

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

Construction Phase Monthly EM&A Report No. 87 (For March 2023)

April 2023

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This Monthly EM&A Report No. 87 has been reviewed and certified by

the Environmental Team Leader (ETL) in accordance with

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

Certified by:

Terence Kong

Environmental Team Leader (ETL) Mott MacDonald Hong Kong Limited

Date 14 April 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 April 2023

Dear Sir,

Contract No. 3102 3RS Independent Environmental Checker Consultancy Services

Submission of Monthly EM&A Report No. 87 (March 2023)

Reference is made to the Environmental Team's submission of the Monthly EM&A Report No. 87 under Condition 3.5 of the Environmental Permit No. EP-489/2014 certified by the ET Leader on 14 April 2023.

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

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

Yours faithfully, AECOM Asia Co. Ltd.

Roy Man

Independent Environmental Checker

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Abbreviations

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

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 87th Construction Phase Monthly EM&A Report for the Project which summarises the monitoring results and audit findings of the EM&A programme during the reporting period from 1 to 31 March 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	20
Water quality monitoring	13
Vessel line-transect surveys for Chinese White Dolphin (CWD) monitoring	2
Land-based theodolite tracking survey effort for CWD monitoring	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



Land-based Theodolite Tracking Survey for CWD at Sha Chau



Air Impact Monitoring conducted by ET at Man Tung Road Park



Automatic Wheel Washing Facilities maintained by Contractor

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;
- Rectification work for airfield ground lighting system; and
- Cable containment installation.

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

Equipment installation.

Contract 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; and
- Manhole construction and pipe laying 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;
- · Pier and temporary road construction;
- · Pump station and electrical station works; and
- Architectural, builder's work and finishing works.

<u>Automated People Mover (APM) and Baggage Handling System (BHS):</u>

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;

- Additional sewage works;
- Outstanding works of sewage manholes; and
- Maintenance of temporary sewage pump and control panel.

Airport Support Infrastructure:

Contract 3801 APM and BHS Tunnels on Existing Airport Island

- Excavation and backfilling works;
- Hoarding erection;
- Underground utilities installation works;
- Rebar fixing; and
- 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 guays.

Contract 3913 Asphalt Batching Plant

Operation of asphalt batching plant.

Summary Table

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

	Yes	No	Details	Analysis / Recommendation / Remedial Actions
Breach of Limit Level^		√	No breach of Limit Level was recorded.	Nil
Breach of Action Level^		\checkmark	No breach of Action Level was recorded.	Nil
Complaint Received		√	No construction activities-related complaint was received during the reporting period.	Nil
Notification of any summons and status of prosecutions		$\sqrt{}$	No notification of summons nor prosecution was received.	Nil
Change that affect the EM&A		V	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 87th Construction Phase Monthly EM&A Report for the Project which summarises the key findings of the EM&A programme during the reporting period from 1 to 31 March 2023.

1.3 Project Organisation

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

Table 1.1: Contact Information of Key Personnel

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

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

Party	Position	Name	Telephone
	Deputy Environmental Team Leaders	Heidi Yu	2828 5704
	ream Leaders	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 Works	Project Manager	Dickey Yau	5699 4503
(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	Project Manager	Kingsley Chiang	9424 8437
Works (China State Construction Engineering (Hong Kong) Ltd.)	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	Project Manager	Francis Choi	9423 3469
Substructure Works (China Road and Bridge Corporation – Bachy Soletanche Group Limited – LT Sambo Co., Ltd. Joint Venture)	Environmental Officer	Jacky Lai	9028 8975
Contract 3408 Third Runway Concourse and Apron Works (Beijing Urban	Assistant Project Manager	Qian Zhang	5377 7976
Construction Group Company Limited and Chevalier (Construction) Company Limited Joint Venture)	Environmental Officer	Malcolm Leung	7073 7559

Terminal 2 (T2) Expansion:

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

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

Party	Position	Name	Telephone
Contract 3601 New Automated People Mover System (TRC Line) (CRRC Puzhen	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	Project Manager	Kunihiro Tatecho	9755 0351
Works (Niigata Transys Co., Ltd.)	Environmental Officer	Y M Tong	5316 9801
Contract 3603 3RS Baggage Handling System	Project Manager	КСНо	9272 9626
(VISH Consortium)	Environmental Officer	Richard Ng	9802 9577
Construction Support (F	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 (Shun Yuen Construction	Contract Manager	C K Liu	9194 8739
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 Infrastr	ucture:		
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 Company Limited - Beijing Urban Construction International Company Limited - Kin Shing	Environmental Officer	Ms. Kimberly Wong	5542 1669

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 Limited)	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.

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 Plar 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 ₂ S monitoring system for the sewerage system of 3RS	Details to be prepared and submitted to EPD at least one year before commencement of the operation of 3RS	The details of the routine H ₂ S monitoring system will be prepared and submitted to EPD at least one year before commencement of operation of 3RS.
Waste Management		
Waste Monitoring	At least weekly	On-going
Land Contamination		
Supplementary Contamination Assessment Plan (CAP)	At least 3 months before commencement of any soil remediation works.	The Supplementary CAP was submitted and approved by EPD under EP Condition 2.20.
Contamination Assessment Report (CAR) for Golf Course	CAR to be submitted for golf course	The CAR for Golf Course was submitted and accepted by EPD.
Contamination Assessment Reports (CAR) for Terminal 2 Emergency Power Supply Systems	CAR to be submitted for Terminal 2 Emergency Power Supply Systems	The CARs for Terminal 2 Emergency Power Supply Systems were submitted and accepted by EPD.
Terrestrial Ecology		
Pre-construction 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.
Corai Translocation		The post-translocation monitoring

Parameters	EM&A Requirements	Status
Baseline Monitoring	6 months of baseline surveys before the commencement of land formation related construction works.	Baseline CWD results were reported in the CWD Baseline Monitoring Report and submitted to EPD in accordance with EP
	Vessel line transect surveys: Two full surveys per month;	Condition 3.4.
	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.	
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:

- Two skipper training sessions provided by ET: 1 and 15 March 2023; and
- Seventeen environmental management meetings for EM&A review with works contracts: 9, 10, 16, 17, 21, 22, 23, 28 and 29 March 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/m³)	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	Appendix D of Monthly EM&A Report No. 77
	SIBATA LD-3B-2 (Serial No. 296098)	16 Sep 2022	Appendix D of Monthly EM&A Report No. 83

2.3 Monitoring Methodology

2.3.1 Measuring Procedure

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

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

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

2.3.2 Maintenance and Calibration

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

2.4 Summary of Monitoring Results

The air quality monitoring schedule 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	13 - 60	306	500
AR2	16 - 65	298	

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

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

2.5 Conclusion

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

3 Noise Monitoring

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

Table 3.1: Locations of Impact Noise Monitoring Stations

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

Notes:

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

3.1 Action and Limit Levels

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

Table 3.2: Action and Limit Levels for Noise Monitoring

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

Note:

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

3.2 Monitoring Equipment

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

Table 3.3: Noise Monitoring Equipment

Equipment	Brand and Model	Last Calibration Date	Calibration Certificate Provided in
Integrated Sound Level Meter	Rion NL-52 (Serial No. 00998505)	19 Mar 2023	Appendix D
Integrated Sound Level Meter	Rion NL-52 (Serial No. 01287679)	10 Oct 2022	Appendix D of Monthly EM&A Report No. 82
Acoustic Calibrator	Castle GA607 (Serial No. 040162)	19 Mar 2023	Appendix D
Acoustic Calibrator	Casella CEL-120 (Serial No. 2383737)	18 Jun 2022	Appendix D of Monthly EM&A Report No. 79

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**.

Table 3.4: Summary of Construction Noise Monitoring Results

Monitoring Station	Noise Level Range, dB(A) L _{eq (30mins)}	Limit Level, dB(A) Leq (30mins)	
NM1A ⁽¹⁾	57 - 65	75	
NM4 ^{(1) (3)}	63 - 66	70 ⁽²⁾	
NM5 ^{(1) (3)}	53 - 64	75	
NM6 ^{(1) (3)}	62 - 67	75	

Notes:

- (1) +3dB(A) Façade correction included;
- (2) The limit level will be reduced to 65dB(A) during school examination periods at NM4. School examination took place from 23 to 29 March 2023 during this reporting period.
- (3) Some of the noise measurement results were higher than the baseline monitoring levels. In order to reduce the influence of non-Project related noise on the monitoring results, these measurement results were corrected with reference to the baseline monitoring results.

No complaints were received from any sensitive receiver that triggered the Action Level. All monitoring results were 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	Coord	dinates	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	General Parameters DO, pH, Temperature, Salinity, Turbidity, SS	
SR2	Planned marine park / hard corals at The Brothers / Tai Mo To	814166	821463	General Parameters DO, pH, Temperature, Salinity, Turbidity, SS	
SR3	Sha Chau and Lung Kwu Chau Marine Park / fishing and spawning grounds in North Lantau		822147	General Parameters 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**.

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

Parameters		Action Level (AL)		Limit Level (LL)	
Action and Li (excluding SR					
Water Quality Monitoring St	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	
	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
- (3) Depth-averaged results are used unless specified otherwise.

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

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

Note:

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

4.2 Monitoring Equipment

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

Table 4.4: Water Quality Monitoring Equipment

Equipment	Brand and Model	Last Calibration Date	Calibration Certificate Provided in
Multifunctional Meter (measurement of DO,	YSI ProDSS (Serial No. 17E100747)	20 Dec 2022	Appendix E of Monthly EM&A Report No. 84
pH, temperature, salinity and turbidity)	YSI ProDSS (Serial No. 15M100005)	17 Mar 2023	Appendix D
Multifunctional Meter (measurement of DO,	YSI ProDSS (Serial No. 21G105356)	17 Mar 2023	Appendix D
pH, temperature, salinity and turbidity)	YSI ProDSS (Serial No. 16H104234)	2 Feb 2023	Appendix D

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

Table 4.5: Other Monitoring Equipment

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

4.3 Monitoring Methodology

4.3.1 Measuring Procedure

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

The water samples for all monitoring parameters were collected, stored, preserved and analysed according to the Standard Methods, APHA 22nd ed. and/or other methods as agreed by the EPD. In-situ measurements at monitoring locations including temperature, pH, DO, turbidity, salinity, and water depth were collected by equipment listed in **Table 4.4** and **Table 4.5**. Water samples for SS analysis were stored in high density polythene bottles with no preservative added, packed in ice (cooled to 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
02/03/2023										
04/03/2023										
07/03/2023										
09/03/2023										
11/03/2023										
14/03/2023										
16/03/2023										
18/03/2023										
21/03/2023										
23/03/2023										
25/03/2023										
28/03/2023										
30/03/2023										
No. of										
result										
triggering	1	0	0	0	0	0	0	0	0	0
Action or										
Limit Level										

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

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

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
11/3/2023	Sea wall construction	1.22 km	Implemented	No	No	No

IM1 is 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 on 11 March 2023. 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 on 11 March 2023 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.

Table 5.2: Construction Waste Statistics

		Project	Reused in other Projects	Transferred to Public Fill	Chemical Waste (kg)	Chemical Waste (I)	General Refuse (tonne)
March 2023 ⁽²⁾	1,549	208	1,486	11,671	0	2,400	3385

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.

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

6 Chinese White Dolphin Monitoring

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

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

6.1 Action and Limit Levels

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

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

	NEL, NWL, AW, WE allu SWE 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

NEL NWI AW WI and SWI as a Whole

Notes: (referring to the baseline monitoring report)

- (1) Action Level running quarterly encounter rates STG & ANI of this month will be calculated from the reporting period and the two preceding survey months.
- (2) Limit Level two consecutive running quarters mean both the running quarterly encounter rates of the preceding month and the running quarterly encounter rates of this month.
- (3) Action Level and/or Limit Level will be triggered if both STG and ANI fall below the criteria.

6.2 CWD Monitoring Transects and Stations

6.2.1 Small Vessel Line-transect Survey

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

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

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

Waypoint	Easting	Northing	Waypoint	Easting	Northing
		NE	L		
1S	813525	820900	6N	818568	824433
1N	813525	824657	7S	819532	821420
2S	814556	818449	7N	819532	824209
2N	814559	824768	8S	820451	822125
3S	815542	818807	8N	820451	823671
3N	815542	824882	9S	821504	822371
4S	816506	819480	9N	821504	823761
4N	816506	824859	10S	822513	823268
5S	817537	820220	10N	822513	824321
5N	817537	824613	11S	823477	823402
6S	818568	820735	11N	823477	824613
		NV	VL		
1S	804671	814577	5S	808504	821735
1N	804671	831404	5N	808504	828602
2Sb	805475	815457	6S	809490	822075
2Nb	805476	818571	6N	809490	825352
2Sa	805476	820770	7S	810499	822323
2Na	805476	830562	7N	810499	824613
3S	806464	821033	8S	811508	821839
3N	806464	829598	8N	811508	824254
48	807518	821395	9S	812516	821356
4N	807518	829230	9N	812516	824254
		A	N		
1W	804733	818205	2W	805045	816912
1E	806708	818017	2E	805960	816633
		W	'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	VL		
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
48	805478	802105	98	810542	800423
4N	805478	807556	9N	810542	807462
5S	806473	801250	108	811446	801335
5N	806473	808458	10N	811446	809436

6.2.2 Land-based Theodolite Tracking Survey

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

Table 6.3: Land-based Theodolite Survey Station Details

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

6.3 CWD Monitoring Methodology

6.3.1 Small Vessel Line-transect Survey

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

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

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

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

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

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

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

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

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

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

6.3.2 Photo Identification

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

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

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

6.3.3 Land-based Theodolite Tracking Survey

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

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

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

6.4 Monitoring Results and Observations

6.4.1 Small Vessel Line-transect Survey

Survey Effort

Within this reporting period, two complete sets of small vessel line-transect surveys were conducted on the 1, 2, 3, 6, 7, 9, 10 and 13 March 2023 covering all transects in NEL, NWL, AW, WL and SWL survey areas for twice.

A total of around 438.25 km of survey effort was collected from these surveys and around 421.12 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, 16 sightings with 75 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 survey area, three CWD groups were recorded at the waters to the west of HKIA and to the north of HKZMB, while one CWD sighting was recorded to the north of LKC. In WL, CWD sightings were scattered across the survey area with slightly more sightings recorded to the north of Peaked Hill. In addition, three CWD groups were recorded in SWL area, including two sightings near Fan Lau Tung Wan and one at the waters off Shui Hau. There was no CWD sighting recorded in NEL survey area during the reporting period.

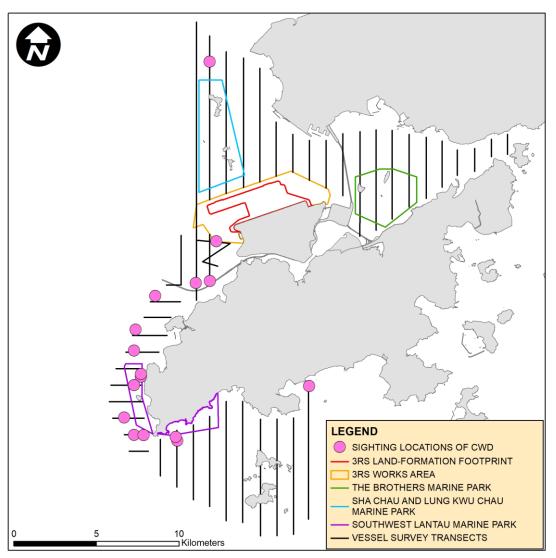


Figure 6.3: Sightings Distribution of Chinese White Dolphins

Remarks: (1) Please note that there are 16 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 421.12 km of survey effort was conducted under Beaufort Sea State 3 or below with favourable visibility, whilst a total number of 16 on-effort sightings with 75 dolphins were sighted under such condition. Calculation of the encounter rates for the month are shown in **Appendix C**.

For the running quarter of the reporting period (i.e., from January to March 2023), a total of around 1303.92 km of survey effort was conducted under Beaufort Sea State 3 or below with favourable visibility, whilst a total number of 43 on-effort sightings and a total number of 166 dolphins from on-effort sightings were obtained under such condition. Calculation of the running quarterly encounter rates are shown in **Appendix C**.

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

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

	Encounter Rate (STG)	Encounter Rate (ANI)
March 2023	3.80	17.81
Running Quarter from January to March 2023 ⁽¹⁾	3.30	12.73
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, 16 groups of 75 dolphins in total were sighted, and the average group size of CWDs was 4.7 dolphins per group. More than half of the CWD sightings were medium group size (i.e. 3-9 dolphins). There was one CWD sighting with large group size (i.e. 10 or more dolphins) which was recorded in WL area in the current reporting period.

Activities and Association with Fishing Boats

There were seven CWD sightings recorded engaging in foraging activities in the current reporting period in NWL and WL survey areas. Association with fishing boat was not observed for the CWD sightings.

Mother-calf Pair

In this reporting period, there were three sightings with the presences of mother-and-unspotted juvenile pair. Two of these sightings were recorded in WL, while another one was recorded in NWL survey area.

6.4.2 Photo Identification

In the current reporting period, a total number of 47 different CWD individuals were identified for totally 68 times. A summary of photo identification works is presented in **Table 6.5**. Representative photos of these individuals are given in **Appendix C**.

Table 6.5: Summary of Photo Identification

Individual ID	Date of Sighting (dd-mmm- yy)	Sighting Group No.	Area	Individual ID	Date of Sighting (dd-mmm- yy)	Sighting Group No.	Area
NLMM016	01-Mar-23	5	WL	SLMM058	01-Mar-23	5	WL
	07-Mar-23	2	NWL		02-Mar-23	1	WL
NLMM021	01-Mar-23	2	WL			2	WL
NLMM027	03-Mar-23	1	NWL	SLMM060	09-Mar-23	1	SWL
NLMM040	01-Mar-23	4	WL	SLMM073	01-Mar-23	6	WL
	03-Mar-23	1	NWL	SLMM074	01-Mar-23	2	WL
NLMM041	01-Mar-23	4	WL	WLMM001	01-Mar-23	5	WL
	03-Mar-23	1	NWL	WLMM003	02-Mar-23	2	WL
NLMM081	01-Mar-23	2	WL	WLMM005	01-Mar-23	5	WL
	02-Mar-23	1	WL	WLMM007	02-Mar-23	2	WL
NLMM089	07-Mar-23	1	NWL			3	WL
SLMM002	01-Mar-23	6	WL	WLMM027	01-Mar-23	1	AW
SLMM003	02-Mar-23	3	WL	WLMM028	01-Mar-23	5	WL
SLMM007	01-Mar-23	6	WL	WLMM029	03-Mar-23	1	NWL
SLMM010	01-Mar-23	6	WL	WLMM043	01-Mar-23	5	WL
	02-Mar-23	2	WL	WLMM056	02-Mar-23	3	WL
SLMM014	01-Mar-23	7	WL		09-Mar-23	9	SWL
	02-Mar-23	3	WL		10-Mar-23	2	SWL
	09-Mar-23	9	SWL	WLMM067	01-Mar-23	6	WL
SLMM023	02-Mar-23	2	WL	WLMM080	02-Mar-23	2	WL
		3	WL	WLMM103	01-Mar-23	4	WL
SLMM025	02-Mar-23	2	WL	WLMM109	02-Mar-23	1	WL
SLMM027	02-Mar-23	2	WL	WLMM114	02-Mar-23	2	WL
SLMM031	01-Mar-23	7	WL	WLMM118	02-Mar-23	2	WL
	09-Mar-23	9	SWL	WLMM150	02-Mar-23	1	WL
SLMM035	01-Mar-23	7	WL	WLMM174	02-Mar-23	1	WL
	02-Mar-23	3	WL	WLMM181	01-Mar-23	2	WL
	09-Mar-23	9	SWL			3	WL
SLMM037	02-Mar-23	2	WL	WLMM182	01-Mar-23	2	WL
	09-Mar-23	9	SWL	WLMM183	01-Mar-23	4	WL
SLMM044	02-Mar-23	1	WL	WLMM184	01-Mar-23	4	WL
		2	WL	WLMM185	01-Mar-23	4	WL

Individual ID	Date of Sighting (dd-mmm- yy)	Sighting Group No.	Area	Individual ID	Date of Sighting (dd-mmm- yy)	Sighting Group No.	Area
SLMM049	01-Mar-23	6	WL	WLMM186	01-Mar-23	5	WL
	02-Mar-23	2	WL				
		3	WL				

6.4.3 Land-based Theodolite Tracking Survey

Survey Effort

Land-based theodolite tracking surveys were conducted at LKC on 3 March 2023 and at SC on 24 March 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**.

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

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

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 retrieved on 7 March 2023 and subsequently re-deployed underwater and positioned at south of Sha Chau Island inside the SCLKCMP (**Figure 6.4**). The next re-deployment is scheduled in mid-May 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

contractor's works areas

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 root and crown preparation periods shall be allowed in the project programme Tree Transplanting Specifications were provided in the relevant Contract Specifications respectively for implementation by the Contractors under the Project where trees would unavoidably be affected by the construction works.

3508, 3801

The Contractors were required to submit Method Statements for tree transplanting prior to the transplanting works. Tree inspections were conducted by ET to check the tree transplanting works implemented by the Contractors on site.

The Contractors' performance on the implementation of trees maintenance and protection measures on transplanted trees were observed and checked by the ET bi-monthly during the 12-month establishment period after the completion of each batch of transplanting works.

Long term management of the transplanted trees was currently monitored by ET annually.

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 To be implemented runways were partially completed at this stage and would resume in next phase.

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



Erection of site hoardings around works area in unobtrusive colours (CM5)



Avoidance of excessive height and bulk of site buildings (CM6)



Control of night-time lighting using light hooding and minimisation of night working period (CM7)



General view of tree protection zone for retained tree (CM8)



General view of 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 transplanted trees under the Project remained unchanged (i.e. 26) comparing to the previous reporting period. The cumulative total number of retained trees was reduced from 49 to 47 as two retained trees were confirmed dead due to unrecoverable health problems.

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.

Table 7.3: Monitoring Programme for Landscape and Visual

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

Table 7.4: Event and Action Plan for Landscape and Visual

Event Action Level		Action		
	ET	IEC	AAHK/PM	Contractor
Design Check	Check final design conforms to the requirements of EP and prepare report.	Check report. Recommend remedial design if necessary.	Undertake remedial design if necessary.	

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

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

Existing				
Contract	Retain (nos.)	Transplanted (no	To-be-transplanted (nos.)	
		Establishment Period	Maintenance Period	
3302	9	0	0	0
3503	0	0	9	0
3508	35	0	12	0
3602	0	0	0	0
3801	3	0	5 ⁽¹⁾	0
Grand Total	47	0	26	0

Notes:

⁽¹⁾ 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**.

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

Tree ID	Transplant Date	Management Stage	Management Agency	Remarks
CT276	3 May 2018	Long Term Management period Jun 2019 – May 2028	Southern Landside Petrol Filling Station	Establishment Period was completed. Next inspection will be conducted in February 2024. Photos
CT1253	4 May 2018	Long Term Management period Jun 2019 – May 2028	Southern Landside Petrol Filling Station	 of the last inspection in February 2023 can be referred to Table 7.7 of the Construction Phase Monthly EM&A Report No. 86.
T835	22 Jan 2020	Long Term Management period Feb 2021 – Jan 2030	AAHK	Establishment Period was completed. Next inspection will be conducted in February 2024. Photos
T836	13 Dec 2019	Long Term Management period Feb 2021 – Jan 2030	AAHK	of the last inspection in February 2023 can be referred to Table 7.7 of the Construction Phase Monthly
T838	22 Jan 2020	Long Term Management period Feb 2021 – Jan 2030	AAHK	EM&A Report No. 86.
T812	21 Dec 2020	Long Term Management period Jan 2022 – Dec 2031	AAHK	Establishment Period was completed. Next inspection will be
T814	20 Dec 2020	Long Term Management period Jan 2022 – Dec 2031	AAHK	 conducted in December 2023. Photos of the last inspection in December 2022 can be referred to
T815	15 Dec 2020	Long Term Management period Jan 2022 – Dec 2031	AAHK	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	AAHK	_
T830	14 Dec 2020	Long Term Management period Jan 2022 – Dec 2031	AAHK	-
T831	19 Dec 2020	Long Term Management period Jan 2022 – Dec 2031	AAHK	_
T1493	6 Jul 2021	Long Term Management period Aug 2022 – Jul 2031	Contract 3508	Establishment Period was completed. Next inspection will be
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	-
T1499	29 Jun 2021	Long Term Management period Aug 2022 – Jul 2031	Contract 3508	_
T1500	30 Jun 2021	Long Term Management period Aug 2022 – Jul 2031	Contract 3508	-
T1501	30 Jun 2021	Long Term Management period Aug 2022 – Jul 2031	Contract 3508	_

Tree ID	Transplant Date	Management Stage	Management Agency	Remarks
T1502	5 Jul 2021	Long Term Management period Aug 2022 – Jul 2031	Contract 3508	
T1503	6 Jul 2021	Long Term Management period Aug 2022 – Jul 2031	Contract 3508	-
T1504	24 Jun 2021	Long Term Management period Aug 2022 – Jul 2031	Contract 3508	-
CT1194	4 May 2018	Long Term Management period Jun 2019 – May 2028	Southern Landside Petrol Filling Station	Establishment Period was completed. Uprooted and collapsed due to Typhoon Higos on 18 August 2020. Tree removal was conducted as recommended by tree specialist of the contractor of Southern Landside Petrol Filing Station.
CT1794	3 May 2018	Long Term Management period Jun 2019 – May 2028	AsiaWorld-Expo	Establishment Period was completed. The tree within the land parcel was acquired by the government for construction of emergency hospital to handle COVID19 pandemic at AsiaWorld-Expo. The tree was felled in late 2020.
CT1795	3 May 2018	Long Term Management period Jun 2019 – May 2028	AsiaWorld-Expo	Establishment Period was completed. The tree within the land parcel was acquired by the government for construction of emergency hospital to handle COVID19 pandemic at AsiaWorld-Expo. The tree was felled in late 2020.

7.3 Land Contamination Assessment

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

According to the approved supplementary CAP, there are 3 remaining locations where site 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.

Due to the COVID-19 pandemic, the SkyPier HSF services to/from Zhuhai has been suspended from 25 March 2020 until further notice. Key audit findings for the SkyPier HSF travelling to/from Macau against the requirements of the SkyPier Plan during the reporting period are summarised in **Table 7.7**. The daily movement of all SkyPier HSFs, including those not using the diverted route, in this reporting period (i.e., 23 to 29 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, 24 ferry movements between HKIA SkyPier and Macau were recorded in March 2023 and the data are presented in **Appendix G**. The time spent by the SkyPier HSF travelling through the SCZ in March 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.

Duration of Ferry Movements through SCZ for Mar-2023 20 Time travelled through the SCZ (minutes) 18 16 14 12 10 8 Time required for travelling through SCZ at speed of 6 4 2 03-Mar-2023 04-Mar-2023 05-Mar-2023 06-Mar-2023 J7-Mar-2023 08-Mar-2023 39-Mar-2023 0-Mar-2023 |2-Mar-2023 3-Mar-2023 14-Mar-2023 15-Mar-2023 6-Mar-2023 17-Mar-2023 8-Mar-2023 19-Mar-2023 20-Mar-2023 21-Mar-2023 23-Mar-2023 24-Mar-2023 25-Mar-2023 26-Mar-2023 27-Mar-2023 28-Mar-2023 29-Mar-2023 30-Mar-2023 31-Mar-2023 11-Mar-2023 22-Mar-202

Figure 7.1: Duration of the SkyPier HSFs travelling through the SCZ for March 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.

As reported in the Construction Phase Monthly EM&A Report No.86, one ferry was recorded with minor route deviation on 26 February 2023. ET's investigation found that the minor route deviation was for safety reason to avoid hitting a number of floating objects.

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

Requirements in the SkyPier Plan	1 to 31 March 2023
Total number of ferry movements recorded and audited for HSF to/from Macau	24
Use diverted route and enter / leave SCZ through Gate Access Points	0
Speed control in speed control zone	The average speed of all HSFs travelling through the SCZ ranged from 8.0 to 13.1 knots. All HSFs had travelled through the SCZ with average speed under 15 knots in compliance with the SkyPier Plan. The time used by HSFs to travel through SCZ is presented in Figure 7.1.
A maximum daily cap of 125 movements for all SkyPier HSFs including those not using diverted route	23 to 29 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:

- Two skipper training sessions were held for contractors' concerned skippers of relevant
 construction vessels to familiarize them with the predefined routes; general education on
 local cetaceans; guidelines for avoiding adverse water quality impact; the required
 environmental practices / measures while operation construction and associated vessels
 under the Project; and guidelines for operating vessels safely in the presence of CWDs.
 The list of all trained skippers was properly recorded and maintained by ET.
- One skipper training session was held by contractor's Environmental Officer.
 Competency test was subsequently conducted with the trained skippers by ET. The list of all trained skippers was properly recorded and maintained by ET.
- In this reporting period, 3 skippers were trained by ET and 3 skippers were trained by contractor's Environmental Officer. In total, 1883 skippers were trained from August 2016 to March 2023.
- 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 7.8**.

Table 7.8: Status of Submissions under Environmental Permit

EP Condition	Submission	Status
2.1	Complaint Management Plan	-
2.4	Management Organizations	-
2.5	Construction Works Schedule and Location Plans	-
2.7	Marine Park Proposal	Accepted /
2.8	Marine Ecology Conservation Plan	approved by EPD
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	-

EP Condition	Submission	Status
2.11	Marine Mammal Watching Plan	
2.12	Coral Translocation Plan	_
2.13	Fisheries Management Plan	=
2.14	Egretry Survey Plan	_
2.15	Silt Curtain Deployment Plan	_
2.16	Spill Response Plan	_
2.17	Detailed Plan on Deep Cement Mixing	_
2.18	Landscape & Visual Plan	_
2.19	Waste Management Plan	_
2.20	Supplementary Contamination Assessment Plan	_
3.1	Updated EM&A Manual	_
3.4	Baseline Monitoring Reports	_

7.8 Compliance with Other Statutory Environmental Requirements

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

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

7.9.1 Complaints

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

7.9.2 Notifications of Summons or Status of Prosecution

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

7.9.3 Cumulative Statistics

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

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

8.1 Construction Programme for the Coming Reporting Period

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

Reclamation Works:

Contract 3206 Main Reclamation Works

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;
- Rectification work for airfield ground lighting system; and
- · Cable containment installation.

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

Equipment installation.

Contract 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; and
- Manhole construction and pipe laying 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;
- 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;
- Additional sewage works;
- Outstanding works of sewage manholes; and
- Maintenance of temporary sewage pump and control panel.

Airport Support Infrastructure:

Contract 3801 APM and BHS Tunnels on Existing Airport Island

- Excavation and backfilling works;
- Hoarding erection;
- Underground utilities installation works;
- Rebar fixing; and
- 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 23 to 29 daily movements, which are within the maximum daily cap of 125 daily movements. A total of 24 HSFs movements under the SkyPier Plan were recorded in the reporting period. The average speed of all HSFs travelling through the SCZ ranged from 8.0 to 13.1 knots. All HSFs had travelled through the SCZ with average speed under 15 knots in compliance with the SkyPier Plan. 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.

Figures

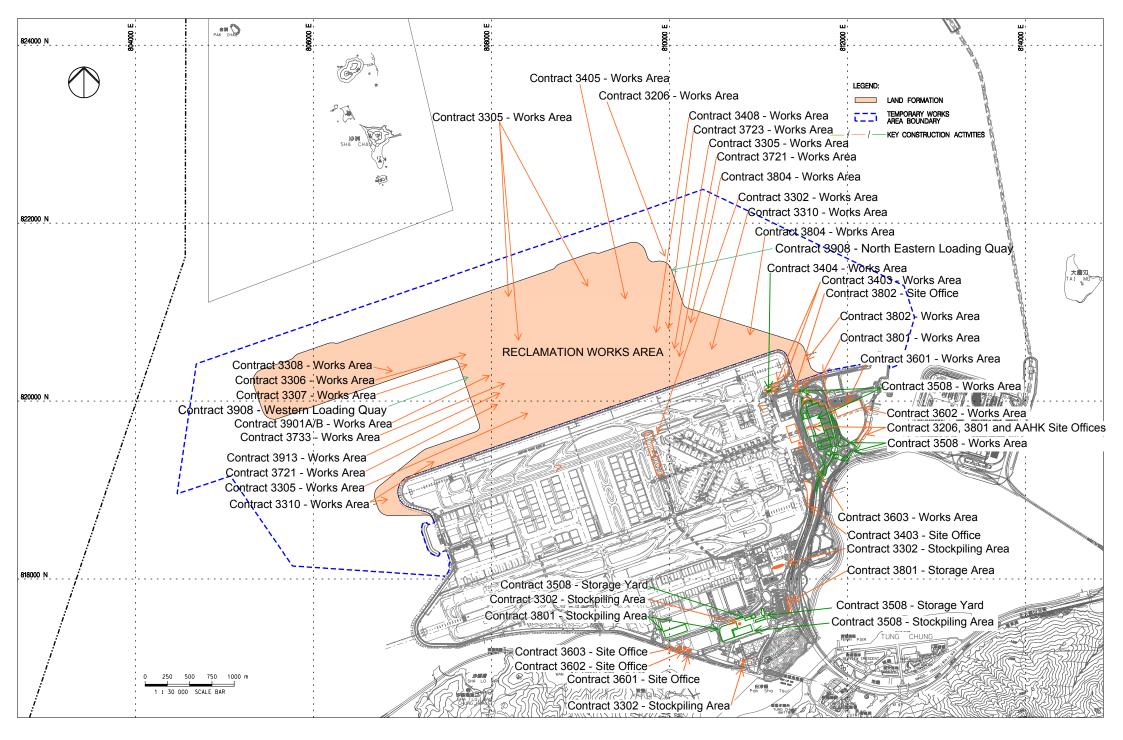
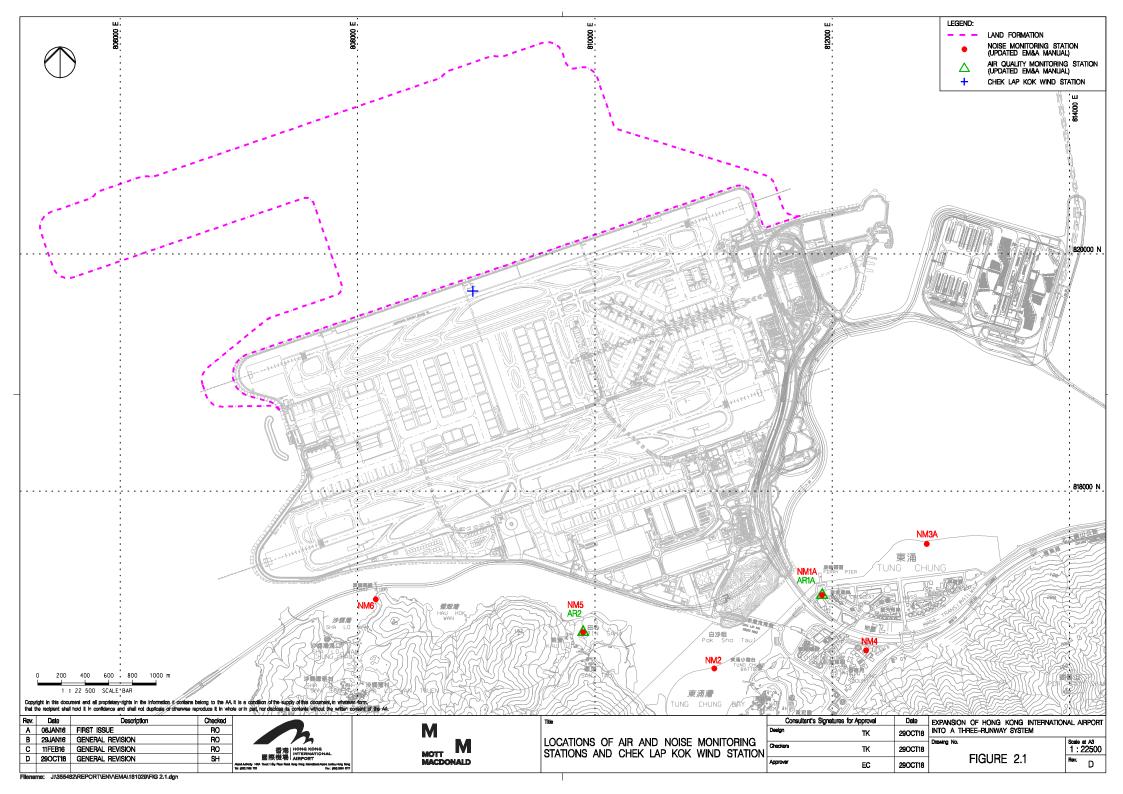
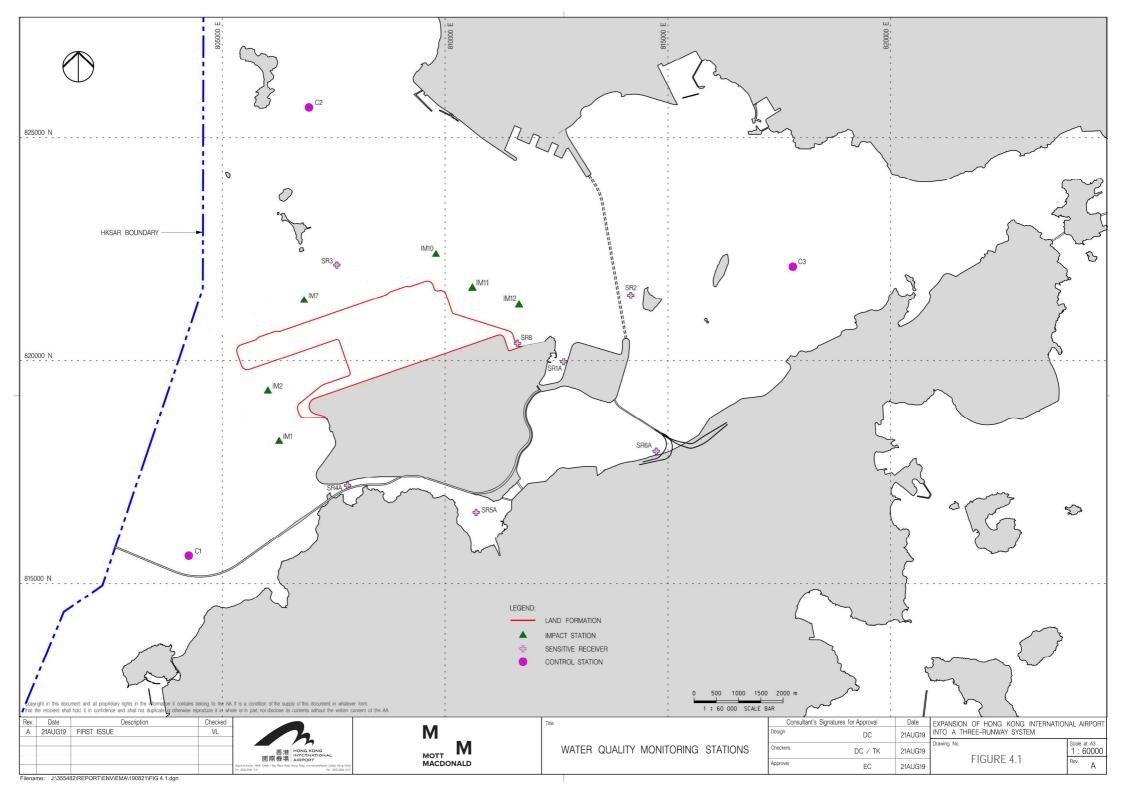
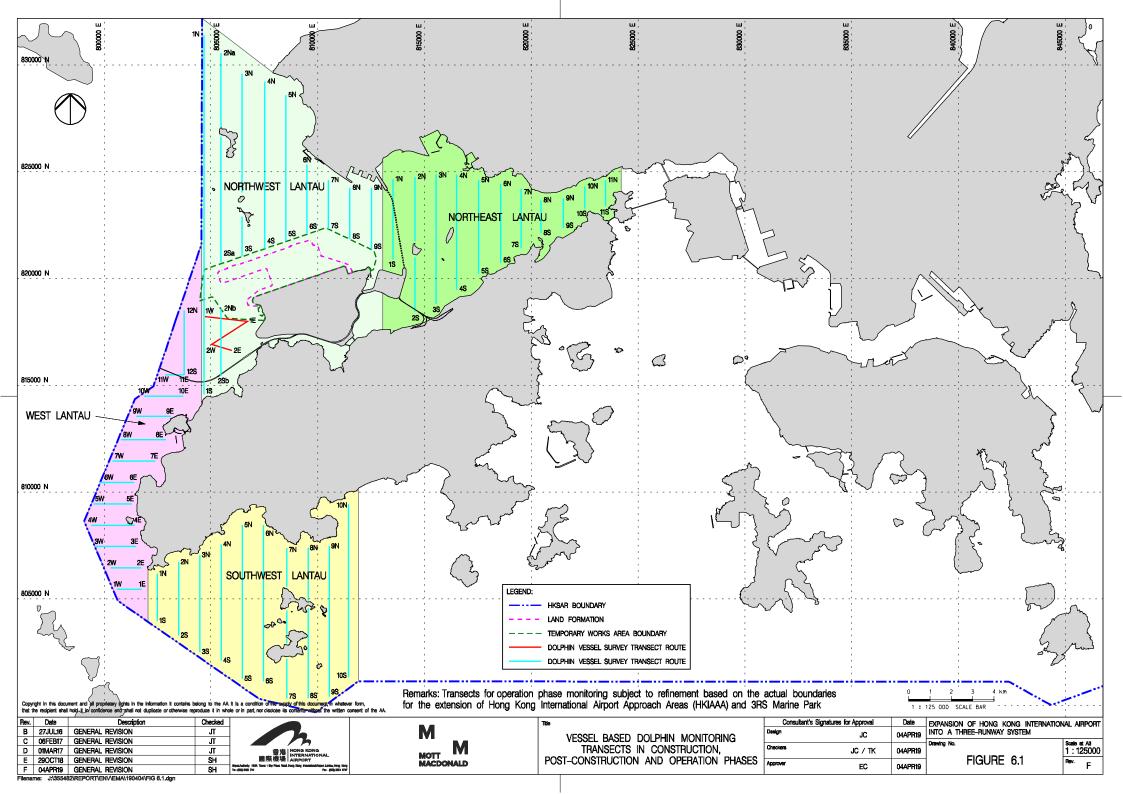
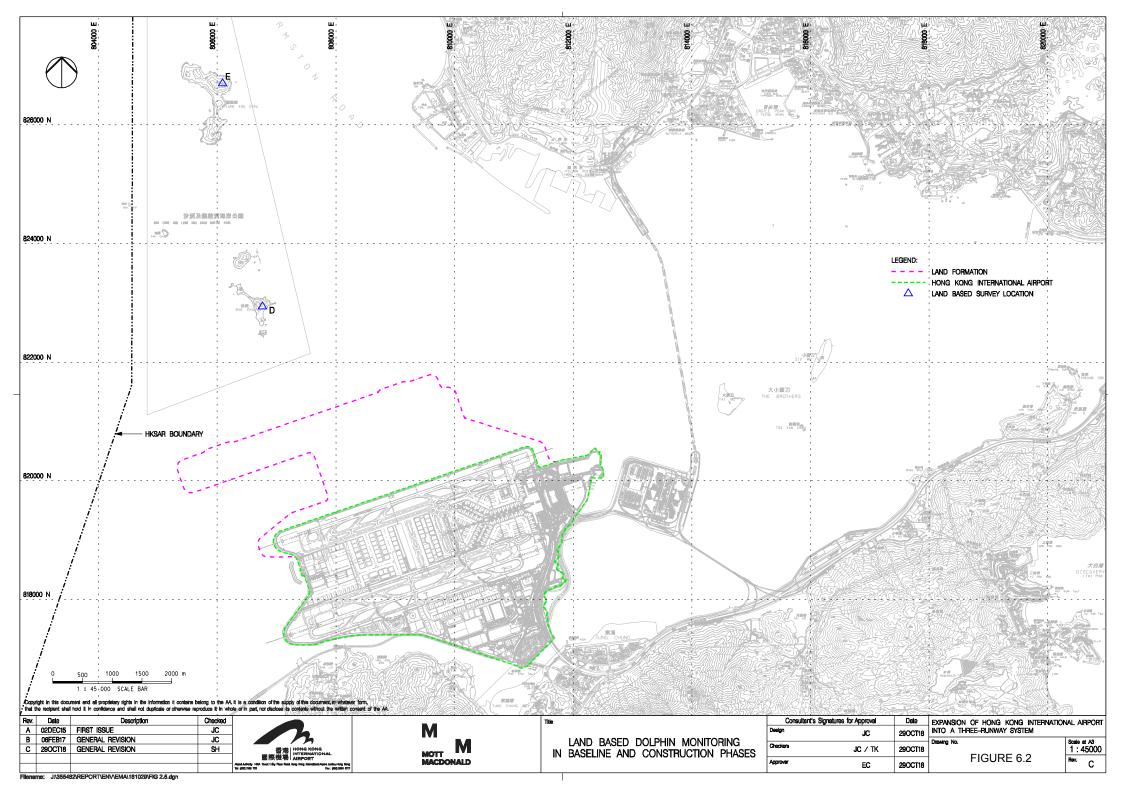


