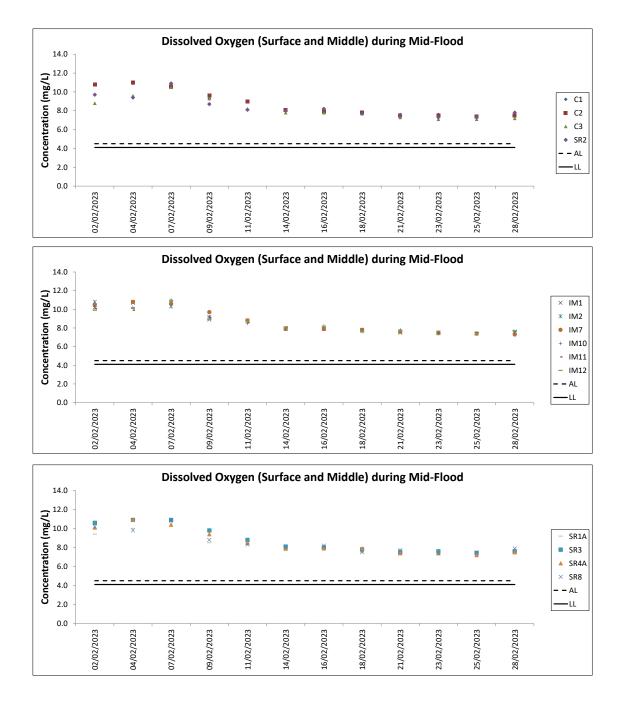
Water Quality Monitoring Results on 28 February 23 during Mid-Flood Tide

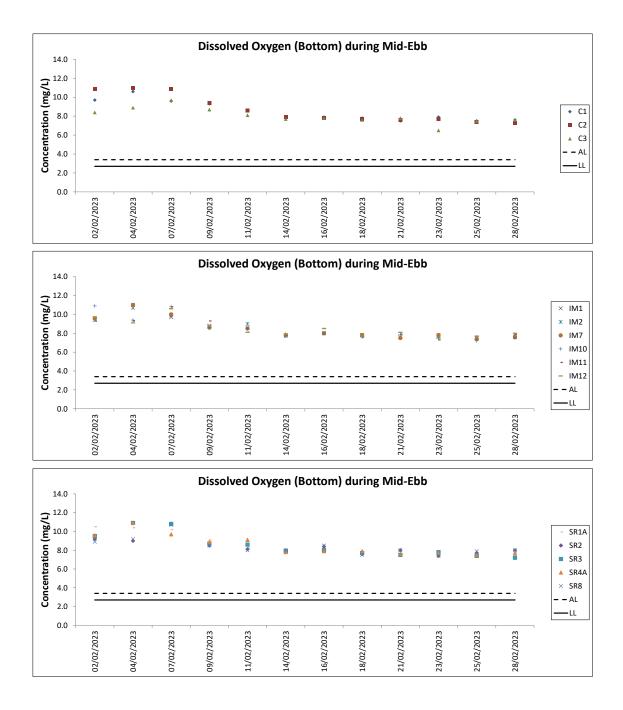
Water Qual	ity Monit	oring Resu	Its on		28 February 23	during Mid-	Flood II	de																
Monitoring	Weather	Sea	Sampling	Water	Sampling Dep	th (m)	Current Speed	Current	Water Te	mperature (°C)		pН	Salin	nity (ppt)	DO S	aturation (%)	Disso Oxy		Turbidity	(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dep	ur (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.0	145	17.9	17.9	8.0	8.0	31.7	31.7	96.1	96.3	7.5		1.9		4			
					Gundoe	1.0	0.0	150	17.9	17.5	8.0	0.0	31.7	01.7	96.4	00.0	7.6	7.6	1.9		4			
IM10	Misty	Calm	08:51	8.0	Middle	4.0	0.0	160	17.9	17.9	8.0	8.0	31.7	31.7	97.4	97.5	7.6		2.0	2.1	5	4	822231	809828
						4.0	0.1	158	17.9	-	8.0		31.7	_	97.5		7.7	-	2.1		4			
					Bottom	7.0	0.1	152	17.9	17.9	8.0	8.0	31.7	31.7	98.2	98.3	7.7	7.7	2.4		5			
						7.0 1.0	0.1	159	17.9		8.0		31.7		98.4		7.7		2.4		4			
					Surface	1.0	0.0	151 148	18.0 18.0	18.0	8.0 8.0	8.0	31.7 31.7	31.7	97.2 97.5	97.4	7.6 7.6		1.7 1.8		3			
						4.5	0.0	148	17.9		8.0		31.7		97.5 98.3		7.6	7.7	2.0	-	3			
IM11	Misty	Calm	08:47	9.0	Middle	4.5	-	156	17.9	17.9	8.0	8.0	31.7	31.7	98.5	98.4	7.7		2.0	2.2	3	3	821523	810561
						8.0	0.0	129	17.9		8.1		31.7		100.2		7.9		2.1		3			
					Bottom	8.0	0.0	134	17.9	17.9	8.1	8.1	31.7	31.7	100.2	100.5	7.9	7.9	2.7		2			
						1.0	0.0	92	17.9		8.1		31.7		97.3		7.6		1.7		3			
					Surface	1.0	0.0	95	17.9	17.9	8.1	8.1	31.7	31.7	97.6	97.5	7.7		1.7		3			
						4.2	0.1	108	17.8		8.1		31.7		98.4		7.7	7.7	1.8		3			
IM12	Misty	Calm	08:42	8.4	Middle	4.2	0.1	108	17.8	17.8	8.1	8.1	31.7	31.7	98.7	98.6	7.8		1.7	1.8	3	3	821178	811541
					D //	7.4	0.1	79	17.8	17.0	8.1		31.7	o	99.5		7.8	= 0	1.9		4			
					Bottom	7.4	0.1	75	17.8	17.8	8.1	8.1	31.7	31.7	99.8	99.7	7.8	7.8	1.9		4			
					0(1.0	0.0	209	17.8	17.0	8.0		31.5	04.5	98.2	00.4	7.7		3.1		3			
					Surface	1.0	0.1	205	17.8	17.8	8.0	8.0	31.5	31.5	98.5	98.4	7.7	7.7	3.2		2			
SR1A	Misty	Calm	08:23	5.6	Middle	2.8	-	209	-	-	-	_	-	_	-	_	-	1.1	-	3.8	-	3	819980	812653
SKIA	wiisty	Califi	00.23	5.0	Middle	2.8	0.0	204	-	-	-	-	•	-	-	-	-		-	5.0	-	5	019900	012033
					Bottom	4.6	-	198	17.8	17.8	8.0	8.0	31.5	31.5	100.5	100.6	7.9	7.9	4.6		3			
					Bottom	4.6	0.0	196	17.8	17.0	8.0	0.0	31.5	51.5	100.6	100.0	7.9	1.5	4.5		3			
					Surface	1.0	0.1	52	18.0	18.0	8.1	8.1	31.8	31.8	99.0	99.2	7.8		1.4		2			
						1.0	0.1	46	18.0		8.1		31.8		99.3		7.8	7.8	1.4		3			
SR2	Misty	Calm	08:12	4.6	Middle	-	0.1	23	-	-	-	-	-		-		-		-	1.7	-	3	821472	814161
				_		-	0.1	25	-		-		-		-		-	-	-		-		-	
					Bottom	3.6	0.0	61	17.9	18.0	8.1	8.1	31.7	31.7	101.0	101.6	7.9	8.0	2.0		3			
						3.6	0.0	55	18.0		8.1		31.7		102.1		8.0		2.0		3			
					Surface	1.0	0.1	176	18.8	18.8	8.1	8.1	30.3	30.4	97.5	97.5	7.6		3.5		4			
						1.0 4.2	0.2	178 179	18.7 18.4		8.1		30.4		97.4		7.6	7.6	3.5		3			
SR3	Cloudy	Moderate	07:50	8.4	Middle	4.2	0.1	179	18.4	18.4	8.1 8.1	8.1	31.1 31.1	31.1	95.9 95.8	95.9	7.5 7.5		1.0	1.9	4 3	3	822137	807548
						4.2	0.1	181	18.4		8.1				95.8 95.8				1.0	-	3			
					Bottom	7.4	0.1	149	18.3	18.3	8.1	8.1	31.1 31.1	31.1	95.8	95.8	7.5 7.5	7.5	1.1		3			
						1.0	0.0	307	18.4				-				-		2.3		3			
					Surface	1.0	0.0	312	18.4	18.4	8.1 8.1	8.1	32.0 32.0	32.0	97.0 97.0	97.0	7.5 7.5		2.3		2			
						4.7	0.0	286	18.3		8.1		32.0	<u> </u>	96.2	<u> </u>	7.5	7.5	3.8	1	4			
SR4A	Cloudy	Moderate	06:33	9.4	Middle	4.7	0.0	282	18.3	18.3	8.1	8.1	32.1	32.1	96.1	96.2	7.5		3.8	3.5	4	4	817173	807824
						8.4	0.0	282	18.3	46 -	8.0	a -	32.2	0.5 -	95.8	05.5	7.4		4.5		5			
					Bottom	8.4	0.0	284	18.3	18.3	8.0	8.0	32.2	32.2	95.9	95.9	7.4	7.4	4.4		4			
			İ		0	1.0	-	-	17.6	17.0	8.1	0.4	32.0	00.0	99.6	00.0	7.8		1.1		2			
					Surface	1.0	-	-	17.6	17.6	8.1	8.1	32.0	32.0	99.9	99.8	7.9		1.2	1	3			
CDA	Minter	Calm	00.00	4.0	Midalla	-	-	-	-		-		-	İ	-	İ	-	7.9	-	4.0	-	2	000405	044000
SR8	Misty	Calm	08:38	4.8	Middle	-	-	-	-	-	-	-	-	1 -	-	1 -	-		-	1.2	-	3	820405	811602
					Bottom	3.8	-	-	17.4	17.4	8.1	8.1	32.1	32.1	101.4	101 E	8.0	8.1	1.3		4			
					DUILUITI	3.8	-	-	17.4	17.4	8.1	0.1	32.2	32.1	101.8	101.6	8.1	0.1	1.3	1	3			