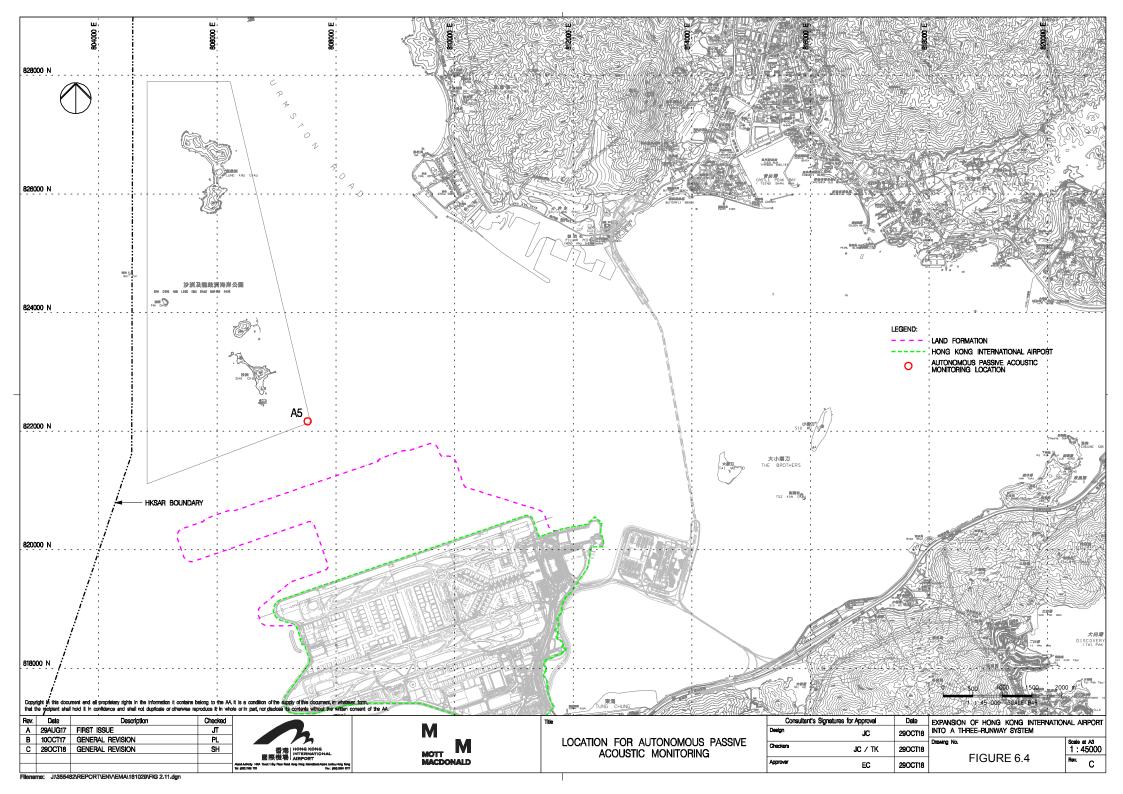
FIGURE 1.1 LOCATIONS OF KEY CONSTRUCTION ACTIVITIES











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



Environmental Mitigation Implementation Schedule (EMIS) for Construction Phase

EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			Air Quality Impact – Construction Phase		
5.2.6.2	2.1	-	Dust Control 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	1
5.2.6.4	2.1	-	Dust control practices as stipulated in the Air Pollution Control (Construction Dust) Regulation should be adopted. These practices include: Good Site Management Good site management is important to help reducing potential air quality impact down to an acceptable level. As a general guide, the Contractor should maintain high standard of housekeeping to prevent emission of fugitive dust. Loading, unloading, handling and storage of raw materials, wastes or byproducts should be carried out in a manner so as to minimise the release of visible dust emission. Any piles of materials accumulated on or around the work areas should be cleaned up regularly. Cleaning, repair and maintenance of all plant facilities within the work areas should be carried out in a manner minimising generation of fugitive dust emissions. The material should be handled properly to prevent fugitive dust emission before cleaning.	Within construction site / Duration of the construction phase	I
			Disturbed Parts of the Roads Each and every main temporary access should be paved with concrete, bituminous hardcore materials or metal plates and kept clear of dusty materials; or Unpaved parts of the road should be sprayed with water or a dust suppression chemical so as to keep the entire road surface wet.	Within construction site / Duration of the construction phase	I
			 Exposed Earth Exposed earth should be properly treated by compaction, hydroseeding, vegetation planting or seating with latex, vinyl, bitumen within six months after the last construction activity on the site or part of the site where the exposed earth lies. 	Within construction site / Duration of the construction phase	1

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



	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			Loading, Unloading or Transfer of Dusty Materials	Within construction	1
			• 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	1
			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	1
			 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	1
			 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	1
			The relevant best practices for dust control as stipulated in the Guidance Note on the Best Practicable Means for Cement Works (Concrete Batching Plant) BPM 3/2 as well as in the future Specified Process licence should be adopted. The best practices are recommended to be applied to both the land based and floating concrete batching plants. Best practices include:	Process Duration of the	
			Cement and other dusty materials		



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 valves of all silos shall be checked, and the valves re-seated if necessary, before each delivery. 		
			Other raw materials	Within Concrete	1
			 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; 		
			• 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	1
			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	1
			 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	1
			• A high standard of housekeeping shall be maintained. All spillages or deposits of materials on ground, support structures or roofs shall be cleaned up promptly by a cleaning method acceptable to EPD. Any dumping of materials at open area shall be prohibited.	Batching Plant / Duration of the construction phase	
5.2.6.6	2.1	-	Best Practices for Asphaltic Concrete Plant	Within Concrete	1
			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	Mitigation Measures
				Timing of completion of 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	I
			• 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	
			• 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;	construction phase	
			• 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	1
			• 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
				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	1
			• 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	Duration of the	1
			 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 stage
			Crushers		



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures	Mitigation Measures
				Timing of completion of measures	Implemented?^
			• The outlet of all primary crushers, and both inlet and outlet of all secondary and tertiary crushers, if not installed inside a reasonably dust tight housing, shall be enclosed and ducted to a dust extraction and collection system such as a fabric filter;		
			• The inlet hopper of the primary crushers shall be enclosed on top and 3 sides to contain the emissions during dumping of rocks from trucks. The rock while still on the trucks shall be wetted before dumping;		
			 Water sprayers shall be installed and operated in strategic locations at the feeding inlet of crushers; and 		
			 Crusher enclosures shall be rigid and be fitted with self-closing doors and close-fitting entrances and exits. Where conveyors pass through the crusher enclosures, flexible covers shall be installed at entries and exits of the conveyors to the enclosure. 		
			Vibratory screens and grizzlies	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 Timing of completion of measures	Mitigation Measures Implemented?^
			 The surface of all surge piles and stockpiles of blasted rocks or aggregates shall be kept sufficiently wet by water spraying wherever practicable; 	or modelico	
			 All open stockpiles for aggregates of size in excess of 5 mm shall be kept sufficiently wet by water spraying where practicable; or 		
			• The stockpiles of aggregates 5 mm in size or less shall be enclosed on 3 sides or suitably located to minimize wind-whipping. Save for fluctuations in stock or production, the average stockpile shall stay within the enclosure walls and in no case the height of the stockpile shall exceed twice the height of the enclosure walls; and		
			 Scattered piles gathered beneath belt conveyors, inside and around enclosures shall be cleared regularly. 		
			Rock drilling equipment Appropriate dust control equipment such as a dust extraction and collection system shall be used during rock drilling activities.	Within Concrete Batching Plant / Duration of the construction phase	N/A as there was no rock crushing plant at this stage
			Hazard to Human Life – Construction Phase		
Table 6.40	3.2	-	■ Precautionary measures should be established to request barges to move away during typhoons.	Construction Site / Construction Period	I
Table 6.40	3.2	-	• An appropriate marine traffic management system should be established to minimize risk of ship collision.	Construction Site / Construction Period	I
Table 6.40	3.2	-	 Location of all existing hydrant networks should be clearly identified prior to any construction works. 	Construction Site / Construction Period	I
			Noise Impact – Construction Phase		
7.5.6	4.3	-	Good Site Practice Good site practice and noise management can significantly reduce the impact of construction site activities on nearby NSRs. The following package of measures should be followed during each phase of construction:	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 Timing of completion of measures	Mitigation Measures Implemented?^
7.5.6	4.3	-	Adoption of QPME QPME should be adopted as far as applicable.	Within the Project site / During construction phase / Prior to commencement of operation	I
7.5.6	4.3	-	 Use of Movable Noise Barriers Movable noise barriers should be placed along the active works area and mobile plants to block the direct line of sight between PME and the NSRs. 	Within the Project site / During construction phase / Prior to commencement of operation	I
7.5.6	4.3	-	 Use of Noise Enclosure/ Acoustic Shed Noise enclosure or acoustic shed should be used to cover stationary PME such as air compressor and generator. 	Within the Project site / During construction phase / Prior to commencement of operation	I
			Water Quality Impact – Construction Phase		
8.8.1.2 and 8.8.1.3	5.1	2.26	 Marine Construction Activities 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 or propeller wash; The works shall not cause foam, oil, grease, litter or other objectionable matter to be present in the water 	Within construction site / Duration of the construction phase	l
			within and adjacent to the works site; and For ground improvement activities including DCM, the wash water from cleaning of the drilling shaft should be appropriately treated before discharge. The Contractor should ensure the wastewater meets the WPCO/TM requirements before discharge. No direct discharge of contaminated water is permitted.		



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			 Specific Measures to be Applied to All Works Areas The daily maximum production rates shall not exceed those assumed in the water quality assessment in the EIA report; 	Within construction site / Duration of the construction phase	I – For marine 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 sand 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; 		I
			 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 Silt Curtain Deployment Plan)
			■ The Silt Curtain Deployment Plan shall be implemented.	•	1
			Specific Measures to be Applied to Land Formation Activities prior to Commencement of Marine Filling Works Double layer 'Type III' silt curtains to be applied around the active eastern works areas prior to commencement of sand blanket laying activities. The silt curtains shall be configured to minimise SS release during ebb tides. A silt curtain efficiency test shall be conducted to validate the performance of the silt curtains;	Within construction site / Duration of the construction phase	N/A (The arrangement of silt curtain has been modified. The details can be referred to Silt Curtain Deployment Plan)
			 Double layer silt curtains to enclose WSRs C7a and silt screens installed at the intake points for both WSR C7a and C8 prior to commencement of construction; and 		I – For C7a
					C – Completed in Dec 2021 for C8
					*(The requirement of silt curtain / screen has been modified. The details can be referred to Silt Curtain Deployment Plan)
			The silt curtains and silt screens should be regularly checked and maintained.	•	1



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures	Mitigation Measures
				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 of silt curtain has been modified. The details can be referred to Silt Curtain Deployment Plan)
			Double layer silt curtains to be applied at the south-western opening prior to commencement of marine		N/A
			filling activities;		(The arrangement of silt curtain has been modified. The details can be referred to Silt Curtain Deployment Plan)
			 Double layer silt curtain to enclose WSR C7a and silt screens installed at the intake points for both WSR C7a and C8 prior to commencement of marine filling activities; and 		I – For C7a
					C – Completed in Dec 2021 for C8
					(The requirement of silt curtain / screen has been modified. The details can be referred to Silt Curtain Deployment Plan)
			■ The silt curtains and silt screens should be regularly checked and maintained.		1
			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	1
			• 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 Timing of completion of measures	Mitigation 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: 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 around legated on the oxisting Airport island) or as according to the powelland is completed (for works around the oxisting Airport island) or as according to the powelland is completed (for works around the oxisting Airport island) or as according to the powelland is completed.	Within construction site / Duration of the construction phase	I
			areas located on the existing Airport island) or as soon as the new land is completed (for works areas located on the new landform); Sand/silt removal facilities such as sand/silt traps and sediment basins should be provided to remove sand/silt particles from runoff to meet the requirements of the TM-DSS standards under the WPCO. The design of efficient silt removal facilities should make reference to the guidelines in Appendix A1 of ProPECC Note PN 1/94. Sizes may vary depending upon the flow rate. The detailed design of the sand/silt traps should be undertaken by the Contractors prior to the commencement of construction;		I



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		I
			• All vehicles and plant should be cleaned before leaving a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. An adequately designed and sited wheel washing facility should be provided at construction site exits. Wash-water should have sand and silt settled out and removed regularly to ensure the continued efficiency of the process. The section of access road leading to, and exiting from, the wheel-wash bay to the public road should be paved with sufficient backfall toward the wheel-wash bay to prevent vehicle tracking of soil and silty water to public roads and drains. All washwater should be treated according to the requirements of the TM-DSS standards under the WPCO prior to discharge.		I
			 Open stockpiles of construction materials or construction wastes on-site should be covered with tarpaulin or similar fabric during rainstorms. Measures should be taken to prevent the construction materials, soil, silt or debris from washing away into the drainage system; 		ſ
			 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 		T
			• 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	Within construction site / During	I
			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.	construction phase	



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion	Mitigation Measures Implemented?^
				of measures	
8.8.1.10	5.1		General Construction Activities	Within construction	1
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	C – Completed in Jan 2019
			 During pipe cleaning, appropriate desilting or sedimentation device should be provided on site for treatment before discharge. The Contractor should ensure discharge water from the sedimentation tank meet the WPCO/TM requirements before discharge; and 	construction phase	
			 Drilling fluid used in drilling activities should be reconditioned and reused as far as possible. Temporary enclosed storage locations should be provided on-site for any unused chemicals that needs to be transported away after all the related construction activities are completed. The requirements in ProPECC Note PN 1/94 should be adhered to in the handling and disposal of bentonite slurries. 		
			Waste Management Implication – Construction Phase		
10.5.1.1	7.1	-	Opportunities to minimise waste generation and maximise the reuse of waste materials generated by the project have been incorporated where possible into the planning, design and construction stages, and the following measures have been recommended:		
			■ The relevant construction methods (particularly for the tunnel works) and construction programme have been carefully planned and developed to minimise the extent of excavation and to maximise the on-site reuse of inert C&D materials generated by the project as far as practicable. Temporary stockpiling areas will also be provided to facilitate on-site reuse of inert C&D materials;	Project Site Area / During design and construction phase	I
			 Priority should be given to collect and reuse suitable inert C&D materials generated from other concurrent projects and the Government's PFRF as fill materials for the proposed land formation works; 	•	1



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; 		1
			 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 	•	1
			• 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.	•	ı
10.5.1.1	7.1	-	The following good site practices should be performed during the construction activities include:	Project Site Area /	T
			 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 /	1
			 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	Mitigation Measures
				Timing of completion of 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	1
10.5.1.5	7.1	-	Any recyclable materials should be segregated from the non-inert C&D materials for collection by reputable licensed recyclers whereas the non-recyclable waste materials should be disposed of at the designated landfill site by a reputable licensed waste collector.	Project Site Area / Construction Phase	I
10.5.1.6	7.1	-	A trip-ticket system promulgated shall be developed in order to monitor the off-site delivery of surplus inert C&D materials that could not be reused on-site for the proposed land formation work at the PFRF and to control fly tipping.	Project Site Area / Construction Phase	I
10.5.1.6	7.1	2.32	The Contractor should prepare and implement a Waste Management Plan detailing various waste arising and waste management practices.	Construction Phase	1
10.5.1.16	7.1	-	The following mitigation measures are recommended during excavation and treatment of the sediments: On-site remediation should be carried out in an enclosed area in order to minimise odour/dust emissions;	Project Site Area / Construction Phase	1
			 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; 		I
			• Good housekeeping should be maintained at all times at the sediment treatment facility and storage area;		I
			 Treated and untreated sediment should be clearly separated and stored separately; and 		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. 		1



EIA Ref.	EM&A EP Environmental Protection Measures Ref. Condition			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. 		unymore
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	1
			 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	1
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	1
			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



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures	Mitigation Measures
				Timing of completion of measures	Implemented?^
			 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. 	_	l *(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	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 and 12.7.2.6	9.1	2.30	Timing the Pipe Connection Works outside Ardeid's Breeding Season All HDD and related construction works on Sheung Sha Chau Island will be scheduled outside the ardeids' breeding season (between April and July). No night-time construction work will be allowed on Sheung Sha Chau Island during all seasons.	During construction phase at Sheung Sha Chau Island	C – Completed in Jan 2019
12.10.1.1 9.3 -		-	Ecological Monitoring During the HDD construction works period from August to March, ecological monitoring will be undertaken monthly at the HDD daylighting location on Sheung Sha Chau Island to identify and evaluate any impacts with appropriate actions taken as required to address and minimise any adverse impact found.	at Sheung Sha Chau Island	C – Completed in Jan 2019
			Marine Ecological Impact – Pre-construction Phase		
13.11.4.1	10.2.2	-	■ Pre-construction phase Coral Dive Survey.	HKIAAA artificial seawall	C – Completed in Jan 2016
			Marine Ecological Impact – Construction Phase		
13.11.1.3 to 13.11.1.6	-	-	Minimisation of Land Formation Area • Minimise the overall size of the land formation needed for the additional facilities to minimise the overall loss of habitat for marine resources, especially the CWD population.	Land formation footprint / during detailed design phase to completion of construction	I



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^			
13.11.1.7 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; 	_	1			
			 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	-	1			
			 Use of horizontal directional drilling (HDD) method and water jetting methods for placement of submarine cables and pipelines to minimise the disturbance to the CWDs and other marine ecological resources. 	-	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	I			
						 Alternative construction methods including use of non-dredge methods for ground improvement (e.g. Deep Cement Mixing (DCM), prefabricated vertical drains (PVD), sand compaction piles, steel cells, stone columns and vertical sand drains); 		I
				 Use of bored piling in short duration to form the new approach lights and marker beacons for the new runway; and 		C – Completed in Oct 2021 for new approach lights		
			 Use of horizontal directional drilling (HDD) method and water jetting methods for placement of undersea cables and pipelines to minimise the disturbance to the CWDs and other marine ecological resources. 	-	C – Completed in Jan 2019 for HDD works			
13.11.1.12	-	-	Strict Enforcement of No-Dumping Policy	All works area during the construction phase	I			



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures	Mitigation Measures
				Timing of completion of measures	Implemented?^
			 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	·		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	10.3.1	_	SkyPier High Speed Ferries' Speed Restrictions and Route Diversions	Area between the	I
to 13.11.5.13			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	footprint and SCLKC Marine Park during construction phase	
			■ 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	Area between the footprint and SCLKC Marine Park during	1
			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.	construction phase	C – Completed ii Sep 2016
13.11.5.14 to 13.11.5.18	10.3.1	2.31	 Dolphin Exclusion Zone Establishment of a 24 hr Dolphin Exclusion Zone (DEZ) with a 250 m radius around the land formation works areas; 	Marine waters around land formation works area during construction phase	I



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures	Mitigation Measures
				Timing of completion of 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 		1
			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	1
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	1
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	1
			 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);	-	I



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
			 Use of bored piling in short duration to form the new approach lights and marker beacons for the new runway; 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.	I
Table 15.6	12.3	-	CM3 - Phasing of the construction stage to reduce visual impacts during the construction phase.	All works areas for duration of works; Upon handover and completion of works.	I
Table 15.6	12.3	-	CM4 - Construction traffic (land and sea) including construction plants, construction vessels and barges should be kept to a practical minimum.	All works areas for duration of works; Upon handover and completion of works.	I
Table 15.6	12.3	-	CM5 - Erection of decorative mesh screens or construction hoardings around works areas in visually unobtrusive colours.	All works areas for duration of works; Upon handover and completion of works. — may be disassembled in phases.	I



EIA Ref.	EM&A Ref.	EP Condition	Environmental Protection Measures	Location / Duration of measures Timing of completion of measures	Mitigation Measures Implemented?^
Table 15.6	12.3	-	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	I
				completion of works.	
Table 15.6	12.3	-	CM7 - Control of night-time lighting by hooding all lights and through minimisation of night working periods.	All works areas for duration of works;	I
				Upon handover and completion of works. – may be disassembled in phases.	
Table 15.6	12.3	-	CM8 - All existing trees shall be carefully protected during construction. Detailed Tree Protection Specification shall be provided in the Contract Specification. Under this specification, the Contractor shall	All existing trees to be retained;	1
			$\dots \dots $	Upon handover and completion of works.	
Table 15.6	12.3	3 -	CM9 - Trees unavoidably affected by the works shall be transplanted where practical. A detailed Tree Transplanting Specification shall be provided in the Contract Specification, if applicable. Sufficient time for	All existing trees to be affected by the works;	I
			necessary tree root and crown preparation periods shall be allowed in the project programme.	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	To be implemented
				runways and verges/Duration of works;	*(The advanced hydroseeding works around taxiways and
				Upon handover and completion of works.	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:

[&]quot;-" 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.

[&]quot;I" Implemented and on-going where applicable.

[&]quot; 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

Mar-23

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1	2	3	4
				Site Inspection	Site Inspection	
			CWD Survey (Vessel)	CWD Survey (Vessel)	CWD Survey (Vessel)	
			, , , , , , , , , , , , , , , , , , , ,	3, (,	CWD Survey (Land-based)	
					AR1A, AR2	
				NM4, NM6	NM1A, NM5	
				WQ General & Regular DCM mid-ebb: 22:40		WQ General & Regular DCM mid-ebb: 12:07
				mid-ebb: 22:40 mid-flood: 10:16		mid-ebb: 12:07 mid-flood: 6:56
5	6	7	8	9	10	11
3	Site Inspection	Site Inspection		Site Inspection	Site Inspection	• •
	· ·	· ·		· ·	· ·	
	CWD Survey (Vessel)	CWD Survey (Vessel)		CWD Survey (Vessel)	CWD Survey (Vessel)	
				AR1A, AR2		
				NM1A, NM5	NM4, NM6	
				111171, 11110	11111, 11110	
		WQ General & Regular DCM		WQ General & Regular DCM		WQ General & Regular DCM
		mid-ebb: 13:20	0	mid-ebb: 14:13		mid-ebb: 15:17
		mid-flood: 7:5		mid-flood: 8:28	-	mid-flood: 9:09
12	13	14	15	16	17	18
	Site Inspection	Site Inspection		Site Inspection	Site Inspection	
	CWD Survey (Vessel)		CWD Survey (Land-based)			
			AR1A, AR2			
			NM1A, NM5		NM4, NM6	
		WQ General & Regular DCM		WQ General & Regular DCM		WQ General & Regular DCM
		mid-ebb: 17:3	8	mid-ebb: 20:26		mid-ebb: 11:14
		mid-flood: 10:20		mid-flood: 7:33		mid-flood: 15:53
19	20	21	22	23	24	25
	Site Inspection	Site Inspection		Site Inspection	Site Inspection	
	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1	, , , , , , , , , , , , , , , , , , , ,		, , , , , ,		
		AR1A, AR2				
		NM1A, NM5			NM4, NM6	
		WQ General & Regular DCM		WQ General & Regular DCM		WQ General & Regular DCM
		mid-ebb: 13:13	3	mid-ebb: 14:19		mid-ebb: 15:29
		mid-flood: 7:20		mid-flood: 8:17		mid-flood: 8:59
26	27	28	29	30	31	
	Site Inspection	Site Inspection		Site Inspection	Site Inspection	
	AR1A, AR2 NM1A, NM5				NM4. NM6	
	INIVITA, INIVID				NIVIA, NIVIO	
		WQ General & Regular DCM		WQ General & Regular DCM		
		mid-ebb: 17:4		mid-ebb: 20:26		
		mid-flood: 9:5-	4	mid-flood: 7:45		
		Notes:				
		CWD - Chinese White Dolphin	NM1A/AR1A - Man Tung Road Park			
			NM1-AVARTA - Man Tung Road Park NM4 - Ching Chung Hau Po Woon Prima	ary School		
		Air quality and Noise Monitoring Station	NM5/AR2 - Village House, Tin Sum	.,		
			NM6 - House No. 1, Sha Lo Wan			
		WQ - Water Quality				

Tentative Monitoring Schedule of Next Reporting Period

April-23

			7 (0111 20			
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1
						AR1A, AR2
						WQ General & Regular DCM
						mid-ebb: 11:24
						mid-flood: 15:58
2	3	4	5	6	7	8
	3405, 3408, 3802	3307, 3508, 3733, 3804, 3801, 3901AB		3302, 3305, 3310, 3403, 3601		
		,,,,,,		3602, 3603, 3908, 3913		
				3002, 3003, 3906, 3913		
				AR1A, AR2		
				NM1A, NM4, NM5, NM6		
		WQ General & Regular DCM		WQ General & Regular DCM		WQ General & Regular DCM
		mid-ebb: 12:		mid-ebb: 1	3:18	mid-ebb: 14:20
		mid-flood: 6:			7:18	mid-flood: 8:01
9	10	11	12	13	14	15
		3307, 3508, 3801, 3901AB	3405, 3408, 3802	3302, 3305, 3310, 3403, 3601	3733, 3804	
		3301, 3300, 3001, 3301AB	3403, 3400, 3002		3730, 3004	
				3602, 3603, 3728, 3908, 3913		
		CWD Survey (Vessel)	CWD Survey (Vessel)	CWD Survey (Vessel)	CWD Survey (Vessel)	
			AR1A, AR2		NM4, NM6	
			NM1A, NM5			
		WQ General & Regular DCM		WQ General & Regular DCM		WQ General & Regular DCM
		mid-ebb: 16:			8:34	mid-ebb: 10:05
		mid-flood: 9:			5:52	mid-flood: 14:33
16	17	18	19	20	21	22
	3405, 3408, 3802	3307, 3508, 3801, 3901AB		3302, 3305, 3310, 3403, 3601	3733, 3804	
	0100, 0100, 0002	0001, 0000, 0001, 0001AB		3602, 3603, 3908, 3913	5,55,555	
		CMD Survey () (see a)	CMD Common (Manual)		CMID Survey (Manage)	
		CWD Survey (Vessel)	CWD Survey (Vessel)	CWD Survey (Vessel)	CWD Survey (Vessel)	
		ADAA ADA		NAME AND DESCRIPTION OF THE PERSON OF THE PE		
		AR1A, AR2		NM4, NM6		
		NM1A, NM5				
		WQ General & Regular DCM		WQ General & Regular DCM		WQ General & Regular DCM
		mid-ebb: 12:	12	mid-ebb: 1	3:17	mid-ebb: 14:26
		mid-flood: 6:			7:01	mid-flood: 7:47
23	24	25	26	27	28	29
	3405, 3408, 3802	3307, 3508, 3801, 3901AB		3302, 3305, 3310, 3403, 3601	3733, 3804	
				3602, 3603, 3908, 3913	· ·	
	CWD Survey (Land-based)	CWD Survey (Land-based)		0002, 0000, 0000, 0010		
	One carry (care basse)	orro curroy (curro bused)				
	AR1A, AR2			NM4, NM6		AR1A, AR2
	NM1A, NM5			THINT, THIO		ANTO, AND
	INIVITA, INIVIO	WQ General & Regular DCM		WQ General & Regular DCM		WQ General & Regular DCM
					0.00	
		mid-ebb: 16: mid-flood: 8:			8:06	
20			00	mid-iiood:	5:32	mid-flood: 8:17
30		Notes:				
		Contract Number - Site Inspection				
		CWD - Chinese White Dolphin				
			NM1A/AR1A - Man Tung Road Park			
		Air quality and Naisa Manitaring Station	NM4 - Ching Chung Hau Po Woon Primary School			
		Air quality and Noise Monitoring Station	NM5/AR2 - Village House, Tin Sum			
			NM6 - House No. 1, Sha Lo Wan			
		WQ - Water Quality				

Appendix C. Monitoring Results

Mott MacDonald Expansion of Hong Kong International Airport into a Three-Runway System Construction Phase Monthly EM&A Report No. 87 (For March 2023)

Air Quality Monitoring Results

1-hour TSP Results

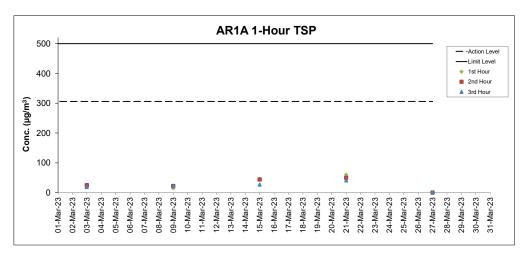
Station: AR1A- Man Tung Road Park

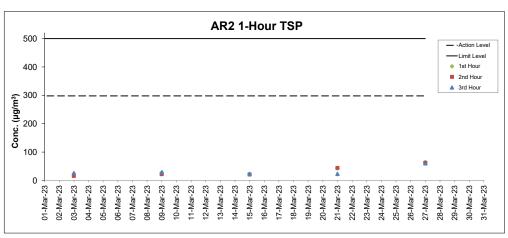
Date	Time	Weather	Wind Speed (m/s)	Wind Direction (deg)	1-hr TSP (μg/m³)	Action Level (μg/m³)	Limit Level (μ g/m³)
3-Mar-23	8:14	Sunny	6.9	87	19	306	500
3-Mar-23	9:14	Sunny	8.3	95	13	306	500
3-Mar-23	10:14	Sunny	8.1	82	18	306	500
9-Mar-23	8:12	Sunny	0.8	Variable	20	306	500
9-Mar-23	9:12	Sunny	1.4	Variable	25	306	500
9-Mar-23	10:12	Sunny	2.5	250	19	306	500
15-Mar-23	8:17	Sunny	5.3	72	15	306	500
15-Mar-23	9:17	Sunny	5.0	61	22	306	500
15-Mar-23	10:17	Sunny	5.3	48	23	306	500
21-Mar-23	9:44	Cloudy	4.7	189	45	306	500
21-Mar-23	10:44	Cloudy	4.4	196	44	306	500
21-Mar-23	11:44	Cloudy	5.0	185	27	306	500
27-Mar-23	10:07	Cloudy	8.3	76	60	306	500
27-Mar-23	11:07	Cloudy	5.3	80	50	306	500
27-Mar-23	12:07	Cloudy	4.7	67	41	306	500

1-hour TSP Results

Station: AR2- Village House Tin Sum

Station: ARZ- VIII	age House, 1	ın əum					
Date	Time	Weather	Wind Speed (m/s)	Wind Direction (deg)	1-hr TSP (μg/m³)	Action Level (μg/m³)	Limit Level (µ g/m³)
3-Mar-23	12:49	Sunny	3.3	89	23	298	500
3-Mar-23	13:49	Sunny	5.8	251	16	298	500
3-Mar-23	14:49	Sunny	4.4	259	26	298	500
9-Mar-23	12:39	Sunny	3.6	254	28	298	500
9-Mar-23	13:39	Sunny	3.3	257	22	298	500
9-Mar-23	14:39	Sunny	3.1	259	29	298	500
15-Mar-23	12:34	Sunny	4.2	266	23	298	500
15-Mar-23	13:34	Sunny	4.2	253	21	298	500
15-Mar-23	14:34	Sunny	5.0	268	23	298	500
21-Mar-23	13:51	Cloudy	4.2	190	42	298	500
21-Mar-23	14:51	Cloudy	5.6	158	44	298	500
21-Mar-23	15:51	Cloudy	4.4	159	23	298	500
27-Mar-23	13:54	Cloudy	2.5	38	65	298	500
27-Mar-23	14:54	Cloudy	3.3	44	62	298	500
27-Mar-23	15:54	Cloudy	2.8	53	60	298	500





- 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

	Wasthan		Measured	Measured	Τ Δ				
Date	Weather	Time	$\mathbf{L}_{\scriptscriptstyle{10}} dB(A)$	\mathbf{L}_{90} dB(A)	L _{req(30mins)} dB(A) ↑				
3-Mar-23	Sunny	8:14	63.0	58.8					
3-Mar-23	Sunny	8:19	63.5	59.6					
3-Mar-23	Sunny	8:24	62.9	58.9	64				
3-Mar-23	Sunny	8:29	62.4	58.3	04				
3-Mar-23	Sunny	8:34	62.8	59.0					
3-Mar-23	Sunny	8:39	62.7	59.1					
9-Mar-23	Sunny	8:11	62.7	58.3					
9-Mar-23	Sunny	8:16	62.5	58.8					
9-Mar-23	Sunny	8:21	62.9	58.2	65				
9-Mar-23	Sunny	8:26	62.6	59.0					
9-Mar-23	Sunny	8:31	64.2	58.5					
9-Mar-23	Sunny	8:36	62.8	58.5					
15-Mar-23	Sunny	8:14	65.1	59.4					
15-Mar-23	Sunny	8:19	63.0	59.2					
15-Mar-23	Sunny	8:24	63.1	59.1	65				
15-Mar-23	Sunny	8:29	62.7	58.6					
15-Mar-23	Sunny	8:34	63.2	59.2					
15-Mar-23	Sunny	8:39	63.4	59.7					
21-Mar-23	Cloudy	11:05	56.6	51.0					
21-Mar-23	Cloudy	11:10	56.1	51.4					
21-Mar-23	Cloudy	11:15	55.9	51.8	57				
21-Mar-23	Cloudy	11:20	56.3	51.3] 3/				
21-Mar-23	Cloudy	11:25	55.3	51.4					
21-Mar-23	Cloudy	11:30	55.7	51.9					
27-Mar-23	Cloudy	11:41	62.8	52.5					
27-Mar-23	Cloudy	11:46	56.7	51.7]				
27-Mar-23	Cloudy	11:51	59.0	52.3	60				
27-Mar-23	Cloudy	11:56	60.8	52.2					
27-Mar-23	Cloudy	12:01	59.8	51.8					
27-Mar-23	Cloudy	12:06	60.8	52.0					

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

			Measured	Measured	Ţ,				
Date	Weather	Time	$\mathbf{L}_{_{10}} dB(A)$	L ₉₀ dB(A)	$\mathbf{L}_{\sf eq(30mins)}$ dB(A) $^{\wedge}$				
2-Mar-23	Sunny	13:34	62.9	57.8					
2-Mar-23	Sunny	13:39	63.0	57.3					
2-Mar-23	Sunny	13:44	60.3	56.5	63				
2-Mar-23	Sunny	13:49	60.1	56.7] 03				
2-Mar-23	Sunny	13:54	61.4	57.4					
2-Mar-23	Sunny	13:59	59.8	56.7					
10-Mar-23	Sunny	11:06	62.1	58.1					
10-Mar-23	Sunny	11:11	61.9	58.2					
10-Mar-23	Sunny	11:16	62.1	58.3	64				
10-Mar-23	Sunny	11:21	64.4	57.9] 04				
10-Mar-23	Sunny	11:26	62.7	58.1					
10-Mar-23	Sunny	11:31	61.6	57.4					
17-Mar-23	Sunny	11:02	64.1	59.9					
17-Mar-23	Sunny	11:07	65.3	60.5					
17-Mar-23	Sunny	11:12	65.1	60.6	66				
17-Mar-23	Sunny	11:17	65.2	60.6					
17-Mar-23	Sunny	11:22	63.5	59.5					
17-Mar-23	Sunny	11:27	63.1	59.7					
24-Mar-23	Cloudy	11:14	62.3	57.3					
24-Mar-23	Cloudy	11:19	61.6	57.8					
24-Mar-23	Cloudy	11:24	62.7	58.1	63				
24-Mar-23	Cloudy	11:29	61.7	57.6					
24-Mar-23	Cloudy	11:34	60.4	57.2					
24-Mar-23	Cloudy	11:39	61.6	57.2					
31-Mar-23	Cloudy	11:10	66.8	59.9					
31-Mar-23	Cloudy	11:15	63.2	59.4					
31-Mar-23	Cloudy	11:20	64.0	59.6	64*				
31-Mar-23	Cloudy	11:25	62.2	59.4	J 04**				
31-Mar-23	Cloudy	11:30	62.2	59.5					
31-Mar-23	Cloudy	11:35	64.5	54.2					

(^) +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.

Noise Measurement Results

Station: NM5- Village House, Tin Sum

Date	Weather	Time	Measured	Measured	T 40(C) A				
Date	weamer	11me	$\mathbf{L}_{\scriptscriptstyle{10}}{\sf dB}({\sf A})$	$\mathbf{L}_{90}dB(A)$	$\mathbf{L}_{\sf eq(30mins)}\sf dB(A)$ ^				
3-Mar-23	Sunny	14:44	62.6	58.5					
3-Mar-23	Sunny	14:49	63.2	59.4					
3-Mar-23	Sunny	14:54	63.0	59.6	64*				
3-Mar-23	Sunny	14:59	64.8	60.1	04"				
3-Mar-23	Sunny	15:04	62.8	58.7					
3-Mar-23	Sunny	15:09	63.2	58.7					
9-Mar-23	Sunny	11:33	52.5	45.9					
9-Mar-23	Sunny	11:38	67.9	46.2					
9-Mar-23	Sunny	11:43	68.8	47.6	62*				
9-Mar-23	Sunny	11:48	69.7	49.5	02**				
9-Mar-23	Sunny	11:53	50.9	44.9					
9-Mar-23	Sunny	11:58	50.8	45.1					
15-Mar-23	Sunny	12:21	56.3	51.3					
15-Mar-23	Sunny	12:26	57.1	51.8					
15-Mar-23	Sunny	12:31	57.2	50.2	53*				
15-Mar-23	Sunny	12:36	55.2	51.8	33**				
15-Mar-23	Sunny	12:41	57.5	52.8					
15-Mar-23	Sunny	12:46	56.8	52.9					
21-Mar-23	Cloudy	13:51	48.4	44.1					
21-Mar-23	Cloudy	13:56	49.7	43.0					
21-Mar-23	Cloudy	14:01	66.0	45.9	53*				
21-Mar-23	Cloudy	14:06	52.6	46.3	33**				
21-Mar-23	Cloudy	14:11	64.8	46.2					
21-Mar-23	Cloudy	14:16	63.1	46.0					
27-Mar-23	Cloudy	14:01	60.0	49.9					
27-Mar-23	Cloudy	14:06	55.6	52.0					
27-Mar-23	Cloudy	14:11	57.8	49.4	58				
27-Mar-23	Cloudy	14:16	59.5	50.0] 38				
27-Mar-23	Cloudy	14:21	55.0	47.2					
27-Mar-23	Cloudy	14:26	54.6	47.9					

Noise Measurement Results

Station: NM6- House No.1 Sha Lo Wan

Date	Weather	Time	Measured L ₁₀ dB(A)	Measured L ₉₀ dB(A)	L _{eq(30mins)} dB(A) ^
2-Mar-23	Sunny	15:40	65.8	48.1	
2-Mar-23	Sunny	15:45	57.1	46.1	
2-Mar-23	Sunny	15:50	64.6	45.8	67
2-Mar-23	Sunny	15:55	69.4	49.7	07
2-Mar-23	Sunny	16:00	58.8	46.8	
2-Mar-23	Sunny	16:05	68.2	45.9	
10-Mar-23	Sunny	9:48	72.0	52.3	
10-Mar-23	Sunny	9:53	68.6	55.6	
10-Mar-23	Sunny	9:58	69.9	52.1	62*
10-Mar-23	Sunny	10:03	65.4	54.3	02.
10-Mar-23	Sunny	10:08	67.9	51.9	
10-Mar-23	Sunny	10:13	57.5	49.5	
17-Mar-23	Sunny	9:46	68.1	57.8	
17-Mar-23	Sunny	9:51	69.4	58.6	
17-Mar-23	Sunny	9:56	69.0	56.3	67
17-Mar-23	Sunny	10:01	64.6	55.9	07
17-Mar-23	Sunny	10:06	65.6	53.9	
17-Mar-23	Sunny	10:11	66.4	53.6	
24-Mar-23	Cloudy	9:46	66.6	51.1	
24-Mar-23	Cloudy	9:51	66.9	46.0	
24-Mar-23	Cloudy	9:56	61.9	47.1	66
24-Mar-23	Cloudy	10:01	69.4	49.3	66
24-Mar-23	Cloudy	10:06	68.5	52.1	
24-Mar-23	Cloudy	10:11	70.0	59.1	
31-Mar-23	Cloudy	13:31	62.6	57.8	
31-Mar-23	Cloudy	13:36	63.0	59.5	
31-Mar-23	Cloudy	13:41	63.5	58.9	64
31-Mar-23	Cloudy	13:46	63.4	59.7	04
31-Mar-23	Cloudy	13:51	62.6	58.4	
31-Mar-23	Cloudy	13:56	62.9	58.7	

Remarks:

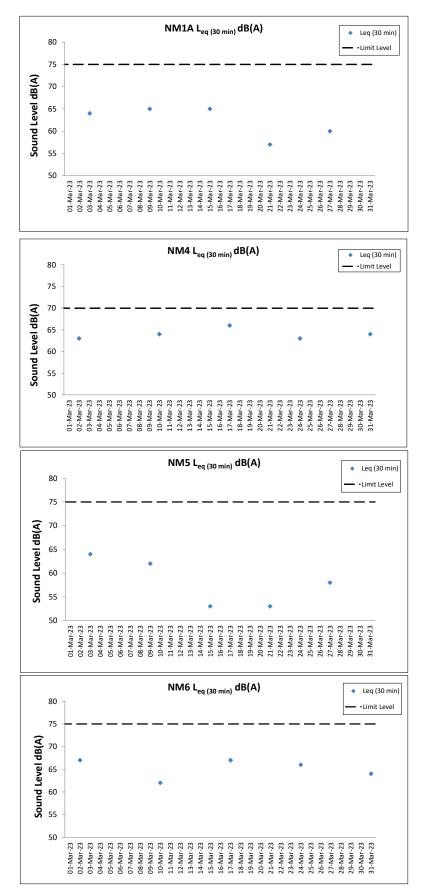
(*) +3dB (A) correction in Leq(30mins) dB(A) was applied to free-field measurement.

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

Remarks:

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

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



Notes

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

Water Quality Monitoring Results	

Mott MacDonald | Expansion of Hong Kong International Airport into a Three-Runway System Construction Phase Monthly EM&A Report No. 87 (For March 2023)

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

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

water Qua	ity wont	orning ittesu	113 011		UZ March 23	auring wia-	LDD HIGH	<u> </u>																						
Monitoring	Weather	Sea	Sampling	Water	Sampling Depti	n (m)	Current Speed	Current	Water Te	emperature (°C)	pН	Salii	nity (ppt)	DO S	Saturation (%)	Disso Oxyg		Turbidity	(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid							
Station	Condition	Condition	Time	Depth (m)	Sampling Depti	1 (111)	(m/s)	Direction	Value	Average	Value Average	Value	Average	Value	Average	Value DA		Value	DA	Value	DA	(Northing)	(Easting)							
					Surface	1.0	0.5	203	18.4	18.4	7.9	31.6	31.6	99.2 99.0	99.1	7.7		3.9		3										
					Surface	1.0	0.4	207	18.3	10.4	7.9	31.7	31.0	99.0	99.1	7.7	7.7	4.0		3										
C1	Cloudy	Moderate	22:11	8.5	Middle	4.3	0.4	223	18.3	18.3	7.9 7.9	32.1	32.1	98.2 98.3	98.3	7.6	1.1	7.2	6.2	3	4	815621	804228							
Ci	Cloudy	Moderate	22.11	6.5	Middle	4.3	0.5	223	18.3	10.3	7.9	32.1	32.1	98.3	90.3	7.6		6.7	0.2	4	4	013021	004220							
					Bottom	7.5	0.4	212	18.3	18.3	7.9 7.9	32.2		98.3	98.5	7.6	7.7	8.0		5										
					Bollom	7.5	0.4	215	18.3	10.5	7.9	32.2	32.2	98.6	90.5	7.7	1.1	7.4		4										
					Surface	1.0	0.5	186	19.2	19.2	7.8	26.8		108.9 108.3	108.6	8.6		1.4	3											
					Surface	1.0	0.5	191	19.1	19.2	7.8	26.9	20.9		100.0	8.6	8.2	1.5		2										
C2	Cloudy	Moderate	20:56	11.6	Middle	5.8	0.4	165	18.6	18.6	7.8	31.2		98.7 98.6	98.7	7.7	0.2	2.2	1.9	3	3	825694	906035							
02	Cioudy	Woderate	20.30	11.0	Middle	5.8	0.5	160	18.6	10.0	7.8	31.2	31.2	98.6	30.7	7.7		2.2	1.9	3	3	023094	806935							
					Bottom	10.6	0.4	177	18.7	18.7	7.8 7.8	31.3	31.3	99.4	99.5	7.7	7.7	2.2		2										
					Bollom	10.6	0.4	169	18.7	10.7	7.8	31.2	31.3	99.6	99.5	7.7	1.1	2.1		3										
								Surface	1.0	0.3	85	18.9	18.9	8.0	31.4	31.4	95.8 95.8	95.8	7.4		1.0		3							
						Surface	1.0	0.3	85	18.9	10.9	8.0	31.4	31.4	95.8	93.0	7.4	7.4	1.1		2									
СЗ	Micty	Calm	22:00	10.6	Middle	5.3	0.3	94	18.9	18.9	8.0	31.5		96.4 96.8	96.6	7.4	7.4	1.1	1.2	3	3	822095	817822							
03	C3 Misty Cal	Callii	22.00		Wilddle	5.3	0.3	94	18.9	10.9	8.0	31.5	31.3	96.8	30.0	7.5		1.1	1.2	2	3	022093	017022							
					Bottom	9.6	0.3	81	18.9	18.9	8.0	31.5		97.8 98.7	98.3	7.5	7.6	1.4		4			1							
					Bollom	9.6	0.3	74	18.9	10.9	8.0	31.5	31.3	98.7	90.3	7.6	7.0	1.5		3										
		Moderate			Surface	1.0	0.3	202	19.1	19.1	7.9 7.9	30.6		102.4	102.5	7.9		4.5		3										
					21:50	21.50	21:50	21:50	21:50	21:50			Odriace	1.0	0.3	206	19.0	10.1	7.9	30.6		102.5	102.0	7.9	7.8	4.7] [2		
IM1	Cloudy		Moderate	Moderate							:50 6.3	Middle	3.2	0.3	206	18.4	18.4	7.9 7.9	31.8		98.7	98.7	7.7	7.0	3.6	4.3	4.3 3 3	3	818341	806440
IIVII	Oloudy	Woderate	21.50	0.5	Wildale	3.2	0.3	211	18.4	10.4	7.9	31.9	51.5	98.7	30.7	7.7		3.7	4.5	4	3	010541	000440							
					Bottom	5.3	0.3	196	18.4	18.4	7.9 7.9	32.0		99.1	99.2	7.7	7.7	4.6		3										
					Dottom	5.3	0.3	189	18.4	10.4	7.9	32.0	32.0	99.2	33.2	7.7	1.1	4.7		4										
					Surface	1.0	0.3	197	19.1	19.1	7.9	30.7		100.9	100.9	7.8		2.8		2										
					Cartace	1.0	0.3	195	19.1	10.1	7.9	30.7	00.7	100.9	100.0	7.8	7.8	3.0		3										
IM2	Cloudy	Moderate	21:46	7.2	Middle	3.6	0.3	184	18.3	18.3	7.9	32.1	32.1	98.9 98.9	98.9	7.7	7.0	5.2	4.6	4	4	819163	806241							
11412	Cioday	Woderate	21.40	7.2	Wilddie	3.6	0.3	188	18.3	10.0	7.9	32.1	02.1		50.5	7.7		5.2	4.0	4	-	010100	000241							
					Bottom	6.2	0.3	183	18.3	18.3	7.9	31.9		99.2 99.2	99.2	7.7	7.7	5.6		4										
					Bottom	6.2	0.3	184	18.3	10.0	7.9	31.9			00.2	7.7		5.6		5										
					Surface	1.0	0.2	170	18.8	18.8	7.9	30.7		99.5 99.4	99.5	7.7		2.8		3										
					Ouridoo	1.0	0.2	175	18.8	10.0	7.9	30.9			00.0	7.7	7.7	2.9]	3										
IM7	Cloudy	Moderate	erate 21:26	:26 8.0	Middle	4.0	0.2	181	18.7	7	7.9	31.3		99.8	99.9	7.7		3.1	5.1	3	3	821367	806843							
11417	Oloudy	Moderate		0.0		4.0	0.1	187	18.7		7.9	31.3	31.3		00.0	7.7		3.1	5.1	4	J	821367	0000-10							
							Rottom 7.0	0.2	178	18.8	18.8	7.9	31.3		101.4	101.5	7.9	7.9	9.6]	3									
					Dottom	7.0	0.2	173	18.8	10.0	7.9	31.3	51.5	101.6	101.5	7.9	1.0	9.4		4		<u> </u>								
DA · Donth Avor									_																					

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 March 23 during Mid-Ebb Tide

Monitoring	Weather	Sea	Sampling	Water	Sampling Dept	h (m)	Current Speed	Current	Water Te	emperature (°C)	ı	рΗ	Salin	nity (ppt)	DO S	aturation (%)	Dissol Oxyg		Turbidity	(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Depi	(111)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.4	104	19.2	10.2	8.0	9.0	30.1	20.1	98.4	98.2	7.6		1.0		4			
					Surface	1.0	0.4	109	19.2	19.2	8.0	8.0	30.2	30.1	98.0	90.2	7.6	7.6	1.1	1	4			
IM10	Misty	Calm	20:59	8.6	Middle	4.3	0.4	117	19.2	19.2	8.0	8.0	30.1	30.0	96.8	96.7	7.5	7.0	1.8	1.6	4	4	822243	809814
IIVITO	iviisty	Callii	20.59	0.0	Middle	4.3	0.4	112	19.2	19.2	8.0	0.0	30.0	30.0	96.5	90.7	7.5		1.7	1.0	4	4	022243	009014
					Bottom	7.6	0.4	131	19.3	19.4	8.0	8.0	29.6	29.6	96.7	97.0	7.5	7.5	2.1		3			
					Bottom	7.6	0.4	133	19.4	13.4	8.0	0.0	29.5	23.0	97.3	37.0	7.5	7.5	2.1		3			
					Surface	1.0	0.5	99	19.3	19.3	8.0	8.0	29.5	29.6	101.2	101.2	7.8		1.0		3			
					Gundoc	1.0	0.5	106	19.3	10.0	8.0	0.0	29.6	20.0	101.1	101.2	7.8	7.8	1.1		2			
IM11	Misty	Calm	21:07	8.2	Middle	4.1	0.5	101	19.4	19.4	8.0	8.0	30.1	30.1	101.3	101.4	7.8		1.3	1.2	3	3	821510	810535
	····oty	ou	21.01	0.2	.v.idalo	4.1	0.5	99	19.4		8.0	0.0	30.1	00	101.5		7.8		1.2		3	Ü	02.0.0	0.0000
					Bottom	7.2	0.4	76	19.5	19.5	8.0	7.9	30.0	30.0	102.2	102.3	7.9	7.9	1.5		3			
					Bottom	7.2	0.4	72	19.5	10.0	7.9	7.0	29.9	00.0	102.4	102.0	7.9	7.0	1.4		3			
					Surface	1.0	0.6	114	19.1	19.1	8.0	8.0	30.5	30.5	98.4	98.3	7.6		2.5	1	4			
						1.0	0.6	111	19.1		8.0		30.5		98.2		7.6	7.6	2.5		3			
IM12	Misty	Calm	21:12	9.6	Middle	4.8	0.5	81	19.1	19.1	8.0	8.0	30.6	30.6	97.6	97.5	7.5		3.4	3.3	3	3	821184	811534
						4.8	0.4	77	19.1		8.0		30.6		97.4		7.5		3.3		3	-		
					Bottom	8.6	0.5	92	19.5	19.5	8.0	7.9	30.3	30.3	100.9	101.0	7.7	7.8	4.2	_	2			
					=	8.6	0.5	94	19.5		7.9		30.3		101.1		7.8		4.1		3			
					Surface	1.0	0.0	84	19.2	19.2	8.0	8.0	29.6	29.6	98.3	98.2	7.6		1.1		5			
						1.0	0.0	83	19.2		8.0		29.6		98.1		7.6	7.6	1.2	1	4			
SR1A	Misty	Calm	21:25	5.6	Middle	2.8	0.0	76	-	-	-	_	-	-	-	_	-		-	1.4	-	4	819978	812657
						2.8	0.0	79	-		-		-		-		-		-	1	-	-		
					Bottom	4.6	0.0	110	19.1	19.1	8.0	8.0	29.9	29.9	97.6	97.6	7.6	7.6	1.6	1	4			
						4.6	0.0	111	19.1		8.0		29.9		97.5		7.6		1.7		3			
					Surface	1.0	0.4	59	19.3	19.3	8.0	8.0	30.0	30.0	102.8	102.8	7.9		1.7	_	2			
						1.0	0.4	54	19.3		8.0		30.1		102.8		7.9	7.9	1.6	_	2			
SR2	Misty	Calm	21:42	4.6	Middle	-	0.4	30	-	-	-	-	-	-	-	-	-		-	2.0	-	2	821468	814183
	,					-	0.5	23	-		-		-		-		-		-	1	-			
					Bottom	3.6	0.5	65	19.3	19.3	7.9	7.9	30.2	30.2	103.0	103.1	8.0	8.0	2.3	4	3			
						3.6	0.5	69	19.2		7.9		30.2		103.1		8.0		2.3		2			
					Surface	1.0	0.5	169	19.0	19.0	7.9	7.8	28.4	28.4	106.5	105.7	8.4		1.8	4	2			
						1.0	0.5	176	18.9		7.8		28.5		104.8		8.2	8.1	1.8	-	2			
SR3	Cloudy	Moderate	21:19	8.2	Middle	4.1	0.5	176	18.8	18.8	7.8	7.8	30.6	30.6	101.2 101.5	101.4	7.9 7.9		1.8 1.8	1.8	2	2	822164	807578
						7.2	0.5	168 153	18.8 19.0										1.8	-	3			
					Bottom	7.2	0.4	151	19.0	19.0	7.8	7.8	30.5	30.5	103.0	103.1	8.0	8.0	1.8	-	3			
						1.0	0.4												4.7		4		l I	l I
				ĺ	Surface	1.0	0.1	22 27	19.1 19.0	19.1	7.9	7.9	31.2	31.2	98.4 98.3	98.4	7.6 7.6		4.7	1	3			
						4.6	0.0	24	19.0		7.9		31.2		98.1		7.6	7.6	5.3	1	4			
SR4A	Cloudy	Moderate	22:39	9.2	Middle	4.6	0.0	25	19.0	19.0	7.9	7.9	31.2	31.2	98.2	98.2	7.6		5.3	6.6	3	3	817179	807802
						8.2	0.0	27	18.9		7.9		31.2		99.3		7.7		10.0	1	2			
				ĺ	Bottom	8.2	0.0	20	19.0	19.0	7.9	7.9	31.2	31.2	99.4	99.4	7.7	7.7	10.0	1	2			
					_	1.0	-	-	19.7		8.0		29.6		99.9		7.7		2.1	1	2			
				ĺ	Surface	1.0	_	-	19.7	19.7	8.0	8.0	29.7	29.6	99.7	99.8	7.6		2.1	1	2			
			1	_		-	_	-	-		-		-		-		-	7.7	-	1 _	-			
SR8	Misty	Calm	21:16	5.0	Middle	-	<u> </u>	-	-	-	_	-		-	_	-				2.5	-	2	820376	811624
					5	4.0	-	-	19.7	40.0	7.9		30.2		99.3		7.6		3.0	1	2			
				ĺ	Bottom	4.0	-	-	19.8	19.8	7.9	7.9	30.1	30.2	99.8	99.6	7.6	7.6	2.9	1	2			
						7.0	1		10.0		7.0		00.1		00.0		7.0		2.0		_			

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

water Quar	ity Moint	orning ixesa	113 011		UZ March 23	during wild-		uc																
Monitoring	Weather	Sea	Sampling	Water	Sampling Depti	h (m)	Current Speed	Current	Water Te	emperature (°C)	ı	рН	Salin	ity (ppt)		aturation (%)	Disso Oxy		Turbidity	(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Depti	11 (111)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Curfoss	1.0	0.0	60	18.5	18.5	7.8	7.0	31.0	31.1	99.7	99.7	7.8		3.7		4			
					Surface	1.0	0.1	61	18.5	18.5	7.8	7.8	31.2	31.1	99.6	99.7	7.8	7.8	3.9	1	5			
04	Claudi	Madazata	00.40	0.0	NA: al all a	4.3	-	43	18.2	18.2	7.8	7.0	32.2	32.2	98.6	98.6	7.7	7.8	10.0	1	3	2	045000	004004
C1	Cloudy	Moderate	09:40	8.6	Middle	4.3	0.0	46	18.2	18.2	7.8	7.8	32.3	32.2	98.6	98.6	7.7		10.0	8.6	3	3	815609	804231
					D-H	7.6	0.1	28	18.1	40.4	7.8	7.0	32.4	32.4	98.6	98.6	7.7	7.7	12.1	1	2			
					Bottom	7.6	0.1	28	18.1	18.1	7.8	7.8	32.4	32.4	98.6 98.6	98.6	7.7	7.7	12.1	1	2			
					Surface	1.0	0.0	314	19.3	19.3	7.9	7.9	26.7	26.7	109.8	109.7	8.6		1.1		3			
					Surface	1.0	0.0	309	19.3	19.3	7.9	7.9	26.8	20.7	109.8 109.5	109.7	8.6	8.1	1.1	Ī	3			
C2	Cloudy	Moderate	11:01	11.2	Middle	5.6	0.0	325	18.6	18.6	7.9	7.9	31.2	31.2	98.0	98.0	7.6	0.1	2.6	2.1	4	4	825666	806957
02	Cioudy	Woderate	11.01	11.2	ivildale	5.6	0.0	319	18.6	10.0	7.9	7.9	31.2	31.2	97.9	90.0	7.6		2.6	2.1	3	4	023000	800937
					Bottom	10.2	0.1	334	18.6	18.6	7.9	7.9	31.3	31.3	98.0 98.3	98.2	7.6	7.6	2.8		4			
					Bottom	10.2	0.0	335	18.6	10.0	7.9	7.5	31.3	31.3		30.2	7.6	7.0	2.7		4			
					Surface	1.0	0.1	89	18.9	18.9	8.0	8.0	31.4	31.4	93.8	93.8	7.2		3.1		4			
					Curiade	1.0	0.1	93	18.9	10.0	8.0	0.0	31.4	01.4	93.7	50.0	7.2	7.2	3.0		5			
C3	Misty	Calm	10:25	11.4	Middle	5.7	0.1	108	18.9	18.9	8.0	8.0	31.5	31.5	92.3	92.3	7.1	7.2	4.2	4.1	4	4	822105	817779
00	····oty	Cann	10.20		·····adio	5.7	0.1	102	18.8	10.0	8.0	0.0	31.5	01.0	92.2	02.0	7.1		4.1		3		022.00	00
					Bottom	10.4	0.1	101	18.8	18.8	8.0	8.0	31.5	31.5	92.5 92.7	92.6	7.1	7.2	5.0		3			
						10.4	0.1	99	18.8				31.5				7.2		5.1		3			
					Surface	1.0	0.0	61	18.6	18.6	7.9	7.9	31.3	31.4	100.2	100.2	7.8		4.8		2			
						1.0	0.1	63	18.6		7.9		31.4				7.8	7.8	5.0		2			
IM1	Cloudy	Moderate	10:04	6.6	Middle	3.3	0.1	93	18.4	18.4	7.9	7.9	32.0	32.0	100.2	100.2	7.8		6.9	7.4	3	3	818372	806469
	-					3.3	0.1	86	18.4		7.9		32.0				7.8		7.1		3			
					Bottom	5.6 5.6	0.0	59 66	18.4 18.4	18.4	7.9 7.9	7.9	32.0 32.0	32.0	101.3	101.3	7.9 7.9	7.9	10.5 10.1	-	5 4			
				l I		1.0	0.0	79									7.9		1.8		4			
					Surface	1.0	0.0	75	18.9 18.9	18.9	7.9	7.9	30.3	30.4	101.2	101.1	7.8		2.0		3			
						3.5	0.0	93	18.4		7.9		32.0				7.7	7.8	5.7		4			
IM2	Cloudy	Moderate	10:09	7.0	Middle	3.5	0.0	93	18.4	18.4	7.9	7.9	32.0	32.0	99.5 99.5	99.5	7.7		5.7	5.7	3	3	819197	806222
						6.0	0.0	63	18.4		7.9		32.0		100.9		7.8		9.8	-	3			
					Bottom	6.0	0.0	64	18.4	18.4	7.9	7.9	32.0	32.0	101.1	101.0	7.8	7.8	9.3	1	2			
						1.0	0.0	89	18.9		7.9		29.3				8.1		2.7		4			
					Surface	1.0	0.1	87	18.9	18.9	7.9	7.9	29.3	29.3	104.3 103.8	104.1	8.1		2.7	1	4			
18.47	Olevert	Madaat	40.04	0.4	NAC-J-II-	4.2	0.0	73	18.7	40.7	7.9	7.0	31.3	04.0		00.0	7.7	7.9	3.5	1	4		004000	00004=
IM7	Cloudy	Moderate	10:31	8.4	Middle	4.2	0.0	68	18.7	18.7	7.9	7.9	31.3	31.3	99.2 99.2	99.2	7.7		3.6	3.3	3	4	821360	806847
					Dettere	7.4	0.0	64	18.8	18.8	7.9	7.0	31.2	24.0	100.6	100.7	7.8	7.0	3.7	1	4			
					Bottom	7.4	0.0	58	18.8	18.8	7.9	7.9	31.2	31.2	100.7	100.7	7.8	7.8	3.7	1	3			
A: Donth Avor				•	•	•																		

DA: Depth-Averaged

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

Water Quar	,	<u> </u>			UZ Mai Cii 23	during wild																		
Monitoring	Weather	Sea	Sampling	Water	Onwell 5	h ()	Current Speed	Current	Water Te	emperature (°C)	р	Н	Salin	ity (ppt)		aturation (%)	Disso Oxyg		Turbidity	(NTU)	Suspende (mg/		Coordinate	Coordinate
Station	Condition	Condition	Time	Depth (m)	Sampling Dep	in (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	HK Grid (Northing)	HK Grid (Easting)
				İ	0(1.0	0.0	310	19.4	40.4	8.0	0.0	29.4	00.4	102.0	400.0	7.9		1.0		2			
					Surface	1.0	0.0	306	19.4	19.4	8.0	8.0	29.4	29.4	102.3	102.2	7.9	7.0	1.1		2			
IMAG	Minter	Colon	44.04	0.0	Middle	4.0	0.0	309	19.5	10.5	8.0	0.0	29.4	20.4	102.6	400.7	7.9	7.9	1.4	1,5	2	2	000000	000000
IM10	Misty	Calm	11:24	8.0	Middle	4.0	-	315	19.4	19.5	8.0	8.0	29.4	29.4	102.7	102.7	7.9		1.5	1.5	2	2	822228	809832
					Bottom	7.0	0.0	299	19.4	19.4	8.0	8.0	29.4	29.4	102.8	102.9	7.9	8.0	2.0		2			
					Dollom	7.0	0.0	302	19.4	19.4	8.0	0.0	29.3	23.4	102.9	102.9	8.0	0.0	1.9		2			
					Surface	1.0	0.0	307	19.2	19.2	8.0	8.0	30.1	30.2	99.6	99.5	7.7		1.0		2			
					Cundoo	1.0	0.0	300	19.2	.0.2	8.0	0.0	30.2	00.2	99.4	00.0	7.7	7.7	1.1		2			
IM11	Misty	Calm	11:17	8.6	Middle	4.3	0.0	320	19.2	19.2	8.0	8.0	30.4	30.4	98.9	98.9	7.6		1.2	1.3	3	3	821516	810523
	- 7					4.3	-	319	19.2		8.0		30.4		98.9		7.6		1.3		3			
					Bottom	7.6	0.0	284	19.3	19.3	7.9	7.9	30.4	30.4	99.0	100.6	7.6	7.8	1.7	1	3			
						7.6	0.0	279	19.3		7.9		30.4		102.1		7.9		1.7		3			
					Surface	1.0	0.1	313	19.2	19.2	8.0	8.0	30.3	30.3	100.0	100.0	7.7		1.4	-	2			
						1.0	0.1	307	19.1		8.0		30.4		100.0		7.7	7.8	1.6	-	2			
IM12	Misty	Calm	11:13	7.8	Middle	3.9	0.1	303	19.2	19.2	8.0	8.0	30.6	30.6	100.7	100.8	7.8		2.0	1.9	4	4	821151	811511
						3.9 6.8	0.0	297	19.2		8.0		30.6		100.9		7.8		2.1	4	3			
					Bottom	6.8	0.0	301 297	19.3 19.3	19.3	7.9	7.9	30.5	30.5	101.5 101.6	101.6	7.8 7.8	7.8	2.1	-	5 6			
						1.0	0.0	172	19.3		8.0		29.8		99.3		7.7		1.4		2			
					Surface	1.0	0.0	166	19.1	19.1	7.9	7.9	30.0	29.9	99.6	99.5	7.7		1.4	-	2			
						2.2	0.0	177	- 19.1		-		-		-		-	7.7	-	1	-			
SR1A	Misty	Calm	10:53	4.4	Middle	2.2	0.0	172	-	-		-		-	H	-	-			1.5		3	819975	812656
						3.4	0.0	195	19.1		7.9		30.3		100.2		77		1.6	1	3			
					Bottom	3.4	0.0	202	19.1	19.1	7.9	7.9	30.3	30.3	100.4	100.3	7.8	7.8	1.6	1	4			
						1.0	0.0	168	19.0		7.9		30.5		101.5		7.9		1.7		3			
					Surface	1.0	0.0	175	19.0	19.0	7.9	7.9	30.5	30.5	101.5	101.5	7.9		1.6	1	4			
000	N. 47 - 41 -	0-1	40.40	5.0	NAC-JUIL-	-	0.0	159	-		-		-		-		-	7.9	-		-		004.450	04.4400
SR2	Misty	Calm	10:43	5.2	Middle	-	0.0	166	-	-	-	-	-	-	-	-	-		-	2.0	-	4	821459	814189
					Dattana	4.2	0.0	134	19.1	10.1	7.8	7.0	30.5	20.5	101.7	404.7	7.9	7.0	2.4	1	4			
					Bottom	4.2	0.0	139	19.1	19.1	7.8	7.8	30.6	30.5	101.7	101.7	7.9	7.9	2.4		4			
					Surface	1.0	0.0	184	19.0	19.0	7.9	7.9	28.7	28.7	106.3	105.9	8.3		1.2		3			
					Surface	1.0	0.1	182	19.0	19.0	7.9	7.9	28.7	20.7	105.4	105.5	8.3	8.0	1.3		3			
SR3	Cloudy	Moderate	10:38	8.4	Middle	4.2	0.1	156	18.8	18.8	7.9	7.9	30.8	30.8	99.8	99.9	7.7	0.0	2.0	1.9	4	4	822168	807566
Orto	Oloudy	Woderate	10.00	0.4	Wildalo	4.2	0.0	157	18.8	10.0	7.9	7.0	30.8	00.0	99.9	00.0	7.8		2.0	1.0	4	-	022100	007000
					Bottom	7.4	0.1	168	18.7	18.7	7.9	7.9	31.0	31.0	101.6	101.8	7.9	7.9	2.4		4			
					Bottom	7.4	0.1	163	18.7		7.9		31.0	01.0	102.0	10110	7.9		2.3		4			
					Surface	1.0	0.0	291	19.0	19.0	7.9	7.9	30.4	30.4	97.5	97.5	7.6		4.6	4	4			
						1.0	0.0	289	18.9		7.9		30.5		97.4		7.6	7.6	4.6	4	2			
SR4A	Cloudy	Moderate	09:10	9.2	Middle	4.6	-	298	18.9	18.9	7.9	7.9	30.7	30.7	96.2	96.2	7.5		5.3	4.9	4	3	817208	807788
	•					4.6	0.0	305	18.9		7.9		30.7		96.2		7.5		5.3	4	3			
					Bottom	8.2	0.0	278	18.9	18.9	7.9	7.9	31.2	31.1	95.9 95.9	95.9	7.4	7.4	4.9	4	3			
						8.2	0.0	278	18.9		7.9		31.1				7.4		4.8	<u> </u>	3		<u> </u>	
					Surface	1.0	-	-	19.2	19.2	7.9	7.9	30.5	30.5	100.9	101.0	7.8		1.1	4	4			
						1.0	-	-	19.2		7.9		30.5		101.1		7.8	7.8	1.0	-	4			
SR8	Misty	Calm	11:08	5.0	Middle	-	-	-	-	-	-	-	-	-	-	-	-		-	1.1	-	4	820368	811607
						4.0	-	-	19.3		7.9		30.5		101.7		7.8		1.2	1	3			
					Bottom	4.0	-	-	19.3	19.3	7.9	7.9	30.5	30.5	101.7	101.8	7.8	7.8	1.1	1	4			
DA: Denth-Aver			<u> </u>	I	l .	4.0			13.3		1.5		JU.J	l	101.0		7.0		1.1		4		i	l

DA: Depth-Averaged

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

Water Qual	ity worm	oring Resu	its on		04 March 23	during Mid-	EDD HIGE	<u> </u>																
Monitoring	Weather	Sea	Sampling	Water	Sampling Dep	th (m)	Current Speed	Current	Water Te	mperature (°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 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	0.0	197	19.2	19.2	8.1	8.1	30.3	30.4	101.2	101.1	7.8		2.1		4			
					Surface	1.0	0.0	203	19.2	19.2	8.1	0.1	30.4	30.4	100.9	101.1	7.8	7.8	2.1		4			
C1	Cloudy	Moderate	11:50	8.3	Middle	4.2	0.1	186	19.1	19.1	8.1	8.1	30.6	30.6	99.5	99.5	7.7	7.0	4.5	5.9	4	4	815612	804266
Ci	Cloudy	Moderate	11.50	0.5	Middle	4.2	0.1	181	19.1	19.1	8.1	0.1	30.6	30.0	99.4	99.5	7.7		4.5	3.9	4	4	013012	804200
					Bottom	7.3	0.0	178	19.1	19.1	8.1	8.1	30.7	30.7	99.6 99.7	99.7	7.7	7.7	11.1		4			
					Bottom	7.3	0.0	185	19.1	10.1	8.1	0.1	30.7	00.7	99.7	55.7	7.7		11.2		3			
					Surface	1.0	0.1	4	19.5	19.5	8.1	8.1	27.0	27.0	111.3	111.2	8.7		0.9		4			
					Cunaco	1.0	0.0	7	19.5	.0.0	8.1	0	27.0	27.10	111.0		8.7	8.4	1.0		4			
C2	Cloudy	Moderate	10:28	11.0	Middle	5.5	0.1	334	19.1	19.1	8.1	8.1	30.0	30.1	102.7	102.8	8.0	0	3.6	4.6	4	4	825664	806939
	,					5.5	0.1	341	19.1		8.1	*	30.1		102.8		8.0		3.8	1	4	•		
					Bottom	10.0	0.1	330	19.1	19.1	8.1	8.1	30.2	30.2	104.1	104.2	8.1	8.1	9.3	_	4			
						10.0	0.1	333	19.1		8.1		30.2		104.2		8.1		9.0		3			
					Surface	1.0	0.1	72	19.0	19.0	7.8	7.8	31.4	31.4	107.9	107.8	8.3		2.7	_	2			
						1.0	0.1	70	18.9		7.8		31.4		107.7		8.3	8.3	2.8	1	2			
C3	Misty	Calm	11:34	10.0	Middle	5.0	0.2	69	18.7	18.7	7.8	7.8	31.5	31.5	106.1 105.9	106.0	8.2		4.0	4.0	3	3	822124	817781
	,					5.0	0.2	65	18.7		7.8		31.5						4.1	1	4			
					Bottom	9.0	0.2	75	18.6	18.6	7.7	7.7	31.6	31.6	99.8	99.8	7.7	7.7	5.1	-	4			
						9.0	0.1	75	18.6		7.7		31.6		99.8		7.7		5.1		3			
					Surface	1.0	0.1	92 94	19.3 19.2	19.3	8.2 8.2	8.2	30.3	30.3	103.8	103.7	8.0		2.3	4	3 4			
							0.1	94										8.0	2.3 3.0	-	4			
IM1	Cloudy	Moderate	11:29	6.7	Middle	3.4	0.0	93	19.1 19.1	19.1	8.2 8.2	8.2	30.6 30.6	30.6	103.3	103.4	8.0		3.0	2.8	3	4	818356	806470
						5.7	0.0	99	19.1		8.2		30.6		103.4		8.1		3.1	-	4			
					Bottom	5.7	0.0	101	19.1	19.1	8.2	8.2	30.6	30.6	104.3	104.3	8.1	8.1	3.1	-	5			
						1.0	0.0	81	19.3		8.2		30.2				8.0		2.1		4			
					Surface	1.0	0.0	81	19.3	19.3	8.2	8.2	30.2	30.2	103.8	103.8	8.0		2.2	1	5			
						3.2	0.1	89	19.1				30.7				7.8	7.9	4.9	1	5			
IM2	Cloudy	Moderate	11:23	6.4	Middle	3.2	0.1	93	19.1	19.1	8.2	8.2	30.7	30.7	100.9	100.9	7.8		5.0	4.2	4	4	819174	806250
						5.4	0.1	54	19.0		8.2		30.8		100.6		7.8		5.3	1	4			
					Bottom	5.4	0.0	60	19.1	19.1	8.2	8.2	30.7	30.8	100.7	100.7	7.8	7.8	5.4	1	4			
						1.0	0.2	43	19.3		8.1		27.0		111.8		8.8		2.0		4			
					Surface	1.0	0.1	35	19.3	19.3	8.1	8.1	27.0	27.0	111.7	111.8	8.8	0.5	2.1	1	3			
15.47	Oleverte	Mandanal	40.40	0.0	N 41 - 1 - 11 -	4.0	0.1	45	19.1	40.4	8.1	0.4	30.1	00.0	105.1	405.4	8.1	8.5	3.5	1	4		004000	000000
IM7	Cloudy	Moderate	10:48	8.0	Middle	4.0	0.1	41	19.1	19.1	8.1	8.1	30.2	30.2	105.1	105.1	8.1		3.6	3.2	4	4	821360	806833
					Dallana	7.0	0.1	55	19.1	40.4	8.1	0.4	30.3	00.0	105.3	405.4	8.2	0.0	3.9	1	4			
					Bottom	7.0	0.2	56	19.1	19.1	8.1	8.1	30.3	30.3	105.4	105.4	8.2	8.2	4.0	1	4			
DA: Depth-Aver					•	•									•									

DA: Depth-Average

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

Water Qua	<u>,</u>	g			04 March 25	during mid																		
Monitoring	Weather	Sea	Sampling	Water	Sampling Dept	h (m)	Current Speed	Current	Water Te	emperature (°C)	ı	рН	Salin	ity (ppt)		aturation %)	Disso Oxy	olved gen	Turbidity((NTU)	Suspender (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dept	11 (111)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.0	27	18.7	18.7	7.9	7.9	30.0	30.1	111.7	111.5	8.7		3.1		4			
					Surface	1.0	0.0	21	18.7	10.7	7.9	7.9	30.2	30.1	111.2	111.5	8.7	8.5	3.2	1	3			
IM10	Misty	Calm	10:29	9.6	Middle	4.8	0.1	32	18.6	18.6	7.9	7.0	30.7	30.7	106.2	106.2	8.3	0.5	4.7	4.3	4	3	822255	809830
IIVITO	iviisty	Callii	10.29	9.6	ivildale	4.8	0.1	32	18.6	10.0	7.9	7.9	30.8	30.7	106.1	100.2	8.3		4.6	4.3	3	3	022233	009030
					Bottom	8.6	0.0	15	18.6	18.6	7.9	7.9	30.8	30.8	107.3	107.4	8.4	8.4	5.1		3			
					Bottom	8.6	0.0	14	18.6	10.0	7.9	1.5	30.8	30.0	107.5	107.4	8.4	0.4	5.1		3			
					Surface	1.0	0.0	65	18.7	18.7	7.8	7.8	30.2	30.3	111.5	111.4	8.7		1.8		3			
					Surface	1.0	0.0	67	18.7	10.7	7.8	7.0	30.3	50.5	111.3	111.4	8.7	8.5	1.7		4			
IM11	Misty	Calm	10:42	9.0	Middle	4.5	0.1	78	18.6	18.6	7.8	7.8	30.8	30.7	105.9	105.9	8.2	0.0	2.1	2.4	4	4	821496	810540
	iviloty	Cairri	10.42	0.0	Wildale	4.5	0.1	76	18.6	10.0	7.8	7.0	30.7	00.1	105.8	100.0	8.2		2.2	2.7	3	7	021400	010040
					Bottom	8.0	0.1	62	18.6	18.6	7.8	7.8	30.5	30.5	106.5	106.6	8.3	8.3	3.4		4			
					Bottom	8.0	0.1	64	18.6	10.0	7.8	7.0	30.5	50.5	106.7	100.0	8.3	0.5	3.4		5			
					Surface	1.0	0.1	71	18.7	18.7	7.8	7.8	30.4	30.4	112.0	111.8	8.7		1.2		3			
					Ourlace	1.0	0.0	74	18.7	10.7	7.8	7.0	30.5	30.4	111.5	111.0	8.7	8.5	1.2		4			
IM12	Misty	Calm	10:46	8.8	Middle	4.4	0.1	86	18.6	18.6	7.8	7.8	30.8	30.8	106.9	106.9	8.3	0.0	2.4	2.3	4	4	821149	811521
IIIII	iviloty	Cairri	10.40	0.0	Wildale	4.4	0.0	87	18.6	10.0	7.8	7.0	30.8	00.0	106.8	100.0	8.3		2.4	2.0	4	7	021140	011021
					Bottom	7.8	0.1	80	18.6	18.6	7.8	7.8	30.8	30.8	107.3	107.4	8.4	8.4	3.4		5			
					Bottom	7.8	0.1	77	18.6	10.0	7.8	7.0	30.8	00.0	107.4	107.4	8.4	0.4	3.3		4			
					Surface	1.0	0.0	149	18.6	18.7	7.8	7.8	30.9	30.8	108.1	109.4	8.4		2.9		3			
					Carrace	1.0	0.0	147	18.8	10.7	7.8	7.0	30.7	00.0	110.7	100.4	8.6	8.5	2.8		4			
SR1A	Misty	Calm	10:58	5.0	Middle	2.5	0.0	165	-	_	-	_	-	_	-	_	-	0.0	-	3.0	-	4	819972	812659
OKIA	iviisty	Cairri	10.50	5.0	Wilddle	2.5	0.1	159	-		-		-	_	-	_	-		-	3.0	-	7	013372	012033
					Bottom	4.0	0.0	168	18.8	18.8	7.8	7.8	30.8	30.8	110.4	110.0	8.6	8.6	3.1		4			
					Bottom	4.0	0.0	165	18.7	10.0	7.8	7.0	30.8	30.0	109.6	110.0	8.5	0.0	3.2		4			
					Surface	1.0	0.0	59	18.8	18.8	7.8	7.8	30.9	30.9	110.9	109.4	8.6		3.0		4			
					Carrace	1.0	0.1	51	18.8	10.0	7.8	7.0	30.9	00.0	107.9	100.4	8.4	8.5	3.1		3			
SR2	Misty	Calm	11:16	4.6	Middle	-	0.0	64	-	_	-	_	-	_	-	_	-	0.5	-	3.1	-	4	821469	814171
OILE	iviloty	Cairri	11.10	4.0	Wildale	-	0.0	61	-		-		-		-		-		-	0.1	-	7	021400	014171
					Bottom	3.6	0.0	53	18.7	18.7	7.8	7.8	31.0	31.0	106.0	105.7	8.2	8.2	3.2		5			
					Bottom	3.6	0.0	57	18.7	10.7	7.8	7.0	31.0	01.0	105.3	100.7	8.2	0.2	3.3		4			
					Surface	1.0	0.1	25	19.4	19.4	8.1	8.1	27.0	27.0	109.5	108.9	8.6		2.8		3			
					Gundoc	1.0	0.1	21	19.3	10.4	8.1	0.1	27.0	27.0	108.3	100.0	8.5	8.2	3.0		3			
SR3	Cloudy	Moderate	10:42	9.0	Middle	4.5	0.1	12	19.2	19.2	8.1	8.1	29.7	29.8	102.4	102.4	7.9	0.2	5.9	5.7	3	3	822142	807592
	,					4.5	0.1	9	19.1		8.1	•	30.0		102.3		7.9		6.0		3			
					Bottom	8.0	0.1	21	19.1	19.1	8.1	8.1	30.2	30.2	102.4	102.4	7.9	7.9	8.3		4			
					5000011	8.0	0.1	16	19.1		8.1	0	30.2	00.2	102.4	.02	7.9		8.2		3			
]	Surface	1.0	0.0	253	19.1	19.1	8.2	8.1	30.5	30.6	102.9	102.9	8.0		4.0		5]
						1.0	0.0	259	19.1		8.1		30.6		102.9		8.0	8.0	4.1	1	6			
SR4A	Cloudy	Moderate	12:16	8.4	Middle	4.2	0.0	266	19.0	19.0	8.1	8.1	30.6	30.6	103.2	103.3	8.0		4.4	4.2	6	6	817183	807810
-	,			-		4.2	0.0	262	19.0		8.1		30.6		103.3		8.0		4.3	ļ	6	-		
					Bottom	7.4	0.0	287	19.0	19.0	8.1	8.1	30.6	30.6	104.1	104.2	8.1	8.1	4.3	ļ	6			
						7.4	0.1	282	19.0		8.1	··	30.6		104.2		8.1		4.3		6			
					Surface	1.0	-	-	18.9	18.9	7.8	7.8	29.5	29.5	112.7	112.6	8.8		2.8	ļ	4			
						1.0	-	-	18.9		7.8		29.5		112.5		8.8	8.8	2.8	ļ	3			
SR8	Misty	Calm	10:49	5.4	Middle	-	-	-	-	_	-	-	-	-	-	-	-		-	3.3	-	4	820378	811636
	,					-	-	-	-		-		-		-		-		-		-			
					Bottom	4.4	-	-	18.6	18.6	7.8	7.7	30.9	30.9	107.0	107.0	8.3	8.3	3.8	ļ	4			
						4.4	-	-	18.6	***	7.7		30.9		107.0		8.3		3.8		5			

DA: Depth-Averaged

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

Water Qual	ity wonite	oring Resu	115 011		04 March 23	during Mid-	rioou ii	ue																
Monitoring	Weather	Sea	Sampling	Water	Complie - Desi	h (m)	Current Speed	Current	Water Te	emperature (°C)	ŀ	рН	Salir	nity (ppt)		aturation (%)	Disso		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)
						1.0	0.3	37	19.1		8.1		30.1		101.9		7.9		4.7	1	5			
					Surface	1.0	0.3	40	19.1	19.1	8.1	8.1	30.1	30.1	101.7	101.8	7.9		4.5	-	4			
						4.5	0.3	47	19.0		8.1		30.5		100.1		7.7	7.8	7.7	-	6			
C1	Cloudy	Moderate	06:50	8.9	Middle	4.5	0.3	44	19.0	19.0	8.1	8.1	30.5	30.5	99.9	100.0	7.7		7.7	6.6	6	6	815626	804229
						7.9	0.2	37	19.0		8.1		30.6				7.7		7.7	-	7			
					Bottom	7.9	0.2	37	19.1	19.1	8.1	8.1	30.6	30.6	99.6 99.6	99.6	7.7	7.7	7.6	1	6			
					Surface	1.0	0.2	347	19.4	19.4	8.1	8.1	27.2	27.2	110.3	110.1	8.6		1.8		3			
					Surface	1.0	0.2	351	19.3	19.4	8.1	6.1	27.2	21.2	110.3 109.8	110.1	8.6	8.4	1.7		4			
C2	Cloudy	Moderate	08:13	11.8	Middle	5.9	0.2	352	19.1	19.1	8.1	8.1	30.0	30.0	104.4	104.5	8.1	0.4	4.8	6.1	5	5	825658	806959
02	Cloudy	Moderate	00.13	11.0	Wilddie	5.9	0.3	356	19.1	19.1	8.1	0.1	30.0	30.0	104.5	104.5	8.1		5.1	0.1	4	3	023030	800939
					Bottom	10.8	0.2	334	19.2	19.2	8.1	8.1	30.2	30.2	105.4	105.5	8.1	8.2	11.7		5			
					Dottom	10.8	0.3	332	19.2	13.2	8.1	0.1	30.2	30.2	105.5	100.0	8.2	0.2	11.5		6			
					Surface	1.0	0.5	265	18.5	18.5	7.8	7.8	31.3	31.3	96.1 96.0	96.1	7.5		3.1		4			
					Ounace	1.0	0.5	267	18.5	10.5	7.8	7.0	31.3	31.3		30.1	7.5	7.5	3.2		5			
С3	Misty	Calm	07:14	10.4	Middle	5.2	0.4	242	18.5	18.5	7.8	7.8	31.3	31.3	95.2 95.2	95.2	7.4	7.0	4.1	4.2	4	4	822104	817786
00	Wiloty	Odim	07.14	10.4	Wildale	5.2	0.4	234	18.5	10.0	7.8	7.0	31.3	01.0		55.2	7.4		4.2	7.2	4	,	022104	017700
					Bottom	9.4	0.4	279	18.5	18.5	7.8 7.8	7.8	31.1	31.1	95.7 95.8	95.8	7.5	7.5	5.3		4			
						9.4	0.5	276	18.5				31.1	•			7.5		5.3		3			
					Surface	1.0	0.2	25	19.1	19.1	8.1	8.1	30.3	30.3	102.0 101.9	102.0	7.9		4.2		4			
						1.0	0.1	26	19.1		8.1		30.4				7.9	7.9	4.6		5			
IM1	Cloudy	Moderate	07:13	6.8	Middle	3.4	0.2	14	19.1	19.1	8.1	8.1	30.6	30.6	101.9	102.0	7.9		6.7	6.5	5	5	818337	806463
						3.4	0.2	10	19.1		8.1		30.6		102.0		7.9		7.1	-	5			
					Bottom	5.8 5.8	0.2	36	19.1	19.1	8.1	8.1	30.5	30.5	102.9	102.9	8.0	8.0	8.2 8.2	-	<u>6</u> 5			
							0.2	38	19.1		8.1									<u> </u>				
					Surface	1.0	0.2	25 29	19.2 19.2	19.2	8.1 8.1	8.1	30.1	30.1	101.3	101.2	7.8 7.8		2.6	-	5			
						3.5	0.2	26	19.2		8.1		30.1					7.7	3.0	1	6			
IM2	Cloudy	Moderate	07:17	7.0	Middle	3.5	0.2	24	19.1	19.1	8.1	8.1	30.6	30.6	98.4 98.3	98.4	7.6 7.6		3.2	5.0	6	6	819184	806229
						6.0	0.2	1	19.1		8.1		30.7		98.0		7.6		9.3	1	7			
					Bottom	6.0	0.2	357	19.1	19.1	8.1	8.1	30.7	30.7	98.0	98.0	7.6	7.6	9.7	1	7			
						1.0	0.2	354	19.3		8.2		27.2		109.1		8.6		2.9	1	4			
					Surface	1.0	0.2	1	19.2	19.3	8.2	8.2	27.3	27.2	108.2	108.7	8.5	0.0	3.1	1	6			
	01	Madazata	07:44	0.4	N 41 - 1 - 11 -	4.2	0.2	3	19.1	40.4	8.2	0.0	30.2	00.0	102.8	400.0		8.3	4.5	1	6	-	004005	000004
IM7	Cloudy	Moderate	07:41	8.4	Middle	4.2	0.2	7	19.1	19.1	8.2	8.2	30.2	30.2	102.8	102.8	8.0		4.5	4.0	5	5	821325	806821
					Bottom	7.4	0.2	342	19.2	19.2	8.2	0.0	30.2	20.2	102.9 102.9	102.9	8.0	0.0	4.5	1	4			
					BOILOW	7.4	0.1	341	19.2	19.2	8.2	8.2	30.2	30.2	102.9	102.9	8.0	8.0	4.4		3			
DA: Denth-Aver	d	•	· · · · · · · · · · · · · · · · · · ·	•			· · · · · · · · · · · · · · · · · · ·	·						· · · · · · · · · · · · · · · · · · ·										•

DA: Depth-Averaged

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

Monitoring	Weather	Sea	Sampling	Water	Sampling Deptl	h (m)	Current Speed	Current	Water Te	emperature (°C)	Ŀ	Н	Salin	nity (ppt)		aturation (%)	Disso Oxy		Turbidity	(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Затріпу Беріі	11 (111)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.3	289	18.8	18.8	7.9	7.9	28.6	28.7	110.6	110.5	8.7		1.4		4			
					Surface	1.0	0.3	284	18.7	10.0	7.9	7.5	28.7	20.7	110.4	110.5	8.7	8.4	1.5		4			
IM10	Misty	Calm	08:34	10.2	Middle	5.1	0.2	293	18.6	18.6	7.9	7.9	30.8	30.8	104.1	104.1	8.1	0.4	2.1	2.0	4	4	822253	809859
114110	Wiloty	Odim	00.04	10.2	Middle	5.1	0.3	295	18.6	10.0	7.9	7.0	30.8	00.0	104.1	10-1.1	8.1		2.0	2.0	4	-	OZZZOO	000000
					Bottom	9.2	0.2	310	18.6	18.6	7.8	7.8	30.8	30.8	104.3	104.4	8.1	8.1	2.5		5			
					Bottom	9.2	0.2	308	18.6	10:0	7.8	7.0	30.8	00.0	104.4	104.4	8.1	0.1	2.6		5			
					Surface	1.0	0.3	289	18.8	18.8	7.8	7.8	29.4	29.4	108.0	108.0	8.4		3.3		3			
						1.0	0.3	283	18.8		7.8		29.5		107.9		8.4	8.4	3.4		4			
IM11	Misty	Calm	08:27	7.4	Middle	3.7	0.3	286	18.7	18.7	7.8	7.8	30.1	30.1	106.5	106.6	8.3	•	4.7	4.5	4	4	821498	810564
	. ,					3.7	0.4	281	18.7		7.8		30.1		106.6		8.3		4.6		4			
					Bottom	6.4	0.4	287	18.7	18.7	7.8	7.8	30.4	30.4	103.4	103.4	8.1	8.1	5.7		4			
						6.4	0.3	294	18.7		7.8		30.4		103.4		8.0		5.6		4			
					Surface	1.0	0.4	288	18.6	18.6	7.8	7.8	30.6	30.7	108.8	108.3	8.5		3.3		4			
						1.0	0.4	283	18.6		7.8		30.7		107.8		8.4	8.3	3.3		3			
IM12	Misty	Calm	08:13	8.6	Middle	4.3	0.3	297	18.6	18.6	7.8	7.8	30.9	30.9	103.6	103.7	8.1		4.5	4.3	4	4	821153	811508
	í					4.3	0.3	294	18.6		7.8		30.9		103.7		8.1		4.4		5			
					Bottom	7.6	0.4	286	18.7	18.8	7.8	7.8	30.9	30.9	104.1	104.1	8.1	8.1	5.0		5			
						7.6	0.4	289	18.8		7.8		30.9		104.1		8.1		5.1		4			
					Surface	1.0	0.0	190	18.6	18.6	7.8	7.8	30.6	30.6	101.8	101.8	7.9		2.0		3			
						1.0	0.0	188	18.6		7.8		30.6		101.7		7.9	7.9	1.9		4			
SR1A	Misty	Calm	07:53	5.2	Middle	2.6	0.0	189	-	-	-	-		-	-	-	-		-	2.1	-	5	819981	812663
	,					2.6	0.0	186	-		-		-		-		-				-			
					Bottom	4.2	0.0	206	18.7	18.7	7.8	7.8	30.8	30.8	101.7	101.7	7.9	7.9	2.2		5			
						4.2	0.0	202	18.7		7.8		30.7		101.7		7.9		2.3		6			
					Surface	1.0	0.1	317 321	18.6 18.6	18.6	7.8	7.8	30.7	30.7	106.2 105.9	106.1	8.3		2.0		4			
									18.6		_		30.7					8.3	2.1					
SR2	Misty	Calm	07:39	5.8	Middle	-	0.1	308	-	-	-	-		-	-	-	-			2.8	-	4	821449	814179
							0.0	314	_								- 0.2				4			
					Bottom	4.8 4.8	0.0	297 291	18.2 18.2	18.2	7.8	7.8	31.2	31.2	104.2 104.4	104.3	8.2	8.2	3.4		5			
						1.0	0.1	329	19.6		8.1		27.1		114.2		8.9		0.8		4			l I
					Surface	1.0	0.2	328	19.6	19.6	8.1	8.1	27.1	27.1	114.1	114.2	8.9		0.9		5			
						4.2	0.2	351	19.3		8.1		28.3		104.4		8.1	8.5	2.0		4			
SR3	Cloudy	Moderate	07:46	8.4	Middle	4.2	0.2	346	19.3	19.3	8.1	8.1	28.3	28.3	104.1	104.3	8.1		2.2	2.2	4	4	822158	807550
						7.4	0.3	311	19.1		8.1		30.0		104.0		8.1		3.7		3			
					Bottom	7.4	0.2	314	19.2	19.2	8.1	8.1	30.0	30.0	104.3	104.2	8.1	8.1	3.7		4			
	1					1.0	0.2	236	19.0		8.1		30.6		102.8		8.0		4.5		16			i
					Surface	1.0	0.0	240	19.0	19.0	8.1	8.1	30.7	30.6	102.6	102.7	7.9		4.5	1	15			
						4.4	0.1	228	19.0		8.1		30.7		102.6		7.9	7.9	4.6	1	14			
SR4A	Cloudy	Moderate	06:23	8.8	Middle	4.4	0.0	222	19.0	19.0	8.1	8.1	30.7	30.7	102.5	102.6	7.9		4.6	4.6	13	14	817207	807808
						7.8	0.0	220	19.0		8.1		30.7		102.5		7.9	_	4.7	1	12			
					Bottom	7.8	0.0	212	19.0	19.0	8.1	8.1	30.7	30.7	102.5	102.5	7.9	7.9	4.7		11			
					0 /	1.0	-	-	18.6	40.0	7.8		30.5		108.2	400.5	8.4		1.1		4			
					Surface	1.0	-	-	18.6	18.6	7.8	7.8	30.5	30.5	107.7	108.0	8.4		1.1	1	5			
000	Maria	0-1	00.00	- 4	NAC-1-III-	-	-	-	-		-		-		-		-	8.4	-	1	-		000076	044000
SR8	Misty	Calm	08:09	5.4	Middle	-	-	-	-	-	-	-	-	-	-	-	-		-	1.6	-	4	820373	811636
					Detter	4.4	-	-	18.7	40.7	7.8	7.0	30.9	20.0	102.3	400.0	7.9	7.0	2.1	1	4			
					Bottom	4.4	-	-	18.7	18.7	7.8	7.8	30.9	30.9	102.2	102.3	7.9	7.9	2.1	1	4			