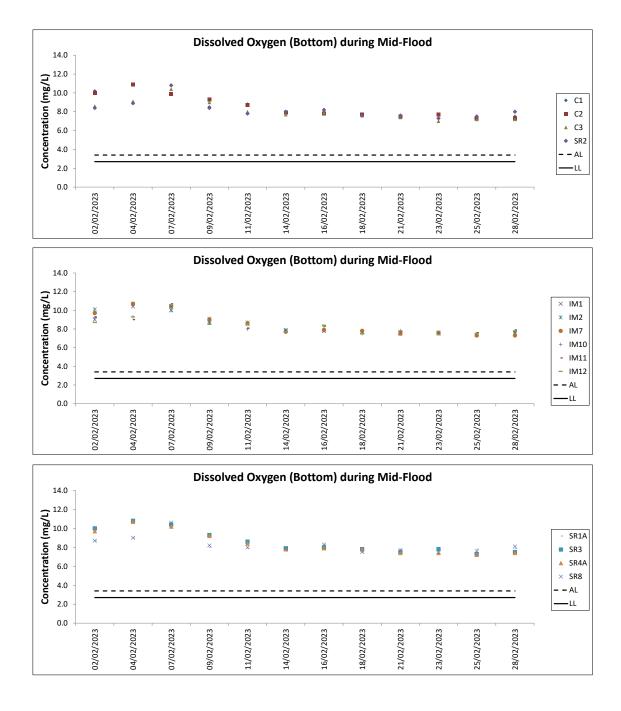
DA: Depth-Averaged

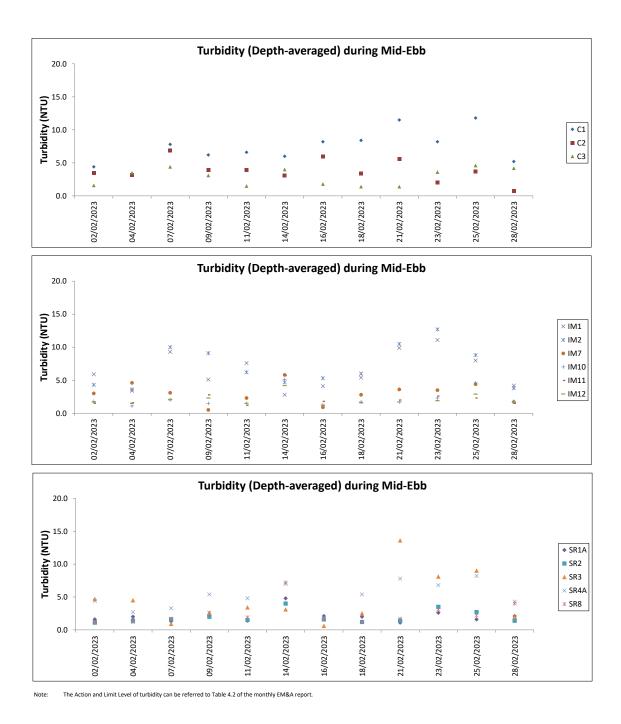
Calm: Small or no wave; Moderate: Between calm and rough; Rough : White capped or rougher Value exceeding Action Level is underlined; Value exceeding Limit Level is bolded and underlined

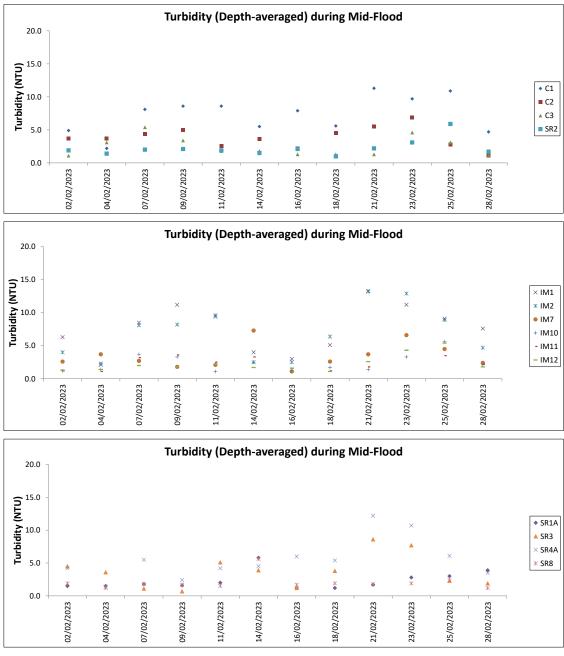




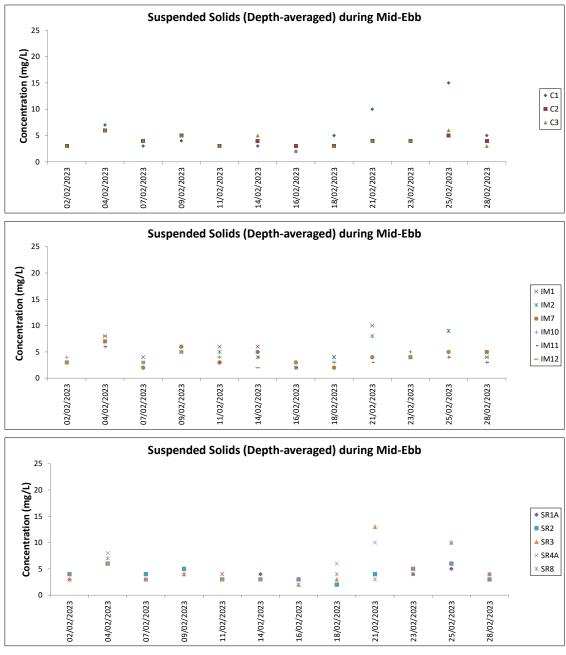




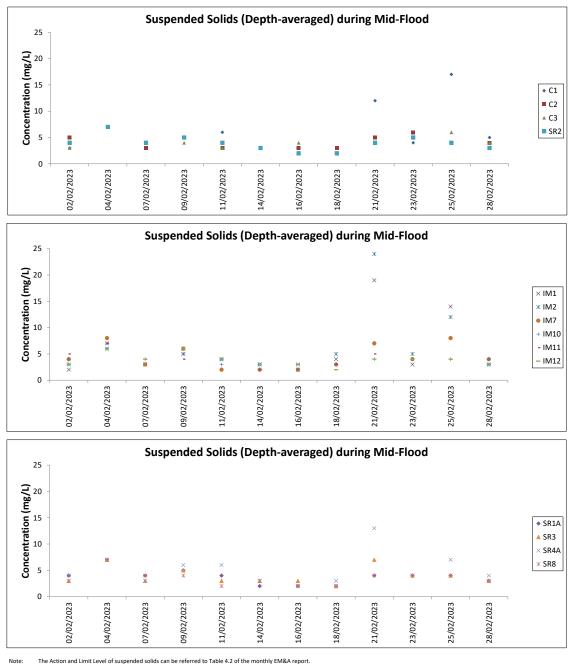




Note: The Action and Limit Level of turbidity can be referred to Table 4.2 of the monthly EM&A report.