DA: Depth-Averaged

Water Quality Monitoring Results on 07 March 23 during Mid-Ebb Tide

Water Qual	ity wonit	oring Resu	its on		07 March 23	during Mid-	EDD HOE	;																
Monitoring	Weather	Sea	Sampling	Water	Sampling Dep	th (m)	Current Speed	Current	Water Te	mperature (°C)	p	Н	Salir	nity (ppt)		aturation (%)	Disso Oxy		Turbidity	(NTU)	Suspender (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dep	uii (iii)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
						1.0	0.2	219	18.5	10.5	7.8		31.1		96.3		7.5		6.6		3			
					Surface	1.0	0.2	222	18.5	18.5	7.8	7.8	31.1	31.1	96.3 96.2	96.3	7.5	7.5	6.8	1	4			
C1	Cloudy	Madazata	13:06	8.5	Middle	4.3	0.2	203	18.4	18.4	7.8	7.8	31.2	31.2	96.1	96.1	7.5	7.5	8.5	8.3	4	4	815640	804229
CI	Cloudy	Moderate	13:06	8.5	Middle	4.3	0.2	198	18.4	18.4	7.8	7.8	31.2	31.2	96.1	96.1	7.5		8.5	8.3	3	4	813640	804229
					Bottom	7.5	0.2	207	18.4	18.4	7.8	7.8	31.2	31.2	96.3 96.4	96.4	7.5	7.5	9.7	1	4			
					Dottom	7.5	0.2	213	18.4	10.4	7.8	7.0	31.2	31.2	96.4	30.4	7.5	7.5	9.5		4			
					Surface	1.0	0.1	139	18.9	18.9	7.9	7.9	29.0	29.0	97.4 97.3	97.4	7.6		2.3		4			
					Curiaco	1.0	0.1	138	18.9	10.0	7.9	7.0	29.1	20.0		J7.∃	7.6	7.6	2.4	1	4			
C2	Cloudy	Moderate	11:38	11.2	Middle	5.6	0.1	148	18.7	18.7	7.8	7.8	29.9	29.9	96.4	96.4	7.5	7.0	3.0	4.5	2	3	825682	806958
02	O.ouu,	moderate	11.00		- Induio	5.6	0.0	152	18.7		7.8	7.0	29.9	20.0	96.4	00	7.5		3.3		4	Ü	020002	00000
					Bottom	10.2	0.1	135	18.8	18.8	7.8	7.8	29.8	29.7	97.4 97.5	97.5	7.6	7.6	7.9	<u> </u>	3			
					20110111	10.2	0.1	138	18.8	10.0	7.8	7.0	29.7	20		07.0	7.6		7.8		3			
					Surface	1.0	0.3	86	19.2	19.2	8.1	8.1	30.2	30.2	98.8 98.5	98.7	7.6		2.2	<u> </u>	2			
						1.0	0.3	84	19.2		8.1		30.2				7.6	7.6	2.2	_	2			
C3	Misty	Calm	12:49	9.2	Middle	4.6	0.3	99	19.2	19.2	8.1	8.1	30.2	30.2	98.0 98.2	98.1	7.6		2.3	2.5	2	3	822115	817794
	. ,		-			4.6	0.3	105	19.2		8.1		30.2				7.6		2.4	1	3			
					Bottom	8.2	0.3	104	19.2	19.2	8.1	8.1	30.2	30.2	101.4	101.6	7.8	7.9	3.1	4	3			
						8.2	0.3	103	19.2		8.1		30.2		101.8		7.9		3.2		3			
					Surface	1.0	0.1	187 190	18.8	18.8	7.8	7.8	31.0 31.0	31.0	98.1 98.1	98.1	7.6		5.4 5.5	1	<2			
							0.1		18.8								7.6	7.6		4	<2			
IM1	Cloudy	Moderate	12:46	6.2	Middle	3.1	0.1	180 175	18.7 18.7	18.7	7.8	7.8	31.1	31.1	98.3 98.3	98.3	7.6 7.6		6.3 5.6	6.3	3 2	2	818341	806473
						5.2	0.1	185	18.7		7.8		31.1				7.6		7.7	1	2			
					Bottom	5.2	0.1	184	18.7	18.7	7.8	7.8	31.1	31.1	98.5 98.6	98.6	7.7	7.7	7.5	1	3			
						1.0	0.0	165	18.7		7.8		31.0				7.6		6.0		4			
					Surface	1.0	0.0	171	18.7	18.7	7.8	7.8	31.0	31.0	97.7 97.5	97.6	7.6		6.0	1	3			
						3.5	0.0	157	18.6		7.8		31.2				7.5	7.6	6.4	1	3			
IM2	Cloudy	Moderate	12:38	6.9	Middle	3.5	0.0	163	18.6	18.6	7.8	7.8	31.2	31.2	96.8 96.6	96.7	7.5		6.5	7.0	2	3	819198	806226
					_	5.9	0.0	152	18.5		7.8		31.2				7.5		8.7	1	2			
					Bottom	5.9	0.0	148	18.5	18.5	7.8	7.8	31.2	31.2	96.2 96.1	96.2	7.5	7.5	8.6	1	3			
						1.0	0.2	82	18.7		7.8		30.2				7.6		5.4	1	2			
					Surface	1.0	0.2	77	18.7	18.7	7.8	7.8	30.3	30.2	96.9 96.9	96.9	7.6	7.0	5.5	1	3			
18.47	Oleverte	Mandager	40.45	0.4	A C d all a	4.2	0.2	59	18.6	40.0	7.8	7.0	30.5	00.5	96.7	00.0	7.5	7.6	6.4	1	2		004005	000000
IM7	Cloudy	Moderate	12:15	8.4	Middle	4.2	0.2	55	18.6	18.6	7.8	7.8	30.5	30.5	96.8	96.8	7.5		6.5	6.2	3	3	821365	806839
					Dallan	7.4	0.2	54	18.6	40.0	7.8	7.0	30.5	00.5		00.0	7.6	7.0	6.6	1	2			
					Bottom	7.4	0.2	60	18.6	18.6	7.8	7.8	30.5	30.5	96.8 96.9	96.9	7.6	7.6	6.6	1	3			
DA: Depth-Aver	ogod						•																	

Water Quality Monitoring Results on 07 March 23 during Mid-Ebb Tide

Water Quar	,	<u> </u>			07 March 25	during mid																		
Monitoring	Weather	Sea	Sampling	Water	Occupation Book	th. ()	Current Speed	Current	Water Te	mperature (°C)		рН	Salin	ity (ppt)		aturation (%)	Disso		Turbidity	(NTU)	Suspender (mg/		Coordinate	Coordinate
Station	Condition	Condition	Time	Depth (m)	Sampling Dep	in (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	HK Grid (Northing)	HK Grid (Easting)
						1.0	0.2	79	19.3		8.1		29.0		97.8		7.6		4.4		2			
					Surface	1.0	0.1	83	19.3	19.3	8.1	8.1	29.0	29.0	97.7	97.8	7.6		4.5	1	2			
						4.8	0.1	77	19.1		8.1		29.5		97.4		7.6	7.6	6.1	1	4			
IM10	Misty	Calm	11:48	9.6	Middle	4.8	0.1	84	19.1	19.1	8.1	8.1	29.5	29.5	97.4	97.4	7.6		6.1	5.9	4	4	822258	809837
					_	8.6	0.2	58	19.1		8.1		29.6		97.6		7.6		7.0	1	5			
					Bottom	8.6	0.2	58	19.1	19.1	8.1	8.1	29.5	29.5	97.7	97.7	7.6	7.6	7.0	1	4			
						1.0	0.1	68	19.2		8.1	i i	29.2		96.6		7.5		2.8		4			
					Surface	1.0	0.1	72	19.2	19.2	8.1	8.1	29.3	29.2	96.5	96.6	7.5		2.9	1	3			
15.44.4	N 47 - 4 - 1	0-1	44.55	7.0	NAC-L-III-	3.8	0.1	92	19.2	40.0	8.1	0.4	29.5	00.5	96.1	00.4	7.5	7.5	3.3	0.0	5		004.400	040505
IM11	Misty	Calm	11:55	7.6	Middle	3.8	0.1	95	19.2	19.2	8.1	8.1	29.5	29.5	96.1	96.1	7.5		3.4	3.3	4	4	821486	810525
					5	6.6	0.2	101	19.2	40.0	8.1		29.6		95.9		7.4		3.7	1	5			
					Bottom	6.6	0.2	105	19.2	19.2	8.1	8.1	29.6	29.6	95.9	95.9	7.4	7.4	3.6		5			
					01	1.0	0.1	80	19.4	40.4	8.1	0.4	29.3	00.4	98.6	00.0	7.6		3.3		6			
					Surface	1.0	0.1	73	19.3	19.4	8.1	8.1	29.5	29.4	98.9	98.8	7.7		3.4		6			
IMAO	Minter	Cala	40.04	0.0	NA: dalla	4.4	0.2	106	19.3	40.2	8.1	0.4	29.5	20.0	99.0	99.3	7.7	7.7	5.0	4.0	6	7	004454	044540
IM12	Misty	Calm	12:01	8.8	Middle	4.4	0.2	102	19.2	19.3	8.1	8.1	29.6	29.6	99.6	99.3	7.7		5.1	4.9	6	7	821151	811513
					Bottom	7.8	0.2	86	19.2	19.3	8.1	8.1	29.6	29.6	99.9	100.0	7.7	7.8	6.4		8			
					Bollom	7.8	0.1	79	19.3	19.3	8.1	8.1	29.6	29.6	100.1	100.0	7.8	7.8	6.4		7			
					Curtons	1.0	0.1	10	19.3	40.2	8.1	0.4	29.6	20.0	97.4	07.5	7.5		2.8		3			
					Surface	1.0	0.1	13	19.3	19.3	8.1	8.1	29.6	29.6	97.5	97.5	7.5	7.5	2.7		3			
CD4A	Minter	Cala	40.44	5.0	Middle	2.5	0.0	5	-		-		-		-		-	7.5	-	2.4	-	4	040075	040005
SR1A	Misty	Calm	12:14	5.0	Middle	2.5	0.0	4	-	-	-	_	-	-	-	-	-		-	3.1	-	4	819975	812665
					Bottom	4.0	0.0	9	19.3	19.3	8.1	0.1	29.6	29.6	97.5	97.5	7.6	7.6	3.4	1	5			
					Bottom	4.0	0.1	2	19.3	19.5	8.1	8.1	29.6	29.0	97.5	97.5	7.6	7.6	3.5		6			
					Surface	1.0	0.2	62	19.3	19.3	8.1	8.1	29.6	29.6	101.3	101.4	7.8		2.9		6			
					Surface	1.0	0.2	55	19.3	19.5	8.1	0.1	29.7	25.0	101.4	101.4	7.9	7.9	2.8		5			
SR2	Misty	Calm	12:32	5.0	Middle	-	0.2	51	-		-		-		-		-	1.5	-	3.0	-	5	821477	814164
SINZ	iviisty	Caiiii	12.32	3.0	Middle	-	0.2	53	-		-		-	_	-	_	-		-	3.0	-	3	021477	014104
					Bottom	4.0	0.1	50	19.2	19.3	8.1	8.1	29.6	29.6	101.9	102.1	7.9	7.9	3.1		4			
					Dottom	4.0	0.1	48	19.3	19.5	8.1	0.1	29.6	23.0	102.2	102.1	7.9	7.5	3.2		4			
					Surface	1.0	0.1	79	18.8	18.8	7.7	7.7	29.6	29.6	97.4	97.4	7.6		5.1		3			
					Gundoc	1.0	0.2	78	18.8	10.0	7.7	···	29.7	20.0	97.3	07.4	7.6	7.6	5.5		3			
SR3	Cloudy	Moderate	12:08	8.2	Middle	4.1	0.1	78	18.7	18.7	7.7	7.7	30.3	30.3	97.0	97.0	7.6		8.0	7.4	3	3	822137	807557
	,					4.1	0.1	79	18.7		7.7		30.3		97.0		7.6		8.1	1	3			
					Bottom	7.2	0.1	97	18.7	18.7	7.7	7.7	30.3	30.3	97.0	97.0	7.6	7.6	8.9	1 1	3			
					= +	7.2	0.1	93	18.7		7.7		30.3		97.0	*****	7.6		8.9		4			
					Surface	1.0	0.0	1	18.7	18.7	8.0	8.0	30.8	30.8	98.1	98.1	7.6		7.8	4	3			
						1.0	0.0	1	18.7		8.0		30.8		98.1		7.6	7.6	8.0	4 1	3			
SR4A	Cloudy	Moderate	13:32	8.5	Middle	4.3	0.0	25	18.6	18.6	8.0	8.0	30.8	30.8	97.9	97.9	7.6		8.6	8.4	3	3	817181	807807
						4.3	0.0	28	18.6		8.0		30.8		97.9		7.6		8.6	4	4			
					Bottom	7.5	0.0	3	18.6	18.6	8.0	8.0	30.9	30.9	97.8	97.8	7.6	7.6	8.8	4	4			
			1			7.5	0.0	7	18.6		8.0	-	30.9		97.8		7.6		8.7		3			
					Surface	1.0	-	-	19.3	19.3	8.1	8.1	29.5	29.5	99.4	99.5	7.7		2.7	- 1	2			
						1.0	-	-	19.3		8.1	1	29.5		99.5		7.7	7.7	2.8	- 1	3			
SR8	Misty	Calm	12:05	5.2	Middle	-	-	-	-	-		- 1	-	-	-	-	-		-	2.9	-	4	820413	811605
						- 4.2	-		- 10.2		- 0.1	1					7.0		- 2.1	4	-			
					Bottom	4.2	-	-	19.2	19.2	8.1	8.1	29.5	29.5	100.5	100.7	7.8	7.8	3.1	- 1	5			
			1			4.2	-	-	19.2		8.1		29.5		100.9		7.8		3.1		4			

DA: Depth-Averaged

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

water Quar	ity worm	orning incou	iita Oii		U/ Warch 23	auring wia-	1 1000 11	uc																
Monitoring	Weather	Sea	Sampling	Water	Sampling Dept	th (m)	Current Speed	Current	Water Te	emperature (°C)		pН	Salir	nity (ppt)		Saturation (%)	Disso Oxy		Turbidity	(NTU)	Suspender (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Campling Depl	(111)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.3	20	18.5	18.5	7.9	7.9	31.1	31.1	96.7	96.7	7.5		7.8		4			
					Surface	1.0	0.3	17	18.5	10.5	7.9	7.9	31.1	31.1	96.6	90.7	7.5	7.5	8.3	1	4			
C1	Cloudy	Moderate	07:42	8.6	Middle	4.3	0.3	51	18.4	18.4	7.9	7.9	31.1	31.1	96.8 96.9	96.9	7.5	7.5	9.3	9.7	4	4	815606	804225
CI	Cloudy	Moderate	07.42	0.0	Middle	4.3	0.2	53	18.4	10.4	7.9	7.9	31.1	31.1	96.9	96.9	7.6		10.0	9.7	4	4	813606	004223
					Bottom	7.6	0.4	10	18.4	18.4	7.9	7.9	31.0	31.0	97.7 98.0	97.9	7.6	7.6	11.6	1	3			
					Bottom	7.6	0.3	9	18.4	18.4	7.9	7.9	31.0	31.0	98.0	97.9	7.6	7.6	11.1	1	3			
					Surface	1.0	0.3	357	19.1	19.1	7.8	7.8	28.7	28.7	99.0	99.0	7.7		1.9		3			
					Surface	1.0	0.3	355	19.1	19.1	7.8	7.0	28.7	20.7	99.0 99.0	99.0	7.7	7.7	1.8		4			
C2	Cloudy	Moderate	09:04	10.6	Middle	5.3	0.3	9	18.7	18.7	7.9	7.9	29.7	29.8	97.6	97.6	7.6	7.7	6.3	6.3	4	4	825678	806923
02	Cloudy	Moderate	03.04	10.0	Wildale	5.3	0.3	11	18.7	10.7	7.9	7.5	29.8	23.0	97.5	37.0	7.6		6.9	0.5	2	7	023070	000323
					Bottom	9.6	0.3	341	18.6	18.6	7.9	7.9	30.2	30.2	100.2 100.2	100.2	7.8	7.8	10.3		5			
					Bottom	9.6	0.3	334	18.6	10.0	7.9	7.0	30.2	00.2		100.2	7.8	7.0	10.3		6			
					Surface	1.0	0.4	262	19.6	19.6	8.0	8.0	29.8	29.8	103.4	103.4	8.0		2.1		3			
					Cundoc	1.0	0.5	256	19.6	10.0	8.0	0.0	29.8	20.0		100.4	8.0	8.0	2.1		4			
СЗ	Misty	Calm	08:23	11.0	Middle	5.5	0.4	263	19.8	19.8	8.0	8.0	29.8	29.8	103.3	103.3	8.0	0.0	3.2	3.1	3	3	822100	817826
00	····oty	04	00.20		madio	5.5	0.4	257	19.8		8.0	0.0	29.8	20.0		100.0	8.0		3.2	0	3	Ü	022.00	011020
					Bottom	10.0	0.4	273	19.8	19.8	8.0	8.0	29.8	29.8	103.1 103.1	103.1	7.9	7.9	3.9		3			
						10.0	0.4	274	19.8		8.0		29.8				7.9		4.0		3			
					Surface	1.0	0.3	5	18.5	18.5	8.0	8.0	31.1	31.1	98.6 98.7	98.7	7.7		7.9	1	4			
						1.0	0.3	10	18.5		8.0		31.1				7.7	7.7	8.0		4			
IM1	Cloudy	Moderate	08:02	6.3	Middle	3.2	0.3	21	18.5	18.5	8.0	8.0	31.1	31.1	99.3 99.5	99.4	7.7		8.3	8.9	4	4	818365	806473
						3.2 5.3	0.3	20	18.5		8.0		31.1						8.5	-	3			
					Bottom	5.3	0.2	12 11	18.4 18.3	18.4	8.0	8.0	31.2	31.2	101.3	101.5	7.9 7.9	7.9	10.5 10.5	4	3			
						1.0	0.2	7	18.3			1							9.6	1	3			
					Surface	1.0	0.2	359	18.5	18.5	8.0	8.0	31.1	31.1	98.7 98.9	98.8	7.7		9.6	4	2			
						3.5	0.2	359	18.5		8.0		31.1				7.7	7.7	11.5	1	4			
IM2	Cloudy	Moderate	08:06	6.9	Middle	3.5	0.2	355	18.5	18.5	8.0	8.0	31.1	31.1	99.4 99.5	99.5	7.8		11.8	11.3	3	4	819171	806218
						5.9	0.3	20	18.5		8.0		31.1		99.9		7.8		12.3	1	4			
					Bottom	5.9	0.2	23	18.5	18.5	8.0	8.0	31.1	31.1	100.1	100.0	7.8	7.8	12.7	1	5			
						1.0	0.2	353	18.8		8.0		29.7				7.7		4.5		4		1	
					Surface	1.0	0.2	349	18.8	18.8	8.0	8.0	29.7	29.7	98.6 98.6	98.6	7.7		4.6	1	5		1	
	<u>.</u>					4.3	0.2	1	18.6		8.1	l	30.4		99.4		7.8	7.8	6.5	1	4			
IM7	Cloudy	Moderate	08:27	8.6	Middle	4.3	0.2	1	18.6	18.6	8.1	8.1	30.4	30.4	99.5	99.5	7.8		6.6	5.9	2	4	821344	806811
						7.6	0.2	19	18.6		8.1	<u> </u>	30.4			<u> </u>	7.8		6.7	1	3		1	
					Bottom	7.6	0.2	24	18.6	18.6	8.1	8.1	30.4	30.4	99.9	100.0	7.8	7.8	6.8	1	3		1	
DA: Depth-Aver	hane																							

DA: Depth-Averaged

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

Water Quar	,	<u>-</u>			O7 Warch 25	during wild		-																
Monitoring	Weather	Sea	Sampling	Water	0 " 0		Current Speed	Current	Water Te	mperature (°C)		рН	Salin	ity (ppt)		aturation %)	Disso		Turbidity	(NTU)	Suspender (mg/		Coordinate	Coordinate
Station	Condition	Condition	Time	Depth (m)	Sampling Dept	in (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	HK Grid (Northing)	HK Grid (Easting)
	l					1.0	0.2	285	19.8		8.1		29.9		103.8		8.0		3.9		4			
					Surface	1.0	0.2	286	19.8	19.8	8.1	8.1	29.9	29.9	103.9	103.9	8.0		3.9	1	4			
						5.0	0.3	292	19.8		8.1		29.9		103.9		8.0	8.0	5.0	1	4			
IM10	Misty	Calm	09:29	10.0	Middle	5.0	0.2	293	19.8	19.8	8.1	8.1	29.9	29.9	103.9	103.9	8.0		5.0	5.1	2	3	822246	809861
					_	9.0	0.3	318	19.8		8.1		29.8		104.2		8.0		6.4	1	3			
					Bottom	9.0	0.3	311	19.8	19.8	8.0	8.1	29.8	29.8	104.3	104.3	8.0	8.0	6.4		2			
						1.0	0.3	284	19.8		8.0	i i	30.0		103.9		8.0		3.2		3			
					Surface	1.0	0.3	276	19.8	19.8	8.1	8.0	30.0	30.0	103.8	103.9	8.0	0.0	3.2		4			
15.444	B 41 - 11 -	0-1	00.00	7.4	BAC-L-III-	3.7	0.3	265	19.8	40.0	8.1	0.4	30.0	00.0	103.8	400.0	8.0	8.0	3.9	4.1	3		004.400	040500
IM11	Misty	Calm	09:22	7.4	Middle	3.7	0.4	258	19.8	19.8	8.1	8.1	30.0	30.0	103.7	103.8	8.0		3.9	4.1	4	4	821499	810523
					5	6.4	0.4	277	19.8	40.0	8.1		29.9		103.7	400 =	8.0		5.1		4			
					Bottom	6.4	0.4	284	19.8	19.8	8.1	8.1	29.9	29.9	103.6	103.7	8.0	8.0	5.1		5			
					0	1.0	0.3	275	19.8	40.0	8.0	0.0	29.9	00.0	103.3	400.0	8.0		3.3		4			
					Surface	1.0	0.3	272	19.8	19.8	8.0	8.0	29.9	29.9	103.3	103.3	8.0	0.0	3.3		3			
IMAG	Minter	Colon	00.47	0.0	NA: dalla	4.1	0.3	271	19.8	10.0	8.0	0.0	29.9	20.0	103.3	103.3	8.0	8.0	4.0	4.0	3		004400	044500
IM12	Misty	Calm	09:17	8.2	Middle	4.1	0.3	272	19.8	19.8	8.1	8.0	29.9	29.9	103.3	103.3	8.0		4.0	4.3	4	4	821169	811500
					Bottom	7.2	0.3	287	19.8	19.8	8.1	8.1	29.9	29.9	103.3	103.3	8.0	8.0	5.6		5			
					Bollom	7.2	0.3	289	19.8	19.8	8.1	8.1	29.9	29.9	103.3	103.3	8.0	8.0	5.6		4			
					Curfoss	1.0	0.0	214	19.7	40.7	8.1	0.4	29.9	20.0	100.6	400.0	7.8		1.8		6			
					Surface	1.0	0.0	206	19.7	19.7	8.1	8.1	29.9	29.9	100.6	100.6	7.8	7.8	1.9	1	5			
SR1A	Mioty	Colm	08:57	5.0	Middle	2.5	0.1	208	-		-		-		-		-	7.8	-	2.3	-	4	819981	812664
SKIA	Misty	Calm	06.57	5.0	ivildale	2.5	0.1	214	-	-	-		-	-	-	-	-		-	2.3	-	4	019901	012004
					Bottom	4.0	0.0	223	19.7	19.7	8.1	8.1	29.9	29.9	100.7	100.9	7.8	7.8	2.8		3			
					Bottom	4.0	0.1	226	19.7	13.7	8.1	0.1	29.9	23.3	101.1	100.3	7.8	7.0	2.7		2			
					Surface	1.0	0.0	247	19.8	19.8	8.0	8.0	29.9	29.9	103.4	103.4	8.0		3.9		4			
					Gundoo	1.0	0.0	244	19.8	10.0	8.0	0.0	29.9	20.0	103.4	100.4	8.0	8.0	3.9		3			
SR2	Misty	Calm	08:43	4.8	Middle	-	0.0	243	-	_	-	J .	-	_	-	_	-	0.0	-	4.7	-	4	821478	814168
OILE	iviloty	Odim	00.40	4.0	Wilddie	-	0.1	246	-		-		-		-		-		-	3.7	-	7	021470	014100
					Bottom	3.8	0.1	269	19.6	19.6	8.0	8.0	29.9	29.9	103.5	103.6	8.0	8.0	5.5		4			
					20110111	3.8	0.1	265	19.6		8.0	0.0	29.9	20.0	103.6		8.0	0.0	5.5		4			
					Surface	1.0	0.3	350	18.8	18.8	7.9	7.9	29.2	29.3	98.2	98.2	7.7		3.7		4			
						1.0	0.3	353	18.8		7.9		29.3		98.1		7.7	7.7	4.3		4			
SR3	Cloudy	Moderate	08:34	9.2	Middle	4.6	0.4	359	18.7	18.7	7.9	7.9	30.2	30.2	97.7	97.7	7.6		7.0	6.9	4	4	822144	807550
						4.6	0.4	5	18.7		7.9		30.2		97.7		7.6		7.0		4			
				I	Bottom	8.2	0.3	6	18.6	18.6	7.9	7.9	30.3	30.3	97.7	97.7	7.6	7.6	9.4	4	5			
			1	<u> </u>		8.2	0.4	3	18.6		7.9	1	30.3		97.7		7.6		9.9		4			
					Surface	1.0	0.0	220	18.5	18.5	8.0	8.0	30.5	30.5	96.4	96.4	7.5		7.9	4	3			
						1.0	0.0	225	18.5		8.0	-	30.5		96.4		7.5	7.5	7.9	4	4			
SR4A	Cloudy	Moderate	07:17	8.0	Middle	4.0	0.0	200	18.5	18.5	7.9	7.9	30.5	30.5	96.3	96.3	7.5		8.2	8.0	3	4	817173	807823
						4.0	0.0	196	18.5		7.9	1	30.5		96.3		7.5		8.2	4	4			
					Bottom	7.0 7.0	0.1	199	18.5	18.5	7.9	7.9	30.5	30.5	96.2 96.2	96.2	7.5 7.5	7.5	8.0 8.1	4	4			
				1			0.1	199	18.5			<u> </u>												
				1	Surface	1.0	-	-	19.8	19.8	8.1	8.1	29.9	29.9	102.9 102.9	102.9	7.9		3.2	1 1	6 5			
				1		1.0	-	-	19.8		8.1	+	29.9		102.9		7.9	7.9	3.2	-				
SR8	Misty	Calm	09:14	5.0	Middle	-	-	-	-	-	-		-	-	-	-	-		-	3.6	-	5	820371	811636
				1		4.0	-	-	19.7		8.1	+	29.9		102.8		7.9		3.9	-	4			
				1	Bottom	4.0	-	-	19.7	19.7	8.1	8.1	29.9	29.9	102.8	102.8	7.9	7.9	3.9	-	3			
					1	4.0	_	-	19.7		ö. l	I	29.9		102.8		7.9		3.9		3		l	

DA: Depth-Averaged

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

Water Qual	ity wonit	oring Resu	its on		09 March 23	during Mid-	EDD HOE	;																
Monitoring	Weather	Sea	Sampling	Water	Sampling Dept	h (m)	Current Speed	Current	Water Te	mperature (°C)	рН	ı	Salin	ity (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 A	verage	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
						1.0	0.2	194	19.7		8.2		30.1		99.8		7.6		3.3		4			
					Surface	1.0	0.2	186	19.8	19.8	8.2	8.2	30.1	30.1	99.8 99.8	99.8	7.6		3.3	1	4			
						4.2	0.2	204	19.2		8.1		30.9				7.5	7.6	7.8	1	2			
C1	Misty	Moderate	13:48	8.4	Middle	4.2	0.1	208	19.2	19.2	8.1	8.1	31.0	31.0	97.7 97.7	97.7	7.5		7.2	6.8	4	4	815619	804253
					Bottom	7.4	0.2	196	19.1	19.2	8.1	8.1	31.0	31.0	98.1 98.2	98.2	7.6	7.6	9.5	1	3			
					Bollom	7.4	0.2	200	19.2	19.2	8.1	8.1	31.0	31.0	98.2	98.2	7.6	7.6	9.9		4			
					Surface	1.0	0.1	21	19.9	19.9	8.1	8.1	28.2	28.3	93.7	93.7	7.2		4.1		4			
					Sulface	1.0	0.1	20	19.9	19.9	8.1	0.1	28.3	20.5	93.7 93.6	93.1	7.2	7.2	4.1		5			
C2	Misty	Moderate	12:31	11.2	Middle	5.6	0.0	44	19.8	19.8	8.1	8.1	28.5	28.5	93.4	93.4	7.2	1.2	4.4	6.0	3	4	825687	806923
O2	Wilsty	Moderate	12.51	11.2	ivildale	5.6	0.1	38	19.8	13.0	8.2		28.5	20.5	93.4	33.4	7.2		4.2	0.0	4	7	023007	000323
					Bottom	10.2	0.0	48	19.8	19.8	8.1	8.1	28.6	28.5	93.6 93.8	93.7	7.2	7.2	9.6		3			
					5000000	10.2	0.0	52	19.8	.0.0	8.1	0	28.5	20.0		00	7.2		9.9		3			
					Surface	1.0	0.4	85	19.1	19.1	7.7	7.7	30.7	30.8	92.3 92.2	92.3	7.1		3.6		5			
						1.0	0.3	84	19.1		7.7		30.8				7.1	7.1	3.5		6			
С3	Misty	Moderate	13:36	9.0	Middle	4.5	0.3	70	19.0	19.0	7.6 7.6	7.6	30.9	30.9	92.1 92.1	92.1	7.1		4.8	4.6	3	4	822098	817781
	- ,					4.5	0.3	66	19.0				30.9			_	7.1		4.8		4			
					Bottom	8.0	0.3	70	19.0	19.0	7.6	7.6	30.9	30.9	92.3 92.4	92.4	7.1	7.1	5.6	1	3			
						8.0	0.3	72	19.0		7.6		30.9				7.1		5.6		3			
					Surface	1.0 1.0	0.1	177 172	19.7 19.6	19.7	8.1	8.1	30.1	30.2	98.2 98.0	98.1	7.5 7.5		5.7 6.1		5 4			
						3.2	0.1	171									7.5	7.5		4	4			
IM1	Misty	Moderate	13:31	6.4	Middle	3.2	0.1 0.1	171	19.3 19.3	19.3	8.1	8.1	30.5	30.5	97.3 97.3	97.3	7.5		8.2 8.3	7.8	4	4	818349	806452
						5.4	0.1	176	19.3		0.1		30.6		97.5		7.5		9.3	1	4			
					Bottom	5.4	0.1	182	19.3	19.3	8.1	8.1	30.6	30.6	97.5	97.5	7.5	7.5	9.5	1	4			
						1.0	0.0	180	19.7		0.2		30.1				7.5		5.7		5			
					Surface	1.0	0.1	173	19.7	19.7	8.2	8.2	30.1	30.1	98.3 98.1	98.2	7.5		6.0	1	4			
						3.5	0.1	157	19.4		8.1		30.3				7.5	7.5	7.5	1	5			
IM2	Misty	Moderate	13:27	6.9	Middle	3.5	0.1	150	19.4	19.4	8.1	8.1	30.3	30.3	96.8 96.9	96.9	7.5		7.7	7.9	4	5	819175	806230
						5.9	0.1	177	19.3		8.1		30.4		97.0		7.5		9.6	1	5			
					Bottom	5.9	0.0	178	19.3	19.3	8.1	8.1	30.4	30.4	97.1	97.1	7.5	7.5	10.6	1	5			
					0	1.0	0.2	64	19.8	40.0	8.1	0.4	29.5	00.5		05.0	7.3		7.6		4			
					Surface	1.0	0.2	70	19.8	19.8	8.1	8.1	29.5	29.5	95.7 95.8	95.8	7.3	7.4	8.0	1	4			
IM7	Mioty	Modoroto	13:04	8.3	Middle	4.2	0.1	74	19.8	19.8	8.1	8.0	29.6	29.6	96.2	96.2	7.4	7.4	9.1	8.0	5	5	821332	806821
IIVI /	Misty	Moderate	13:04	0.3	iviidale	4.2	0.1	78	19.8	19.8	8.0	0.0	29.6	29.0	96.2	90.2	7.4		9.2	6.0	6	5	021332	000821
					Bottom	7.3	0.2	52	19.8	19.8	8.0	8.0	29.6	29.6	96.6 96.7	96.7	7.4	7.4	7.2		6			
					DULLUIII	7.3	0.1	50	19.8	19.0	8.0	0.0	29.6	29.0	96.7	90.7	7.4	7.4	7.0		5			
A. Depth-Aver						·																		

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

Water Quar	ty moint	ornig itesa	113 011		U9 March 23	auring wia-	LDD IIG																	
Monitoring	Weather	Sea	Sampling	Water	Sampling Dep	th (m)	Current Speed	Current	Water Te	emperature (°C)	p	ЭΗ	Salin	ity (ppt)		aturation (%)	Disso Oxy	olved gen	Turbidity	(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dep	ur (III)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.1	56	19.4	19.5	7.7	7.7	28.8	28.9	94.7	94.7	7.3		6.0		3			
					Gunace	1.0	0.0	62	19.5	19.5	7.7	7.7	28.9	20.3	94.7	34.7	7.3	7.3	6.1		4			
IM10	Misty	Moderate	12:33	9.6	Middle	4.8	0.1	46	19.5	19.5	7.7	7.7	29.3	29.3	95.0	95.1	7.3	7.0	7.4	7.2	5	4	822234	809842
		moderate	12.00	0.0	madio	4.8	0.1	44	19.5	.0.0	7.7	• • • •	29.3	20.0	95.1	00	7.3		7.4	1	4	·	OLLLO.	0000.2
					Bottom	8.6	0.0	50	19.5	19.5	7.7	7.7	29.2	29.1	95.3	95.4	7.4	7.4	8.0	1	4			
						8.6	0.0	45	19.5		7.7		29.0		95.4		7.4		8.0		5			
					Surface	1.0	0.1	76	19.3 19.3	19.3	7.8	7.8	28.9	28.9	95.3 95.3	95.3	7.4		2.9	4	<u>3</u>			
						3.2	0.1	74 86	19.3		7.8		29.0		95.6		7.4 7.4	7.4	2.8 3.8	-	4			
IM11	Misty	Moderate	12:42	6.4	Middle	3.2	0.1	86	19.3	19.3	7.8	7.8	29.0	29.0	95.7	95.7	7.4		3.8	3.8	3	3	821503	810559
						5.4	0.2	69	19.3		7.8		29.3		97.5		7.6		4.8	1	3			
					Bottom	5.4	0.1	71	19.3	19.3	7.8	7.8	29.3	29.3	100.7	99.1	7.8	7.7	4.8	1	3			
						1.0	0.2	90	19.7		7.7		28.8		95.7		7.4		3.9	<u> </u>	2			
					Surface	1.0	0.1	84	19.7	19.7	7.7	7.7	28.8	28.8	95.8	95.8	7.4		4.0	1	3			
			40.40	- 0		3.9	0.1	83	19.6	40.0	7.7		29.2		96.5		7.4	7.4	4.4	1	4			044500
IM12	Misty	Moderate	12:48	7.8	Middle	3.9	0.1	76	19.6	19.6	7.7	7.7	29.2	29.2	96.6	96.6	7.5		4.4	4.6	4	4	821171	811530
					Bottom	6.8	0.2	88	19.4	19.4	7.7	7.7	29.7	29.6	98.9	99.0	7.6	7.7	5.4		4			
					BOILOITI	6.8	0.2	81	19.4	19.4	7.7	7.7	29.6	29.0	99.1	99.0	7.7	7.7	5.3		4			
					Surface	1.0	0.0	45	19.5	19.5	7.7	7.7	29.8	29.8	93.9	93.9	7.2		5.8		4			
					Sunace	1.0	0.1	43	19.5	19.5	7.7	1.1	29.8	29.0	93.8	33.3	7.2	7.2	5.8		5			
SR1A	Misty	Moderate	13:03	5.6	Middle	2.8	0.0	26	-	_	-	_	-	_	-		-	1.2	-	6.0	-	5	819977	812656
OKIA	iviloty	Woderate	13.03	3.0	Middle	2.8	0.1	20	-		-		-		-	_	-		-	0.0	-	3	013377	012000
					Bottom	4.6	0.0	52	19.4	19.4	7.7	7.7	29.8	29.8	93.8	93.9	7.2	7.2	6.2		6			
					Bottom	4.6	0.1	45	19.4		7.7	• • • •	29.8	20.0	93.9	00.0	7.2		6.3		6			
					Surface	1.0	0.2	64	19.9	19.9	7.7	7.7	29.7	29.7	96.4	96.4	7.4		2.0	1	5			
						1.0	0.2	71	19.9		7.7		29.7		96.4		7.4	7.4	2.1	1	5			
SR2	Misty	Moderate	13:20	5.0	Middle	-	0.2	42	-	-	-	-	-	-	-	-	-		-	3.0	-	5	821451	814166
						-	0.2	45	-		-						- 7.4		-	1	-			
					Bottom	4.0	0.2	25	19.4	19.4	7.7	7.7	30.0	30.0	96.0 95.4	95.7	7.4 7.3	7.4	4.0 4.0	4	<u>6</u> 5			
						1.0	0.2	21 77	19.4 19.9		_		28.3						5.7		4			
					Surface	1.0	0.1	69	19.9	19.9	8.1	8.1	28.4	28.4	94.9	94.9	7.3 7.3		5.8	1	3			
						4.2	0.1	96	19.8		8.1		28.6		95.3		7.3	7.3	7.0	1	4			
SR3	Misty	Moderate	12:58	8.4	Middle	4.2	0.1	97	19.8	19.8	8.1	8.1	28.7	28.6	95.3	95.3	7.3		7.1	7.0	3	4	822140	807580
						7.4	0.0	96	19.8		8.0		29.4		96.1		7.4		8.1	1	5			
					Bottom	7.4	0.0	101	19.8	19.8	8.0	8.0	29.3	29.3	96.2	96.2	7.4	7.4	8.2	1	5			
					0	1.0	0.0	63	19.8	40.0	8.1	0.4	30.0	00.0	97.4	07.4	7.4		7.0		4			
					Surface	1.0	0.0	60	19.8	19.8	8.1	8.1	30.0	30.0	97.3	97.4	7.4	7.4	7.1	1	3			
SR4A	Misty	Moderate	14:12	8.4	Middle	4.2	0.0	84	19.7	19.7	8.1	8.1	30.0	30.0	97.3	97.3	7.4	7.4	8.2	7.9	5	5	817195	807816
SN4A	iviisty	Moderate	14.12	0.4	Middle	4.2	-	79	19.7	19.7	8.1	0.1	30.0	30.0	97.3	91.5	7.5		8.7	7.9	4	3	017193	007010
					Bottom	7.4	0.1	70	19.8	19.8	8.1	8.1	30.0	30.0	97.6	97.6	7.5	7.5	8.2		5			
					Dottom	7.4	0.1	76	19.8	10.0	8.1	0.1	30.0	55.0	97.6	57.0	7.5	7.5	8.0		6			
					Surface	1.0	-	-	19.5	19.5	7.7	7.7	29.7	29.6	95.8	95.9	7.4		4.6	1	4			
						1.0	-	-	19.5		7.7	•••	29.6		95.9		7.4	7.4	4.6	4	4			
SR8	Misty	Moderate	12:54	5.4	Middle	-	-	-	-	-	-	-	-	-	-	-	-		-	4.6	-	4	820373	811616
	•					-	-	•	-		-		-		- 07.4		-		-	4	-			
					Bottom	4.4	-	-	19.8 19.9	19.9	7.7	7.7	29.4	29.4	97.1 100.5	98.8	7.5 7.7	7.6	4.6 4.6	-	4			
						4.4	-	-	19.9		1.1		29.4		100.5		1.1		4.6	<u> </u>	4			

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

Water Qualit	ty Monito	oring Kesu	its on		09 March 23	during Mid-	Flood II	de																
Monitoring	Weather	Sea	Sampling	Water	Sampling Dep	th (m)	Current Speed	Current	Water Te	emperature (°C)		рН	Salir	nity (ppt)		Saturation (%)	Disso Oxy		Turbidity	(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)
					0	1.0	0.4	39	19.4	40.4	8.1	0.4	30.1	00.4	96.9	00.0	7.5		7.6		4			
					Surface	1.0	0.4	43	19.4	19.4	8.1	8.1	30.2	30.1	96.9 96.8	96.9	7.5	7.5	7.9		5			
C4	Minter	Madazata	00.54	0.5	M: dalla	4.3	0.3	28	19.3	19.3	8.0	0.0	30.3	30.3	96.6	96.7	7.4	7.5	9.6	10.0	3	3	045005	004004
C1	Misty	Moderate	08:54	8.5	Middle	4.3	0.3	34	19.3	19.3	8.0	8.0	30.3	30.3	96.7	96.7	7.4		10.0	10.0	3	3	815635	804234
					Detter	7.5	0.4	49	19.4	19.4	8.0	0.0	30.3	20.2	96.8	96.8	7.5	7.5	12.9		3			
					Bottom	7.5	0.4	55	19.4	19.4	8.0	8.0	30.3	30.3	96.8 96.8	96.8	7.4	7.5	12.2		2			
					Surface	1.0	0.4	346	19.9	19.9	8.1	8.1	28.3	28.3	94.1	94.1	7.3		4.8		3			
					Surface	1.0	0.4	349	19.9	19.9	8.1	0.1	28.4	28.3	94.1	94.1	7.3	7.3	5.0		2			
C2	Misty	Moderate	10:03	11.9	Middle	6.0	0.4	10	19.8	19.8	8.0	8.0	28.8	28.8	94.3 94.4	94.4	7.3 7.3	7.5	6.3	6.9	3	3	825697	806965
02	iviloty	Woderate	10.05	11.5	Middle	6.0	0.4	17	19.8	19.0	8.0	0.0	28.8	20.0		34.4			6.7	0.3	4	3	023037	000303
					Bottom	10.9	0.4	18	19.8	19.8	8.0	8.0	28.8	28.8	95.0	95.1	7.3	7.3	9.5		3			
					Bottom	10.9	0.4	15	19.8	10.0	8.0	0.0	28.8	20.0	95.2	00.1	7.3	7.0	9.3		4			
					Surface	1.0	0.5	276	18.9	18.9	7.7	7.7	30.7	30.7	91.2 91.1	91.2	7.1		4.8		7			
					Cundoo	1.0	0.4	278	18.9	.0.0	7.7		30.7			02	7.1	7.1	4.7		6			
C3	Misty	Moderate	09:01	12.0	Middle	6.0	0.5	281	18.9	18.9	7.7	7.7	30.7	30.7	90.9	90.9	7.0		5.0	5.3	6	6	822125	817812
	. ,					6.0	0.5	277	18.9		7.7		30.7				7.0		5.1		5			
					Bottom	11.0	0.5	251	18.9	18.9	7.7	7.7	30.6	30.6	91.1	91.1	7.1	7.1	6.2		5			
						11.0	0.5	247	18.9		7.7		30.6				7.1		6.2	ļ	5			
					Surface	1.0	0.3	6	19.5	19.5	8.1 8.1	8.1	30.1	30.1	96.9 96.8	96.9	7.4		6.1	-	3			
						1.0 3.2	0.2	11 18	19.5				30.1				7.4 7.4	7.4	5.8 9.9	-	3			
IM1	Misty	Moderate	09:14	6.4	Middle	3.2	0.3	12	19.4 19.4	19.4	8.1 8.1	8.1	30.1	30.1	96.3 96.3	96.3	7.4		9.9	9.0	3	3	818366	806481
						5.4	0.3	35	19.4		8.1		30.1				7.4		11.5	-	4			
					Bottom	5.4	0.3	32	19.4	19.4	8.0	8.0	30.1	30.1	96.4 96.5	96.5	7.4	7.4	11.1	-	3			
						1.0	0.3	8	19.5		8.1		30.0		97.2		7.5		10.1		4			
					Surface	1.0	0.3	9	19.5	19.5	8.1	8.1	30.0	30.0	97.1	97.2	7.5		10.5		4			
						3.3	0.3	29	19.5		8.1		30.1				7.5	7.5	11.5	1	4			
IM2	Misty	Moderate	09:18	6.6	Middle	3.3	0.2	23	19.5	19.5	8.0	8.0	30.1	30.1	97.2 97.2	97.2	7.5		11.6	11.2	3	4	819168	806223
					5	5.6	0.3	350	19.5	10.5	8.0		30.1						11.8		2			
					Bottom	5.6	0.2	351	19.5	19.5	8.0	8.0	30.1	30.1	97.4 97.5	97.5	7.5 7.5	7.5	11.9		4			
	i				0(1.0	0.3	10	19.8	40.0	8.1	0.4	29.1	00.4		05.4	7.3		5.7		2			
					Surface	1.0	0.3	11	19.8	19.8	8.1	8.1	29.1	29.1	95.1 95.1	95.1	7.3	7.3	6.0	1	3			
IM7	Misty	Moderate	09:39	7.8	Middle	3.9	0.3	14	19.8	19.8	8.1	8.1	29.6	29.6	95.0 95.0	95.0	7.3	1.3	8.0	7.3	4	3	821330	806823
IIVI /	iviioty	wouerate	09.39	1.0	iviidale	3.9	0.3	15	19.8	19.0	8.1	0.1	29.6	29.0		95.0	7.3		8.0	1.3	4	3	021330	000023
]		Bottom	6.8	0.3	358	19.8	19.8	8.0	8.0	29.5	29.5	95.7	95.8	7.3	7.4	8.1		3			
					BOROTT	6.8	0.2	356	19.8	19.0	8.0	0.0	29.5	29.5	95.8	53.0	7.4	7.4	8.2		4			