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



The Action and Limit Level of suspended solids can be referred to Table 4.2 of the monthly EM&A report. Major site activities carried out during the reporting period are summarized in Section 1.4 of the monthly EM&A report. Weather conditions during monitoring are presented in the data tables above. QA/ QC requirements as stipulated in the EM&A Manual were carried out during measurement.

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

Chinese White Dolphin Monitoring Results

CWD Small Vessel Line-transect Survey

Survey Effort Data

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE	P/S
16-Dec-22	NEL	2	32.000	WINTER	32166	3RS ET	Р
16-Dec-22	NEL	3	5.130	WINTER	32166	3RS ET	Р
16-Dec-22	NEL	2	10.070	WINTER	32166	3RS ET	S
19-Dec-22	NEL	2	21.500	WINTER	32166	3RS ET	Р
19-Dec-22	NEL	3	16.020	WINTER	32166	3RS ET	Р
19-Dec-22	NEL	2	5.070	WINTER	32166	3RS ET	S
19-Dec-22	NEL	3	5.110	WINTER	32166	3RS ET	S
20-Dec-22	NWL	2	5.240	WINTER	32166	3RS ET	Р
20-Dec-22	NWL	3	57.300	WINTER	32166	3RS ET	Р
20-Dec-22	NWL	2	1.100	WINTER	32166	3RS ET	S
20-Dec-22	NWL	3	10.600	WINTER	32166	3RS ET	S
21-Dec-22	AW	3	5.010	WINTER	32166	3RS ET	Р
21-Dec-22	WL	3	8.326	WINTER	32166	3RS ET	Р
21-Dec-22	WL	4	9.037	WINTER	32166	3RS ET	Р
21-Dec-22	WL	5	1.900	WINTER	32166	3RS ET	Р
21-Dec-22	WL	3	3.640	WINTER	32166	3RS ET	S
21-Dec-22	WL	4	7.527	WINTER	32166	3RS ET	S
22-Dec-22	SWL	3	52.578	WINTER	32166	3RS ET	Р
22-Dec-22	SWL	4	1.400	WINTER	32166	3RS ET	Р
22-Dec-22	SWL	2	0.850	WINTER	32166	3RS ET	S
22-Dec-22	SWL	3	14.360	WINTER	32166	3RS ET	S
22-Dec-22	SWL	4	1.200	WINTER	32166	3RS ET	S
28-Dec-22	SWL	2	30.360	WINTER	32166	3RS ET	Р
28-Dec-22	SWL	3	22.450	WINTER	32166	3RS ET	Р
28-Dec-22	SWL	2	12.320	WINTER	32166	3RS ET	S
28-Dec-22	SWL	3	2.700	WINTER	32166	3RS ET	S
29-Dec-22	AW	3	4.860	WINTER	32166	3RS ET	Р
29-Dec-22	WL	3	14.870	WINTER	32166	3RS ET	Р
29-Dec-22	WL	4	5.880	WINTER	32166	3RS ET	Р
29-Dec-22	WL	3	9.380	WINTER	32166	3RS ET	S
29-Dec-22	WL	4	0.870	WINTER	32166	3RS ET	S
30-Dec-22	NWL	3	49.500	WINTER	32166	3RS ET	Р
30-Dec-22	NWL	4	14.100	WINTER	32166	3RS ET	Р
30-Dec-22	NWL	3	8.500	WINTER	32166	3RS ET	S
30-Dec-22	NWL	4	3.200	WINTER	32166	3RS ET	S
06-Jan-23	NWL	2	27.910	WINTER	32166	3RS ET	Р
06-Jan-23	NWL	3	34.020	WINTER	32166	3RS ET	Р
06-Jan-23	NWL	2	5.290	WINTER	32166	3RS ET	S
06-Jan-23	NWL	3	6.780	WINTER	32166	3RS ET	S
09-Jan-23	NWL	2	22.370	WINTER	32166	3RS ET	Р
09-Jan-23	NWL	3	39.710	WINTER	32166	3RS ET	Р
09-Jan-23	NWL	2	3.350	WINTER	32166	3RS ET	S
09-Jan-23	NWL	3	8.820	WINTER	32166	3RS ET	S
10-Jan-23	SWL	2	56.930	WINTER	32166	3RS ET	Р
10-Jan-23	SWL	2	13.570	WINTER	32166	3RS ET	S
12-Jan-23	AW	2	2.890	WINTER	32166	3RS ET	Р
12-Jan-23	AW	3	1.690	WINTER	32166	3RS ET	Р

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE	P/S
12-Jan-23	WL	2	17.170	WINTER	32166	3RS ET	Р
12-Jan-23	WL	3	2.500	WINTER	32166	3RS ET	Р
12-Jan-23	WL	2	9.830	WINTER	32166	3RS ET	S
12-Jan-23	WL	3	1.100	WINTER	32166	3RS ET	S
13-Jan-23	SWL	1	3.380	WINTER	32166	3RS ET	Р
13-Jan-23	SWL	2	50.173	WINTER	32166	3RS ET	Р
13-Jan-23	SWL	1	2.050	WINTER	32166	3RS ET	S
13-Jan-23	SWL	2	16.697	WINTER	32166	3RS ET	S
16-Jan-23	NEL	2	8.200	WINTER	32166	3RS ET	Р
16-Jan-23	NEL	3	28.750	WINTER	32166	3RS ET	Р
16-Jan-23	NEL	2	4.200	WINTER	32166	3RS ET	S
16-Jan-23	NEL	3	6.150	WINTER	32166	3RS ET	S
17-Jan-23	NEL	2	28.590	WINTER	32166	3RS ET	Р
17-Jan-23	NEL	3	8.380	WINTER	32166	3RS ET	Р
17-Jan-23	NEL	2	10.130	WINTER	32166	3RS ET	S
18-Jan-23	WL	3	15.140	WINTER	32166	3RS ET	Р
18-Jan-23	WL	4	5.200	WINTER	32166	3RS ET	Р
18-Jan-23	WL	3	7.360	WINTER	32166	3RS ET	S
18-Jan-23	WL	4	3.200	WINTER	32166	3RS ET	S
18-Jan-23	AW	2	4.760	WINTER	32166	3RS ET	Р
07-Feb-23	SWL	1	2.430	WINTER	32166	3RS ET	Р
07-Feb-23	SWL	2	43.158	WINTER	32166	3RS ET	Р
07-Feb-23	SWL	3	8.780	WINTER	32166	3RS ET	Р
07-Feb-23	SWL	2	12.322	WINTER	32166	3RS ET	S
07-Feb-23	SWL	3	3.000	WINTER	32166	3RS ET	S
08-Feb-23	NEL	2	22.760	WINTER	32166	3RS ET	Р
08-Feb-23	NEL	3	14.500	WINTER	32166	3RS ET	Р
08-Feb-23	NEL	2	7.170	WINTER	32166	3RS ET	S
08-Feb-23	NEL	3	2.970	WINTER	32166	3RS ET	S
13-Feb-23	SWL	2	51.784	WINTER	32166	3RS ET	Р
13-Feb-23	SWL	3	1.500	WINTER	32166	3RS ET	Р
13-Feb-23	SWL	2	16.273	WINTER	32166	3RS ET	S
14-Feb-23	NEL	2	26.770	WINTER	32166	3RS ET	Р
14-Feb-23	NEL	3	9.330	WINTER	32166	3RS ET	Р
14-Feb-23	NEL	4	1.180	WINTER	32166	3RS ET	Р
14-Feb-23	NEL	2	8.820	WINTER	32166	3RS ET	S
14-Feb-23	NEL	3	0.800	WINTER	32166	3RS ET	S
16-Feb-23	NWL	2	10.780	WINTER	32166	3RS ET	Р
16-Feb-23	NWL	3	51.368	WINTER	32166	3RS ET	Р
16-Feb-23	NWL	2	3.860	WINTER	32166	3RS ET	S
16-Feb-23	NWL	3	7.940	WINTER	32166	3RS ET	S
20-Feb-23	NWL	2	11.500	WINTER	32166	3RS ET	Р
20-Feb-23	NWL	3	50.750	WINTER	32166	3RS ET	Р
20-Feb-23	NWL	2	4.200	WINTER	32166	3RS ET	S
20-Feb-23	NWL	3	7.850	WINTER	32166	3RS ET	S
21-Feb-23	AW	2	4.700	WINTER	32166	3RS ET	Р
21-Feb-23	WL	2	4.530	WINTER	32166	3RS ET	Р
21-Feb-23	WL	3	12.181	WINTER	32166	3RS ET	Р
21-Feb-23	WL	4	2.220	WINTER	32166	3RS ET	Р

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE	P/S
21-Feb-23	WL	5	0.370	WINTER	32166	3RS ET	Р
21-Feb-23	WL	2	5.229	WINTER	32166	3RS ET	S
21-Feb-23	WL	3	1.159	WINTER	32166	3RS ET	S
21-Feb-23	WL	4	3.810	WINTER	32166	3RS ET	S
22-Feb-23	AW	3	3.970	WINTER	32166	3RS ET	Р
22-Feb-23	WL	3	15.367	WINTER	32166	3RS ET	Р
22-Feb-23	WL	4	1.380	WINTER	32166	3RS ET	Р
22-Feb-23	WL	3	7.158	WINTER	32166	3RS ET	S
22-Feb-23	WL	4	2.670	WINTER	32166	3RS ET	S

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

CWD Small Vessel Line-transect Survey

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13-Jan-23

13-Jan-23

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SWL

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CWD Sma	ili vessei	Line-tra	ansect Sul	rvey								3	Signting Data	
DATE	STG #	TIME	CWD/FP	GP SZ	AREA	BEAU	PSD	EFFORT	TYPE	DEC LAT	DEC LON	SEASON	BOAT ASSOC.	P/S
20-Dec-22	1	0949	CWD	2	NWL	2	31	ON	3RS ET	22.3730	113.8705	WINTER	NONE	Р
21-Dec-22	1	1136	CWD	2	WL	4	405	ON	3RS ET	22.2053	113.8389	WINTER	NONE	Р
21-Dec-22	2	1205	CWD	7	WL	4	53	ON	3RS ET	22.1961	113.8409	WINTER	NONE	Р
21-Dec-22	3	1218	CWD	1	WL	3	45	ON	3RS ET	22.1873	113.8408	WINTER	NONE	Р
22-Dec-22	1	1038	FP	2	SWL	3	34	ON	3RS ET	22.1817	113.9362	WINTER	NONE	Р
22-Dec-22	2	1042	FP	1	SWL	3	307	ON	3RS ET	22.1775	113.9358	WINTER	NONE	Р
22-Dec-22	3	1116	FP	2	SWL	3	68	ON	3RS ET	22.1798	113.9280	WINTER	NONE	Р
22-Dec-22	4	1152	FP	1	SWL	3	75	ON	3RS ET	22.1596	113.9180	WINTER	NONE	Р
22-Dec-22	5	1231	FP	1	SWL	3	361	ON	3RS ET	22.1901	113.9062	WINTER	NONE	S
28-Dec-22	1	1314	CWD	3	SWL	2	707	ON	3RS ET	22.1687	113.8874	WINTER	GILLNETTER	Р
28-Dec-22	2	1355	CWD	5	SWL	2	235	ON	3RS ET	22.1818	113.8788	WINTER	GILLNETTER	Р
28-Dec-22	3	1501	CWD	2	SWL	3	137	ON	3RS ET	22.1716	113.8534	WINTER	NONE	S
29-Dec-22	1	1051	CWD	6	WL	3	11	ON	3RS ET	22.2417	113.8427	WINTER	NONE	Р
06-Jan-23	1	1048	CWD	5	NWL	3	98	ON	3RS ET	22.2845	113.8776	WINTER	NONE	Р
06-Jan-23	2	1303	CWD	3	NWL	3	399	ON	3RS ET	22.3944	113.8973	WINTER	PAIR TRAWLER	Р
09-Jan-23	1	1013	CWD	2	NWL	2	51	ON	3RS ET	22.3058	113.8700	WINTER	NONE	Р
09-Jan-23	2	1056	CWD	2	NWL	2	19	ON	3RS ET	22.2958	113.8777	WINTER	NONE	Р
09-Jan-23	3	1144	CWD	4	NWL	3	351	ON	3RS ET	22.3661	113.8778	WINTER	NONE	Р
13-Jan-23	1	1106	FP	2	SWL	2	7	ON	3RS ET	22.1527	113.9276	WINTER	NONE	Р
13-Jan-23	2	1220	FP	1	SWL	2	64	ON	3RS ET	22.1579	113.8989	WINTER	NONE	S
13-Jan-23	3	1228	CWD	1	SWL	2	57	ON	3RS ET	22.1703	113.9076	WINTER	NONE	Р

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22.1494

22.1940

22.1557

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22.1418

22.1770

22.1976

22.1823

22.1841

22.1815

113.8887

113.8498

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Sighting Data

DATE	STG #	TIME	CWD/FP	GP SZ	AREA	BEAU	PSD	EFFORT	TYPE	DEC LAT	DEC LON	SEASON	BOAT ASSOC.	P/S
13-Feb-23	3	1254	FP	2	SWL	2	74	ON	3RS ET	22.1731	113.8965	WINTER	NONE	Р
13-Feb-23	4	1321	FP	1	SWL	2	109	ON	3RS ET	22.1754	113.8879	WINTER	NONE	Р
13-Feb-23	5	1335	FP	2	SWL	2	60	ON	3RS ET	22.2072	113.8878	WINTER	NONE	Р
13-Feb-23	6	1417	FP	2	SWL	2	17	ON	3RS ET	22.1751	113.8690	WINTER	NONE	Р
16-Feb-23	1	1036	CWD	16	NWL	3	38	ON	3RS ET	22.2750	113.8697	WINTER	NONE	Р
16-Feb-23	2	1151	CWD	2	NWL	3	56	ON	3RS ET	22.3604	113.8777	WINTER	NONE	Р
16-Feb-23	3	1202	CWD	7	NWL	3	87	ON	3RS ET	22.3668	113.8776	WINTER	NONE	Р
16-Feb-23	4	1325	CWD	2	NWL	3	129	ON	3RS ET	22.3496	113.8975	WINTER	NONE	Р
20-Feb-23	1	1118	CWD	2	NWL	3	120	ON	3RS ET	22.3748	113.8775	WINTER	NONE	Р
21-Feb-23	1	1020	CWD	4	WL	3	52	ON	3RS ET	22.2804	113.8611	WINTER	NONE	Р
21-Feb-23	2	1027	CWD	1	WL	3	109	ON	3RS ET	22.2780	113.8581	WINTER	NONE	Р
21-Feb-23	3	1036	CWD	3	WL	3	493	ON	3RS ET	22.2724	113.8478	WINTER	NONE	S
21-Feb-23	4	1126	CWD	2	WL	2	37	ON	3RS ET	22.2319	113.8284	WINTER	NONE	Р
21-Feb-23	5	1206	CWD	1	WL	3	97	ON	3RS ET	22.2055	113.8383	WINTER	NONE	Р
22-Feb-23	1	0941	CWD	3	AW	3	42	ON	3RS ET	22.2947	113.8799	WINTER	NONE	Р
22-Feb-23	2	1031	CWD	3	WL	3	284	ON	3RS ET	22.2693	113.8469	WINTER	NONE	Р
22-Feb-23	3	1050	CWD	3	WL	3	48	ON	3RS ET	22.2599	113.8395	WINTER	NONE	Р
22-Feb-23	4	1125	CWD	2	WL	3	70	ON	3RS ET	22.2443	113.8493	WINTER	NONE	S
22-Feb-23	5	1137	CWD	1	WL	3	217	ON	3RS ET	22.2420	113.8461	WINTER	NONE	Р
22-Feb-23	6	1150	CWD	4	WL	3	313	ON	3RS ET	22.2415	113.8352	WINTER	NONE	Р
22-Feb-23	7	1206	CWD	7	WL	3	270	ON	3RS ET	22.2316	113.8277	WINTER	NONE	Р
22-Feb-23	8	1221	CWD	2	WL	3	29	ON	3RS ET	22.2236	113.8368	WINTER	PURSE SEINER	S
22-Feb-23	9	1236	CWD	3	WL	3	361	ON	3RS ET	22.2230	113.8298	WINTER	NONE	Р
22-Feb-23	10	1308	CWD	4	WL	3	55	ON	3RS ET	22.2054	113.8381	WINTER	NONE	Р

Abbreviations: STG# = Sighting Number; GP SZ = Group Size; BEAU = Beaufort Sea State; PSD = Perpendicular Distance (in metres); N/A = Not Applicable; DEC LAT = Latitude (WGS84 in Decimal), DEC LON = Longitude (WGS84 in Decimal); BOAT ASSOC. = Fishing Boat Association; P/S = Primary Transect / Secondary Transect

Notes:

CWD monitoring survey data of the two preceding survey months are presented for reference only. No relevant figure or text will be mentioned in this monthly EM&A report.