DA: Depth-Averaged

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

water Quai	ity wont	oring Kesu	112 011		09 March 23	auring Mia-	riooa ii	ue																
Monitoring	Weather	Sea	Sampling	Water	Sampling Dept	h (m)	Current Speed	Current	Water Te	emperature (°C)	ı	ЭΗ	Salin	ity (ppt)		aturation (%)	Disso Oxy		Turbidity	(NTU)	Suspended (mg/l		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dept	11 (111)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.3	292	19.4	19.4	7.7	7.7	28.9	28.9	95.6	95.7	7.4		5.1		7			
					Sulface	1.0	0.3	285	19.4	15.4	7.7	7.7	29.0	20.5	95.7	93.1	7.4	7.4	5.0		6			
IM10	Misty	Moderate	10:08	8.4	Middle	4.2	0.3	308	19.4	19.4	7.7	7.7	29.5	29.5	95.7	95.8	7.4	7.4	6.2	6.2	7	7	822239	809821
110110	iviisty	Woderate	10.00	0.4	Wilddle	4.2	0.3	313	19.4	13.4	7.7	7.7	29.5	23.5	95.8	33.0	7.4		6.3	0.2	7	,	022233	003021
					Bottom	7.4	0.3	314	19.6	19.6	7.7	7.7	29.7	29.7	96.3	96.7	7.4	7.5	7.4		8			
					Bottom	7.4	0.3	309	19.6	10:0	7.7		29.7	20.7	97.0	50.1	7.5	7.0	7.5		7			
					Surface	1.0	0.4	295	19.4	19.4	7.7	7.7	29.5	29.5	96.0	96.0	7.4		3.0		9			
						1.0	0.3	300	19.4		7.7		29.6		96.0		7.4	7.4	3.1		8			
IM11	Misty	Moderate	10:01	7.4	Middle	3.7	0.4	267	19.3	19.3	7.7	7.7	29.7	29.7	96.2	96.3	7.4		4.5	4.4	7	7	821497	810552
	. ,					3.7	0.3	264	19.3		7.7		29.8		96.4		7.5		4.5		6			
					Bottom	6.4	0.4	295	19.1	19.1	7.7	7.7	29.9	30.0	97.1	97.4	7.5	7.6	5.6		4			
						6.4	0.3	293	19.0		7.7		30.0		97.7		7.6		5.7		5			
					Surface	1.0	0.3	282	19.4	19.4	7.8	7.8	29.7	29.7	95.8	95.9	7.4		4.3		5			
						1.0	0.3	285	19.4		7.8		29.7		95.9		7.4	7.4	4.3		4			
IM12	Misty	Moderate	09:55	8.0	Middle	4.0	0.3	271	19.3	19.3	7.8	7.8	29.7	29.7	96.1	96.1	7.4		5.2	5.3	4	5	821171	811499
	,					4.0	0.3	271	19.3		7.8		29.8		96.1		7.4		5.2		5			
					Bottom	7.0	0.4	305	19.3	19.3	7.8	7.8	29.7	29.7	96.6 96.8	96.7	7.5	7.5	6.3		5			
						7.0	0.3	301	19.3		7.8		29.7				7.5		6.4		5			
					Surface	1.0	0.0	180	19.4	19.4	7.7	7.7	29.9	29.9	95.7 95.8	95.8	7.4		3.4		4			
						1.0 2.4	0.0	182 179	19.4		7.7		30.0		95.8		7.4	7.4	3.3		4			
SR1A	Misty	Moderate	09:35	4.8	Middle	2.4	0.0	179	-	-	-	-		-	-	-	-		-	3.7	-	4	819976	812658
						3.8	0.0	209	19.3		7.7		30.0		95.9		7.4		4.0		3			
					Bottom	3.8	0.0	215	19.3	19.3	7.7	7.7	30.0	30.0	96.5	96.2	7.5	7.5	4.0		4			
						1.0	0.0	255	19.6		7.7		29.7		98.4		7.6		2.8		4			
					Surface	1.0	0.1	261	19.6	19.6	7.7	7.7	29.7	29.7	98.7	98.6	7.6		2.7		4			
						-	0.0	231	-		-		-		-		-	7.6	-		-			
SR2	Misty	Moderate	09:21	5.0	Middle	_	0.0	238	-	-	-	-	-	-	-	-	-		_	3.0	_	4	821465	814183
						4.0	0.0	255	19.8		7.7		29.6		100.1		7.7		3.3		5			
					Bottom	4.0	0.0	254	19.8	19.8	7.7	7.7	29.6	29.6	100.3	100.2	7.7	7.7	3.3		4			
					0	1.0	0.3	340	19.9	40.0	8.1	0.4	28.4	00.5	95.1	05.4	7.3		4.0		3			
					Surface	1.0	0.3	344	19.9	19.9	8.1	8.1	28.6	28.5	95.1	95.1	7.3	7.3	3.9		3			
SR3	Minter	Madazata	00.45	9.2	Middle	4.6	0.3	332	19.8	19.8	8.1	8.1	29.5	29.5	95.0	95.0	7.3	7.3	8.0	6.5	3	4	822157	807594
SKS	Misty	Moderate	09:45	9.2	ivildale	4.6	0.3	325	19.8	19.0	8.1	0.1	29.5	29.5	95.0	95.0	7.3		7.2	0.5	4	4	022137	607594
					Bottom	8.2	0.3	333	19.8	19.8	8.1	8.1	29.6	29.6	95.1	95.1	7.3	7.3	8.1		4			
					DOMONI	8.2	0.3	332	19.8	13.0	8.1	0.1	29.6	23.0	95.1	33.1	7.3	1.5	8.1		6			
					Surface	1.0	0.1	186	19.8	19.8	8.2	8.2	29.6	29.6	96.1	96.1	7.4		8.8		3			
					Guilace	1.0	0.1	181	19.8	13.0	8.2	0.2	29.6	23.0	96.1	30.1	7.4	7.4	8.9		2			
SR4A	Misty	Moderate	08:29	9.2	Middle	4.6	0.1	194	19.8	19.8	8.2	8.2	29.7	29.7	96.0	96.1	7.4	7	11.2	10.9	2	3	817185	807819
5			00.20	V.2	11110010	4.6	0.0	187	19.8		8.2		29.7		96.1	00	7.4		11.5	1	3	Ŭ	303	00.0.0
					Bottom	8.2	0.0	163	19.8	19.8	8.2	8.2	29.7	29.7	96.3	96.3	7.4	7.4	12.6		3			
						8.2	0.0	167	19.8		8.2		29.7		96.3		7.4		12.6		4			
					Surface	1.0	-	-	19.8	19.8	7.7	7.7	29.6	29.6	97.8	97.8	7.5		3.7	1	4			
						1.0	-	-	19.7		7.7		29.6		97.8		7.5	7.5	3.7	1	5			
SR8	Misty	Moderate	09:50	5.8	Middle	-	-	-	-	-	-	-	-	-	-	-	-		-	3.9	-	5	820406	811631
						-	-	-	- 10.0		-		-		-		-		-		-			
					Bottom	4.8	-	-	19.3	19.4	7.7	7.7	29.6	29.6	98.5	98.6	7.6	7.6	4.1	-	5			
						4.8	-	-	19.4		7.7		29.6		98.6		7.6		4.2		5			

DA: Depth-Averaged

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

water Qua	ity Wolling	orning itesu	113 011		11 March 25	auring wia-																		
Monitoring	Weather	Sea	Sampling	Water	Sampling Dept	th (m)	Current Speed	Current	Water To	emperature (°C)		pН	Salinit	ty (ppt)	DO S	Saturation (%)	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	0.4	213	19.5	19.5	8.1	8.1	31.6	31.6	102.9 102.9	102.9	7.5		8.5		14			
					Surface	1.0	0.4	217	19.5	19.5	8.1	0.1	31.6	31.0	102.9	102.9	7.5	7.5	8.6		15			
C1	Sunny	Moderate	15:46	7.9	Middle	4.0	0.5	219	19.5	19.5	8.1	8.1	31.7	31.7	98.2 98.2	98.2	7.5	7.5	9.5	10.8	14	14	815620	804239
C1	Suring	Moderate	13.40	7.5	Middle	4.0	0.5	216	19.4	19.5	8.1	0.1	31.7	31.7		90.2	7.5		9.6	10.6	13	14	813020	804239
					Bottom	6.9	0.4	223	19.3	19.3	8.1	8.1	32.2	32.2	98.2 98.2	98.2	7.5	7.5	14.2		13			
					Dottom	6.9	0.3	219	19.3	19.5	8.1	0.1	32.2	52.2		30.2	7.5	7.5	14.3		14			
					Surface	1.0	0.1	162	20.1	20.1	8.0	8.0	28.7	28.7	95.0 95.0	95.0	7.3		3.9		7			
					Gundoo	1.0	0.0	168	20.1	20.1	8.0	0.0	28.7	20.1		50.0	7.3	7.3	3.9		7			
C2	Sunny	Moderate	13:38	8.8	Middle	4.4	0.2	167	19.7	19.7	8.0	8.0	30.2	30.2	94.3	94.4	7.2	7.5	10.9	10.0	9	10	825662	806939
O2	Curiny	Moderate	10.00	0.0	Wilddie	4.4	0.2	162	19.7	10.7	8.0	0.0	30.2	00.2		04.4	7.2		10.9	10.0	10	10	020002	000000
					Bottom	7.8	0.1	169	19.5	19.5	8.0	8.0	30.7	30.7	93.9 93.9	93.9	7.2	7.2	15.2		13			
					50000111	7.8	0.1	169	19.5	.0.0	8.0	0.0	30.7	00		00.0	7.2		15.2		14			
					Surface	1.0	0.3	75	20.2	20.2	8.0	8.0	29.3	29.3	91.4	91.4	7.0		3.6		7			
					Gunado	1.0	0.3	81	20.2	20.2	8.0	0.0	29.3	20.0	91.4	0	7.0	7.0	3.6		8			
C3	Misty	Moderate	14:32	8.8	Middle	4.4	0.3	96	20.2	20.2	8.0	8.0	29.3	29.3	91.4	91.4	7.0	7.0	4.0	4.2	6	6	822091	817815
00	iiiioty	moderate		0.0	madio	4.4	0.4	91	20.2	20.2	8.0	0.0	29.3	20.0	91.4	0	7.0		4.1		5	Ü	022001	0.70.0
					Bottom	7.8	0.4	85	20.2	20.2	8.0	8.0	29.3	29.2	91.5 91.5	91.5	7.0	7.0	5.1		5			
					50000111	7.8	0.3	82	20.2	20.2	8.0	0.0	29.2	20.2		01.0	7.0	1.0	5.2		4			
					Surface	1.0	0.2	178	19.6	19.6	8.1	8.1	31.8	31.8	99.0 99.0	99.0	7.5		7.5		12			
						1.0	0.2	170	19.6		8.1		31.8				7.5	7.5	7.6		12			
IM1	Sunny	Moderate	15:13	7.1	Middle	3.6	0.2	171	19.4	19.4	8.1	8.1	32.0	32.0	98.3 98.3	98.3	7.5		9.3	9.6	13	12	818370	806461
	,					3.6	0.2	171	19.4		8.1		32.0				7.5		9.6		12			
					Bottom	6.1	0.2	185	19.4	19.4	8.1	8.1	31.9	31.9	98.1 98.1	98.1	7.5	7.5	11.6		13			
						6.1	0.2	179	19.4		8.1		31.9				7.5		11.6		12			
					Surface	1.0	0.2	178	19.4	19.4	8.1	8.1	31.6	31.6	97.0	97.0	7.4		12.9		10			
						1.0	0.2	176	19.4		8.1		31.6		97.0		7.4	7.4	12.9		10			
IM2	Sunny	Moderate	14:54	7.3	Middle	3.7	0.2	167	19.3	19.3	8.1	8.1	31.7	31.7	96.8 96.8	96.8	7.4		13.9	14.0	11	11	819192	806236
	-					3.7	0.2	159	19.3		8.1		31.7				7.4		13.9	_	12			
					Bottom	6.3	0.2	173	19.3	19.3	8.1	8.1	31.7	31.7	96.9 96.9	96.9	7.4	7.4	15.2		12			
						6.3	0.3	166	19.3		8.1		31.7				7.4		15.3		12			
					Surface	1.0	0.1	143	20.0	20.0	8.0	8.0	28.8	28.8	95.2 95.2	95.2	7.3		3.0	4	5			
						1.0 4.3	0.2	135 147	19.6				30.5		_	-	7.3	7.3	2.9 6.5	4	4			
IM7	Sunny	Moderate	14:24	8.6	Middle	4.3	0.1	147	19.6	19.6	8.0	8.0	30.5	30.5	93.9	93.9	7.2		6.5	5.5	4	4	821338	806847
						7.6	0.2	146					30.5			-				4	4			
					Bottom	7.6	0.2	144	19.6 19.6	19.6	8.0	8.0	30.5	30.5	93.8	93.8	7.2	7.2	7.1 7.1	-	4			
						7.0	U.Z	140	19.0		ö.U		30.5		93.8		1.2		7.1	<u> </u>	4			

DA: Depth-Averaged

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

Water Quar	,	• · · · · · · · · · · · · · · · · · · ·			11 Maich 25	during mid																	
Monitoring	Weather	Sea	Sampling	Water	Complie - Desi	h (m)	Current Speed	Current	Water Te	emperature (°C)		pН	Salinity (ppt)		aturation (%)	Disso Oxy		Turbidity	(NTU)	Suspender (mg/		Coordinate	Coordinate
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	HK Grid (Northing)	HK Grid (Easting)
						1.0	0.1	74	20.4		8.0		28.3	93.3		7.1		4.1		5			
					Surface	1.0	0.2	68	20.4	20.4	8.0	8.0	28.3	93.3	93.3	7.1		4.2		4			
						4.5	0.1	71	20.4		8.0		28.3	93.4		7.1	7.1	5.3	1	6	_		
IM10	Misty	Moderate	13:34	9.0	Middle	4.5	0.1	78	20.5	20.5	8.0	8.0	28.3	93.6	93.5	7.1		5.4	5.2	6	6	822230	809816
						8.0	0.2	93	20.5		8.0		20.2	93.8		7.2		6.2		7			
					Bottom	8.0	0.2	99	20.6	20.6	7.9	7.9	28.2	93.7	93.8	7.2	7.2	6.1		6			
						1.0	0.3	85	20.2	00.0	7.9		29.2	91.0	04.0	6.9		3.1		5			
					Surface	1.0	0.3	81	20.2	20.2	7.9	7.9	29.2	90.9	91.0	6.9	6.9	3.2		4			
IM11	Minter	Madazata	13:45	6.4	Middle	3.2	0.2	85	20.2	20.2	7.9	7.9	29.2	90.5	90.3	6.9	6.9	4.1	4.3	4	5	821502	810530
IIVI I	Misty	Moderate	13:45	0.4	ivildale	3.2	0.2	90	20.2	20.2	7.9	7.9	29.2	90.1	90.3	6.9		4.2	4.3	5	э	821502	810530
					Datta	5.4	0.3	63	20.2	00.0	7.8	7.0	29.2	89.7	00.5	6.9	6.9	5.6		6			
					Bottom	5.4	0.2	68	20.2	20.2	7.8	7.8	29.2	89.3	89.5	6.8	6.9	5.6		5			
					Curtons	1.0	0.3	100	20.2	20.2	7.9	7.0	29.1	89.8	00.7	6.9		4.0		5			
					Surface	1.0	0.3	99	20.2	20.2	7.9	7.9	29.1	89.6	89.7	6.8	6.8	4.1	1	4			
IM12	Minter	Madazata	40.50	7.0	Middle	3.6	0.2	77	20.2	20.2	7.9	7.9	29.1	89.4	89.3	6.8	6.8	5.1	5.3	5	5	004450	811504
IIVI I Z	Misty	Moderate	13:50	7.2	Middle	3.6	0.2	73	20.2	20.2	7.9	7.9	29.1	89.2	89.3	6.8		5.2	5.3	4	э	821156	811504
					Bottom	6.2	0.3	82	20.2	20.2	7.8	7.8	29.1	88.8	88.5	6.8	6.8	6.8		6			
					Вошот	6.2	0.3	80	20.2	20.2	7.8	7.0	29.1	88.2	00.0	6.7	0.0	6.8	1	5			
					Curtons	1.0	0.0	97	20.3	20.2	8.0	0.0	29.1	91.9	04.0	7.0		6.4		5			
					Surface	1.0	0.1	93	20.3	20.3	8.0	8.0	29.1	91.9	91.9	7.0	7.0	6.4		4			
CD4A	Minter	Madauata	44.05	5.0	Middle	2.5	0.0	112	-		-		-	-		-	7.0	-	6.7	-		040070	040057
SR1A	Misty	Moderate	14:05	5.0	Middle	2.5	0.1	105	-	-	-	1	-	-	-	-		-	6.7	-	4	819979	812657
					Bottom	4.0	0.0	76	20.3	20.3	8.0	7.9	29.1	91.7	91.7	7.0	7.0	7.1		4			
					Bollom	4.0	-	70	20.3	20.3	7.9	7.9	29.1	91.6	91.7	7.0	7.0	7.0		3			
					Surface	1.0	0.3	50	20.2	20.2	8.0	8.0	29.2	90.9	90.9	6.9		4.4		4			
					Surface	1.0	0.2	55	20.2	20.2	8.0	0.0	29.2	90.8	90.9	6.9	6.9	4.4		3			
SR2	Misty	Moderate	14:21	5.8	Middle	-	0.2	45	-	-	-		-	-	_	-	6.9	-	4.8	-	3	821480	814176
SKZ	iviisty	Moderate	14.21	5.6	ivildule	-	0.2	38	-	•	-		-	-	-	-		-	4.0	-	3	021400	014176
					Bottom	4.8	0.2	35	20.2	20.2	8.0	8.0	29.3	90.7	90.6	6.9	6.9	5.1		3			
					Dollom	4.8	0.2	42	20.2	20.2	8.0	0.0	29.3	90.4	90.0	6.9	0.9	5.1		3			
					Surface	1.0	0.2	141	20.1	20.1	8.0	8.0	28.6	95.6	95.6	7.3		2.5		3			
					Odriace	1.0	0.2	145	20.1	20.1	8.0	0.0	28.6	95.6	33.0	7.3	7.3	2.6		4			
SR3	Sunny	Moderate	14:10	8.9	Middle	4.5	0.2	159	19.7	19.7	8.0	8.0	29.9	94.5	94.5	7.2	7.0	5.5	5.2	4	4	822139	807571
0.10	Cumy	moderate		0.0	·····daio	4.5	0.2	165	19.7		8.0	0.0	29.9	94.5	00	7.2		5.6	0.2	4	•	022.00	00.0
					Bottom	7.9	0.1	154	19.6	19.6	8.0	8.0	30.5	94.2	94.3	7.2	7.2	7.6		5			
					20110111	7.9	0.1	157	19.6	10.0	8.0	0.0	30.5	94.3	00	7.2		7.6		4			
					Surface	1.0	0.0	55	19.6	19.6	8.1	8.1	31.1	96.7	96.7	7.4		8.4	1	11			
						1.0	0.1	48	19.6		8.1		31.1	96.7		7.4	7.4	8.4	1	11			
SR4A	Sunny	Calm	16:21	9.9	Middle	5.0	0.0	68	19.5	19.5	8.1	8.1	31.2	96.4	96.4	7.4		10.6	10.3	12	12	817167	807792
_					* * * *	5.0	0.0	68	19.5		8.1		31.2	96.4		7.4		10.7		11			
					Bottom	8.9	0.0	46	19.5	19.5	8.1	8.1	31.2	96.6	96.6	7.4	7.4	11.9	4	13			
						8.9	0.0	41	19.5		8.1		31.2	96.6		7.4		11.9		14			
					Surface	1.0	-	-	20.5	20.5	7.9	7.8	29.0	91.3	91.4	6.9		3.6	4	3			
						1.0	-	-	20.5		7.8		29.0	91.4		6.9	6.9	3.6	4	4			
SR8	Misty	Moderate	13:55	4.4	Middle	-	-	-	-	-	-	4 -	<u>-</u>	-	-	-		-	4.0	-	4	820410	811635
	1					-	-	-	-		-		-	-		-		-	4	-			
					Bottom	3.4	-	-	20.5	20.5	7.8	7.8	29.0 28.9	86.5	86.4	6.6	6.6	4.3	4	5			
						3.4	-	-	20.5		7.7		28.9	86.2		6.6		4.3		4			

DA: Depth-Averaged

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

Water Qual	ity wonit	oring Resu	its on		11 March 23	during Mid-	<u> </u>	ae															
Monitoring	Weather	Sea	Sampling	Water	Sampling Dep	oth (m)	Current Speed	Current	Water Te	emperature (°C)	pН	Sa	alinity (ppt)	DO S	Saturation (%)	Disso Oxyg		Turbidity	(NTU)	Suspende (mg.		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Gamping Bop	7411 (111 <i>)</i>	(m/s)	Direction	Value	Average	Value Avera	ge Valu	ue Averag	e Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.2	24	19.4	19.4	8.1	31.	5 31.5	97.1	97.1	7.4		6.8		11			
					Surface	1.0	0.2	25	19.4	19.4	8.1	31.	5 31.5	97.1	97.1	7.4	7.4	6.9	1	10			
C1	Fine	Rough	08:24	7.2	Middle	3.6	0.2	39	19.3	19.3	8.1 8.1	31.	6 31.6	96.9	96.9	7.4	7.4	8.3	8.5	9	10	815596	804233
Ci	Fille	Rough	06.24	1.2	Middle	3.6	0.2	31	19.3	19.5	8.1	31.	6	96.9	96.9	7.4		8.4	0.5	10	10	013390	004233
					Dettern	6.2	0.3	27	19.3	19.3	8.1	31.	6 31.6	96.9	96.9	7.4	7.4	10.3	1	10			
					Bottom	6.2	0.3	27	19.3	19.3	8.1	31.	6 31.6	96.9	96.9	7.4	7.4	10.4	1	9			
					Surface	1.0	0.4	349	20.0	20.0	8.0	29.	0 28.9	94.7	94.7	7.3		4.8		6			
					Surface	1.0	0.4	353	20.0	20.0	8.0	28.	9 26.9	94.7	94.7	7.3	7.3	4.8		6			
C2	Fine	Rough	10:07	8.2	Middle	4.1	0.4	7	19.7	19.7	8.0	30.	30.1	94.5	94.5	7.2	7.5	10.8	9.4	6	7	825664	806955
02	1 1116	Rough	10.07	0.2	Middle	4.1	0.4	9	19.7	19.7	8.0	30.	1 30.1	94.5	34.3	7.2		10.8	3.4	7	,	023004	000933
					Bottom	7.2	0.4	337	19.5	19.5	8.0	30.		95.0	95.0	7.3	7.3	12.5		8			
					Dottom	7.2	0.4	338	19.5	13.5	8.0	30.	7	95.0	33.0	7.3	7.5	12.6		8			
					Surface	1.0	0.5	269	19.7	19.7	8.0	30.		89.9	89.9	6.9		2.7		9			
					Ourlace	1.0	0.6	263	19.7	13.7		30.	4	89.9	03.3	6.9	6.9	2.6		9			
C3	Misty	Moderate	09:13	11.0	Middle	5.5	0.5	268	19.7	19.7	8.0	30.		89.8	89.8	6.9	0.0	3.7	3.5	8	8	822130	817820
00	iviloty	Moderate	00.10	11.0	Wilddie	5.5	0.5	271	19.7	10.7	8.0	30.	5	89.8	00.0	6.9		3.8	0.0	9	o	022100	017020
					Bottom	10.0	0.5	281	19.8	19.8	7.9	30.		90.0	90.1	6.9	6.9	4.3		6			
						10.0	0.5	282	19.8		7.9	30.	4			6.9	***	4.1		7			
					Surface	1.0	0.1	9	19.5	19.5	8.1 8.1	31.		97.1	97.1	7.4		8.4		24			
						1.0	0.1	15	19.5		8.1	31.		97.1		7.4	7.4	8.4		25			
IM1	Fine	Moderate	08:52	6.8	Middle	3.4	0.2	35	19.4	19.4	8.1	31.		96.6	96.6	7.4		9.8	10.6	28	29	818341	806463
						3.4	0.2	35	19.4		8.1	31.		96.6		7.4		9.8	_	29			
					Bottom	5.8	0.2	13	19.4	19.4	8.1 8.1	31.		96.3 96.4	96.4	7.4	7.4	13.6 13.6		33			
						5.8	0.2	9 333	19.4		8.1	31.	2	00.0	1	7.4			1	32			
					Surface	1.0	0.1	338	19.5 19.5	19.5	8.1	31. 31.		96.3 96.3	96.3	7.4		12.9 12.9	-	16 17			
						3.5	0.1	354	19.5		0.1	21	2			7.4	7.4	14.1	-	10			
IM2	Fine	Moderate	09:05	6.9	Middle	3.5	0.2	358	19.4	19.4	8.1 8.1	31.		96.1 96.1	96.1	7.4		14.1	14.5	20	20	819160	806228
						5.9	0.2	339	19.4		8.1	31.	4	06.3	1	7.4		16.6	1	24			
					Bottom	5.9	0.2	336	19.4	19.4	8.1	31.		96.3	96.3	7.4	7.4	16.6	1	25			
						1.0	0.1	339	19.4		8.0	20	0		1	7.3		3.6		6			
					Surface	1.0	0.2	342	19.9	19.9	8.0	29.		94.6 94.6	94.6	7.3		3.6	1	7			
						3.8	0.2	308	19.7		0.0	20	0	04.5	<u> </u>	7.2	7.3	7.4	1	8			
IM7	Fine	Moderate	09:24	7.6	Middle	3.8	0.2	309	19.7	19.7	8.0	30.		94.5	94.5	7.2		7.4	7.6	9	9	821368	806836
					_	6.6	0.2	346	19.6		8.0	30	4	04.6		7.3		11.7	1	11			
					Bottom	6.6	0.2	345	19.6	19.6	8.0	30.		94.7	94.7	7.3	7.3	11.7	1	11			
DA: Depth-Aver					•							, 50.											

DA: Depth-Averaged

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

Water Quar	,	<u> </u>			TT Watch 25	during wild-	_																
Monitoring	Weather	Sea	Sampling	Water	Sampling Dept	h (m)	Current Speed	Current	Water Te	emperature (°C)		pН	Salinity (ppt)		aturation (%)	Disso		Turbidity	(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dept	11 (111)	(m/s)	Direction	Value	Average	Value	Average	Value Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					0	1.0	0.4	278	20.3	00.0	7.9	7.0	28.5	91.1	04.0	7.0		3.3	Ì	8		ĺ	ĺ
					Surface	1.0	0.4	271	20.3	20.3	7.9	7.9	28.5	90.9	91.0	7.0	7.0	3.3	1	7			
IMAO	Minter	Madaust-	40.04		Middle	4.1	0.4	297	20.2	20.2	7.9	7.0	28.6	90.4	00.2	6.9	7.0	4.0	4.0	9	0	000000	000040
IM10	Misty	Moderate	10:21	8.2	Middle	4.1	0.4	304	20.2	20.2	7.8	7.8	28.6	90.1	90.3	6.9		4.1	4.2	8	9	822260	809849
					Pattam	7.2	0.4	286	20.2	20.2	7.8	7.0	28.5	89.6	90 F	6.9	6.9	5.2	1	9			
			<u> </u>	<u> </u>	Bottom	7.2	0.3	285	20.2	20.2	7.8	7.8	28.4	89.4	89.5	6.9	6.9	5.2		10			
					Surface	1.0	0.4	286	20.2	20.2	7.9	7.9	29.1 29.1	90.1	90.1	6.9		3.8		7			
					Surface	1.0	0.4	282	20.2	20.2	7.9	1.5	29.1	90.0	30.1	6.9	6.9	3.8		7			
IM11	Misty	Moderate	10:11	8.0	Middle	4.0	0.5	280	20.2	20.2	7.9	7.9	29.2	89.7	89.6	6.8	0.9	4.2	4.3	7	7	821517	810555
IIVI I I	iviloty	เขาบนธาสเซ	10.11	0.0	Middle	4.0	0.5	276	20.2	20.2	7.9	1.5	29.2	89.5	09.0	6.8		4.1	4.5	6	,	021317	010000
					Bottom	7.0	0.4	265	20.2	20.3	7.8	7.8	29.2	89.3	89.2	6.8	6.8	5.1		6			
					DOMOIII	7.0	0.4	258	20.3	20.3	7.8	1.0	29.2	89.1	03.2	6.8	0.0	5.0		7			
					Surface	1.0	0.5	273	20.3	20.3	7.9	7.9	29.0 29.0	88.5	88.3	6.8		4.3		7			
					Juliace	1.0	0.5	271	20.3	20.3	7.9	1.5	28.9	88.1	00.5	6.7	6.7	4.4		6			
IM12	Misty	Moderate	10:06	7.4	Middle	3.7	0.5	278	20.4	20.5	7.8	7.8	28.9 28.9	87.6	87.5	6.7	0.7	5.1	5.3	6	6	821169	811509
IIVI 12	iviisty	Moderate	10.00	7.4	Wildule	3.7	0.4	279	20.5	20.5	7.8	7.0	28.9	87.4	07.5	6.6		5.1	3.3	5	O	021109	811309
					Bottom	6.4	0.4	305	20.6	20.7	7.8	7.9	28.7	86.4	86.2	6.6	6.6	6.4		5			
					Bottom	6.4	0.5	298	20.7	20.7	7.9	7.5	28.7	86.0	00.2	6.5	0.0	6.4		5			
					Surface	1.0	0.1	208	20.6	20.7	7.9	7.9	29.0	89.0	88.8	6.7		5.3		3			
					Surface	1.0	0.1	207	20.7	20.7	7.9	1.5	29.0	88.5	00.0	6.7	6.7	5.4		4			
SR1A	Misty	Moderate	09:45	4.8	Middle	2.4	-	176	-	-	-		-	-	_	-	0.7	-	5.7	-	5	819978	812654
SINIA	iviloty	เขาบนธาสเซ	05.43	4.0	iviidule	2.4	0.0	181	-		-		-	-		-		-	3.7	-	J	019910	012034
					Bottom	3.8	0.0	216	20.8	20.8	7.8	7.8	28.9 28.9	84.7	84.6	6.4	6.4	6.2		6			
					Dottom	3.8	0.1	213	20.8	20.0	7.8	7.0	28.9	84.4	07.0	6.4	0.4	6.1		5			
					Surface	1.0	0.1	233	20.3	20.4	7.8	7.8	29.2	89.5	89.4	6.8		6.2		4			
					Guilace	1.0	0.0	230	20.4	20.4	7.8	7.0	29.1	89.2	00.4	6.8	6.8	6.1		5			
SR2	Misty	Moderate	09:32	5.6	Middle	-	0.0	225	-	-	-]	-	-	_	-	0.0	-	6.6	-	4	821464	814181
OILE	iviloty	Moderate	03.32	3.0	WIIGGE		0.0	232	-		-	_	-	-	_	-		-	0.0	-	7	021707	014101
					Bottom	4.6	0.1	250	20.6	20.7	7.9	7.9	28.9 28.9	87.7	87.5	6.6	6.6	7.1		3			
				<u> </u>	Dottom	4.6	0.1	253	20.7	20.7	7.9	1.5	28.9	87.2	07.0	6.6	0.0	7.1		4		<u> </u>	<u> </u>
-					Surface	1.0	0.3	324	19.9	19.9	8.0	8.0	28.8	95.2	95.2	7.3		3.0		5			
					Odilado	1.0	0.3	321	19.9	10.0	8.0	0.0	28.8	95.2	55.2	7.3	7.3	3.1		5			
SR3	Fine	Moderate	09:38	7.8	Middle	3.9	0.3	342	19.8	19.8	8.0	8.0	29.5	94.3	94.3	7.2		5.0	5.0	6	6	822137	807548
				1		3.9	0.3	335	19.8		8.0		29.5	94.2		7.2		5.0	1	5	-		
					Bottom	6.8	0.3	344	19.6	19.6	8.0	8.0	30.1	93.9	93.9	7.2	7.2	6.8	4	7			
				<u> </u>		6.8	0.3	347	19.6	. 3.0	8.0		30.1	93.9	- 3.0	7.2		7.0		6			
					Surface	1.0	0.0	162	19.7	19.7	7.9	7.9	30.5	97.0	97.0	7.4		6.6	1	7			
						1.0	0.0	169	19.6		7.9		30.5	96.9		7.4	7.4	6.5	4	7			
SR4A	Fine	Moderate	07:41	8.6	Middle	4.3	0.0	180	19.4	19.4	7.9	7.9	30.8	95.9	95.9	7.4		11.6	10.3	7	7	817170	807810
-			1			4.3	0.0	173	19.4		7.9	1	30.8	95.9		7.4		11.6	1	6	-		
					Bottom	7.6	0.0	164	19.4	19.4	7.9	7.9	30.8	96.0	96.0	7.4	7.4	12.6	4	6			
				<u> </u>		7.6	0.0	168	19.4		7.9		30.8	96.0	- 5.0	7.4		12.7		7			
					Surface	1.0	-	•	20.8	20.8	7.9	7.9	28.8	90.9	90.6	6.9		3.2	1 7	6			
						1.0	-	-	20.8	20.0	7.9		28.7	90.3	00.0	6.8	6.9	3.1	4	4			
SR8	Misty	Moderate	10:00	4.4	Middle	-	-	-	-	-	-	1 -	-	-		-		-	4.0	-	5	820383	811630
	,					-	-	-	-		-		-	-		-		-	1	-	-		
					Bottom	3.4	-	-	21.0	21.0	7.9	7.9	28.5	84.7	84.6	6.4	6.4	4.9	1	5			
						3.4	-	-	21.0		7.9		28.5	84.5		6.4		5.0		4			

DA: Depth-Averaged

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

Water Quant	ty Monnit	oring Resu	ito Uli		14 March 23	during Mid-	LDD HUG	,																
Monitoring	Weather	Sea	Sampling	Water	Sampling Dept	h (m)	Current Speed	Current	Water Te	emperature (°C)	pН		Salinit	y (ppt)		aturation (%)	Disso Oxy		Turbidity	(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Depti	11 (111)	(m/s)	Direction	Value	Average	Value Ave	erage \	√alue .	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					0.1	1.0	0.4	204	20.2	00.0	8.2		31.7	0.4 =	114.6		8.6		4.5		4			
					Surface	1.0	0.4	206	20.2	20.2	8.2		31.8	31.7	114.6 114.1	114.4	8.6 8.6	0.5	4.8	Ī	5			
0.4			47.00			4.0	0.4	205	20.1	20.4	8.2		32.0		112.5		8.4	8.5	7.0		3		0.45000	004050
C1	Misty	Moderate	17:20	8.0	Middle	4.0	0.4	206	20.1	20.1	8.2		32.0	32.0	112.2	112.4	8.4		7.3	6.9	4	4	815629	804252
					Bottom	7.0	0.4	201	20.1	20.1	8.2 8.2	3.2	32.0	32.0	110.8 110.6	110.7	8.3 8.3	8.3	8.6	1	4			
					DOLLOITI	7.0	0.3	207	20.1	20.1	8.2		32.0	32.0	110.6	110.7	8.3	0.3	9.4		4			
					Surface	1.0	0.4	155	20.2	20.2	8.0	3.0	29.6	29.6	93.8	93.8	7.1		1.9		4			
					Surface	1.0	0.4	158	20.2	20.2	8.0		29.6	29.0	93.8 93.8	93.0	7.1	7.1	1.9		4			
C2	Misty	Moderate	16:02	11.8	Middle	5.9	0.4	164	20.1	20.1	8.0		29.8	29.8	93.6	93.6	7.1	7.1	2.6	2.3	5	5	825683	806965
02	iviisty	Woderate	10.02	11.0	Middle	5.9	0.4	157	20.1	20.1	8.0	:	29.9	29.0	93.6	93.0	7.1		2.6	2.3	6	3	023003	800903
					Bottom	10.8	0.4	168	20.1	20.1	8.0		29.8	29.8	93.5 93.6	93.6	7.1	7.1	2.5		5			
					Bottom	10.8	0.4	160	20.1	20.1	8.0		29.8	23.0		33.0	7.1	7.1	2.4		4			
					Surface	1.0	0.5	71	19.5	19.5	8.1		31.9	31.9	97.1	97.1	7.4		1.7		7			
					Ourlace	1.0	0.4	72	19.5	19.5	8.1	;	31.9	51.5	97.1	37.1	7.4	7.3	1.8		6			
C3	Sunny	Rough	17:42	10.6	Middle	5.3	0.4	83	19.5	19.5	8.1		31.9	31.9	94.8 94.8	94.8	7.2 7.2	7.5	2.7	2.2	6	6	822109	817801
00	Curiny	rtougn	17.72	10.0	wilddic	5.3	0.4	85	19.5	10.0	8.1	;	31.9	01.0		04.0			2.7		7	Ü	022100	017001
					Bottom	9.6	0.5	74	19.4	19.4	8.1		32.1	32.1	92.5 92.5	92.5	7.1	7.1	2.3		6			
					Bottom	9.6	0.5	74	19.4	10.4	8.1		32.1	02.1		02.0	7.1	7	2.3		6			
					Surface	1.0	0.3	183	20.1	20.1	8.1		31.5	31.5	114.4	114.0	8.6		4.0		4			
						1.0	0.3	176	20.1	20.1	8.1	;	31.6	01.0	113.6		8.6	8.4	4.6		5			
IM1	Misty	Moderate	16:58	7.0	Middle	3.5	0.3	170	20.1	20.1	8.1		31.8	31.8	107.5	107.4	8.1	0.4	6.9	6.4	6	5	818363	806437
	····oty	ouo.u.o	10.00		- Inidaio	3.5	0.3	165	20.1	20.1	8.1		31.8	01.0	107.3		8.1		7.4		7	Ü	0.0000	000.01
					Bottom	6.0	0.2	186	20.1	20.1	8.1		31.8	31.8	106.4	106.3	8.0	8.0	7.5		4			
						6.0	0.2	180	20.0		8.1		31.8		106.2		8.0	0.0	8.0		6			
					Surface	1.0	0.3	178	20.2	20.2	8.1		31.4	31.4	113.9	113.8	8.6 8.6		2.6		4			
						1.0	0.3	184	20.2		8.1		31.5		113.7			8.4	2.7		4			
IM2	Misty	Moderate	16:53	7.3	Middle	3.7	0.3	187	20.1	20.1	8.1		31.8	31.8	107.5	107.4	8.1	• • •	3.3	3.1	6	5	819173	806244
	. ,					3.7	0.3	183	20.1		8.1		31.8		107.3	-	8.1		3.4		4	-		
					Bottom	6.3	0.2	197	20.1	20.1	8.1		31.8	31.8	106.0 105.7	105.9	8.0	8.0	3.3		4			
						6.3	0.2	201	20.0	-	8.1		31.8				8.0		3.3		5			
					Surface	1.0	0.2	134	20.2	20.2	8.1		29.6	29.7	98.5 98.6	98.6	7.5		1.9	4	6			
						1.0	0.2	141	20.2	-	8.1		29.7	-			7.5	7.5	2.0	4	5			
IM7	Misty	Moderate	16:30	8.4	Middle	4.2	0.2	165	20.0	20.0	8.1		31.0	31.0	99.0	99.0	7.5		4.0	3.6	4	5	821371	806855
				-		4.2	0.2	161	20.0		8.1	;	31.0		99.0		7.5		4.2	1	5	-		
					Bottom	7.4	0.2	140	20.0	20.0	8.1		31.2	31.2	98.6	98.6	7.5	7.5	4.8	4	5			
DA: Depth-Average						7.4	0.2	135	20.0	,,,,	8.1	;	31.2		98.6		7.5		4.8		6			

Water Quality Monitoring Results on

14 March 23 during Mid-Ebb Tide

Water Qua	,				14 March 25	during wild																		
Monitoring	Weather	Sea	Sampling	Water	Sampling De	oth (m)	Current Speed	Current	Water Te	emperature (°C)		pН	Salin	ity (ppt)		aturation %)	Disso Oxy	olved ⁄gen	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)
					0	1.0	0.3	100	19.6	40.0	8.1	0.4	30.0	00.0	92.5	00.5	7.1		1.6		5			
					Surface	1.0	0.4	93	19.6	19.6	8.1	8.1	30.0	30.0	92.5	92.5	7.1		1.6		5			
	_					4.6	0.3	105	19.6		8.1		30.0		91.8		7.0	7.1	1.9		7	_		
IM10	Sunny	Rough	15:57	9.1	Middle	4.6	0.3	107	19.6	19.6	8.1	8.1	30.0	30.0	91.8	91.8	7.0	1	1.9	2.2	6	5	822250	809839
					_	8.1	0.3	88	19.6		8.1		30.2		90.1		6.9		3.1		4			
					Bottom	8.1	0.3	81	19.6	19.6	8.1	8.1	30.2	30.2	90.1	90.1	6.9	6.9	3.2		3			
			İ			1.0	0.4	92	19.6		8.1		30.0		93.0		7.1		1.7		6			
					Surface	1.0	0.4	96	19.6	19.6	8.1	8.1	30.0	30.0	92.9	93.0	7.1	i	1.7		5			
						3.9	0.4	96	19.6		8.1		30.3		90.0		6.9	7.0	3.3		4			
IM11	Sunny	Rough	16:13	7.8	Middle	3.9	0.4	102	19.6	19.6	8.1	8.1	30.3	30.3	90.0	90.0	6.9	ł	3.4	3.0	5	6	821495	810547
						6.8	0.4	98	19.6		8.1		30.3				6.9		4.0		7			
					Bottom	6.8	0.4	94	19.6	19.6	8.1	8.1	30.3	30.3	89.7 89.7	89.7	6.9	6.9	4.0		6			
				1		1.0	0.4	97																1
					Surface				19.7	19.7	7.9	7.9	30.4	30.4	90.3	90.3	6.9	ł	2.9		6			
						1.0	0.3	97	19.7				30.4				6.9	6.9	3.0		5			
IM12	Sunny	Rough	16:21	7.2	Middle	3.6	0.3	88	19.6	19.6	7.9	7.9	30.4	30.4	89.8	89.8	6.9	ł	3.1	4.0	6	6	821169	811503
						3.6	0.4	84	19.6		7.9		30.4		89.8		6.9		3.2		6			
					Bottom	6.2	0.4	120	19.5	19.5	7.8	7.8	30.9	30.9	89.3	89.3	6.8	6.8	6.0		5			
						6.2	0.4	118	19.5		7.8		30.9		89.3		6.8		6.1		6			
					Surface	1.0	0.0	74	19.5	19.5	8.1	8.1	30.9	30.9	89.1	89.1	6.8		3.8		6			
						1.0	0.0	67	19.5		8.1		30.9		89.1	****	6.8	6.8	3.8		6			
SR1A	Sunny	Moderate	17:01	4.9	Middle	2.5	0.0	75	-	_	-		-	_	-	_	-		-	4.1	-	6	819971	812658
Ortin	Curiny	Moderate	17.01	4.0	Wildaic	2.5	0.1	80	-		-		-		-		-		-		-	o	010071	012000
					Bottom	3.9	0.1	78	19.5	19.5	8.1	8.1	31.0	31.0	88.8	88.8	6.8	6.8	4.4		7			
					Dottom	3.9	0.0	75	19.5	13.5	8.1	0.1	31.0	31.0	88.8	00.0	6.8	0.0	4.3		5			
					Surface	1.0	0.3	59	19.7	19.7	8.0	8.0	30.5	30.5	91.3	91.3	7.0		2.4		7			
					Sulface	1.0	0.3	60	19.7	19.7	8.0	0.0	30.5	30.3	91.3	31.3	7.0	7.0	2.4		6			
SR2	Cummu	Madazata	17:16	5.4	Middle	-	0.4	61	-		-		-	_	-		-	7.0	-	2.6	-	7	821462	814189
SKZ	Sunny	Moderate	17.16	5.4	iviluale	-	0.4	57	-	-	-	_	-	-	-	-	-	Ì	-	2.0	-	,	021402	014109
					Dettere	4.4	0.4	38	19.6	10.0	8.0	0.0	30.6	20.0	91.7	91.8	7.0	7.0	2.7		7			
					Bottom	4.4	0.4	43	19.6	19.6	8.0	8.0	30.6	30.6	91.8	91.8	7.0	7.0	2.8		7			
					0	1.0	0.3	154	20.2	00.0	8.0	0.0	29.6	00.0	94.2	04.0	7.2		2.1		6			
					Surface	1.0	0.3	157	20.2	20.2	8.0	8.0	29.6	29.6	94.3	94.3	7.2	7.0	2.1		5			
000	N.41-4-4	Madaata	40.00	0.4	NAC-1-III-	4.2	0.3	140	20.1	00.4	8.1	0.4	30.6	00.0	97.9	00.0	7.4	7.3	5.9	- 0	6		000450	007554
SR3	Misty	Moderate	16:23	8.4	Middle	4.2	0.3	145	20.1	20.1	8.1	8.1	30.6	30.6	98.0	98.0	7.4	İ	6.2	5.8	7	6	822158	807554
					5	7.4	0.3	176	20.0	20.0	8.0		31.1		97.5		7.4		9.4		5			
					Bottom	7.4	0.4	183	20.0	20.0	8.0	8.0	31.0	31.1	97.4	97.5	7.4	7.4	9.3		7			
						1.0	0.0	80	20.1		8.1		31.6		104.6		7.9		5.0		6			
					Surface	1.0	0.0	87	20.1	20.1	8.1	8.1	31.6	31.6	104.6	104.6	7.9	1	5.0		5			
						4.1	0.1	62	20.1		8.1		31.6		104.8		7.9	7.9	5.6		4			
SR4A	Misty	Moderate	17:46	8.2	Middle	4.1	0.1	56	20.1	20.1	8.1	8.1	31.6	31.6	104.8	104.8	7.9	i	5.6	5.3	6	5	817194	807816
						7.2	0.0	81	20.1		8.1		31.6		103.5		7.8		5.4		4			
					Bottom	7.2	0.0	79	20.1	20.1	8.1	8.1	31.6	31.6	103.4	103.5	7.8	7.8	5.4		4			
			1			1.0	-	-	19.7		8.0	 	30.4		90.7		6.9	1	2.8		6			
					Surface	1.0	+ -		19.7	19.7	8.0	8.0	30.4	30.4	90.7	90.7	6.9	1	2.8		6			
						-	-	-	- 19.7		- 6.0	 	- 30.4		90.7		-	6.9	- 2.0		-			
SR8	Sunny	Moderate	16:27	5.1	Middle	-	-	-	-	-	H	-		-	-	-		ł	-	2.8		6	820392	811633
						4.1	-	-	19.7		8.0		30.4		90.1		6.9	 	2.9		6			
					Bottom	4.1	-	-	19.7	19.7	8.0	8.0	30.4	30.4	90.1	90.1	6.9	6.9	2.9		6			
					1	4.1	-	-	19.7		ö.U		3∪.4		90.1		6.9		2.9		Ö			

DA: Depth-Averaged

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

Water Qua	inty intollic	oring Resu	113 011		14 March 23	auring wia-		uc																
Monitoring	Weather	Sea	Sampling	Water	Sampling De	nth (m)	Current Speed	Current	Water Te	emperature (°C)		pН	Salin	ity (ppt)		aturation (%)	Disso Oxy		Turbidity	r(NTU)	Suspende (mg.		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Camping De	pur (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	44	20.0	20.1	8.2	8.2	30.9	30.9	112.4	112.5	8.5		3.0		6			
					Surface	1.0	0.3	39	20.1	20.1	8.2	0.2	30.9	30.9	112.5	112.3	8.5	8.5	2.9	1	5			
C1	Cloudy	Moderate	10:28	8.2	Middle	4.1	0.3	27	20.2	20.2	8.2	8.2	31.9	31.9	112.1	112.0	8.4	0.5	8.0	6.3	3	5	815641	804248
Ci	Cloudy	Moderate	10.20	0.2	Middle	4.1	0.3	22	20.2	20.2	8.2	0.2	31.9	31.9	111.9	112.0	8.4		8.6	0.3	4	5	613641	004240
					Bottom	7.2	0.3	44	20.2	20.2	8.2	8.2	31.9	31.9	111.2	111.2	8.4	8.4	7.7		5			
					BOILOITI	7.2	0.3	36	20.2	20.2	8.2	0.2	31.9	31.9	111.1	111.2	8.4	0.4	7.6		4			
					Surface	1.0	0.4	343	20.2	20.2	8.0	8.0	29.6	29.6	93.5	93.5	7.1		1.8		5			
					Ounace	1.0	0.4	348	20.2	20.2	8.0	0.0	29.6	23.0	93.5	33.3	7.1	7.1	1.8		7			
C2	Cloudy	Moderate	11:53	12.0	Middle	6.0	0.4	347	20.1	20.1	8.0	8.0	29.7	29.7	93.5	93.5	7.1	'	2.2	2.4	6	5	825668	806956
02	o.ouu,	moderate	11.00	.2.0	madio	6.0	0.3	350	20.1	20	8.0	0.0	29.7	20.7	93.5	00.0	7.1		2.3		5		020000	000000
					Bottom	11.0	0.4	357	20.1	20.1	8.0	8.0	29.9	29.9	93.4	93.4	7.1	7.1	3.1	_	5			
						11.0	0.4	350	20.1		8.0		29.9		93.4		7.1		3.1	ļ	4			
					Surface	1.0	0.3	248	19.4	19.4	7.9	7.9	30.4	30.4	91.5	91.5	7.0		1.4	1	5			
						1.0	0.3	253	19.4		7.9		30.4		91.5		7.0	7.0	1.4	4	5			
C3	Fine	Moderate	09:32	9.4	Middle	4.7	0.2	260 260	19.5 19.5	19.5	7.9	7.9	31.0 31.0	31.0	91.1	91.1	7.0		1.2	2.6	7	6	822111	817820
						8.4	0.3	247	19.5				31.0				7.0		5.1	-	<u>6</u> 7			
					Bottom	8.4	0.3	244	19.4	19.4	7.8	7.8	31.1	31.1	91.0 91.0	91.0	7.0	7.0	5.1	1	7			
						1.0	0.3	11	20.1		8.1		31.7		106.7		8.0		5.5		4			
					Surface	1.0	0.3	4	20.1	20.1	8.1	8.1	31.7	31.7	106.5	106.6	8.0		6.1	1	4			
						3.2	0.2	13	20.1		8.1		31.7		105.9		8.0	8.0	6.9	1	4	_		
IM1	Cloudy	Moderate	10:53	6.4	Middle	3.2	0.2	17	20.1	20.1	8.1	8.1	31.7	31.7	105.7	105.8	8.0		6.9	7.5	5	4	818330	806471
					D-11	5.4	0.3	15	20.0	20.0	8.1	0.4	31.7	31.7	104.3	104.1	7.9	7.9	9.6	1	5			
					Bottom	5.4	0.2	16	20.0	20.0	8.1	8.1	31.7	31.7	103.9	104.1	7.8	7.9	10.0	1	3			
					Surface	1.0	0.2	27	20.0	20.0	8.1	8.1	31.6	31.6	104.7	104.6	7.9		5.4		6			
					Surface	1.0	0.2	31	20.0	20.0	8.1	0.1	31.6	31.0	104.5	104.6	7.9	7.9	5.9		7			
IM2	Cloudy	Moderate	10:58	6.8	Middle	3.4	0.2	25	20.0	20.0	8.1	8.1	31.7	31.7	103.2	103.1	7.8	1.5	9.1	8.3	13	9	819186	806259
IIVIZ	Cioudy	Moderate	10.50	0.0	Middle	3.4	0.3	30	20.0	20.0	8.1	0.1	31.7	31.7	102.9	100.1	7.8		9.7	0.5	14	3	013100	000233
					Bottom	5.8	0.2	23	20.0	20.0	8.1	8.1	31.7	31.7	101.9	101.8	7.7	7.7	10.0	_	6			
					Dottom	5.8	0.3	20	20.0	20.0	8.1	0	31.7	• • • • • • • • • • • • • • • • • • • •	101.7		7.7		9.6		6			
					Surface	1.0	0.1	355	20.1	20.1	8.0	8.0	29.8	29.8	97.1	97.2	7.4]]	2.7	1	7			
						1.0	0.1	354	20.1	-	8.0		29.9		97.2	-	7.4	7.4	3.0	1	7			
IM7	Cloudy	Moderate	11:20	7.6	Middle	3.8	0.2	350	20.1	20.1	8.0	8.0	30.6	30.6	97.4	97.4	7.4		4.7	4.7	6	6	821349	806825
						3.8	0.2	350	20.0		8.0		30.7		97.4		7.4		5.1	4	5			
					Bottom	6.6	0.2	347 342	20.0	20.0	8.0	8.0	31.1	31.1	96.9 96.9	96.9	7.3	7.3	6.5	-	6			
DA: Dopth Avo	1		l	l	1	6.6	0.2	342	20.0		8.0		31.1		96.9		7.3		6.6	<u> </u>	ь			1

DA: Depth-Averaged

Water Quality Monitoring Results on

14 March 23 during Mid-Flood Tide

water Qua	ity worm	orning itest	iita Oii		14 March 23	auring wia	1 1000 1	luc																
Monitoring	Weather	Sea	Sampling	Water	Sampling De	anth (m)	Current Speed	Current	Water Te	emperature (°C)		рН	Salin	ity (ppt)		turation %)	Disso Oxy	olved gen	Turbidity	(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Campling De	spur (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	304	19.6	19.6	8.1	8.1	30.0	30.0	92.2	92.2	7.1		1.6		4			
					Curiaco	1.0	0.4	307	19.6	10.0	8.1	0.1	30.0	00.0	92.1	02.2	7.1	7.0	1.6		4			
IM10	Fine	Rough	11:24	8.6	Middle	4.3	0.4	305	19.6	19.6	8.1	8.1	30.2	30.2	90.6	90.7	6.9		2.8	2.7	4	4	822252	809836
		. toug.		0.0	madio	4.3	0.4	299	19.6	10.0	8.1	0	30.2	00.2	90.7	00	7.0		2.8		4	·	022202	000000
					Bottom	7.6	0.4	312	19.6	19.6	8.1	8.1	30.2	30.2	90.8	90.9	7.0	7.0	3.6	l	4			
						7.6	0.4	313	19.6		8.1		30.2		90.9		7.0		3.6		5			
					Surface	1.0	0.5	275	19.6	19.6	8.1	8.1	30.1	30.1	91.8	91.8	7.1		1.7	ļ	4			
						1.0 3.5	0.5	272 277	19.6 19.6		8.1		30.1		91.7		7.0	7.0	1.7 2.4	ł	5 5			
IM11	Fine	Moderate	11:09	6.9	Middle	3.5	0.5	281	19.6	19.6	8.1	8.1	30.3	30.3	89.6 89.5	89.6	6.9		2.4	3.0	4	4	821517	810564
						5.9	0.5	291	19.6		8.1		30.3		89.5		6.8		4.8	ł	4			
					Bottom	5.9	0.4	286	19.6	19.6	8.1	8.1	30.6	30.6	89.3	89.3	6.8	6.8	4.6	ł	4			
						1.0	0.4	286	19.6		8.1		30.2		91.0		7.0		2.0		4		! 	
					Surface	1.0	0.4	291	19.6	19.6	8.1	8.1	30.2	30.2	90.8	90.9	7.0		2.0	ł	4			
						3.4	0.5	272	19.6		8.1		30.4		90.5		6.9	7.0	3.1		4			
IM12	Fine	Moderate	10:57	6.8	Middle	3.4	0.5	279	19.6	19.6	8.1	8.1	30.4	30.4	90.5	90.5	6.9		3.0	3.2	4	4	821180	811534
					_	5.8	0.5	298	19.5		8.1		30.6		90.8		7.0		4.6	ł	3			
					Bottom	5.8	0.5	300	19.5	19.5	8.1	8.1	30.6	30.6	90.9	90.9	7.0	7.0	4.6		3			
						1.0	0.0	220	19.7		8.0		30.3		86.8		6.6		3.8		3			
					Surface	1.0	0.0	218	19.7	19.7	8.0	8.0	30.3	30.3	86.8	86.8	6.6	0.0	3.7	1	4			
SR1A	Fin a	Madazata	40.40	4.7	Middle	2.4	0.0	207	-		-		-		-		-	6.6	-	4.7	-	4	040070	040000
SKIA	Fine	Moderate	10:10	4.7	Middle	2.4	0.0	206	-	-	-	1	-	-	-	-	-		-	4.7	-	4	819973	812663
					Bottom	3.7	0.0	229	19.7	19.7	8.0	8.0	30.3	30.3	88.1	88.2	6.8	6.8	5.8	1	3			
					Dottom	3.7	0.1	227	19.7	13.7	8.0	0.0	30.3	30.3	88.3	00.2	6.8	0.0	5.7		5			
					Surface	1.0	0.1	239	19.6	19.6	8.0	8.0	30.4	30.4	91.1	91.1	7.0		1.9		5			
					Carraco	1.0	0.2	239	19.6	10.0	8.0	0.0	30.4	00.1	91.1	0	7.0	7.0	2.0		4			
SR2	Fine	Moderate	09:51	4.2	Middle	-	0.1	259	-	-	-	_	-	_	-	_	-		-	2.5	-	5	821483	814162
						-	0.1	261	-		-		-		-		-		-		-			
					Bottom	3.2	0.1	231	19.5	19.5	8.0	8.0	30.6	30.6	93.2	93.3	7.1	7.2	3.1	ļ	4			
						3.2	0.1	228	19.5		8.0		30.6		93.4		7.2		3.0		5			
					Surface	1.0	0.3	346	20.1	20.1	8.0	8.0	29.5	29.5	93.1	93.1	7.1		2.4	ł	4			
						1.0 4.6	0.3	341 338	20.1		8.0		29.6		93.1		7.1 7.1	7.1	2.5 4.5	ł	6			
SR3	Cloudy	Moderate	11:27	9.1	Middle	4.6	0.3	335	20.1	20.1	8.0	8.0	29.9 29.9	29.9	92.6 92.6	92.6	7.1		4.5	4.0	4	5	822125	807569
						8.1	0.3	340	20.1		8.0		30.1		92.4		7.0		5.2		5			
					Bottom	8.1	0.4	345	20.1	20.1	8.0	8.0	30.1	30.1	92.4	92.4	7.0	7.0	5.2	ł	5			
				1		1.0	0.0	231	20.0		8.1		30.6		96.5		7.3		3.1		7			
					Surface	1.0	0.0	236	20.0	20.0	8.1	8.1	30.6	30.6	96.6	96.6	7.3		3.2	ł	9			
						4.4	0.0	236	19.9		8.2		30.9		96.8		7.3	7.3	4.2	1	6			
SR4A	Cloudy	Moderate	10:09	8.8	Middle	4.4	-	241	19.9	19.9	8.2	8.2	31.0	30.9	96.8	96.8	7.3		4.2	4.5	7	7	817200	807792
						7.8	0.0	249	20.0		8.1		31.2		96.8		7.3		6.4	i	8			
					Bottom	7.8	0.0	247	20.0	20.0	8.1	8.1	31.2	31.2	96.8	96.8	7.3	7.3	6.1	1	7			
				İ	Curtons	1.0	-	-	19.6	40.0	8.1	0.4	30.1	20.4	90.6	00.0	7.0		2.9		6			
					Surface	1.0	-	-	19.6	19.6	8.1	8.1	30.1	30.1	90.6	90.6	7.0	7.0	2.9	1	7			
SR8	Eino	Moderate	10:48	4.0	Middle	-	-	-	-		-		-		-		-	7.0	-	24	-	6	820398	811637
SKØ	Fine	Moderate	10:48	4.8	ivildale	-	-	-	-	-	-	1 -	-	-	-	-	-		-	3.4	-	О	820398	811037
					Bottom	3.8	-	-	19.6	19.6	8.1	8.1	30.1	30.1	90.1	90.1	6.9	6.9	3.9		6			
					Dollom	3.8	-	-	19.6	19.0	8.1	0.1	30.1	30.1	90.1	90. i	6.9	0.9	3.9		6			

DA: Depth-Averaged

Water Quality Monitoring Results on 16 March 23 during Mid-Ebb Tide

water Quar	ity worm	orning incou	iita Oii		10 March 23	auring wia-	LDD Hat	<u> </u>																
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)	Suspender (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Gampling Bept	()	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.3	222	20.4	20.4	8.3	8.3	31.2	31.2	121.0	121.0	9.1		0.7		3			
					Surface	1.0	0.4	217	20.4	20.4	8.3	0.3	31.2	31.2	121.0	121.0	9.1	8.9	0.7		3			
C1	Cloudy	Moderate	20:01	8.2	Middle	4.1	0.4	196	20.2	20.2	8.3	8.3	31.7	31.7	116.1	116.1	8.7	0.9	2.9	2.3	3	3	815628	804258
Ci	Cloudy	Moderate	20.01	0.2	Middle	4.1	0.4	191	20.2	20.2	8.3	0.3	31.7	31.7	116.1	110.1	8.7		2.9	2.3	3	3	013020	804238
					Bottom	7.2	0.3	226	20.3	20.3	8.2	8.2	31.7	31.6	114.1	114.1	8.6	8.6	3.5		4			
					Bottom	7.2	0.3	226	20.3	20.0	8.2	0.2	31.6	01.0	114.1	11-1.1	8.6	0.0	3.4		4			
					Surface	1.0	0.3	163	21.1	21.1	8.0	8.0	27.9	27.9	97.6	97.6	7.4		1.4		5			
					Gundec	1.0	0.3	159	21.1	21.11	8.0	0.0	27.9	27.0	97.5	01.0	7.4	7.2	1.4		6			
C2	Cloudy	Moderate	18:41	11.4	Middle	5.7	0.3	158	20.4	20.4	8.0	8.0	29.5	29.6	90.8	90.7	6.9		2.3	2.7	5	5	825699	806954
02	Cioudy	moderate			madio	5.7	0.4	157	20.4	20.1	8.0	0.0	29.6	20.0	90.6	00	6.9		2.5		5	Ū	020000	
					Bottom	10.4	0.3	158	20.2	20.2	8.0	8.0	30.2	30.2	89.1	89.2	6.8	6.8	4.3		3			
					Dottom	10.4	0.4	156	20.2	20.2	8.0	0.0	30.2	00.2	89.2	00.2	6.8	0.0	4.3		3			
					Surface	1.0	0.3	66	19.8	19.8	7.6	7.6	31.6	31.6	96.4 96.4	96.4	7.3		1.2		5			
					- Cunaco	1.0	0.4	70	19.7	.0.0	7.6		31.6	01.0		00.1	7.3	7.2	1.3		4			
С3	Misty	Moderate	19:52	7.8	Middle	3.9	0.3	74	19.6	19.6	7.6	7.6	31.8	31.8	92.4 92.4	92.4	7.0		3.8	3.3	4	4	822124	817816
00	····oty	moderate	10.02	7.0	madio	3.9	0.3	81	19.6		7.6		31.9	01.0		02	7.0		3.7	0.0	3	·	022.2.	0.70.0
					Bottom	6.8	0.4	62	19.6	19.6	7.6	7.6	31.9	31.8	92.7 92.8	92.8	7.0	7.1	4.9		4			
					Dottom	6.8	0.4	68	19.6	.0.0	7.6		31.8	01.0	•	02.0	7.1		4.9		3			
					Surface	1.0	0.2	201	21.0	21.0	8.2	8.2	29.7	29.7	120.3	120.3	9.0		1.3		5			
						1.0	0.3	196	21.0		8.2		29.8		120.2		9.0	9.0	1.4		4			
IM1	Cloudy	Moderate	19:40	6.5	Middle	3.3	0.2	172	20.5	20.5	8.2	8.2	30.6	30.6	118.2	118.2	8.9		1.5	1.4	5	5	818333	806480
	,					3.3	0.2	171	20.4		8.2		30.6		118.2	_	8.9		1.5		6			
					Bottom	5.5	0.2	209	20.4	20.4	8.2	8.2	30.8	30.8	113.1	113.1	8.5	8.5	1.5		5			
						5.5	0.2	216	20.4		8.2		30.8		113.1		8.5		1.6		6			
					Surface	1.0	0.3	177	20.7	20.7	8.2	8.2	30.1	30.1	114.6	114.4	8.6		1.0		4			
						1.0	0.3	177	20.7		8.2		30.1				8.6	8.4	1.0	_	5			
IM2	Cloudy	Moderate	19:32	6.7	Middle	3.4	0.3	177	20.5	20.5	8.2	8.2	30.5	30.5	108.2	108.4	8.1		0.8	1.1	3	4	819199	806249
	·]					3.4	0.3	172	20.5		8.2		30.5				8.2		0.8	4	4		1	
					Bottom	5.7	0.2	215	20.6	20.6	8.1	8.1	30.5	30.5	104.4	104.4	7.9	7.9	1.7		2			
						5.7	0.2	213	20.6		8.1		30.5		_		7.9		1.7		3			
					Surface	1.0	0.2	172	20.9	20.9	8.1	8.1	28.5	28.5	103.3	103.4	7.8		1.4	-	3			
						1.0	0.2	166	20.9		8.1		28.5	1			7.8	7.8	1.4	4	3		1	
IM7	Cloudy	Moderate	19:08	8.2	Middle	4.1	0.2	166	20.6	20.6	8.0	8.0	29.9	30.0	102.8	102.7	7.8		2.2	2.1	4	4	821362	806831
						4.1	0.2	171	20.6		8.0		30.0	1	102.6		7.7		2.3	4	3		1	
					Bottom	7.2 7.2	0.2	190	20.6	20.6	8.0	8.0	30.0	30.0	102.2	102.2	7.7	7.7	2.5 2.5	4	5 4		1	
DA: Donth Avor						7.2	0.2	187	20.6		8.0		30.0		102.2		1.1		2.5		4			

DA: Depth-Averaged

Water Quality Monitoring Results on 16 March 23 during Mid-Ebb Tide

Water Quar	,	<u> </u>			10 March 25	during wild																		
Monitoring	Weather	Sea	Sampling	Water	0 " 0		Current Speed	Current	Water Te	mperature (°C)		рН	Salin	ity (ppt)		aturation (%)	Disso		Turbidity	(NTU)	Suspende (mg/		Coordinate	Coordinate
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	HK Grid (Northing)	HK Grid (Easting)
						1.0	0.3	102	20.4		7.6		28.8		95.9		7.3		1.2		3			
					Surface	1.0	0.3	98	20.4	20.4	7.6	7.6	28.9	28.9	95.6	95.8	7.3		1.3	1	4			
						4.4	0.3	104	20.0		7.6		30.3		93.2		7.1	7.2	2.7	1	5			
IM10	Misty	Moderate	18:45	8.8	Middle	4.4	0.3	98	20.0	20.0	7.6	7.6	30.4	30.3	93.2	93.2	7.1		2.7	2.5	4	5	822232	809824
					_	7.8	0.3	104	19.8		7.5		30.7		93.7		7.1		3.4	1	5			
					Bottom	7.8	0.4	106	19.8	19.8	7.5	7.5	30.7	30.7	93.8	93.8	7.1	7.1	3.5	1	6			
						1.0	0.3	106	20.0		7.6		30.4		93.5		7.1		1.1		2			
					Surface	1.0	0.3	106	19.9	20.0	7.6	7.6	30.4	30.4	93.5	93.5	7.1	7.4	1.0	1	3			
15.444	N. 47 - 4 - 1	Madagas	40.54	7.4	B 41 - 1 - 11 -	3.7	0.4	105	19.9	40.0	7.5	7.5	30.6	00.0	93.4	00.5	7.1	7.1	1.7	4.7	4		004540	040507
IM11	Misty	Moderate	18:54	7.4	Middle	3.7	0.4	101	19.9	19.9	7.5	7.5	30.6	30.6	93.5	93.5	7.1		1.6	1.7	4	4	821516	810567
					5	6.4	0.3	90	19.8	40.0	7.5		30.8		95.6		7.3		2.3	1	5			
					Bottom	6.4	0.3	86	19.9	19.9	7.5	7.5	30.8	30.8	95.7	95.7	7.3	7.3	2.4		4			
					0	1.0	0.3	105	20.2	00.0	7.5	7.5	30.0	00.4	95.3	05.0	7.2		1.0		8			
					Surface	1.0	0.3	110	20.1	20.2	7.5	7.5	30.1	30.1	95.1	95.2	7.2	7.0	1.0		7			
IMAO	Minter	Madagata	40.50	7.0	Mi-dalla	3.5	0.4	105	19.9	10.0	7.5	7.5	30.5	20.0	94.3	94.3	7.2	7.2	2.1	4.7	6		004440	044504
IM12	Misty	Moderate	18:59	7.0	Middle	3.5	0.3	102	19.9	19.9	7.5	7.5	30.6	30.6	94.2	94.3	7.2		2.1	1.7	7	6	821142	811531
					Bottom	6.0	0.3	106	19.9	19.9	7.5	7.5	30.7	30.6	94.5	94.7	7.2	7.2	2.1		6			
					Bottom	6.0	0.3	112	19.9	19.9	7.5	7.5	30.5	30.6	94.9	94.7	7.2	1.2	2.2		4			
					Cuntana	1.0	-	75	19.9	40.0	7.5	7.5	30.5	20.0	92.6	00.0	7.1		3.0		4			
					Surface	1.0	0.0	78	19.8	19.9	7.5	7.5	30.6	30.6	92.5	92.6	7.1	7.1	3.0		3			
0044	N. 47 - 4 - 1	Madagas	40.00	5.0	B AC -I -II -	2.8	0.0	57	-		-		-		-		-	7.1	-	0.0	-	_	040000	040050
SR1A	Misty	Moderate	19:20	5.6	Middle	2.8	0.0	58	-	-	-	-	-	-	-	-	-		-	3.3	-	5	819980	812658
					Bottom	4.6	-	61	19.7	19.8	7.4	7.4	30.7	30.7	93.0	93.5	7.1	7.2	3.7	1	6			
					Bottom	4.6	0.1	62	19.8	19.0	7.4	7.4	30.7	30.7	94.0	93.5	7.2	1.2	3.7		5			
					Surface	1.0	0.4	41	20.1	20.1	7.5	7.4	30.7	30.7	95.0	95.0	7.2		2.0		3			
					Surface	1.0	0.4	41	20.1	20.1	7.4	7.4	30.7	30.7	95.0	93.0	7.2	7.2	2.0		3			
SR2	Misty	Moderate	19:31	5.0	Middle	-	0.3	52	-		-		-		-		-	1.2	-	2.5	-	3	821479	814145
SINZ	iviisty	Moderate	19.51	5.0	Middle	-	0.3	55	-		-	_	-	_	-	_	-		-	2.5	-	3	021479	014143
					Bottom	4.0	0.4	60	19.8	19.8	7.4	7.4	30.9	30.7	95.2	95.3	7.2	7.3	3.0		4			
					Bottom	4.0	0.3	65	19.8	10.0	7.4	7	30.6	00.7	95.4	55.5	7.3	7.0	3.1		3			
					Surface	1.0	0.2	170	20.7	20.7	8.0	8.0	29.0	29.0	94.3	94.3	7.1		1.2		4			
						1.0	0.3	166	20.7	20	8.0	0.0	29.0	20.0	94.2	0 1.0	7.1	7.2	1.2		5			
SR3	Cloudy	Moderate	19:02	8.6	Middle	4.3	0.2	143	20.5	20.5	8.0	8.0	29.5	29.5	94.6	94.7	7.2		2.0	2.0	5	5	822168	807560
	,					4.3	0.2	140	20.5		8.0		29.5		94.8		7.2		2.1	1 1	4			
					Bottom	7.6	0.3	156	20.5	20.5	7.9	7.9	29.7	29.7	95.6	95.6	7.2	7.2	2.8	4	5			
			<u> </u>			7.6	0.3	150	20.5		7.9	_	29.7	-	95.6		7.2		2.8		5			
					Surface	1.0	0.0	74	20.5	20.5	8.2	8.2	29.9	29.9	105.4	105.3	8.0		2.6	4	3			
						1.0	0.0	79	20.5		8.2		29.9		105.1		7.9	7.9	2.7	4 1	2			
SR4A	Cloudy	Moderate	20:20	8.8	Middle	4.4	0.0	60	20.5	20.5	8.1	8.1	30.2	30.2	103.6	103.6	7.8		4.1	3.8	4	4	817177	807824
						4.4	0.0	54	20.5		8.1		30.2		103.6		7.8		4.2	4	5			
					Bottom	7.8	0.1	70	20.4	20.4	8.1	8.1	30.2	30.2	103.6	103.7	7.8	7.8	4.6	4 l	4			
			1			7.8	0.0	72	20.4		8.1		30.2		103.7		7.8		4.7		4			
					Surface	1.0	-	-	20.3	20.3	7.5	7.5	29.9	30.0	95.7	95.6	7.3		1.9	- 1	6			
						1.0	-	-	20.2		7.5		30.0		95.4		7.2	7.3	2.0	- 1	5			
SR8	Misty	Moderate	19:03	5.8	Middle	-	-	-	-	-		-	-	-	-	-	-		-	2.1	-	7	820381	811628
						- 4.0	-	-	- 10.0		- 7.5				- 04.0		- 7.0		-	- 1	-			
					Bottom	4.8	-	-	19.9	19.9	7.5	7.5	30.8	30.8	94.6 94.7	94.7	7.2	7.2	2.2	- 1	8			
						4.8	-	-	19.9		7.5		30.8		94.7		7.2		2.3		9			

DA: Depth-Averaged

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

water Qua	ity woint	orning incou	1113 011		10 March 23	auring wia-	1 1000 11	uc																
Monitoring	Weather	Sea	Sampling	Water	Sampling Dept	h (m)	Current Speed	Current	Water Te	emperature (°C)		рН	Salir	nity (ppt)	DO S	Saturation (%)	Disso Oxy		Turbidity	/(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dept	11 (111)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.0	47	20.4	20.4	8.2	8.2	30.7	30.8	114.3	114.1	8.6		2.3		6			
					Surface	1.0	0.0	48	20.4	20.4	8.2	0.2	30.8	30.6	113.9	114.1	8.6	8.5	2.4		7			
C1	Cloudy	Moderate	07:38	8.4	Middle	4.2	0.0	47	20.3	20.3	8.1	8.1	31.2	31.2	111.6	111.5	8.4	6.5	3.9	5.0	5	5	815609	804264
CI	Cloudy	Moderate	07.30	0.4	Middle	4.2	0.0	52	20.3	20.3	8.1	0.1	31.2	31.2	111.4	111.5	8.4		3.7	5.0	4	3	613609	004204
					Bottom	7.4	0.1	42	20.3	20.3	8.1	8.1	31.3	31.3	110.6	110.5	8.3	8.3	8.9		4			
					DULLOITI	7.4	0.1	46	20.3	20.3	8.1	0.1	31.3	31.3	110.4	110.5	8.3	0.5	8.7		4			
					Surface	1.0	0.1	188	21.1	21.1	8.0	8.0	27.9	27.9	97.6 97.5	97.6	7.4		1.4		4			
					Surface	1.0	0.2	182	21.1	21.1	8.0	0.0	27.9	21.9	97.5	91.0	7.4	7.2	1.4		6			
C2	Cloudy	Moderate	08:50	11.3	Middle	5.7	0.1	185	20.3	20.3	8.0	8.0	29.9	29.9	90.5	90.5	6.9	7.2	3.6	3.6	7	6	825681	806948
02	Oloudy	Moderate	00.00	11.0	Wilddie	5.7	0.0	181	20.3	20.0	8.0	0.0	29.9	20.0	90.4	50.0	6.9		3.8	0.0	6	o	020001	000040
					Bottom	10.3	0.0	211	20.2	20.2	8.0	8.0	30.2	30.2	91.1	91.3	6.9	6.9	5.5		7			
						10.3	0.1	205	20.2		8.0		30.2				6.9		5.7		8			
					Surface	1.0	0.0	117	19.7	19.7	7.5	7.5	31.2	31.2	94.2	94.2	7.2		1.6		4			
						1.0	0.0	121	19.7		7.5		31.2		94.2		7.2	7.1	1.6	-	3			
C3	Misty	Calm	08:04	10.8	Middle	5.4	0.0	116	19.6 19.6	19.6	7.4	7.4	31.4	31.4	92.0	92.0	7.0		1.8	2.2	4	4	822126	817787
						5.4 9.8	0.0	117 118	19.6				31.4 31.4				7.0		1.8 3.0	-	4			
					Bottom	9.8	0.1	112	19.6	19.6	7.3	7.3	31.4	31.4	91.8	91.9	7.0	7.0	3.0	-	4			
						1.0	0.0	89	20.7		8.1		29.4				8.2		1.0	1	5			
					Surface	1.0	0.0	91	20.7	20.7	8.1	8.1	29.5	29.4	108.8	108.7	8.2		1.0		4			
						3.2	0.0	95	20.6		8.1		30.2		102.4		7.7	8.0	2.7	1	4			
IM1	Cloudy	Moderate	07:58	6.4	Middle	3.2	0.0	95	20.6	20.6	8.1	8.1	30.2	30.2	102.3	102.4	7.7		2.9	3.6	3	4	818362	806456
					Deller	5.4	0.0	98	20.6	00.0	8.0	0.0	30.2	00.0	102.0	400.0	7.7	7.7	6.0		4			
					Bottom	5.4	0.0	91	20.6	20.6	8.0	8.0	30.2	30.2	102.0	102.0	7.7	7.7	7.9		4			
					Surface	1.0	0.0	86	20.7	20.7	8.1	8.1	29.6	29.6	107.8	107.8	8.1		1.4		3			
					Surface	1.0	0.0	92	20.7	20.7	8.1	0.1	29.6	29.0	107.8	107.0	8.1	8.0	1.5		3			
IM2	Cloudy	Moderate	08:04	7.0	Middle	3.5	0.0	91	20.6	20.6	8.1	8.0	30.3	30.3	105.8 105.1	105.5	8.0	0.0	2.7	2.6	4	4	819192	806229
IIVIZ	Cloudy	Woderate	00.04	7.0	Middle	3.5	0.0	91	20.6	20.0	8.0	0.0	30.4	30.3		100.0	7.9		2.9	2.0	4	7	013132	000223
					Bottom	6.0	0.0	64	20.5	20.6	8.0	8.0	30.7	30.6	101.8	101.8	7.6	7.6	3.4		4			
					50110111	6.0	0.1	68	20.6	20.0	8.0	0.0	30.6	00.0	101.7		7.6		3.8		4			
					Surface	1.0	0.0	136	20.6	20.6	8.1	8.1	29.4	29.5	103.6	103.7	7.8		1.6	4	3			
						1.0	0.1	132	20.5		8.1		29.5				7.8	7.8	1.6	4	4			
IM7	Cloudy	Moderate	08:25	8.4	Middle	4.2	0.1	118	20.5	20.5	8.1	8.1	30.0	30.0	103.4	103.4	7.8		1.6	1.8	5	4	821339	806845
						4.2	0.1	112	20.5		8.1		30.0		103.4		7.8		1.6	4	4			
					Bottom	7.4 7.4	0.1	141	20.5	20.5	8.1	8.1	30.0	30.0	101.8	101.8	7.7	7.7	2.1	4	5			
DA: Dooth Avoi			ı		l	7.4	0.1	140	20.5		8.1		30.0		101.8		1.1		2.2	1	4			

DA: Depth-Averaged

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

water Qual	ity Monit	oring Rest	iits on		16 March 23	auring Mia-	rioou ii	ue																
Monitoring	Weather	Sea	Sampling	Water	Sampling Dep	th (m)	Current Speed	Current	Water Te	mperature (°C)		pН	Salir	nity (ppt)		aturation (%)	Disso Oxy		Turbidity	(NTU)	Suspended (mg/l		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dep	iii (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	95	19.9	19.9	7.6	7.6	30.4	30.4	92.3	92.3	7.0		3.2		3			
					Ounace	1.0	0.0	98	19.9	19.9	7.6	7.0	30.4	50.4	92.3	32.5	7.0	7.0	3.2		3			
IM10	Misty	Calm	09:07	8.0	Middle	4.0	0.1	99	20.1	20.2	7.5	7.5	30.5	30.5	92.7	92.8	7.0	7.0	3.6	3.7	3	3	822228	809852
	···ioty	ou	00.01	0.0	madio	4.0	0.1	104	20.2	20.2	7.5	7.0	30.4	00.0	92.9	02.0	7.0		3.7	0.7	3	Ŭ	022220	000002
					Bottom	7.0	0.1	117	20.4	20.5	7.5	7.5	30.3	30.3	93.6	93.8	7.1	7.1	4.3		4			
						7.0	0.0	110	20.5		7.5		30.3		93.9		7.1		4.3		3			
					Surface	1.0	0.1	85	20.1	20.1	7.6	7.6	30.0	30.0	93.1	93.1	7.1		1.1		3			
						1.0 4.1	0.0	85	20.1		7.6		30.0		93.1		7.1	7.1	1.1		3			
IM11	Misty	Calm	08:59	8.2	Middle	4.1	0.0	63 69	19.9 20.0	20.0	7.6 7.6	7.6	30.7	30.7	92.4 92.6	92.5	7.0		2.0 1.9	2.0	3	4	821489	810531
						7.2	0.0	76	20.0		7.5		30.6		93.7		7.0		2.8		6			
					Bottom	7.2	0.1	71	20.4	20.4	7.5	7.5	30.4	30.4	93.7	93.8	7.1	7.1	2.9		5			
						1.0	0.1	70	20.4		7.6		30.4		93.9		7.1		1.8		4			
					Surface	1.0	0.0	69	20.0	20.0	7.6	7.6	30.2	30.2	93.5	93.6	7.1		1.8		3			
						3.6	-	65	19.8		7.6		30.8		92.3		7.0	7.1	2.1		4			
IM12	Misty	Calm	08:55	7.2	Middle	3.6	0.0	64	19.8	19.8	7.6	7.6	30.8	30.8	92.4	92.4	7.0		2.2	2.7	2	4	821178	811531
						6.2	0.1	94	19.9		7.6		30.8		93.1		7.1		4.2		4			
					Bottom	6.2	0.1	92	19.9	19.9	7.6	7.6	30.7	30.8	93.4	93.3	7.1	7.1	4.2		5			
					0 /	1.0	0.0	254	19.8	40.0	7.6		30.5	00.5	91.0		7.0		5.2		4			
					Surface	1.0	-	251	19.7	19.8	7.6	7.6	30.5	30.5	91.1	91.1	7.0		5.1		4			
SR1A	N 41-4-	0-1	08:37	4.4	Middle	2.2	0.0	258	-		-		-		-		-	7.0	-		-		040000	812657
SKIA	Misty	Calm	08:37	4.4	Iviladie	2.2	0.0	251	-	-	-	-	-	-	-	-	-		-	6.1	-	4	819983	812657
					Bottom	3.4	0.0	249	19.8	19.8	7.6	7.6	30.5	30.5	91.6	91.7	7.0	7.0	7.0		3			
					DULLUITI	3.4	0.1	249	19.8	19.0	7.6	7.0	30.5	30.5	91.8	91.7	7.0	7.0	7.0		3			
					Surface	1.0	0.1	163	19.8	19.8	7.6	7.6	30.6	30.7	92.4	92.3	7.0		1.4		3			
					Gundoc	1.0	0.1	168	19.8	10.0	7.6	7.0	30.7	00.7	92.2	02.0	7.0	7.0	1.5		3			
SR2	Misty	Calm	08:24	4.8	Middle	-	0.0	147	-	_	-	_	-	_	-	_	-	7.0	-	2.3	-	3	821456	814153
ONE	iviloty	Gain	00.24	4.0	Wilddie	-	0.0	150	-		-		-		-		-		-	2.0	-	o	021400	014100
					Bottom	3.8	0.1	151	19.7	19.7	7.6	7.6	30.8	30.6	92.0	92.0	7.0	7.0	3.1		2			
					= +	3.8	0.0	153	19.7		7.6		30.3		92.0		7.0		3.0		3			
					Surface	1.0	0.0	132	20.8	20.8	8.0	8.0	28.6	28.7	95.0	95.0	7.2		1.3		4			
						1.0	0.0	135	20.7		8.0		28.8		94.9		7.2	7.2	1.3		4			
SR3	Cloudy	Moderate	08:33	8.2	Middle	4.1	0.1	128	20.5	20.5	8.0	8.0	29.5	29.5	95.4	95.5	7.2		2.5	2.4	3	4	822142	807581
						4.1 7.2	0.1	121 123	20.5		8.0		29.5		95.6		7.2		2.6		4			
					Bottom	7.2	0.1	119	20.5	20.5	8.0	8.0	29.7	29.7	95.9 95.9	95.9	7.3	7.3	3.5		3 4			
					Surface	1.0	0.0	284 276	20.5	20.5	8.2	8.2	29.7	29.7	104.8	104.7	7.9		2.3		3 4			
						4.5	0.0	289	20.5		8.2		29.7		104.6	1	7.9	7.9	2.7	1	4			
SR4A	Cloudy	Moderate	07:13	8.9	Middle	4.5	0.0	283	20.4	20.4	8.2	8.2	29.9	29.9	103.8	103.8	7.9		2.8	2.6	4	4	817196	807798
						7.9	0.0	280	20.4		8.2		30.0		103.7		7.9		3.0		4			
					Bottom	7.9	0.0	276	20.4	20.4	8.2	8.2	29.9	30.0	103.7	103.7	7.9	7.9	2.7	1	4			
			1			1.0	-	-	20.1		7.6		29.9		95.4		7.3		1.4		5			
					Surface	1.0	-	_	20.1	20.1	7.6	7.6	30.0	30.0	95.3	95.4	7.2		1.4		6			
000		0.1				-	-	_	-		-		-		-		-	7.3	-	1	-	_	000445	044005
SR8	Misty	Calm	08:50	4.8	Middle	-	-	-	-	-	-	-	-	1 - 1	-	i -	-		-	1.8	-	5	820413	811633
					Dettern	3.8	-	-	20.2	20.2	7.6	7.0	30.5	20.5	94.8	04.0	7.2	7.0	2.1	1	5			
					Bottom	3.8	-	-	20.2	20.2	7.6	7.6	30.5	30.5	94.7	94.8	7.2	7.2	2.1	1	4			

DA: Depth-Averaged

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

Water Qual	ity wonite	oning Resu	112 011		18 March 23	during Mid-	EDD HUG																	
Monitoring	Weather	Sea	Sampling	Water	Sampling Depti	n (m)	Current Speed	Current	Water Te	emperature (°C)	ŗ	Н	Salir	nity (ppt)		aturation (%)	Disso Oxy		Turbidity	y(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Depti	. ()	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Ourteen	1.0	0.2	201	21.4	04.4	8.1	0.4	28.7	00.0	111.4	444.5	8.3		6.6		4			
					Surface	1.0	0.1	208	21.4	21.4	8.1	8.1	28.9	28.8	111.5	111.5	8.3	0.4	7.4		3			
0.4			44.07			4.1	0.2	191	21.0	24.0	8.1		29.7		106.0	405.5	8.0	8.1	7.4	٦.,	4		0.45000	
C1	Cloudy	Moderate	11:07	8.2	Middle	4.1	0.2	196	21.0	21.0	8.1	8.1	29.7	29.7	106.0 105.4	105.7	7.9		7.4	6.4	4	4	815609	804255
					Bottom	7.2	0.2	184	21.0	21.0	8.0 8.0	8.0	29.9	29.8	96.6 96.4	96.5	7.2	7.2	4.9		4			
					Dollom	7.2	0.2	180	21.0	21.0	8.0	0.0	29.8	25.0	96.4	90.5	7.2	1.2	4.6		5			
					Surface	1.0	0.2	188	21.2	21.2	8.1	8.1	27.1	27.1	101.8	101.9	7.7		1.8		3			
					Sulface	1.0	0.2	187	21.1	21.2	8.1	0.1	27.1	21.1	101.9	101.9	7.7	7.7	1.9		4			
C2	Cloudy	Moderate	12:23	12.1	Middle	6.1	0.2	157	21.0	21.0	8.1	8.1	29.3	29.3	101.4	101.4	7.6	7.7	2.0	2.4	4	4	825683	806927
02	Cloudy	Moderate	12.25	12.1	ivildale	6.1	0.1	149	21.0	21.0	8.1	0.1	29.3	23.5	101.3	101.4	7.6		2.1	2.4	3	7	023003	000321
					Bottom	11.1	0.2	158	20.9	20.9	8.1	8.1	29.7	29.7	97.1	97.2	7.3	7.3	3.5		4			
					Bottom	11.1	0.3	154	20.9	20.0	8.1	0.1	29.7	20.1	97.3	07.2	7.3	7.0	3.4		4			
					Surface	1.0	0.2	79	20.0	20.0	7.9	7.9	31.1	31.1	94.2	94.2	7.1		1.6		4			
						1.0	0.2	80	20.0	20.0	8.0	7.0	31.1	0	94.1	02	7.1	7.1	1.6		4			
СЗ	Misty	Calm	09:38	11.6	Middle	5.8	0.1	89	20.0	20.0	8.0 7.9	7.9	31.2	31.2	93.4 93.4	93.4	7.1	/	4.2	3.6	4	4	822113	817787
	moty	- Cu	00.00		madio	5.8	0.1	92	20.0	20.0			31.2	01.2		00.1	7.1		4.2	0.0	4	·	022110	011101
					Bottom	10.6	0.2	99	20.0	20.0	8.0	8.0	31.1	31.1	93.7 93.8	93.8	7.1	7.1	5.1		5			
						10.6	0.2	93	20.0		8.0		31.1	_			7.1		5.2		4			
					Surface	1.0	0.1	187	21.2	21.2	8.2	8.2	29.6	29.7	116.9 116.7	116.8	8.7		1.9		3			
						1.0	0.1	182	21.2		8.2		29.7				8.7	8.5	1.9	4	4			
IM1	Cloudy	Moderate	11:29	6.5	Middle	3.3	0.1	192	20.9	20.9	8.1	8.1	30.2	30.2	110.5	110.4	8.3 8.3		7.5	5.6	3	3	818374	806450
						3.3	0.1	195	20.9		8.1		30.2		110.3				7.5	_	3			
					Bottom	5.5 5.5	0.1	181 179	20.8	20.8	8.1 8.1	8.1	30.6	30.5	109.1 108.9	109.0	8.2 8.2	8.2	7.6 7.4	-	3			
						1.0	0.1	189	21.3								8.7		2.2					
					Surface	1.0	0.1	192	21.3	21.3	8.2 8.2	8.2	29.4	29.5	116.3 116.0	116.2	8.7		2.2	-	3			
						3.5	0.1	175	21.3		8.1		29.7		115.2		8.6	8.7	4.2		4			
IM2	Cloudy	Moderate	11:34	7.0	Middle	3.5	0.1	175	21.1	21.1	8.1	8.1	29.8	29.8	115.2	115.2	8.6		4.8	4.4	3	4	819173	806250
						6.0	0.1	217	20.8		8.1		30.3				7.8		6.4	-	4			
					Bottom	6.0	0.1	216	20.9	20.9	8.1	8.1	30.2	30.2	104.1	104.1	7.8	7.8	6.9	-	4			
						1.0	0.1	178	21.8		8.2		27.0				7.8		1.4	<u> </u>	4			
					Surface	1.0	0.1	185	21.8	21.8	8.2	8.2	26.9	26.9	104.0 104.2	104.1	7.8	l l	1.5	1	3			
	<u>.</u>					3.9	0.1	194	21.0		8.2		29.6		106.3		8.0	7.9	2.6	1	3	_		
IM7	Cloudy	Moderate	11:58	7.8	Middle	3.9	0.0	194	21.0	21.0	8.2	8.2	29.6	29.6	106.1	106.2	8.0		2.6	2.3	4	4	821363	806831
					5	6.8	0.1	171	21.0		8.2		29.6		105.3	405.0	7.9		2.8	1	4			
					Bottom	6.8	0.1	168	21.0	21.0	8.2	8.2	29.6	29.6	105.2	105.3	7.9	7.9	2.8	1	5			
																				•				•