Sighting data of finless porpoise (FP) are presented for reference only. No relevant figure or text will be mentioned in the monthly EM&A report. All FP sightings are excluded in calculation.

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

A total of 434.909 km of survey effort was collected under Beaufort Sea State 3 or below with favourable visibility; total no. of 20 on-effort sightings and total number of 72 dolphins from on-effort sightings were collected under such condition. Calculation of the encounter rates in February 2023 are shown as below:

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

$$STG = \frac{20}{434.909} \times 100 = 4.60$$

Encounter Rate by Number of Dolphins (ANI) in February 2023 $ANI = \frac{72}{434.909} \times 100 = 16.56$

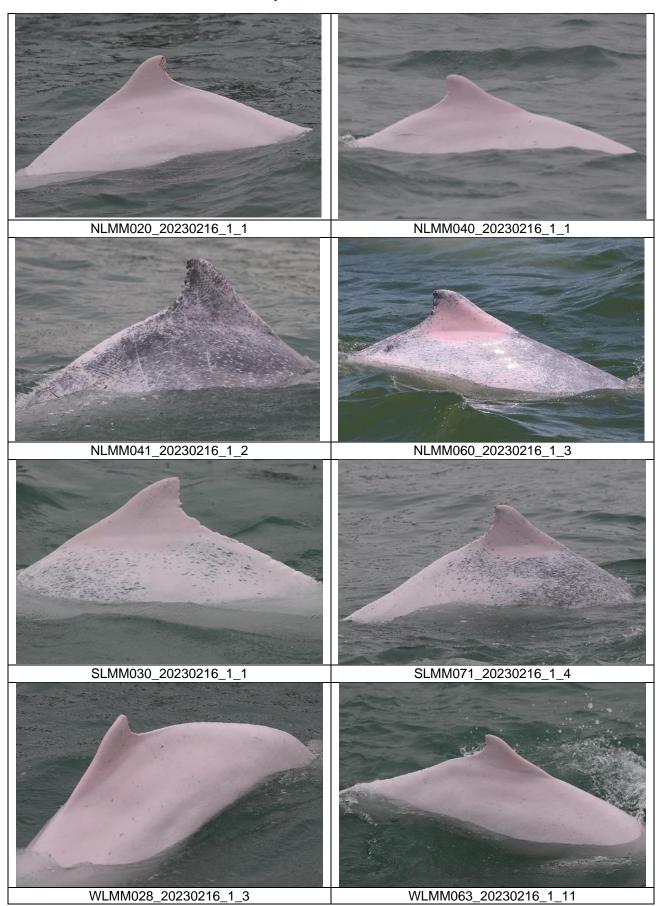
Calculation of the running quarterly STG and ANI in the whole survey area (NEL, NWL, AW, WL, SWL):

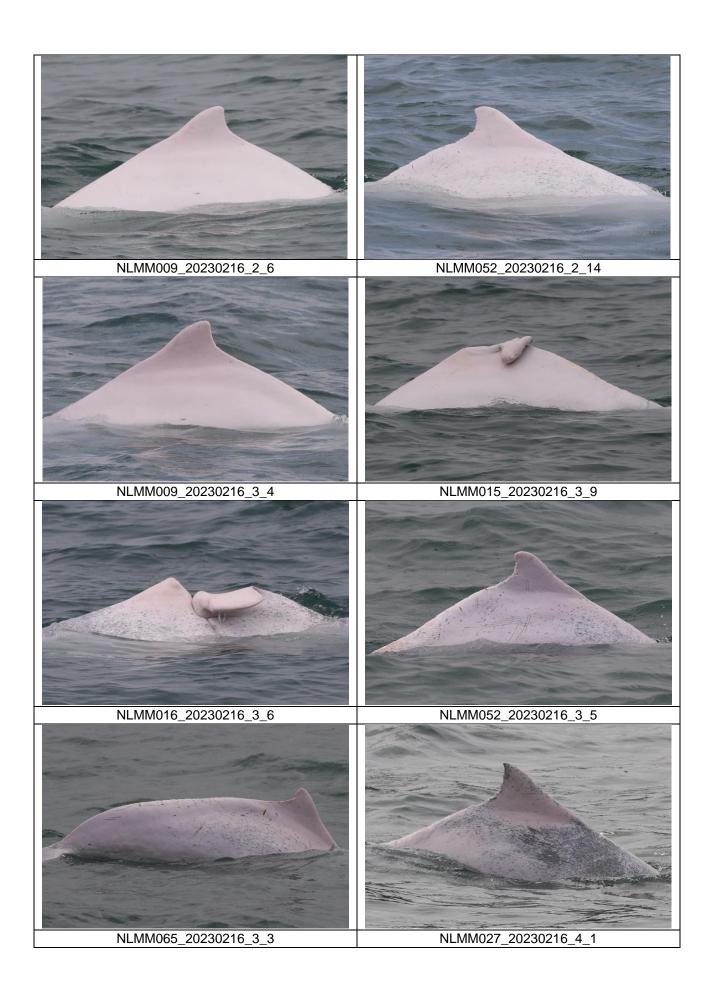
A total of 1291.643 km of survey effort was collected under Beaufort Sea State 3 or below with favourable visibility; total no. of 33 on-effort sightings and total number of 110 dolphins from on-effort sightings were collected under such condition. Calculation of the running quarterly encounter rates are shown as below:

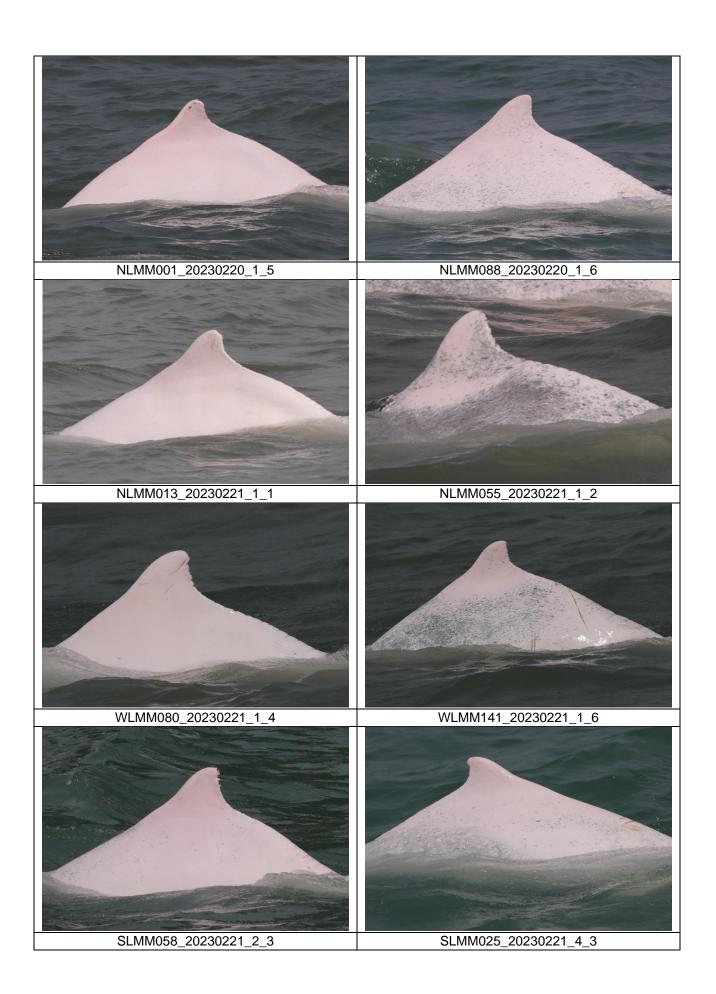
Running Quarterly Encounter Rate by Number of Dolphin Sightings (STG)	Running Quarterly Encounter Rate by Number of Dolphins (ANI)
$STG = \frac{33}{1291.643} \times 100 = 2.55$	$ANI = \frac{110}{1291.643} \times 100 = 8.52$

CWD Small Vessel Line-transect Survey

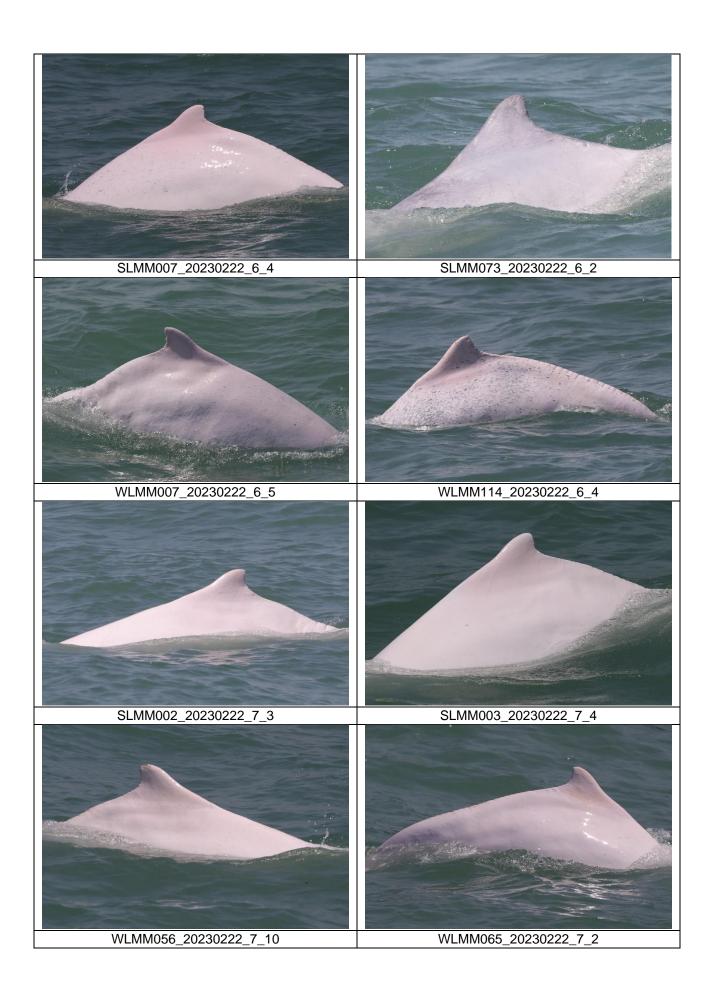
Photo Identification

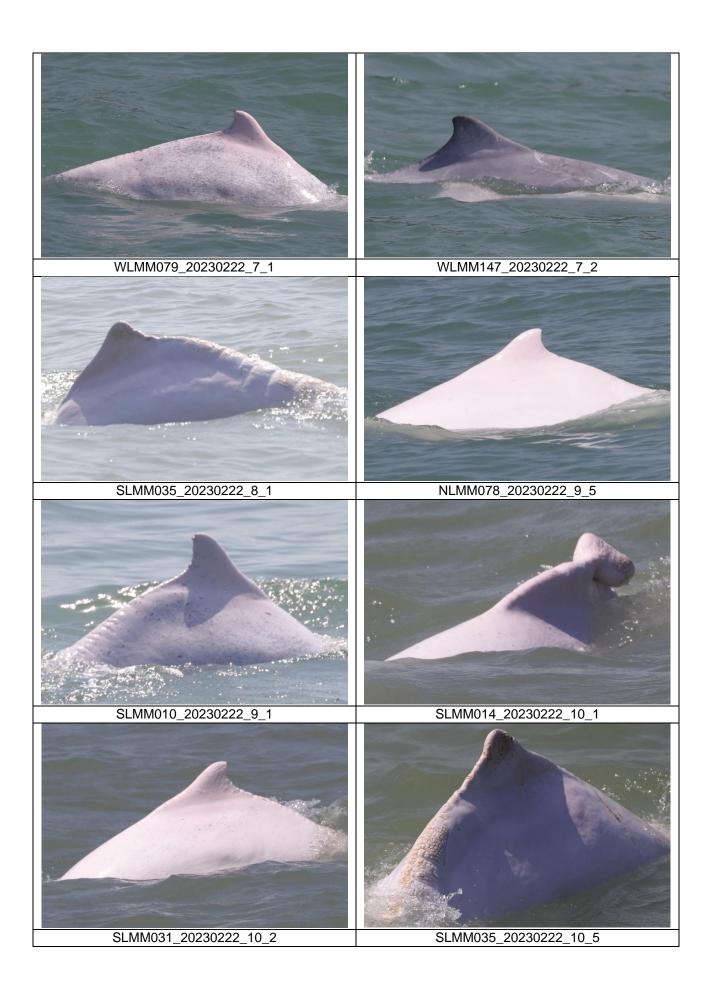


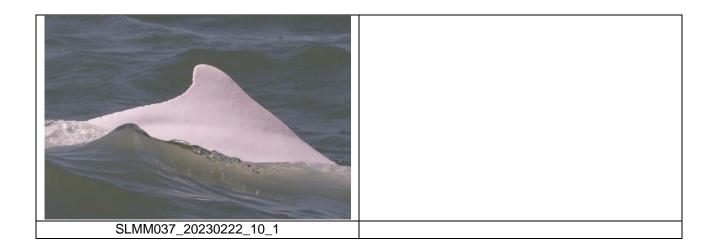












Appendix D. Status of Environmental Permits and Licenses

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

Contract No.	Description	Location	Permit/ Reference No.	Status
3206	Notification of Construction Work under APCO	Works area of 3206	409237	Receipt acknowledged by EPD on 25 Oct 2016
	Registration as Chemical	Site office of 3206	WPN 5213- 951-Z4035-01	Completion of Registration on 18 Nov 2016
	Waste Producer	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-RS0045- 23	Valid from 30 Jan 2023 to 20 Jul 2023
	Bill Account for disposal	Works area of 3206	A/C 7026398	Approval granted from EPD on 16 Nov 2016
3302	Notification of Construction	Works area of 3302	484487	Receipt acknowledged by EPD on 20 Sep 2022
	Work under APCO	Staging area of 3302	479482	Receipt acknowledged by EPD on 6 May 2022
			485105	Receipt acknowledged by EPD on 7 Oct 2022
			479481	Receipt acknowledged by EPD on 6 May 2022
	Registration as Chemical Waste Producer	Works area of 3302	5296-951- C4331-01	Completion of Registration on 4 Jan 2019
	Discharge License under WPCO	Works area of 3302	WT00034539- 2019	Valid from 11 Mar 2020 to 31 Mar 2025
		Works area of 3302	WT00034541- 2019	Valid from 14 Oct 2019 to 31 Oct 2024
	Bill Account for disposal	Works area of 3302	A/C 7032881	Approval granted from EPD on 8 Jan 2019
	Construction Noise Permit	Works area of 3302	GW-RS0841-22	Valid from 20 Oct 2022 to 19 Apr 2023
	(General Works)		GW-RS0887-22	Valid from 3 Nov 2022 to 2 May 2023
3305	Notification of Construction Work under APCO	Works area of 3305	460857	Receipt acknowledged by EPD on 12 Oct 2020
	Registration as Chemical Waste Producer	Works area of 3305	5213-951- A3024-01	Completion of Registration on 13 Nov 2020
	Bill Account for disposal	Works area of 3305	A/C 7035360	Approval granted from EPD on 9 Oct 2019

Contract No.	Description	Location	Permit/ Reference No.	Status
	Construction Noise Permit (General Works)	Works area of 3305	GW-RS0965-22	Valid from 1 Dec 2022 to 31 May 2023
3306	Registration as Chemical Waste Producer	Works area of 3306	8335-951- C4434-01	Completion of Registration on 1 Apr 2020
	Bill Account for disposal	Works area of 3306	A/C 7035868	Approval granted from EPD on 27 Nov 2019
3307	Notification of Construction Work under APCO	Works area of 3307	487904	Receipt acknowledged by EPD on 30 Dec 2022
	Registration as Chemical Waste Producer	Works area of 3307	5211-951- P3379-01	Completion of Registration on 8 Jun 2020
	Discharge License under WPCO	Works area of 3307	WT00036926- 2020	Valid from 31 Dec 2020 to 31 Dec 2025 The water discharge license was surrendered to EPD on 17 Feb 2023.
	Bill Account for disposal	Works area of 3307	A/C 7037129	Approval granted from EPD on 5 May 2020
	Construction Noise Permit	Works area of	GW-RS0586-22	Valid from 6 Aug 2022 to 5 Feb 2023
	(General Works)	3307	GW-RS0066-23	Valid from 6 Feb 2023 to 5 Aug 2023
3308	Bill Account for disposal	Works area of 3308	A/C 7038988	Approval granted from EPD on 24 Nov 2020
3310	Notification of Construction Work under APCO	Works area of 3310	485057	Receipt acknowledged by EPD on 10 Dec 2021
	Registration as Chemical Waste	Works area of 3310	5213-951- C4682-01	Completion of Registration on 21 Dec 2021
	Producer	Works area of 3310	5213-000- C3317-27	Completion of Registration on 31 Aug 2022
	Discharge License under WPCO	Works area of 3310	WT00039654- 2021	Valid from 31 Dec 2021 to 31 Dec 2026
	Bill Account for disposal	Works area of 3310	A/C 7042793	Approval granted from EPD on 4 Jan 2022
	Construction Noise Permit (General Works)	Works area of 3310 (Existing airport)	GW-RS0997-22	Valid from 17 Nov 2022 to 14 May 2023
		Works area of 3310 (Reclamation area)	GW-RS1088-22	Valid from 15 Dec 2022 to 12 Jun 2023
		Tsing Chau Wan	GW-RW0703-22	Valid from 26 Nov 2022 to 25 May 2023
	Construction Noise Permit (Percussive Piling)	Works area of 3310 (Reclamation area)	PP-RS0017-22	Valid from 1 Oct 2022 to 31 Mar 2023
3402	Bill Account for disposal	Works area of 3402	A/C 7032577	Approval granted from EPD on 27 Nov 2018
3403	Notification of Construction	Works area of 3403	485039	Receipt acknowledged by EPD on 06 Oct 2022
	Work under APCO	Works area of 3403 (with Area 17 and Area 15)	475369	Receipt acknowledged by EPD on 28 Dec 2021