DA: Depth-Averaged

Water Quality Monitoring Results on

18 March 23 during Mid-Ebb Tide

Monitoring	Weather	Sea	Sampling	Water	Sampling De	oth (m)	Current Speed	Current	Water Te	emperature (°C)		рН	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 De	our (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	108	20.4	20.4	8.0	9.0	30.0	30.1	98.7	98.7	7.5		1.0		3			
					Surface	1.0	0.2	101	20.4	20.4	8.0	8.0	30.2	30.1	98.7	90.7	7.5	7.5	1.1		4			
IM10	Misty	Calm	10:45	8.2	Middle	4.1	0.2	94	20.4	20.4	8.0	8.0	30.4	30.4	98.7	98.8	7.5	7.5	1.8	1.8	3	3	822248	809819
IIVITO	iviioty	Caiiii	10.43	0.2	Middle	4.1	0.2	92	20.4	20.4	8.0	0.0	30.4	30.4	98.8	30.0	7.5		1.7	1.0	4	3	022240	003013
					Bottom	7.2	0.2	118	20.4	20.4	8.0	8.0	30.4	30.4	99.3	99.4	7.5	7.5	2.8		2			
						7.2	0.2	111	20.4		8.0		30.4		99.5		7.5		2.8		2			
					Surface	1.0	0.2	96	20.5	20.5	8.0	8.0	30.0	30.1	99.0	99.0	7.5		2.9		2			
						1.0 4.0	0.2	91	20.5		8.0		30.1		99.0		7.5	7.5	2.8		3			
IM11	Misty	Calm	10:38	8.0	Middle	4.0	0.2	111 105	20.4	20.4	8.0	8.0	30.3	30.3	99.0	99.0	7.5 7.5		3.8	4.0	3	3	821511	810525
						7.0	0.3	113	20.4		8.0		30.3		99.0		7.5		5.3		4			
					Bottom	7.0	0.3	109	20.4	20.4	8.0	8.0	30.4	30.4	99.2	99.2	7.5	7.5	5.2		3			
						1.0	0.2	100	20.4		8.0		30.4		99.5		7.5		1.0		2			
					Surface	1.0	0.2	99	20.4	20.4	8.0	8.0	30.4	30.4	99.5	99.5	7.5		1.1		3			
						3.8	0.2	80	20.4		8.0		30.4		99.8		7.5	7.5	1.3		4			
IM12	Misty	Calm	10:30	7.6	Middle	3.8	0.2	78	20.4	20.4	8.0	8.0	30.4	30.4	99.9	99.9	7.5		1.3	1.6	3	3	821169	811527
					Dallana	6.6	0.1	71	20.4	00.4	8.0	0.0	30.4	00.4	100.5	400.7	7.6	7.0	2.3		3			
					Bottom	6.6	0.2	73	20.4	20.4	8.0	8.0	30.4	30.4	100.8	100.7	7.6	7.6	2.3		4			
					Surface	1.0	0.0	96	20.1	20.1	7.9	7.0	30.3	30.4	100.3	100.4	7.6		3.4		2			
					Surface	1.0	0.0	102	20.0	20.1	7.9	7.9	30.4	30.4	100.5	100.4	7.6	7.6	3.5		2			
SR1A	Misty	Calm	10:09	4.4	Middle	2.2	0.0	86	-		-		-		-		-	7.0	-	3.7	-	3	819980	812662
SKIA	iviisty	Caiiii	10.09	4.4	Middle	2.2	0.1	80	-	-	-	_	-		-	_	-		•	3.7	-	3	019900	012002
					Bottom	3.4	0.0	70	19.9	19.9	7.9	7.9	30.7	30.6	100.8	100.8	7.7	7.7	4.0		4			
					Bottom	3.4	0.1	73	19.8	10.0	8.0	7.0	30.5	00.0	100.8	100.0	7.7	7.7	4.0		3			
					Surface	1.0	0.0	96	20.4	20.4	7.9	7.9	30.4	30.4	99.1	99.1	7.5		1.6		<2			
						1.0	0.0	97	20.3		7.9	-	30.4		99.1		7.5	7.5	1.6		<2			
SR2	Misty	Calm	09:54	5.6	Middle	-	0.1	118	-	-	-	-	-	-	-	-	-		-	1.8	-	<2	821479	814188
						-	0.1	123	-		-		-		-		-		-		-			
					Bottom	4.6 4.6	0.1	109 112	20.3	20.3	8.0	8.0	30.5	30.5	99.1	99.2	7.5 7.5	7.5	2.0		<2 <2			
	l I					1.0	0.0	167	21.3		8.1								1.0		2			
					Surface	1.0	0.2	170	21.3	21.3	8.1	8.1	27.8	27.8	97.0 97.4	97.2	7.3		1.1		3			
						4.2	0.3	161	21.0		8.1		29.3		99.2		7.5	7.4	1.6		3			
SR3	Cloudy	Moderate	12:05	8.3	Middle	4.2	0.3	158	21.0	21.0	8.1	8.1	29.3	29.3	99.2	99.2	7.5		1.7	1.4	3	3	822158	807570
					_	7.3	0.3	138	21.0		8.1		29.5		99.1		7.4		1.6		4			
					Bottom	7.3	0.3	134	21.0	21.0	8.1	8.1	29.5	29.5	99.2	99.2	7.5	7.5	1.7		3			
			Ì	Ì	Curtons	1.0	0.0	125	21.5	24.5	8.2	0.0	28.2	20.2	110.8	440.0	8.3		4.2		4			
				1	Surface	1.0	0.1	132	21.5	21.5	8.2	8.2	28.2	28.2	110.8	110.8	8.3	0.1	4.3		4			
SR4A	Cloudy	Moderate	10:44	0.2	Middle	4.6	0.0	108	20.9	20.9	8.2	8.2	29.7	29.7	104.6	104.6	7.9	8.1	4.0	4.2	4	3	817209	807816
SR4A	Cloudy	Moderate	10.44	9.2	Miladie	4.6	0.0	103	20.9	20.9	8.2	0.2	29.7	29.1	104.5	104.6	7.8		4.1	4.2	3	3	01/209	001010
				1	Bottom	8.2	0.1	128	20.9	20.9	8.1	8.1	29.8	29.8	104.4	104.4	7.8	7.8	4.2		2			
					Dottom	8.2	0.0	122	20.9	20.0	8.1	0.1	29.8	23.0	104.4	104.4	7.8	7.0	4.1		3			
					Surface	1.0	-	-	20.4	20.4	8.0	8.0	30.3	30.4	100.4	100.5	7.6		1.1		3			
				1		1.0	-	-	20.4	20	8.0	0.0	30.4		100.5		7.6	7.6	1.1		3			
SR8	Misty	Calm	10:24	5.0	Middle	-	-	-	-	-	-	-	-	-	-		-		-	1.9	-	3	820368	811623
						-	-	-	-		-		-		-		-		-		-	-		
				1	Bottom	4.0	-	-	20.3	20.4	8.0	8.0	30.5	30.4	100.3	100.5	7.6	7.6	2.8		2			
						4.0	-	-	20.4		8.0		30.3		100.7		7.6		2.8		2			

DA: Depth-Averaged

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

Water Qual	ity wonite	oning Resu	112 011		18 March 23	during Mid-	rioou ii	ue															
Monitoring	Weather	Sea	Sampling	Water	Sampling Dept	h (m)	Current Speed	Current	Water Te	emperature (°C)	pН	Sa	linity (ppt)		aturation (%)	Disso Oxy		Turbidity	y(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dept	11 (111)	(m/s)	Direction	Value	Average	Value Aver	ige Valu	e Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					0.1	1.0	0.2	37	21.3		8.2	29.3		113.7	440.0	8.5		2.0		3			
					Surface	1.0	0.2	40	21.2	21.3	8.2	29.4		112.8	113.3	8.4		2.1		2			
						4.2	0.3	15	21.0		9.2	20.6		105.5		7.9	8.2	2.5	1	3	_		
C1	Cloudy	Moderate	15:37	8.4	Middle	4.2	0.2	7	21.0	21.0	8.2	29.8		106.0	105.8	7.9	ŀ	2.8	3.6	3	3	815598	804230
					_	7.4	0.2	50	20.9		8.1	29.0		101.8		7.6		5.9		4			
					Bottom	7.4	0.3	49	20.9	20.9	8.1	29.9	29.9	101.8	101.8	7.6	7.6	6.0		4			
	ĺ				0	1.0	0.1	220	21.3	04.0	8.1	27.3	07.0	100.1	400.0	7.6		2.4		4			
					Surface	1.0	0.0	222	21.2	21.3	8.1	27.3		100.1	100.3	7.6	7.5	2.4		5			
C2	Cloudy	Moderate	14:12	11.6	Middle	5.8	0.0	240	20.9	20.9	8.1	29.4	29.5	100.5	98.9	7.6	7.5	8.5	6.0	4	4	825703	806961
62	Cloudy	Moderate	14.12	11.0	Middle	5.8	0.0	235	20.9	20.9	8.1	29.5	29.5	100.5 97.3	90.9	7.3		8.4	6.0	4	4	623703	800961
					Bottom	10.6	0.0	233	21.1	21.2	8.1	29.5		97.7	97.9	7.3	7.3	7.5		3			
					Bottom	10.6	0.1	228	21.2	21.2	8.1	29.5	29.5	98.1	31.3	7.3	7.5	7.1		3			
					Surface	1.0	0.3	255	20.7	20.7	7.8	30.8		100.2	100.2	7.5		1.2		2			
					Sulface	1.0	0.3	251	20.7	20.7	7.8	30.8	1	100.2	100.2	7.5	7.5	1.1		2			
C3	Misty	Calm	15:17	7.8	Middle	3.9	0.3	242	20.7	20.7	7.8 7.8	30.8		100.2 100.1	100.2	7.5	7.5	1.8	1.7	2	2	822114	817783
03	iviloty	Caim	15.17	7.0	Wilddle	3.9	0.4	236	20.6	20.7	7.8	30.8	;		100.2	7.5		1.8	1.7	3	2	022114	017703
					Bottom	6.8	0.3	237	20.6	20.7	7.8 7.8	30.7		99.9 100.0	100.0	7.5 7.5	7.5	2.1		3			
					50000111	6.8	0.3	232	20.7	20		30.3	1		100.0			2.1		2			
					Surface	1.0	0.1	8	21.3	21.3	8.1	29.6	29.7	119.8 119.8	119.8	8.9		1.5		2			
						1.0	0.1	1	21.2		8.1	29.7	·			8.9	8.6	1.6		2			
IM1	Cloudy	Moderate	15:18	6.5	Middle	3.3	0.1	15	21.0	21.0	8.1	30.2		110.5	110.4	8.3		1.4	4.2	3	3	818327	806472
	,					3.3	0.1	13	20.9		8.1	30.3	1	110.2		8.2		1.4	4	3			
					Bottom	5.5	0.2	39	20.9	20.9	8.1	30.4		110.1	110.2	8.2	8.2	10.0	_	4			
						5.5	0.1	36	20.9		8.1	30.3		110.2		8.2		9.2	1	3			
					Surface	1.0	0.1	333 327	21.0 21.0	21.0	8.2	29.8	29.9	118.8	118.6	8.9	-	1.7	_	2			
						3.6	0.0	304	20.9			20.1				8.9	8.6	1.8	-	4			
IM2	Cloudy	Moderate	15:12	7.2	Middle	3.6	0.0	310	20.9	20.9	8.2	30.1	30.1	110.3 109.6	110.0	8.3 8.2	ŀ	1.8	1.8	3	3	819162	806224
						6.2	0.0	301	20.9		8.1	30.3		105.5		7.9		1.9	-	4			
					Bottom	6.2	0.1	298	20.9	20.9	8.1	30.2		108.9	107.2	8.2	8.1	1.9	-	4			
						1.0	0.1	266	21.9		0.1	28.3		112.4				2.0	1	4			
					Surface	1.0	0.1	259	22.3	22.1	8.1	28.3	28.3	112.8	112.6	8.3 8.3		2.1	1	4			
<u>. </u>						3.9	0.1	285	21.1		0.1	20.6		107.4	407.6	8.0	8.2	2.6	۱	5	_	004005	00004-
IM7	Cloudy	Moderate	14:51	7.7	Middle	3.9	0.1	286	21.1	21.1	8.1	29.6		107.2	107.3	8.0	ŀ	2.7	2.5	4	5	821365	806843
					D. II.	6.7	0.1	287	21.0	04.0	8.1	29.6		106.7	400.7	8.0		2.9	1	6			
					Bottom	6.7	0.1	292	21.0	21.0	8.1	29.6		106.6	106.7	8.0	8.0	2.9		5			
DA: Depth-Aver	d				•	•						_	_	•					•				

DA: Depth-Averaged

Water Quality Monitoring Results on

18 March 23 during Mid-Flood Tide

water Qua	nty Monnt	orning ixcou	113 011		10 March 23	auring wia-	1 1000 1	luc																
Monitoring	Weather	Sea	Sampling	Water	Sampling De	anth (m)	Current Speed	Current	Water Te	emperature (°C)		рН	Salin	ity (ppt)		aturation (%)	Disse Oxy	olved /gen	Turbidity	(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Camping De	spur (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	257	20.8	20.8	7.9	7.9	27.8	27.8	97.1	97.0	7.4		1.1		6			
					Ourlace	1.0	0.1	251	20.8	20.0	7.9	7.5	27.8	27.0	96.8	37.0	7.4	7.3	1.1		5			
IM10	Misty	Calm	14:15	8.6	Middle	4.3	0.1	270	21.0	21.0	7.9	7.9	29.9	29.9	95.8	95.7	7.2	7.5	2.4	2.5	3	4	822244	809834
IIVITO	iviisty	Callii	14.13	0.0	Middle	4.3	0.1	268	21.0	21.0	7.9	7.5	29.9	25.5	95.6	93.7	7.2		2.5	2.5	4	4	022244	003034
					Bottom	7.6	0.1	248	21.2	21.2	7.9	7.9	29.8	29.8	95.3	95.4	7.1	7.1	4.0		3			
					Bottom	7.6	0.1	243	21.2	21.2	7.9	7.0	29.8	20.0	95.5	00.4	7.1		3.9		3			
					Surface	1.0	0.1	253	20.5	20.5	8.0	8.0	29.9	30.0	99.8	99.9	7.5		2.4		5			
						1.0	0.2	259	20.5	20.0	8.0	0.0	30.0	00.0	99.9	00.0	7.5	7.6	2.4		4			
IM11	Misty	Calm	14:23	7.2	Middle	3.6	0.2	263	20.5	20.5	8.0	8.0	30.2	30.3	100.1	100.2	7.6		2.7	2.8	3	4	821515	810537
	iiiioty	04	20		madio	3.6	0.2	262	20.4	20.0	8.0	0.0	30.3	00.0	100.2	.00.2	7.6		2.6		4		021010	0.000.
					Bottom	6.2	0.2	289	20.4	20.4	8.0	8.0	30.4	30.4	100.6	100.7	7.6	7.6	3.2		3			
					Bottom	6.2	0.2	286	20.4	20	8.0	0.0	30.4	00.1	100.7	100.1	7.6		3.3		3			
					Surface	1.0	0.2	297	20.7	20.8	7.9	7.9	29.7	29.7	99.0	99.0	7.5		1.0		3			
						1.0	0.2	296	20.8	20.0	7.9	7.0	29.8	20.7	98.9	00.0	7.4	7.4	1.1		4			
IM12	Misty	Calm	14:27	7.4	Middle	3.7	0.1	303	20.8	20.8	8.0	7.9	30.0	30.0	98.2	98.2	7.4		1.1	1.5	4	4	821153	811520
						3.7	0.2	300	20.8		7.9		30.0		98.2		7.4		1.2		3	•		
					Bottom	6.4	0.2	297	20.9	20.9	7.9	7.9	30.1	30.1	97.7	97.8	7.3	7.3	2.5		4			
						6.4	0.1	299	20.9		7.9		30.1		97.8		7.3		2.4		4			
					Surface	1.0	0.0	191	20.7	20.7	7.9	7.9	29.7	29.6	97.1	97.1	7.3		2.8		5			
						1.0	0.0	192	20.7		7.9		29.4		97.1		7.3	7.3	2.7		5			
SR1A	Misty	Calm	14:47	5.4	Middle	2.7	0.0	166	-	-	-			_	-	_	-		-	3.2	-	5	819970	812664
						2.7	0.0	161	-		-		-		-		-		-		-	-		
					Bottom	4.4	0.0	166	20.6	20.6	7.9	7.9	29.9	30.0	96.9	96.9	7.3	7.3	3.5		5			
						4.4	0.0	165	20.6		7.9		30.0		96.8		7.3		3.6		4			
					Surface	1.0	0.1	253	21.1	21.1	7.9	7.9	30.0	30.0	99.4	99.5	7.4		1.7	ļ	2			
						1.0	0.1	252	21.1		7.9		30.0		99.5		7.4	7.4	1.7	Į.	3			
SR2	Misty	Calm	14:58	4.8	Middle	-	0.1	230	-	-	-	_	-	_	-	-	-		-	1.8	-	3	821477	814157
						-	0.1	230	-		-		-		-		-		-		-	-		
					Bottom	3.8	0.1	254	21.2	21.3	7.9	7.9	30.0	29.9	99.9	100.0	7.4	7.5	1.9	Į.	3			
						3.8	0.1	257	21.3		7.9		29.9		100.1		7.5		1.9		2			
					Surface	1.0	0.1	213	21.4	21.4	8.1	8.1	27.9	28.0	96.9	97.0	7.3		1.2	l	4			
						1.0	0.1	216	21.3		8.1		28.0		97.0		7.3	7.4	1.2	l	4			
SR3	Cloudy	Moderate	14:45	8.4	Middle	4.2	0.0	203	21.0	21.0	8.1	8.1	29.1	29.1	97.9	98.0	7.4		5.0	3.6	2	3	822128	807564
						4.2	0.1	199	21.0		8.1		29.1		98.1		7.4		5.4	ļ	2			
					Bottom	7.4	0.1	216	21.0	21.0	8.1	8.1	29.4	29.4	98.2	98.2	7.4	7.4	4.1	ł	3			
						7.4	0.1	218	21.0		8.1		29.4		98.2		7.4		4.5		3			
					Surface	1.0	0.0	251	22.1	22.2	8.1	8.1	28.2	28.2	114.5	114.4	8.5		2.4	ļ	3			
						1.0	0.1	243	22.2		8.1		28.2		114.3		8.5	8.4	2.5	ļ	3			
SR4A	Cloudy	Moderate	15:59	9.1	Middle	4.6	0.0	269	21.0	21.0	8.1	8.1	29.3	29.3	110.0	109.6	8.3		3.5	3.5	3	3	817173	807826
						4.6	-	271	21.0		8.1		29.4		109.1		8.2		3.6	ł	3			
					Bottom	8.1	0.0	249	21.0	21.0	8.1	8.1	29.5 29.5	29.5	105.1 105.4	105.3	7.9	7.9	4.5 4.5	ł	3 2			
						8.1	0.1	241	21.0								7.9							
					Surface	1.0	-	-	20.9	20.9	8.0	8.0	29.1	29.1	100.1	100.1	7.6	-	3.6	ł	3			
						1.0	-	-	20.8		8.0	!	29.1		100.1		7.5	7.6	3.5	ł	4			
SR8	Misty	Calm	14:32	5.6	Middle	-	-	-	-	-	-	4 -	-	-	-	-	-		-	3.8	-	3	820376	811613
						- 4.6	-	-	- 20.0		-	 	- 20.6		- 100.2		- 7.5		- 4.1		3			
					Bottom	4.6	-	-	20.9	20.9	8.0	8.0	28.6	28.1	100.3	100.4	7.5 7.6	7.6	4.1 4.1	1				
DA: Dooth Avo				1		4.6	-	-	20.9		8.0		21./		100.5		7.6		4.1		3			

DA: Depth-Averaged

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

Monitoring Station Weather Sea Sampling Depth (m) Sampling Depth	Coordinate HK Grid (Northing) Coordinate HK Grid (Easting)
Station Condition Time Depth (m)	
C1 Cloudy Moderate 11:52 8.7 Middle 1.0 0.0 147 21.0 21.1 8.0 8.0 30.1 30.1 103.9 7.8 7.8 4.7 4.4 0.1 160 20.5 20.5 8.0 8.0 31.5 31.5 102.7 7.7 7.7 4.8 4.8 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5	
C1 Cloudy Moderate 11:52 8.7 Middle 4.4 0.1 160 20.5 4.4 0.1 159 20.5 8.0 8.0 31.5 102.7 7.7 7.8 4.8 5 5 5 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2 6.2	
C1 Cloudy Moderate 11:52 8.7 Middle 4.4 0.1 160 20.5 20.5 8.0 8.0 8.0 31.5 102.7 7.7 4.7 4.7 4.8 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5.5 5	
7.7 0.1 161 20.5 20.5 8.0 20 31.9 24.0 101.8 404.0 7.6 7.6 6.2 6	815613 804231
	013013 004231
7.7 0.0 163 20.5 20.5 8.0 6.0 31.9 101.7 101.6 7.6 7.6 6.3 5	
Surface 1.0 0.5 175 21.2 21.2 7.8 7.8 28.8 93.7 93.8 7.0 4.9 6	
1.0 0.5 179 21.2 7.8 28.8 93.8 7.0 7.0 4.9 5	
C2 Cloudy Modorate 12:16 11:0 Middle 6:0 0:5 182 20:8 20:9 7:9 7:0 30:0 92:2 92:2 6:9 7:7 7:0 6 6:0 6:	825703 806960
	023703 000300
Bottom 10.9 0.5 174 20.8 20.8 7.8 7.8 30.1 30.1 93.0 93.1 7.0 7.0 10.9 8	
10.9 0.5 169 20.8 7.8 30.1 93.1 7.0 10.6 7	
Surface 1.0 0.3 79 21.4 21.4 8.1 8.1 29.4 29.4 95.5 95.5 7.1 2.8 6 5	
3.7 0.3 66 21.4 18.1 29.5 195.6 7.1 1 3.5 5	822125 817823
3.7 0.3 60 21.4 8.1 29.5 95.8 7.1 3.5 4	022120 017020
Bottom 6.4 0.3 88 21.4 21.4 8.1 8.1 29.5 29.5 96.2 96.5 7.2 7.2 5.0 5	
6.4 0.3 80 21.4 8.1 29.5 96.7 7.2 5.0 4	
Surface 1.0 0.1 189 21.1 21.1 7.9 7.9 30.3 30.3 99.3 99.3 7.4 4.9 5 6	
M4 Cloudy Moderate 13:12 6.9 Middle 3.4 0.1 184 21.0 31.0 7.9 7.0 30.4 30.4 98.9 09.0 7.4 5.0 4.0 7 6.0	818354 806487
	010001
Bottom 5.8 0.1 160 20.9 20.9 7.9 7.9 30.8 30.8 99.4 7.4 7.4 4.9 6 7	
Surface 1.0 0.1 156 21.0 21.0 7.9 7.9 30.3 30.3 98.7 98.7 7.4 4.5 7	
1.0 0.0 149 21.0 7.9 30.4 98.6 7.4 7.4 4.6 7	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	819178 806238
3.9 0.1 135 20.9 7.9 30.5 98.0 7.3 7.5 6	
Bottom 6.7 0.1 167 20.7 20.7 7.9 7.9 31.0 31.0 97.2 97.2 7.3 7.3 9.3 7	
6.7 0.1 174 20.7 7.9 31.0 97.2 7.3 10.0 6	
Surface 1.0 0.2 143 21.2 21.2 7.9 7.9 29.6 29.6 97.1 97.2 7.3 4.3 5	
1.0 0.2 136 21.2 7.9 29.6 97.2 7.3 7.3 4.5 6	
M7 Cloudy Moderate 12/46 83 Middle 4.2 0.2 133 21.0 21.0 7.9 7.9 30.1 30.1 96.2 96.2 7.2 6.1 5.8 6 6	821371 806814
4.2 0.2 137 21.0 7.9 7.5 30.1 30.2 7.2 6.1 5.5 5	
Bottom 7.3 0.2 141 20.9 20.9 7.9 7.9 30.2 95.6 95.8 7.2 7.2 6.1 7	

DA: Depth-Averaged

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

			113 011		ZT March 23	during wild-	_																	
Monitoring	Weather	Sea	Sampling	Water	Sampling Dept	h (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)	запринд Бери	ii (iii <i>)</i>	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Curfoco	1.0	0.2	76	21.4	21.4	8.1	8.1	28.3	20.2	92.4	02.4	6.9		3.3		6			
]					Surface	1.0	0.2	73	21.4	21.4	8.1	0.1	28.4	28.3	92.3	92.4	6.9	6.9	3.4		5			
IM10	Misty	Calm	11:29	9.0	Middle	4.5	0.2	68	21.4	21.4	8.1	8.1	28.4	28.4	92.0	92.1	6.9	0.9	4.3	4.4	5	5	822236	809850
IIVITO	iviioty	Callii	11.29	9.0	ivildule	4.5	0.1	68	21.4	21.4	8.1	0.1	28.5	20.4	92.1	92.1	6.9		4.4	4.4	5	3	022230	009030
					Bottom	8.0	0.1	76	21.4	21.4	8.1	8.1	28.5	28.5	92.2	92.3	6.9	6.9	5.5		4			
					201.0111	8.0	0.1	82	21.4		8.1		28.5	20.0	92.4	02.0	6.9	0.0	5.6		5			
					Surface	1.0	0.2	88	21.4	21.4	8.1	8.1	29.1	29.1	96.6	96.7	7.2		1.1		4			
						1.0	0.2	87	21.4		8.1		29.1		96.7		7.2	7.2	1.1		4			
IM11	Misty	Calm	11:34	6.8	Middle	3.4	0.2	67	21.5	21.5	8.1	8.1	29.1	29.1	96.8	96.8	7.2		2.6	2.4	5	5	821499	810546
						3.4	0.1	74	21.5		8.1		29.1		96.8		7.2		2.5		6			
					Bottom	5.8 5.8	0.2	54 51	21.4	21.4	8.1	8.1	29.1	29.1	96.9 97.0	97.0	7.2	7.2	3.5		<u>6</u> 5			
						1.0	0.2	80																
					Surface	1.0	0.2	76	21.5 21.4	21.5	8.1	8.1	29.4	29.4	96.9 96.9	96.9	7.2		1.0		5 5			
						3.7	0.2	83	21.4		8.1		29.4		96.8		7.2	7.2	1.6		5			
IM12	Misty	Calm	11:40	7.4	Middle	3.7	0.3	85	21.4	21.4	8.1	8.1	29.4	29.4	96.7	96.8	7.2		1.5	1.7	6	5	821164	811540
					_	6.4	0.2	106	21.4		8.1		29.5		96.7		7.2		2.6		6			
					Bottom	6.4	0.2	109	21.4	21.4	8.1	8.1	29.5	29.5	96.7	96.7	7.2	7.2	2.5		5			
						1.0	0.0	77	21.5		8.1		29.5		95.3		7.1		1.2		4			
					Surface	1.0	0.0	82	21.5	21.5	8.1	8.1	29.5	29.5	95.4	95.4	7.1		1.2		4			
2544						2.5	0.0	48	-		-		-		-		-	7.1	-		-	_	0.400=4	0.40000
SR1A	Misty	Calm	11:57	5.0	Middle	2.5	0.0	49	-	-	-	-	-	-	-	-	-		-	1.7	-	5	819971	812660
					Deller	4.0	-	60	21.4	04.4	8.1	0.4	29.5	00.5	95.6	05.0	7.1	7.4	2.2		5			
					Bottom	4.0	0.0	65	21.3	21.4	8.1	8.1	29.5	29.5	95.9	95.8	7.1	7.1	2.3		5			
					Surface	1.0	0.2	65	21.5	21.5	8.2	8.2	29.4	29.4	96.2	96.2	7.2		1.9		6			
					Sullace	1.0	0.2	71	21.5	21.5	8.2	0.2	29.4	25.4	96.2	90.2	7.2	7.2	1.8		6			
SR2	Misty	Calm	12:50	5.0	Middle	-	0.2	49	-	_	-	_	-		-	_	-	1.2	-	1.9	-	6	821450	814160
OILE	iviloty	Cairi	12.50	3.0	Wildale	-	0.2	50	-		-		-		-		-		-	1.5	-	U	021430	014100
					Bottom	4.0	0.2	76	21.5	21.5	8.2	8.2	29.4	29.4	96.2	96.2	7.2	7.2	2.0		6			
					201.0111	4.0	0.3	69	21.4	21.0	8.2	0.2	29.4	20	96.2	00.2	7.2		1.9		5			
					Surface	1.0	0.4	156	21.1	21.1	7.8	7.8	29.0	29.0	92.9	92.9	7.0		3.2		5			
						1.0	0.3	162	21.1		7.8		29.0		92.9		7.0	7.0	3.3		5			
SR3	Cloudy	Moderate	12:54	9.6	Middle	4.8	0.3	154	20.9	20.9	7.8	7.8	29.6	29.6	93.4	93.5	7.0		5.5	5.3	5	6	822134	807576
						4.8 8.6	0.4	155 169	20.9		7.8		29.6		93.6		7.0		5.6	-	6 8			
					Bottom	8.6	0.3	169	21.0 21.0	21.0	7.8	7.8	29.8	29.8	95.4 95.5	95.5	7.1	7.2	7.0		7			
<u> </u>	1			1		1.0	0.0	105	21.0		7.8		29.8		98.9		7.4		6.1		10			
					Surface	1.0	0.0	112	21.1	21.1	7.9	7.9	29.9	29.9	98.9	98.9	7.4		6.1		9			
I						4.6	0.0	94	20.9		7.9		30.2		98.1		7.3	7.4	7.3		11			
SR4A	Cloudy	Moderate	11:30	9.2	Middle	4.6	-	97	20.9	20.9	7.9	7.9	30.2	30.2	98.1	98.1	7.3		7.3	7.1	10	11	817172	807815
						8.2	0.0	88	20.9		7.8		30.2		98.0		7.3		7.9	1	11			
					Bottom	8.2	0.0	86	20.9	20.9	7.8	7.8	30.2	30.2	98.0	98.0	7.3	7.3	7.9		12			
					Curtosa	1.0	-	-	21.3	24.4	8.1	0.4	29.4	20.4	97.3	07.0	7.3		2.6		5			
					Surface	1.0	-	-	21.4	21.4	8.1	8.1	29.4	29.4	97.3	97.3	7.3	7.3	2.7	1	6			
SR8	Micty	Calm	11:48	4.8	Middle	-	-	-	-		-		-		-		-	1.3	-	3.7	-	5	820397	811615
SNO	Misty	Callii	11.40	4.0	iviluale	-	-	1	-		-		-	<u> </u>	-		-		-	3.1	-	5	020397	011015
					Bottom	3.8	-	-	21.3	21.3	8.1	8.1	29.4	29.4	97.5	97.6	7.3	7.3	4.6		5			
DA: Dooth Aver					Dottom	3.8	-	-	21.3	21.0	8.1	0.1	29.4	20.7	97.6	37.0	7.3	7.5	4.7		5			

DA: Depth-Averaged

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

Water Qual	ity wonite	oring Resu	115 011		21 March 23	during Mid-	rioou ii	ue																
Monitoring	Weather	Sea	Sampling	Water	Sampling Dept	h (m)	Current Speed	Current	Water Te	mperature (°C)	рН		Salin	ity (ppt)		Saturation (%)	Disso		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 Ave	erage	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
						1.0	0.5	24	20.9		8.0		30.3		99.3		7.4		9.0		8			
					Surface	1.0	0.5	20	20.9	20.9	8.0		30.3	30.3	99.3 99.3	99.3	7.4		9.3		9			
						4.3	0.4	27	20.9		9.0		30.4		99.1		7.4	7.4	10.3		8			
C1	Cloudy	Moderate	08:22	8.6	Middle	4.3	0.4	24	20.9	20.9	8.0		30.4	30.4	99.1	99.1	7.4		10.4	9.3	8	8	815596	804233
					_	7.6	0.4	44	20.9		7.0		30.3				7.4		8.6		8			
					Bottom	7.6	0.4	49	20.9	20.9	7.9		30.3	30.3	98.7 98.7	98.7	7.4	7.4	8.2		8			
					Surface	1.0	0.1	353	21.1	21.1	7.8 .	7.8	27.7	27.7	90.6	90.6	6.9		4.8		8			
					Surface	1.0	0.1	349	21.1	21.1	7.8 7.8	7.8	27.7	21.1	90.6	90.6	6.9	6.9	4.8		8			
C2	Cloudy	Moderate	06:42	11.2	Middle	5.6	0.2	349	21.0	21.0	7.8	7.8	28.0	28.1	91.0	91.1	6.9	6.9	5.4	6.9	8	8	825664	806923
02	Cloudy	Moderate	00.42	11.2	Middle	5.6	0.1	351	21.0	21.0	7.8	7.0	28.1	20.1	91.1	31.1	6.9		5.6	0.9	9	o	023004	000923
					Bottom	10.2	0.2	329	21.0	21.0	7.8		28.2	28.1	91.3	91.3	6.9	6.9	10.8		8			
					Dottom	10.2	0.2	327	21.0	21.0	7.8		28.1	20.1	91.3	31.5	6.9	0.5	10.3		8			
					Surface	1.0	0.5	264	21.4	21.4	8.1		29.4	29.4	91.8 91.7	91.8	6.8		4.6		5			
					Ounace	1.0	0.6	266	21.4	21.4	8.1		29.4	20.4		31.0	6.8	6.8	4.6		5			
С3	Misty	Calm	07:53	9.8	Middle	4.9	0.5	276	21.4	21.4	8.1		29.4	29.4	91.0 90.9	91.0	6.8	0.0	5.1	5.4	5	5	822111	817782
00	Wiloty	Cami	07.00	0.0	Wildale	4.9	0.5	275	21.4	21.4	8.1		29.4	20.4		01.0	6.7		5.2	0.4	5	Ü	OZZIII	011102
					Bottom	8.8	0.5	275	21.4	21.4	8.1		29.4	29.4	91.0 91.2	91.1	6.8	6.8	6.4		4			
						8.8	0.5	282	21.4	=	8.1		29.3				6.8		6.3		5			
					Surface	1.0	0.3	28	20.9	20.9	7.9		30.1	30.1	98.6 98.6	98.6	7.4		6.8		9			
						1.0	0.3	20	20.9		7.9		30.1				7.4	7.4	6.8		8			
IM1	Cloudy	Moderate	07:47	6.8	Middle	3.4	0.3	16	20.9	20.9	7.9		30.2	30.2	98.6 98.6	98.6	7.4		8.4	8.8	10	10	818352	806477
						3.4 5.8	0.3	13 1	20.9		7.9 7.9		30.2				7.4 7.4		9.2 10.7	-	9			
					Bottom	5.8	0.3	0	20.9	20.9	7.9		30.2	30.2	99.0 99.1	99.1	7.4	7.4	10.7	-	12			
						1.0	0.2	20	21.0		7.0		29.8				7.4		8.1		8			
					Surface	1.0	0.3	18	21.0	21.0	7.9	7.9	29.9	29.9	98.4 98.2	98.3	7.4		8.4		7			
			07.40			3.6	0.3	3	20.9		7.0		30.0					7.4	10.8	٠	7		0.4040=	
IM2	Cloudy	Moderate	07:40	7.2	Middle	3.6	0.2	359	20.9	20.9	7.9	7.9	30.1	30.0	97.6 97.6	97.6	7.3 7.3		10.2	9.8	8	8	819197	806237
					Dallana	6.2	0.3	15	20.9	20.0	7.0		30.1	00.4		97.6	7.3	7.3	10.8		9			
					Bottom	6.2	0.3	12	20.9	20.9	7.9		30.1	30.1	97.5 97.6	97.6	7.3	7.3	10.3		10			
					Surface	1.0	0.2	331	21.0	21.0	7.8 .	7.8	28.5	28.5	93.7	93.8	7.1		5.0		8			
					Sullace	1.0	0.2	328	21.0	21.0	7.8		28.6	20.0	93.7 93.8	93.0	7.1	7.1	5.2		9			
IM7	Cloudy	Moderate	07:16	8.2	Middle	4.1	0.2	346	20.9	20.9	7.8		29.7	29.7	94.7 94.8	94.8	7.1	7.1	11.5	9.7	8	8	821325	806845
11717	Cioddy	Wioderale	07.10	0.2	iviidule	4.1	0.2	342	20.9	20.9	7.8		29.7	23.1		34.0	7.1		11.7	3.7	8	J	02 1323	000043
					Bottom	7.2	0.2	342	20.9	20.9	7.8		29.9	29.9	94.9 95.0	95.0	7.1	7.1	12.1	1	8			
					Dollom	7.2	0.2	341	20.9	20.0	7.8	, .0	29.9	20.0	95.0	33.0	7.1	7.1	12.6		8			
DA: Depth-Aver	and a state of																							

DA: Depth-Averaged

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

water Quar	ity wont	orning incou	113 011		Z I Walch 23	auring wia-	1 1000 1	ue																
Monitoring	Weather	Sea	Sampling	Water	Sampling Dep	th (m)	Current Speed	Current	Water Te	emperature (°C)		рН	Salin	nity (ppt)	DO S	aturation (%)	Disso Oxy	olved gen	Turbidity	(NTU)	Suspender (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Camping Dep	(111)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.4	290	21.4	21.4	8.1	8.1	27.7	27.8	93.9	94.0	7.0		3.5		6			
					Cundoo	1.0	0.4	287	21.4		8.1	0	27.9	27.0	94.1	00	7.0	7.0	3.5		6			
IM10	Misty	Calm	09:00	8.6	Middle	4.3	0.3	278	21.4	21.4	8.1	8.1	28.9	29.0	94.2	94.3	7.0		4.5	4.6	6	6	822258	809860
	. ,					4.3	0.3	270	21.4		8.1		29.1		94.4		7.0		4.6	1	6			
					Bottom	7.6	0.4	275	21.4	21.4	8.1	8.1	29.4	29.3	94.8	94.9	7.0	7.1	5.9	-	6			
						7.6	0.4	281	21.4		8.1		29.3		95.0		7.1		5.9	<u> </u>	7			
					Surface	1.0	0.4	272 269	21.4 21.5	21.5	8.1 8.1	8.1	26.6 26.7	26.7	94.8 95.0	94.9	7.1 7.1		2.9	1	7 8			
						4.0	0.4	209	21.5		8.1		28.9		95.0		7.1	7.1	3.4	-	8			
IM11	Misty	Calm	08:55	8.0	Middle	4.0	0.4	284	21.3	21.5	8.1	8.1	28.9	28.9	95.2	95.2	7.1		3.3	3.6	6	7	821520	810543
						7.0	0.3	290	21.4		8.1		29.7		95.2		7.1		4.5	1	7			
					Bottom	7.0	0.4	283	21.4	21.4	8.1	8.1	29.7	29.7	95.2	95.2	7.1	7.1	4.5	1	7			
						1.0	0.4	298	21.4		8.1		27.8		96.0		7.2		1.8		4			
					Surface	1.0	0.5	294	21.5	21.5	8.1	8.1	27.9	27.9	96.0	96.0	7.2		1.7	1	5			
						3.6	0.4	302	21.4		8.1		28.1		95.9		7.2	7.2	2.8	1	6			
IM12	Misty	Calm	08:50	7.2	Middle	3.6	0.4	296	21.4	21.4	8.1	8.1	28.2	28.2	95.9	95.9	7.2		2.8	2.6	5	5	821147	811533
					5	6.2	0.4	275	21.4		8.1		28.5		95.8		7.1		3.0	1	5			
					Bottom	6.2	0.4	271	21.4	21.4	8.1	8.1	28.5	28.5	95.6	95.7	7.1	7.1	3.5	1	6			
					0.7	1.0	0.1	203	21.4		8.1		28.3		94.7	24.0	7.1		2.4		3			
					Surface	1.0	0.1	200	21.4	21.4	8.1	8.1	28.3	28.3	94.9	94.8	7.1	7.1	2.5		3			
CD4A	Minter	Calm	00.00	4.4	M:dalla	2.2	-	207	-		-		-		-		-	7.1	-	2.0	-	4	040070	040055
SR1A	Misty	Calm	08:28	4.4	Middle	2.2	0.0	210	-	-	-	1 -	-	-	-	-	-		-	2.6	-	4	819978	812655
					Bottom	3.4	0.0	198	21.5	21.5	8.1	8.1	28.3	28.2	95.8	95.9	7.1	7.2	2.7	1	4			
					Dollom	3.4	0.1	194	21.5	21.5	8.1	0.1	28.2	20.2	95.9	33.3	7.2	1.2	2.7		5			
					Surface	1.0	0.1	246	21.4	21.4	8.1	8.1	30.0	30.0	95.7	95.7	7.1		1.2		4			
					Odnace	1.0	0.2	241	21.4	21.4	8.1	0.1	30.0	30.0	95.7	33.7	7.1	7.1	1.2		4			
SR2	Misty	Calm	08:13	4.2	Middle	-	0.1	241	-	_	-		-	_	-		-	/	-	1.7	-	4	821462	814180
ONE	iviioty	Odim	00.10	7.2	Wildalo	-	0.1	245	-		-		-		-		-		-	1	-	7	021402	014100
					Bottom	3.2	0.1	248	21.4	21.4	8.1	8.1	30.1	30.1	95.8	95.8	7.1	7.1	2.2		5			
					201.0111	3.2	0.1	249	21.4		8.1	0	30.1	00	95.8	00.0	7.1		2.2		4			
					Surface	1.0	0.2	330	21.0	21.0	7.9	7.9	27.9	27.9	90.6	90.6	6.9		4.1	_	7			
						1.0	0.3	334	21.0		7.9		28.0	-	90.6		6.9	6.9	4.2	_	8			
SR3	Cloudy	Moderate	07:05	8.2	Middle	4.1	0.2	325	21.0	21.0	7.9	7.9	28.2	28.2	90.7	90.7	6.9		5.1	5.1	8	8	822140	807567
						4.1	0.3	320	21.0		7.9		28.2		90.7		6.9		5.1	-	8			
					Bottom	7.2	0.3	331	21.0	21.0	7.9	7.9	28.4	28.4	90.5	90.5	6.8	6.8	6.0	4	8			
						7.2	0.2	327	21.0		7.9	1	28.4				6.8		6.0	1	8			
					Surface	1.0	0.0	253	20.9	20.9	7.9	7.9	30.2	30.2	98.3 98.3	98.3	7.4		9.1	1	7 8			
						1.0 4.4	0.0	249 262									7.4	7.4	9.1 12.4	1				
SR4A	Cloudy	Moderate	08:50	8.8	Middle	4.4	0.0	268	20.9	20.9	7.9	7.9	30.4	30.4	98.0 98.0	98.0	7.3 7.3		12.4	11.4	<u>8</u> 7	8	817174	807833
						7.8	0.1	277	20.9								7.3		12.8	-	8			
					Bottom	7.8	0.0	270	20.9	20.9	7.9	7.9	30.4	30.4	98.0 98.0	98.0	7.3	7.3	12.8	1	9			
				<u> </u>		1.0	-	-	21.3		8.1		29.1		96.6		7.2		2.6	<u> </u>	4			
					Surface	1.0	-	-	21.3	21.4	8.1	8.1	29.1	29.1	96.5	96.6	7.2		2.6	1	5			
						-	-	-	-		-		-		-		-	7.2	-	1	-			
SR8	Misty	Calm	08:45	5.0	Middle	-	-		-	-	-	-	_	-	-	-	-			3.5	-	6	820407	811621
						4.0	-	-	21.5		8.1	<u> </u>	29.2		95.9		7.1		4.4	1	6			
					Bottom	4.0	-	_	21.5	21.5	8.1	8.1	29.2	29.2	95.7	95.8	7.1	7.1	4.5	1	7			
				I.	1	7.0		1	21.0		0.1	1	20.2		55.7	1	7		7.0	1				