Contract No.	Description	Location	Permit/ Reference No.	Status
	Registration as Chemical Waste Producer	Works area of 3403	WPN 5213-951- S4218-01	Completion of Registration on 9 Jan 2020
	Discharge License under WPCO	Works area of 3403	WT00035841- 2020	Valid from 5 Jun 2020 to 30 Jun 2025 Approved variation on 9 Jun 2022
	Bill Account for disposal	Works area of 3403	A/C 7035267	Approval granted from EPD on 30 Sep 2019
	Construction Noise Permit (General Works)	Works area of 3403	GW-RS0655-22	Valid from 1 Sep 2022 to 28 Feb 2023
	Construction Noise Permit (Special Case)	Works area of 3403	GW-RS0137-23	Valid from 1 Mar 2023 to 31 May 2023
3404	Bill Account for disposal	Works area of 3404	A/C 7035158	Approval granted from EPD on 12 Sep 2019
3405	Notification of Construction Work under APCO	Works area of 3405	484926	Receipt acknowledged by EPD on 30 Sep 2022
	Registration as Chemical Waste Producer	Works area of 3405	WPN 5218-951- C4431-01	Completion of Registration on 12 Ma 2020
	Discharge License under WPCO	Works area of 3405	WT00037084- 2020	Valid from 17 Mar 2021 to 31 Mar 2026
	Bill Account for disposal	Works area of 3405	A/C 7036796	Approval granted from EPD on 20 Ma 2020
	Construction Noise Permit	Works area of 3405	GW-RS0788-22	Valid from 24 Sep 2022 to 19 Mar 2023
	(General Works)	Works area of 3405	GW-RS0154-23	Valid from 2 Mar 2023 to 27 Aug 2023
3408	Notification of Construction Work under APCO	Works area of 3408	461958	Receipt acknowledged by EPD on 17 Nov 2020
	Registration as Chemical Waste Producer	Works area of 3408	WPN 5218-951- B2621-01	Completion of Registration on 16 Ju 2021
	Discharge License under WPCO	Works area of 3408	WT00038836- 2021	Valid from 27 Sep 2021 to 30 Sep 2026
	Bill Account for disposal	Works area of 3408	A/C 7039063	Approval granted from EPD on 2 Dec 2020
	Construction Noise Permit (General Works)	Works area of 3408	GW-RS0107-23	Valid from 16 Feb 2023 to 31 Jul 2023
3508	Notification of Construction	Works area of 3508	459017	Receipt acknowledged by EPD on 19 Aug 2020
	Work under APCO		459469	Receipt acknowledged by EPD on 4 Sep 2020
		Works area of 3508 (Area J)	467132	Receipt acknowledged by EPD on 3 May 2021
	Registration as Chemical Waste Producer	Works area of 3508	WPN-5218-951- G2898-01	Completion of Registration on 28 Sep 2020
		Works area of 3508	WT00037209-	Valid from 28 Jan 2022 to 31 Mar 2026

Contract No.	Description	Location	Permit/ Reference No.	Status
	Discharge License under		WT00037523- 2021	Valid from 24 Aug 2022 to 30 Apr 2026
	WPCO		WT00037225- 2020	Valid from 11 Jan 2022 to 30 Apr 2026
			WT00037549- 2021	Valid from 1 Apr 2021 to 30 Apr 2026
	Bill Account for disposal	Works area of 3508	7038224	Approval granted from EPD on 8 Se 2020
	Construction Noise Permit	Works area of 3508	GW-RS1127-22	Valid from 2 Jan 2023 to 27 Jun 2023
	(General Works)	Works area of 3508	GW-RS1138-22	Valid from 30 Dec 2022 to 27 Jun 2023
		Works area of 3508	GW-RS1133-22	Valid from 6 Jan 2023 to 5 Jun 2023
	Construction Noise Permit	Works area of 3508	GW-RS1099-22	Valid from 1 Jan 2023 to 15 Feb 2023
	(Special Case)	Works area of 3508	GW-RS0034-23	Valid from 22 Jan 2023 to 20 Apr 2023
		Works area of 3508	GW-RS0831-22	Valid from 12 Oct 2022 to 9 Apr 2023
		Works area of 3508	GW-RS0844-22	Valid from 14 Oct 2022 to 31 Mar 2023
		Works area of 3508	GW-RS0069-23	Valid from 1 Feb 2023 to 1 May 2023
3601	Notification of Construction Work under APCO	Works area of 3601	451762	Receipt acknowledged by EPD on 1 Dec 2019
	Registration as Chemical Waste Producer	Works area of 3601	WPN 7119-951- C4421-01	Completion of Registration on 9 Jan 202
	Bill Account for disposal	Works area of 3601	A/C 7029991	Approval granted from EPD on 1 Fe 2018
	Construction Noise Permit (General Works)	Works area of 3601	GW-RS1059-22	Valid from 8 Dec 2022 to 7 May 2023
3602	Notification of Construction Work under APCO	Works area of 3602	421278	Receipt acknowledged by EPD on 1 Sep 2017
	Registration as Chemical Waste	Works area of 3602	WPN 5296-951- N2673-01	Completion of Registration on 9 Oct 201
	Producer	Site office of 3602	WPN 5296-951- N2673-02	Completion of Registration on 11 De 2017
	Bill Account for disposal	Works area of 3602	A/C 7028942	Approval granted from EPD on 6 Oc 2017
	Construction Noise Permit (General Works)	Works area of 3602	GW-RS0766-22	Valid from 28 Sep 2022 to 27 Mar 2023
3603	Notification of Construction Work under APCO	Site office of 3603	433604	Receipt acknowledged by EPD on 1 May 2018
	Registration as Chemical Waste	Site office of 3603	5296-951- S4069-01	Completion of Registration on 22 Ja 2018
	Producer	Test Loop Site of 3603	8334-512- S4273-01	Completion of Registration on 17 Se 2020

Contract No.	Description	Location	Permit/ Reference No.	Status
	Bill Account for disposal	Works area of 3603	A/C 7030002	Approval granted from EPD on 1 Feb 2018
	Construction Noise Permit	Works area of 3603	GW-RS0335-22	Valid from 24 May 2022 to 23 Nov 2022
	(General Works)		GW-RS0922-22	Valid from 24 Nov 2022 to 23 May 2023
3721	Notification of Construction Work under APCO	Works area of 3721	448657	Receipt acknowledged by EPD on 02 Sep 2019
	Registration as Chemical Waste Producer	Works area of 3721	WPN 5218-951- C4412-01	Completion of Registration on 9 Dec 2019
	Bill Account for disposal	Works area of 3721	A/C 7035234	Approval granted from EPD on 25 Sep 2019
	Construction	Works area of	GW-RS0877-22	Valid from 23 Oct 2022 to 21 Feb 2023
	Noise Permit (General Works)	3721	GW-RS0048-23	Valid from 30 Jan 2023 to 30 Jun 2023
3728	Registration as Chemical Waste Producer	Works area of 3728	WPN 5111-951- S3467-03	Completion of Registration on 7 May 2021
	Discharge License under WPCO	Works area of 3728	WT00037809- 2021	Valid from 27 Jul 2021 to 31 Jul 2026
	Bill Account for disposal	Works area of 3728	A/C 7039409	Approval granted from EPD on 22 Jan 2021
3733	Notification of Construction Work under APCO	Works area of 3733	472772	Receipt acknowledged by EPD on 18 Oct 2021
	Registration as Chemical Waste Producer	Works area of 3733	474728	Receipt acknowledged by EPD on 9 Dec 2021
	Bill Account for disposal	Works area of 3733	7041945	Approval granted from EPD on 21 Oct 2021
	Construction Noise Permit (General Works)	Works area of 3733	GW-RS1028-22	Valid from 25 Nov 2022 to 22 May 2023
3801	Notification of Construction	Works area of 3801	488993	Receipt acknowledged by EPD on 2 Feb 2023
	Work under APCO	Stockpiling area of 3801	454269	Receipt acknowledged by EPD on 12 Mar 2020
			450940	Receipt acknowledged by EPD on 13 Nov 2019
	Registration as Chemical Waste Producer	Works area of 3801	WPN 5296-951- C1169-53	Completion of Registration on 14 Aug 2018
	Discharge License under	Works area of 3801	WT00041429- 2022	Valid from 16 Aug 2022 to 31 Aug 2027
	WPCO	Stockpiling area of 3801	WT00037354- 2021	Valid from 8 Mar 2021 to 31 Mar 2026
	Bill Account for disposal	Works area of 3801	A/C 7028254	Approval granted from EPD on 3 Jul 2017
	Construction Noise Permit (General Works)	Works area of 3801	GW-RS0744-22	Valid from 4 Sep 2022 to 28 Feb 2023

Contract No.	Description	Location	Permit/ Reference No.	Status
3802	Notification of Construction Work under APCO	Works area of 3802	458122	Receipt acknowledged by EPD on 14 Jul 2020
	Registration as Chemical Waste	Works area of 3802	WPN 5218-951- G2895-01	Completion of Registration on 28 Aug 2020
	Producer	Works area of 3802 (Existing airport)	WPN 5218-951- G2945-01	Completion of Registration on 29 Sep 2020
	Discharge License under	Works area of 3802	WT00037032- 2020	Valid from 25 May 2021 to 31 May 2026
	WPCO	Works area of 3802 (Existing	WT00039092- 2021	Valid from 30 Nov 2021 to 31 Nov 2026
		airport)	WT00041807- 2022	Valid from 3 Oct 2022 to 31 Oct 2027
	Bill Account for disposal	Works area of 3802	A/C 7037575	Approval granted from EPD on 15 Jun 2020
	Construction Noise Permit (General Works)	Works area of 3802	GW-RS0053-23	Valid from 30 Jan 2023 to 29 Jul 2023
			GW-RS0778-22	Valid from 24 Sep 2022 to 19 Mar 2023
		Works area of 3802 (Existing airport)	GW-RS1061-22	Valid from 5 Dec 2022 to 4 Jun 2023
		Works area of 3802 (Ventilation building)	GW-RS0072-23	Valid from 1 Feb 2023 to 26 Jul 2023
3804	Notification of Construction Work under APCO	Works area of 3804	487452	Receipt acknowledged by EPD on 14 Dec 2022
	Construction Noise Permit (General Works)	Works area of 3804 (3804/1A)	GW-RS0102-23	Valid from 15 Feb 2023 to 14 Aug 2023
	Registration as Chemical Waste Producer	Works area of 3804	WPN 5213-951- B2686-01	Completion of Registration on 4 Jan 2023
	Discharge License under WPCO	Works area of 3804	487903	Receipt acknowledged by EPD on 30 Dec 2022
	Bill Account for disposal	Works area of 3804	RW02507	Receipt acknowledged by EPD on 14 Dec 2022
3901A	Notification of Construction Work under APCO	Works area of 3901A	466883	Receipt acknowledged by EPD on 26 Apr 2021
	Air Pollution Control (Furnaces, Ovens and Chimneys) (Installation and Alteration) Regulations	Works area of 3901A	EP/RS/0000443 053	Approval granted on 11 Dec 2020
	Specified Process license under APCO	Works area of 3901A	L-3-261(1)	Valid from 14 Sep 2020 to 13 Sep 2024
	Landfill Disposal of Waste	Works area of 3901A	EP195/01/18	Valid from 20 June 2022 to 19 March 2023

Contract No.	Description	Location	Permit/ Reference No.	Status
	Concrete from Batching Plant			
	Registration as Chemical Waste Producer	Works area of 3901A	WPN 5218-951- K3400-01	Completion of Registration on 17 Jul 2020
	Bill Account for disposal	Works area of 3901A	A/C 7037889	Approval granted from EPD on 20 Jul 2020
	Construction Noise Permit	Works area of 3901A	GW-RS0517-22	Valid from 5 Aug 2022 to 4 Feb 2023 Superseded by GW-RS0050-23
	(General Works)		GW-RS0050-23	Valid from 5 Feb 2023 to 4 Aug 2023
3901B	Notification of Construction Work under APCO	Works area of 3901B	466885	Receipt acknowledged by EPD on 26 Apr 2021
	Air Pollution Control (Furnaces, Ovens and Chimneys) (Installation and Alteration) Regulations	Works area of 3901B	EP/RS/0000438 488	Approval granted on 26 Jun 2020
	Specified Process license under APCO	Works area of 3901B	L-3-262(1)	Valid from 17 Nov 2020 to 16 Nov 2024
	Registration as Chemical Waste Producer	Works area of 3901B	WPN 5218-951- G2880-01	Completion of Registration on 17 Jan 2020
	Bill Account for disposal	Works area of 3901B	A/C 7032417	Approval granted from EPD on 13 Nov 2018
	Construction Noise Permit	Works area of 3901B	GW-RS0552-22	Valid from 5 Aug 2022 to 4 Feb 2023 Superseded by GW-RS0070-23
	(General Works)		GW-RS0070-23	Valid from 5 Feb 2023 to 4 Aug 2023
3913	Specified Process license under APCO	Works area of 3913	L-15-040 (1)	Valid from 29 Mar 2021 to 28 Mar 2025
	Registration as Chemical Waste Producer	Works area of 3913	5213-951- S4405-01	Completion of Registration on 22 Jul 2022
	Bill Account for disposal	Works area of 3913	A/C 7044632	Approval granted from EPD on 18 Aug 2022
	Construction Noise Permit (General Works)	Works area of 3913	GW-RS0799-22	Valid from 24 Sep 2022 to 19 Mar 2023

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

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

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

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

Statistics for Complaints, Notifications of Summons and Prosecutions

Reporting Period	Cumulative Statistics					
	Complaints	Notifications of Summons	Prosecutions			
This reporting period	0	0	0			
From 28 December 2015 to end of the reporting period	58	2	2			

Appendix F. Data of SkyPier HSF Movements to/from Macau (between 1 and 28 February 2023)

Date	Time [Arrival at / Departure from HKIA SkyPier]	Ferry No.	Connecting Port [<u>YFT</u> – Macao (Taipa)]	Travel Direction [Arrival at / Departure from HKIA SkyPier]	Average Speed within Speed Control Zone (knots)	Extent of Instantaneous Speeding by SkyPier HSFs across SCZ (knots)	Duration of the Instantaneous Speeding (min)
3-Feb	10:23	8S192	YFT	Departure	13.5	-	-
3-Feb	15:39	85913	YFT	Arrival	11.7	-	-
5-Feb	9:42	8\$192	YFT	Departure	11.5	<= 5	< 1min
5-Feb	15:33	85913	YFT	Arrival	13	-	-
10-Feb	10:00	8\$192	YFT	Departure	12.8	-	-
10-Feb	15:36	85913	YFT	Arrival	13.2	-	-
12-Feb	9:53	85192	YFT	Departure	11.4	-	-
12-Feb	15:33	85913	YFT	Arrival	12.2	-	-
17-Feb	9:47	8\$192	YFT	Departure	10.7	-	-
17-Feb	15:35	85913	YFT	Arrival	11.1	-	-
19-Feb	9:40	8\$192	YFT	Departure	12.3	-	-
19-Feb	15:28	85913	YFT	Arrival	12.4	-	-
24-Feb	9:41	8S192	YFT	Departure	11.4	-	-
24-Feb	15:26	85913	YFT	Arrival	12.4	-	-
26-Feb	9:40	8\$192	YFT	Departure	12.1	-	-
26-Feb	15:33	85913	YFT	Arrival	12.1	-	-

Data of SkyPier HSF Movements to/from Macau (between 1 and 28 February 2023)

Follow-up on instantaneous speeding

Referring to the data of SkyPier HSF movements in February 2023, 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 1 HSF movement of which the duration of the instantaneous speeding case was less than 1 minute. The AIS data and ferry operator response showed that the case was due to increasing the passing distance between own vessel and the large vessel to collision. The captain had reduced speed and maintained the speed at less than 15 knots after the incident.