DA: Depth-Averaged

Water Quality Monitoring Results on 23 March 23 during Mid-Ebb Tide

water Quar	ity Monit	oring Resu	115 011		23 March 23	during Mid-	EDD HUG	<u> </u>																
Monitoring	Weather	Sea	Sampling	Water	O a mare the Co.	h ()	Current Speed	Current	Water Te	emperature (°C)		рН	Salinit	ty (ppt)		aturation (%)	Dissolve Oxygen		urbidity(NTU)	Suspend (mg	ed Solids g/L)	Coordinate	Coordinate
Station	Condition	Condition	Time	Depth (m)	Sampling Dept	n (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value D	A V	/alue	DA	Value	DA	HK Grid (Northing)	HK Grid (Easting)
					1	1.0	0.4	197	21.7		8.0		30.4		96.4		7.1	-	7.2		7			
					Surface	1.0	0.4	203	21.7	21.7	8.0	8.0	30.4	30.4	96.3	96.4	7 1		7.8		7			
						4.3	0.4	210	21.6				30.6		95.9		7.1	1	9.4		7			
C1	Cloudy	Moderate	14:18	8.5	Middle	4.3	0.4	207	21.6	21.6	8.0	8.0	30.6	30.6	95.9	95.9	7.1		9.4	8.8	8	7	815623	804230
					Bottom	7.5	0.4	205	21.5	21.5	8.0 8.0	8.0	30.7	30.7	95.7	95.8	7.1 7	1	9.6		8			
					BOILOITI	7.5	0.4	198	21.5	21.5	8.0	6.0	30.7	30.7	95.8	95.6	7.1	. 1	9.3		7			
					Surface	1.0	0.2	149	21.8	21.8	8.0	8.0	29.2	29.2	95.0	95.0	7.0		5.3		6			
					Ounace	1.0	0.2	146	21.8	21.0	8.0	0.0	29.2	23.2	95.0	33.0	7.0	()	5.5		6			
C2	Cloudy	Moderate	12:39	11.5	Middle	5.8	0.1	141	21.8	21.8	8.0	8.0	29.3	29.3	94.7	94.7	7.0		6.2	7.2	6	6	825696	806938
02	O.Ouu,	moderate	12.00		madio	5.8	0.1	140	21.8	21.0		0.0	29.3	20.0	94.6	0	7.0		6.9		6	Ü	020000	000000
					Bottom	10.5	0.2	177	21.8	21.8	8.0	8.0	29.3	29.3	94.7	94.7	7.0 7		9.6		6			
						10.5	0.2	180	21.8				29.3		94.7	_	7.0		9.5		6			
					Surface	1.0	0.4	90	21.3	21.3	8.2	8.2	30.2	30.2	94.4	94.3	7.0		4.2		9			
						1.0	0.4	96	21.3		8.2		30.2		94.2		7.0 7		4.2		10			
C3	Misty	Moderate	13:30	7.2	Middle	3.6	0.4	64	21.0 21.0	21.0	8.2	8.2	30.5	30.5	94.1 94.5	94.3	7.0		5.7 5.6	5.3	10	10	822125	817825
						6.2	0.4	63 88	20.9				30.6		94.5				6.0		10 10			
					Bottom	6.2	0.4	88	20.9	20.9	8.2	8.2	30.8	30.8	94.4	94.5	7.0 7		6.1		11			
						1.0	0.4	186	21.6				30.7		99.0		7.3		5.2		7			
					Surface	1.0	0.2	188	21.6	21.6	8.1 8.1	8.1	30.7	30.7	98.8	98.9	7.3		5.4		6			
	O					3.1	0.2	174	21.6		8.0		30.7		98.2		7.2	٠,	6.8		6		0400=0	
IM1	Cloudy	Moderate	13:54	6.2	Middle	3.1	0.2	175	21.6	21.6	8.0	8.0	30.7	30.7	98.1	98.2	7.2		7.0	6.3	6	6	818356	806465
					Dattana	5.2	0.3	188	21.5	21.5	8.0	8.0	30.7	30.7	97.8	97.8	7.2	2	7.0		6			
					Bottom	5.2	0.3	184	21.5	21.5	8.0	8.0	30.7	30.7	97.7	97.8	7.2	.2	6.3		6			
					Surface	1.0	0.2	176	21.7	21.7	8.1	8.1	30.6	30.6	99.0	99.0	7.3		3.7		6			
					Sunace	1.0	0.2	171	21.6	21.7	8.1	0.1	30.6	30.0	98.9	33.0	7.3 7.3 7		3.7		6			
IM2	Cloudy	Moderate	13:49	7.5	Middle	3.8	0.2	195	21.6	21.6	8.0	8.0	30.6	30.6	98.0	98.0	7.2		3.7	5.9	6	7	819172	806235
IIVIZ	Cloudy	Woderate	15.45	7.5	Middle	3.8	0.2	195	21.6	21.0	8.0	0.0	30.6	30.0	97.9	30.0	7.2		4.0	5.5	7	,	013172	000255
					Bottom	6.5	0.2	169	21.6	21.6	8.0	8.0	30.6	30.6	97.7	97.7	7.2 7.2		10.1		7			
					Bottom	6.5	0.2	168	21.6	21.0		0.0	30.6	00.0	97.7	0			10.2		8			
					Surface	1.0	0.2	93	21.7	21.7	8.0	8.0	29.8	29.8	95.3	95.3	7.1		8.5		10			
						1.0	0.3	87	21.6				29.9		95.3		7.1 7		9.3		9			
IM7	Cloudy	Moderate	13:14	8.7	Middle	4.4	0.2	99	21.6	21.6	8.0	8.0	30.1	30.1	95.1	95.2	7.0		11.4	10.9	10	10	821333	806833
	-					4.4	0.2	100	21.6		8.0		30.1		95.2		7.0		11.5		10			
					Bottom	7.7 7.7	0.2	111	21.6 21.6	21.6	8.0	8.0	30.1	30.1	95.2 95.2	95.2	7.0 7		12.3 12.4		10			
					1	1.7	0.3	115	21.6		8.0		კ∪.1		95.2		1.0		12.4		11			

DA: Depth-Averaged

Water Quality Monitoring Results on during Mid-Ebb Tide 23 March 23

water Qua	ity wioint	orning ixcou	113 011		23 March 23	auring mia-		<u> </u>																
Monitoring	Weather	Sea	Sampling	Water	Sampling Dept	h (m)	Current Speed	Current	Water Te	emperature (°C)		рН	Salinity (pp	ot)		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	Value Aver	age	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.2	68	21.3	21.3	8.2	8.2	30.2	2	92.1	92.1	6.8		5.0		11			
					Surface	1.0	0.3	68	21.2	21.3	8.2	0.2	30.2	.2	92.0	92.1	6.8	6.8	5.0	1	10			
IM10	Misty	Moderate	12:35	9.0	Middle	4.5	0.2	68	21.2	21.2	8.2	8.2	30.3	2	92.0	92.0	6.8	0.0	6.6	6.5	10	10	822261	809841
IIVITO	iviisty	Moderate	12.33	9.0	Middle	4.5	0.2	74	21.2	21.2	8.2	0.2	30.3	.3	91.9	92.0	6.8		6.5	0.5	9	10	022201	009041
					Bottom	8.0	0.2	77	21.2	21.2	8.2	8.2	30.3	3	92.0	92.0	6.8	6.8	7.8	1	9			
					Bottom	8.0	0.2	80	21.2	21.2	8.2	0.2	30.3	.0	92.0	02.0	6.8	0.0	7.9		8			
					Surface	1.0	0.3	82	21.2	21.2	8.2	8.2	30.1	.1	92.6	92.7	6.9		5.0	_	9			
						1.0	0.3	80	21.2		8.2	-	30.1		92.7		6.9	6.9	5.0	1	8			
IM11	Misty	Moderate	12:40	7.0	Middle	3.5	0.3	98	21.2	21.2	8.2	8.2	30.2	.2	93.1	93.2	6.9		5.8	5.8	9	9	821481	810561
	-					3.5	0.3	93	21.2		8.2		30.2		93.3		6.9		5.9	4	8			
					Bottom	6.0	0.3	67	21.2	21.5	8.2	8.2	30.2	.0	94.1	94.3	7.0	7.0	6.6	1	9			
						6.0	0.3	73	21.7				29.8		94.5		7.0		6.6	<u> </u>	9			
					Surface	1.0 1.0	0.3	104 102	21.4 21.4	21.4	8.1 8.1	8.1	29.5 29.5	.5	92.5 92.8	92.7	6.9		3.0	4	9 8			
						3.6	0.3	99	21.4				29.5				6.9 6.9	6.9	3.1 4.5	4	8			
IM12	Misty	Moderate	12:45	7.2	Middle	3.6	0.2	95	21.6	21.6	8.1 8.1	8.1	29.5	.5	93.1 93.3	93.2	6.9		4.4	4.4	9	9	821140	811499
						6.2	0.3	74	21.7		8.1		20.5		94.8		7.0		5.7	1	10			
					Bottom	6.2	0.3	71	21.7	21.8	8.1	8.1	29.5	.5	95.6	95.2	7.0	7.0	5.6	-	9			
						1.0	0.0	23	21.4		8.2		20.8		91.7		6.8		4.9	i e	11			
					Surface	1.0	0.0	27	21.4	21.4	8.2	8.2	29.8	.8	91.9	91.8	6.8		5.0	1	10			
						2.4	0.0	22	-		-		-		-		-	6.8	-	1	-			
SR1A	Misty	Moderate	12:57	4.8	Middle	2.4	0.0	16	-	-	-	-	-	·	-	-	_		_	5.1	_	11	819974	812655
						3.8	0.0	19	21.4		8.2		20.8		92.3		6.8		5.2	1	12			
					Bottom	3.8	0.0	17	21.4	21.4	8.2	8.2	29.8	.8	92.6	92.5	6.8	6.8	5.2	1	10			
					0.7	1.0	0.2	62	21.8	04.0	8.1		20.7	_	95.2		7.0		3.4		11			
					Surface	1.0	0.3	67	21.8	21.8	8.1	8.1	29.7	./	95.6	95.4	7.0		3.5	1	10			
000	N. 47 - 4 - 1	Madanata	40.40	4.0	NAC-JUIL-	-	0.3	50	-		-		-		-		-	7.0	-	1	-	40	004400	044450
SR2	Misty	Moderate	13:13	4.6	Middle	-	0.2	49	-	-	-	-	-	· [-	-	-		-	3.8	-	10	821483	814152
					Bottom	3.6	0.3	34	21.9	22.0	8.1	8.1	29.6	c	96.3	96.6	7.1	7.1	4.1	1	9			
					BUILDITI	3.6	0.3	41	22.0	22.0	8.1	0.1	29.6	.0	96.9	90.0	7.1	7.1	4.1		9			
					Surface	1.0	0.2	117	21.8	21.8	8.0	8.0	29.1	1	94.9	95.0	7.0		8.0		11			
					Gunace	1.0	0.2	110	21.8	21.0	8.0	0.0	29.2	. '	95.0	33.0	7.0	7.0	8.7		11			
SR3	Cloudy	Moderate	13:07	8.4	Middle	4.2	0.2	117	21.7	21.7	8.0	8.0	29.5	5	95.2	95.2	7.0	7.0	9.0	9.0	9	8	822169	807587
0.10	oloddy	moderate	10.01	0	madio	4.2	0.2	120	21.7		8.0	0.0	29.5	.0	95.2	00.2	7.0		9.2	0.0	8	Ü	022.00	00.00.
					Bottom	7.4	0.2	95	21.7	21.7	8.0	8.0	29.5	.5	95.0	95.0	7.0	7.0	9.8	_	5			
						7.4	0.2	97	21.7	=	8.0		29.5		94.9		7.0		9.4	<u> </u>	6			
					Surface	1.0	0.0	50	21.7	21.7	8.0	8.0	30.3	.2	99.2	99.2	7.3		3.0	4	6			
						1.0	0.0	45	21.7		8.0		30.2		99.2		7.3	7.3	3.2	4	6			
SR4A	Cloudy	Moderate	14:42	8.4	Middle	4.2	0.0	61	21.7	21.7	8.0	8.0	30.3	.3	97.2	97.2	7.2		5.6	4.8	7	7	817194	807809
						4.2	0.0	65	21.7		8.0		30.3		97.2		7.2		5.7	4	6			
					Bottom	7.4	0.0	29	21.7	21.7	8.0	8.0	30.3	.3	95.4	95.4	7.0	7.0	5.8	4	8			
						7.4	0.0	34	21.7		8.0		30.3		95.4		7.0		5.7	1	8			
					Surface	1.0	-	-	21.7	21.7	8.1 8.1	8.1	29.5	.5	94.1	94.2	6.9		5.5	-	7			
						1.0	-	-	21.7				29.5		94.3		6.9	6.9	5.5	-	6			
SR8	Misty	Moderate	12:49	5.4	Middle	-	-	-	-	-	-	-	-	. -	-	-	-		-	6.0	-	6	820382	811625
					<u> </u>	4.4	-	-				 	20.5						6.6	-	6			
					Bottom	4.4	-	-	21.8	21.9	8.1 8.1	8.1	29.5 29.4	.5	95.4 96.2	95.8	7.0	7.1	6.4	-	6			
			<u> </u>			4.4		-	21.9		Ö. I	l	29.4		90.Z		7.1		0.4		Ö		l	

Water Quality Monitoring Results on 23 March 23 during Mid-Flood Tide

water Qual	ity wonit	oring Resu	its on		23 March 23	auring Mia-	<u> </u>	ae																
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)	Запринд Бер		(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Ourford	1.0	0.5	20	21.3	04.0	8.1	0.4	31.0	31.0	94.6	04.5	7.0		5.7		10			
					Surface	1.0	0.5	14	21.2	21.3	8.1	8.1	31.0	31.0	94.3	94.5	7.0	7.0	5.8		10			
C4	Claudu	Madazata	00.44	0.4	Middle	4.2	0.4	17	21.3	21.3	8.0	8.0	31.1	31.1	93.8	93.8	6.9	7.0	7.4	7.7	9	9	815623	804268
C1	Cloudy	Moderate	08:14	8.4	ivildale	4.2	0.4	22	21.3	21.3	8.0	8.0	31.1	31.1	93.8	93.8	6.9		8.0	7.7	9	9	813623	804268
					Dallana	7.4	0.4	25	21.3	04.0	8.0	0.0	31.0	04.0	98.3	00.4	7.3	7.0	9.8	l 1	9			
					Bottom	7.4	0.4	18	21.3	21.3	8.0	8.0	31.0	31.0	98.4	98.4	7.3	7.3	9.7		9			
					Surface	1.0	0.5	347	21.8	21.8	8.0	8.0	29.2	29.2	95.9	95.9	7.1		8.2		11			
					Surface	1.0	0.5	347	21.8	21.8	8.0	8.0	29.2	29.2	95.8	95.9	7.1	7.1	8.0		12			
C2	Cloudy	Moderate	09:26	12.2	Middle	6.1	0.5	336	21.8	21.8	8.0	8.0	29.3	29.3	95.5	95.6	7.1	7.1	9.2	9.3	10	11	825678	806952
62	Cloudy	Moderate	09.26	12.2	Middle	6.1	0.5	332	21.8	21.0	8.0	6.0	29.3	29.3	95.6	95.6	7.1		9.8	9.3	11	- 11	023070	600932
					Bottom	11.2	0.6	354	21.8	21.8	8.0	8.0	29.3	29.3	95.7	95.8	7.1	7.1	10.3		10			
					Dollom	11.2	0.5	1	21.8	21.0	8.0	0.0	29.3	29.3	95.8	93.0	7.1	7.1	10.5		11			
					Surface	1.0	0.5	271	20.8	20.8	7.8	7.8	30.4	30.4	88.7	88.7	6.6		5.8		11			
					Ounace	1.0	0.5	264	20.8	20.0	7.8	7.0	30.4	30.4	88.6	00.7	6.6	6.7	6.0		10			
C3	Misty	Moderate	08:52	12.4	Middle	6.2	0.6	282	20.8	20.8	7.8	7.8	30.3	30.3	88.7	88.8	6.7	0.7	6.5	6.5	10	10	822109	817794
00	iviloty	Woderate	00.02	12.4	Wilddie	6.2	0.6	284	20.8	20.0	7.8	7.0	30.3	00.0	88.8	00.0	6.7		6.6	0.0	9	10	022100	017704
					Bottom	11.4	0.5	281	20.8	20.8	7.8 7.8	7.8	30.1	30.1	90.3	90.4	6.8	6.8	7.0		10			
					20110111	11.4	0.5	281	20.8	20.0		7.0	30.0	00	90.5	00	6.8	0.0	7.1		9			
					Surface	1.0	0.3	9	21.5	21.5	8.1 8.1	8.1	30.5	30.5	99.5	99.5	7.4		4.7		14			
						1.0	0.3	2	21.5				30.5		99.5			7.4	4.8		14			
IM1	Cloudy	Moderate	08:26	6.0	Middle	3.0	0.3	12	21.4	21.4	8.1	8.0	30.8	30.8	98.7	98.7	7.3		6.4	6.2	14	13	818332	806456
	,					3.0	0.3	15	21.4		8.0		30.8		98.6		7.3		6.5		13			
					Bottom	5.0	0.3	22	21.4	21.4	8.0	8.0	31.0	30.9	98.1 98.0	98.1	7.3	7.3	7.3		12			
						5.0	0.3	27	21.4				30.9				7.2		7.4		12			
					Surface	1.0	0.2	5 0	21.5 21.5	21.5	8.1 8.1	8.1	30.7	30.7	99.1	99.1	7.3		5.4 5.5		11 10			
						3.5	0.3	0	21.5				30.7		98.9		7.3	7.3	6.3		10			
IM2	Cloudy	Moderate	08:31	6.9	Middle	3.5	0.2	0	21.5	21.5	8.0	8.0	30.8	30.7	98.8	98.9	7.3		6.3	6.1	8	9	819189	806239
						5.9	0.2	356	21.5				30.8		98.6				6.4	1	6			
					Bottom	5.9	0.3	358	21.5	21.5	8.0	8.0	30.7	30.7	98.6	98.6	7.3	7.3	6.5		7			
						1.0	0.3	342	21.7		8.0		29.5		93.6		6.9		6.9		13			
					Surface	1.0	0.2	341	21.7	21.7	8.0	8.0	29.6	29.6	93.6	93.6	6.9		7.4		12			
						4.2	0.2	358	21.6				29.9	<u> </u>	93.6		6.9	6.9	9.5	1 1	12			
IM7	Cloudy	Moderate	08:52	8.4	Middle	4.2	0.2	352	21.6	21.6	8.0	8.0	29.9	29.9	93.6	93.6	6.9		9.6	9.0	12	11	821351	806837
						7.4	0.3	335	21.6				30.0		94.1		7.0		10.2		10			
					Bottom	7.4	0.3	327	21.6	21.6	8.0	8.0	29.9	29.9	94.1	94.1	7.0	7.0	10.6	1 1	9			
					1		-10				2.0		_5.0						. 5.0					

DA: Depth-Averaged

Water Quality Monitoring Results on 23 March 23 during Mid-Flood Tide

Trator quar	,	oring Resu			23 March 23	auring wia-		uc																
Monitoring	Weather	Sea	Sampling	Water	Sampling Dept	h (m)	Current Speed	Current	Water Te	emperature (°C)		рН	Salin	nity (ppt)		aturation (%)	Disso Oxyg		Turbidity	(NTU)		ed Solids g/L)	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	312	21.3	21.3	8.2	8.2	30.2	30.2	93.4	93.4	6.9		6.6		11			
					Sullace	1.0	0.3	315	21.3	21.5	8.2	0.2	30.2	30.2	93.4	55.4	6.9	6.9	6.6		10			
IM10	Misty	Moderate	10:00	8.6	Middle	4.3	0.3	282	21.5	21.5	8.1	8.1	30.1	30.0	93.5	93.6	6.9	0.5	7.4	7.3	11	12	822247	809843
110110	iviloty	Moderate	10.00	0.0	Middle	4.3	0.3	278	21.5	21.0	8.1	0.1	30.0	30.0	93.6	33.0	6.9		7.5	7.5	10	12	022247	003043
					Bottom	7.6	0.3	295	21.7	21.8	8.1	8.1	29.9	29.9	94.1	94.2	7.0	7.0	8.0		13			
					Bottom	7.6	0.3	299	21.8	21.0	8.1	0.1	29.9	20.0	94.2	0 T.E	6.9	7.0	8.0		14			
					Surface	1.0	0.3	279	21.4	21.5	8.2	8.2	29.6	29.6	95.2	95.3	7.0		5.1		11			
						1.0	0.3	281	21.5		8.2		29.6		95.3		7.0	7.1	5.1		11			
IM11	Misty	Moderate	09:56	8.0	Middle	4.0	0.3	296	21.6	21.7	8.2	8.2	29.6	29.6	95.9	96.1	7.1		6.4	6.2	9	9	821501	810550
	,					4.0	0.4	290	21.7		8.2		29.6		96.3		7.1		6.5		10	_		
					Bottom	7.0	0.4	268	21.9	21.9	8.2	8.2	29.5	29.4	97.2	97.7	7.1	7.2	7.0		7			
						7.0	0.4	263	21.9		8.2		29.4		98.1		7.2		7.0		7			
					Surface	1.0	0.4	300	21.5	21.5	8.1	8.1	29.6	29.6	94.0	94.1	6.9		3.4		7			
						1.0	0.5	303	21.5		8.1		29.5		94.2		7.0	7.0	3.4		8			
IM12	Misty	Moderate	09:50	7.6	Middle	3.8	0.4	304	21.7	21.7	8.1	8.1	29.6	29.6	95.2	95.3	7.0		4.8	4.4	8	9	821149	811514
	,					3.8	0.3	310	21.7		8.1		29.6		95.4		7.0		4.9		8	_		
					Bottom	6.6	0.4	306	21.9	22.0	8.1	8.1	29.4	29.4	96.6	96.9	7.1	7.1	4.9		11			
					***	6.6	0.4	304	22.0		8.1		29.4		97.2		7.1		4.9		10			
					Surface	1.0	0.0	211	21.6	21.6	7.8	7.8	29.7	29.7	93.6	93.7	6.9		3.3		11			
						1.0	0.1	208	21.6		7.8		29.7		93.7		6.9	6.9	3.3		10			
SR1A	Misty	Moderate	09:28	5.0	Middle	2.5	0.0	217	-	-	-	_	-	_	-	-	-		-	4.2	-	10	819982	812662
						2.5	0.1	212	-		-		-		-		-		-		-			
					Bottom	4.0	0.0	207	21.8	21.9	7.8	7.8	29.6	29.5	94.9	95.2	7.0	7.1	5.0		9			
						4.0	0.1	207	21.9		7.8		29.5		95.5		7.1		5.0		10			
					Surface	1.0	0.0	239	21.4	21.4	7.8	7.8	29.9	29.9	93.8	93.9	7.0		6.6		11			
						1.0	0.1	245	21.4		7.8		29.9		93.9		7.0	7.0	6.8		12			
SR2	Misty	Moderate	09:15	4.2	Middle	-	0.0	238	-	-	-	-	-	-	-	-	-		-	6.9	-	10	821475	814170
	•					-	0.0	233	-				-								-			
					Bottom	3.2	0.0	247	21.3	21.3	7.8	7.8	29.9	29.9	94.4	94.6	7.0	7.0	7.1		8			
						3.2	0.0	248	21.3		7.8		29.9		94.7		7.0		7.0		10			
					Surface	1.0	0.3	347	21.7	21.7	8.0	8.0	29.2	29.3	95.6	95.7	7.1		9.7	4	12		1	
						1.0 4.5	0.4	339	21.7		8.0		29.3		95.7		7.1	7.1	9.0	-	13		1	
SR3	Cloudy	Moderate	08:58	8.9	Middle		0.4	340	21.7	21.7	8.0	8.0	29.7	29.7	95.8	95.8	7.1		9.6	9.3	11	11	822167	807561
						4.5 7.9	0.4	339	21.7				29.7		95.7		7.1		9.5	1	12		1	
					Bottom	7.9	0.4	335 330	21.7 21.7	21.7	8.0	8.0	29.8	29.8	95.6 95.5	95.6	7.1	7.1	9.0 8.8	-	10 9		1	
			1			1.0	0.4					1		1						 			 	<u> </u>
					Surface	1.0		207 203	21.6 21.6	21.6	8.1 8.1	8.1	30.2	30.2	95.2	95.2	7.0		10.0	1	11		1	
						4.5	0.1	203			8.1	-	30.2	-	95.2		7.0	7.0	10.2	-	11		1	
SR4A	Cloudy	Moderate	07:55	9.0	Middle	4.5		218	21.6	21.6	8.0	8.0	30.2	30.2	95.1	95.1	7.0		11.1 11.4	11.2	12	12	817176	807805
						4.5 8.0	0.0	223	21.6 21.6		8.0				95.1 95.4				11.4	1	12 14		1	
					Bottom	8.0	0.0	223	21.6	21.6	8.0	8.0	30.3	30.3	95.4	95.5	7.1	7.1	12.1	1	13		1	
					1	1.0	-						29.8				7.1		5.3	1	12		 	<u> </u>
					Surface	1.0	-	-	21.5 21.5	21.5	8.1 8.1	8.1	29.8	29.8	95.7 95.9	95.8	7.1			1	11		1	
						1.0	-	-	21.5		8.1		∠9.8		95.9		- 7.1	7.1	5.4	1	- 11		1	
SR8	Misty	Moderate	09:46	4.4	Middle	-	-	-	-	-	-	-	-	-	-	-	-		-	5.7	-	14	820406	811624
						3.4	-	-	21.6		8.1	1	20.7	1	97.1				6.0	1	16	ł	1	
					Bottom	3.4	-	-	21.7	21.7	8.1	8.1	29.7 29.6	29.6	97.1	97.4	7.2	7.2	6.1	1	15	ł	1	
DA: Dopth Aver						3.4		-	21.1		0.1		29.0		91.0		1.2		0.1		ıΰ			

DA: Depth-Averaged

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

Monitoring	Weather	Sea	Sampling	Water	25 Walcii 25	during wild-	Current Speed	Current	Water Te	emperature (°C)		рН	Salin	ity (ppt)	DO S	Saturation (%)	Disso		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	i i	t í	DA	Value	DA	Value	DA	HK Grid (Northing)	HK Grid (Easting)
					Surface	1.0	0.5	201	21.7	21.7	7.9 7.9	7.9	31.1	31.1	95.1	95.2	7.0		9.1		3			
					Surface	1.0	0.5	200	21.7	21.7	7.9	7.9	31.1	31.1	95.2	95.2	7.0	7.0	9.2		4			
C1	Cloudy	Rough	15:19	8.3	Middle	4.2	0.5	217	21.7	21.7	7.9 7.9	7.9	31.1	31.1	95.5	95.5	7.0 7.0	7.0	10.2	10.1	4	4	815600	804227
Ci	Cloudy	Rough	15.19	0.3	Middle	4.2	0.5	215	21.7	21.7	7.9	7.9	31.1	31.1	95.5	95.5	7.0		10.2	10.1	4	4	813600	004227
					Bottom	7.3	0.4	222	21.7	21.7	7.9	7.9	31.1	31.1	95.1	95.1	7.0	7.0	11.0		5			
					Dottom	7.3	0.4	221	21.7	21.7	7.9	7.5	31.1	31.1	95.1	33.1	7.0	7.0	11.0		4			
					Surface	1.0	0.1	163	22.4	22.4	7.8	7.8	28.2	28.3	93.5	93.5	6.9		5.5		5			
					Ounace	1.0	0.1	167	22.3	22.4	7.8	7.0	28.3	20.5	93.4	33.3	6.9	6.9	6.1		5			
C2	Rainy	Rough	13:46	11.5	Middle	5.8	0.2	141	22.2	22.2	7.8	7.8	28.7	28.7	92.8	92.8	6.8	0.9	10.7	10.2	4	4	825702	806961
02	itality	rtougii	13.40	11.5	Middle	5.8	0.1	134	22.2	22.2	7.8	7.0	28.8	20.7	92.8	32.0			11.5	10.2	5	7	023702	000301
					Bottom	10.5	0.2	169	22.2	22.2	7.8	7.8	28.9	29.0	92.6	92.6	6.8	6.8	13.7		3			
					Bottom	10.5	0.1	174	22.2	22.2	7.8	7.0	29.0	23.0	92.6	32.0	6.8	0.0	13.9		4			
					Surface	1.0	0.4	66	21.3	21.4	8.0	8.0	30.8	30.8	90.8	90.9	6.7		1.7		10			
					Guildoc	1.0	0.5	69	21.4	21.4	8.0	0.0	30.7	00.0	90.9	50.5	6.7	6.7	1.8		9			
СЗ	Rainy	Rough	14:58	7.8	Middle	3.9	0.5	72	21.6	21.7	8.0	8.0	30.6	30.6	91.2	91.3	6.7	0.7	2.9	2.8	9	9	822092	817823
00	reality	rtougii	14.00	7.0	Wildelie	3.9	0.5	77	21.7	21.7		0.0	30.5	00.0	91.4	51.0	6.7		2.8	2.0	8	0	022002	017020
					Bottom	6.8	0.5	55	21.9	22.0	8.0	8.0	30.4	30.4	92.0	92.2	6.8	6.8	3.9		8			
					Bottom	6.8	0.5	50	22.0	22.0	8.0	0.0	30.3	00.4	92.3	02.2	6.8	0.0	3.9		8			
					Surface	1.0	0.2	175	21.7	21.7	7.9	7.9	31.0	31.0	95.7	95.7	7.0		9.3		4			
						1.0	0.2	176	21.7		8.0	7.0	31.0	01.0	95.7	00.7	7.0	7.0	9.7		4			
IM1	Cloudy	Rough	14:49	6.4	Middle	3.2	0.2	202	21.7	21.7	8.0	8.0	31.1	31.1	95.3	95.3	7.0 7.0 7.0	7.0	11.4	10.5	4	4	818358	806472
	o.ouu,	. toug.		0	madio	3.2	0.2	205	21.7		8.0	0.0	31.1	0	95.3	00.0			11.4		4	·	0.0000	0002
					Bottom	5.4	0.2	168	21.7	21.7	8.0	8.0	31.0	31.0	95.1	95.2	7.0	7.0	10.5		4			
					Dottom	5.4	0.1	166	21.7		8.0	0.0	31.0	01.0	95.2		7.0	7.0	10.4		5			
					Surface	1.0	0.2	191	21.7	21.7	7.9 7.9	7.9	31.0	31.0	95.2 95.2	95.2	7.0		9.2		4			
						1.0	0.2	194	21.7			7.0	31.0	01.0		00.2	7.0	7.0	9.6		3			
IM2	Cloudy	Rough	14:38	7.4	Middle	3.7	0.2	192	21.7	21.7	7.9 7.9	7.9	31.1	31.1	95.1	95.1	7.0 7.0	7.0	10.8	11.9	4	4	819178	806246
	o.ouu,	. toug.			daic	3.7	0.3	193	21.7				31.1	0	95.0	00.1			11.0		3	·	0.0.70	0002.0
					Bottom	6.4	0.2	184	21.7	21.7	7.9	7.9	31.1	31.1	94.9	94.9	7.0	7.0	13.7		5			
					Dotto	6.4	0.2	187	21.7		7.9		31.1	0	94.9	00	7.0	7.0	17.1		4			
					Surface	1.0	0.2	114	22.2	22.2	7.9	7.9	29.5	29.5	94.3	94.3	6.9		7.8		6			
						1.0	0.2	112	22.1		7.9		29.6	_0.0	94.2	00	6.9	6.9	8.6		6			
IM7	Rainy	Rough	14:07	8.0	Middle	4.0	0.3	117	22.1	22.1	7.9	7.9	30.0	29.9	93.9	93.9	6.9 6.9	0.0	10.5	10.2	5	5	821332	806825
	,	oug		0.0		4.0	0.3	121	22.1		7.9		29.9	_0.0	93.9	00.0			10.8		5	•	02.002	000020
					Bottom	7.0	0.2	132	22.1	22.1	7.9	7.9	29.9	29.9	93.9	93.9	6.9	6.9	11.8		5			
DA: Donth Avor					Sottom	7.0	0.3	129	22.1		7.9		29.9		93.9	00.0	6.9	0.0	11.8		5			

DA: Depth-Averaged

Water Quality Monitoring Results on

25 March 23 during Mid-Ebb Tide

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Monitoring	Weather	Sea	Sampling	Water	Complian Dont	h (m)	Current Speed	Current	Water Te	emperature (°C)		рН	Salin	ity (ppt)		aturation (%)	Disso Oxy		Turbidity	(NTU)	Suspende (mg		Coordinate HK Grid	Coordinate
Station	Condition	Condition	Time	Depth (m)	Sampling Depti	n (m)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	HK Grid (Easting)
					0	1.0	0.3	98	21.7	04.7	8.0	8.0	29.7	00.0	91.2	04.0	6.8		6.7		9			
					Surface	1.0	0.3	101	21.7	21.7	8.0	8.0	29.6	29.6	91.4	91.3	6.8		6.7		9			
IM10	Daine	Daviele	13:50	0.0	Middle	4.5	0.2	77	21.7	24.7	8.0	8.0	29.6	29.6	91.8	04.0	6.8	6.8	7.7	7.5	9	9	822218	809818
IIVITO	Rainy	Rough	13.30	9.0	ivildale	4.5	0.3	69	21.7	21.7	8.0	6.0	29.6	29.0	91.8	91.8	6.8		7.8	7.5	9	9	022210	009010
					Bottom	8.0	0.2	108	21.7	21.7	8.0	8.0	29.6	29.6	91.8	91.8	6.8	6.8	8.2		9			
					Bottom	8.0	0.2	100	21.7	21.7	8.0	0.0	29.6	23.0	91.8	31.0	6.8	0.0	8.2		10			
					Surface	1.0	0.4	76	21.9	22.0	8.0	8.0	29.6	29.6	92.4	92.5	6.8		4.9		15			
						1.0	0.4	76	22.0	22.0	8.0	0.0	29.5	20.0	92.5	02.0	6.8	6.8	4.9		14			
IM11	Rainy	Rough	14:04	6.8	Middle	3.4	0.4	110	22.1	22.2	8.0	8.0	29.4	29.4	92.9	93.0	6.8	0.0	5.4	5.5	11	13	821499	810535
	,					3.4	0.4	106	22.2		8.0		29.4		93.1		6.8		5.4		12			
					Bottom	5.8	0.4	110	22.3	22.4	8.0	8.0	29.3	29.3	93.8	94.0	6.9	6.9	6.2		12			
						5.8	0.4	107	22.4		8.0		29.2		94.1		6.9		6.1		11			
					Surface	1.0	0.5	90	21.7	21.7	8.0	8.0	29.7	29.7	91.1	91.2	6.8		6.6		12			
						1.0	0.4	95	21.7		8.0		29.7		91.2		6.8	6.8	6.6		11			
IM12	Rainy	Rough	14:11	7.0	Middle	3.5	0.4	99	21.7	21.8	7.9	7.9	29.7	29.6	92.3	92.4	6.8		7.1	7.3	12	12	821155	811539
	,	3				3.5	0.4	100	21.8		7.9		29.6		92.4		6.8		7.1		12			
					Bottom	6.0	0.4	119	22.0	22.1	7.9	7.9	29.4	29.4	93.2	93.3	6.9	6.9	8.2		14			
						6.0	0.4	114	22.1		7.9		29.4		93.4		6.9		8.2		13			
					Surface	1.0	0.0	52	21.8	21.8	8.0	8.0	29.7	29.7	90.3	90.3	6.7		5.7		10			
						1.0	0.0	48	21.8		8.0		29.7		90.3		6.7	6.7	5.7		11			
SR1A	Rainy	Moderate	14:22	5.4	Middle	2.7	-	51	-	-	-	_	-	-	-	_	-		-	5.8	-	12	819977	812663
	,					2.7	0.0	44	-		-		-		-		-		-		-			
					Bottom	4.4	0.0	54	21.8	21.8	8.0	8.0	29.7	29.7	90.4	90.4	6.7	6.7	6.0		13			
						4.4	0.0	60	21.8		8.0		29.7		90.4		6.7		5.9		14			
					Surface	1.0	0.4	57	22.0	22.0	7.9	7.9	29.6	29.6	93.6	93.7	6.9		4.0		8 7			
						1.0	0.4	60	22.0				29.5		93.8		6.9	6.9	4.0					
SR2	Rainy	Moderate	14:39	5.0	Middle	-	0.4 0.4	46 43	-	-	-	-	-	-	-	-	-		-	4.3	-	9	821470	814151
						4.0	0.4	64	22.1										4.7		- 10			
					Bottom	4.0	0.3	62	22.1	22.2	7.9	7.9	29.4	29.3	94.7 95.7	95.2	7.0	7.0	4.7		11			
				l		1.0	0.3	121	22.3		_				92.9				4.7		4			
					Surface	1.0	0.1	116	22.3	22.3	7.8	7.8	28.1	28.2	93.0	93.0	6.9		5.0		4			
						4.4	0.2	111	22.3		7.9		28.8		93.6		6.9	6.9	8.2		4			
SR3	Rainy	Rough	14:01	8.8	Middle	4.4	0.2	116	22.3	22.3	7.9	7.9	28.8	28.8	93.7	93.7	6.9		8.4	7.5	4	4	822136	807570
						7.8	0.5	126	22.2		7.9		28.9		93.7		6.9		9.4		5			
					Bottom	7.8	0.2	131	22.2	22.2	7.9	7.9	28.9	28.9	93.8	93.8	6.9	6.9	9.3		4			
						1.0	0.0	68	22.1		7.9		30.3		92.9		6.8		6.4		6			
					Surface	1.0	0.0	66	22.1	22.1	7.9	7.9	30.3	30.3	92.9	92.9	6.8		6.1		5			
						4.2	0.0	101	22.1		7.9		30.4		93.7		6.9	6.9	6.9		5	_		
SR4A	Cloudy	Rough	15:53	8.4	Middle	4.2	-	106	22.1	22.1	7.9	7.9	30.4	30.4	93.7	93.7	6.9		6.9	6.7	4	5	817182	807809
					5."	7.4	0.0	81	22.1		7.9		30.4		93.7		6.9		6.9		5			
					Bottom	7.4	0.0	78	22.1	22.1	7.9	7.9	30.4	30.4	93.8	93.8	6.9	6.9	6.9	1	4			
İ					Cuntaga	1.0	-	-	22.0	22.0	8.0	0.0	29.5	20.5	93.5	02.0	6.9		5.1		8			
					Surface	1.0	-	-	22.0	22.0	8.0	8.0	29.5	29.5	93.6	93.6	6.9		5.1		8			
SR8	Boiny	Modorat-	14:14	4.4	Middle	-	-	-	-		-		-		-		-	6.9	-	5.9	-	10	820367	811633
SKØ	Rainy	Moderate	14:14	4.4	ivildale	-	-	-	-	-	-	-	-	1 -	-	-	-		-	5.9	-	10	820367	811033
					Bottom	3.4	-	1	22.1	22.1	8.0	8.0	29.4	29.4	94.5	94.9	7.0	7.0	6.7	1	12			
					DOMOIII	3.4	-	•	22.1	۷۷.۱	8.0	0.0	29.4	23.4	95.3	J4.9	7.0	1.0	6.6		12			

DA: Depth-Averaged

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

water Quai	ity wont	oring Kesu	its on		25 March 23	auring Mia-	rioou ii	ue																
Monitoring	Weather	Sea	Sampling	Water	Sampling Dept	-h (m)	Current Speed	Current	Water Te	emperature (°C)		рН	Salir	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	(111)	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
	Ì					1.0	0.3	24	21.8	04.0	8.0		30.9		95.2	05.0	7.0		12.6		6			
					Surface	1.0	0.3	19	21.8	21.8	7.9	7.9	30.9	30.9	95.2 95.1	95.2	7.0		12.7	1	4			
						4.1	0.3	26	21.8	04.0	7.9		31.0	04.5	94.8		7.0	7.0	9.4	1	5	_	0.5005	
C1	Cloudy	Rough	08:25	8.2	Middle	4.1	0.3	19	21.8	21.8	7.9	7.9	31.0	31.0	94.8	94.8	7.0	-	10.0	11.0	5	5	815633	804254
					5	7.2	0.3	11	21.8	24.0	7.9		31.0	04.5			7.0		10.7	1	5			
					Bottom	7.2	0.3	11	21.8	21.8	7.9	7.9	31.0	31.0	94.9 95.0	95.0	7.0	7.0	11.0		4			
					Curfoss	1.0	0.4	338	22.3	22.2	7.8	7.8	28.4	20.4			6.9		5.2		5			
					Surface	1.0	0.4	334	22.3	22.3	7.8 7.8	7.8	28.5	28.4	93.9 93.8	93.9	6.9	6.9	5.5	1	6			
C2	Cloudy	Rough	09:58	12.3	Middle	6.2	0.4	339	22.2	22.2	7.8	7.8	28.9	28.9	93.8 93.9	93.9	6.9	0.9	9.8	9.0	6	6	825661	806937
02	Cloudy	Rougii	09.50	12.3	ivildale	6.2	0.5	340	22.2	22.2	7.8	7.0	29.0	20.9	93.9	93.9	6.9		9.4	9.0	6	O	023001	000937
					Bottom	11.3	0.5	337	22.3	22.3	7.8	7.8	29.1	29.1	94.0	94.1	6.9	6.9	12.1		7			
					Dottom	11.3	0.5	337	22.3	22.0	7.8	7.0	29.1	20.1	94.1	37.1	6.9	5.5	12.2		7			
					Surface	1.0	0.5	259	21.2	21.2	7.9	7.9	30.6	30.6	86.4	86.4	6.4		5.6	1	8			
						1.0	0.5	252	21.2		7.9		30.6	00.0	86.4		6.4	6.4	5.6	1	7			
C3	Misty	Moderate	09:33	10.4	Middle	5.2	0.6	266	21.2	21.2	7.8	7.8	30.6	30.6	86.4	86.4	6.4		8.7	8.0	- 8	8	822130	817816
				-		5.2	0.6	268	21.2		7.8		30.6		86.4		6.4		8.7	4	8	-		
					Bottom	9.4	0.5	247	21.2	21.2	7.8	7.8	30.6	30.6	86.9 87.0	87.0	6.4	6.5	9.9	4	10			
						9.4	0.5	245	21.2		7.8		30.6				6.5		9.9		9			
					Surface	1.0	0.2	10 9	21.7	21.7	8.0	8.0	30.9	30.9	95.3 95.3	95.3	7.0	}	11.1	4	6			
						3.2	0.2	6	21.7		8.0		30.9	-	95.3		7.0	7.0	11.1 8.6	4	6			
IM1	Cloudy	Rough	08:50	6.4	Middle	3.2	0.2	9	21.7	21.7	8.0	8.0	31.0	31.0	95.2	95.2	7.0	-	8.9	10.0	5	6	818327	806442
						5.4	0.2	31	21.7		7.9		31.0		95.2		7.0		10.1	1	5			
					Bottom	5.4	0.2	37	21.7	21.7	7.9	7.9	31.0	31.0	95.1	95.1	7.0	7.0	10.1	1	4			
	i					1.0	0.2	9	21.8		7.9		30.9	<u> </u>		<u> </u>	7.0		11.5		4			
					Surface	1.0	0.2	7	21.8	21.8	7.9	7.9	30.9	30.9	95.1 95.0	95.1	7.0		11.2	1	5			
IMO	Classed	Davish	00.55	7.0	M: alalla	3.6	0.2	19	21.8	24.0	7.9	7.9	30.9	20.0	94.8	04.0	7.0	7.0	8.7	1	4	4	040404	000040
IM2	Cloudy	Rough	08:55	7.2	Middle	3.6	0.2	24	21.8	21.8	7.9	7.9	30.9	30.9	94.8	94.8	7.0	Ī	8.8	9.9	4	4	819181	806216
					Dettere	6.2	0.1	355	21.8	21.8	7.9	7.9	30.9	20.0	94.7	94.7	7.0	7.0	9.7	1	4			
					Bottom	6.2	0.1	348	21.8	∠1.8	7.9 7.9	7.9	30.9	30.9	94.7 94.7	94.7	7.0	7.0	9.5		4			
		•			Surface	1.0	0.2	339	22.2	22.2	7.9	7.9	29.0	29.1	94.3 94.2	94.3	6.9		5.5		4			
					Sullace	1.0	0.2	335	22.2	22.2	7.9	7.9	29.2	29.1			6.9	6.9	5.7		5			
IM7	Cloudy	Rough	09:16	8.0	Middle	4.0	0.2	312	22.1	22.1	7.9	7.9	29.7	29.8	93.7 93.7	93.7	6.9	0.9	6.9	6.7	4	5	821364	806820
"""	Sioday	rtougn	00.10	0.0	Middle	4.0	0.2	309	22.1	22.1	7.9	7.0	29.8	20.0			6.9		7.1	J	5	J	02100-F	000020
					Bottom	7.0	0.2	318	22.1	22.1	7.9	7.9	29.9	29.9	93.8	93.9	6.9	6.9	7.7	1	6			
					Dottom	7.0	0.2	323	22.1	44.1	7.9	7.0	29.8	20.0	94.0	55.5	6.9	5.5	7.5		5			

DA: Depth-Averaged

Water Quality Monitoring Results on

25 March 23 during Mid-Flood Tide

water Qua	iity ivioiiit	orning itest	iito Oii		25 March 25	auring wia-	1 1000 11	ue																
Monitoring	Weather	Sea	Sampling	Water	Sampling Dept	h (m)	Current Speed	Current	Water Te	emperature (°C)		рН	Salin	ity (ppt)		aturation (%)	Disso Oxy		Turbidity	(NTU)	Suspende (mg		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Затріі і д Бері		(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.4	294	21.7	21.7	7.9	7.9	29.7	29.7	91.6	91.7	6.8		6.6		9			
					Odnace	1.0	0.4	295	21.7	21.7	7.9	7.5	29.7	23.1	91.7	31.7	6.8	6.8	6.5		10			
IM10	Misty	Moderate	10:34	8.6	Middle	4.3	0.3	301	21.8	21.8	7.9	7.9	29.7	29.6	92.3	92.4	6.8	0.0	7.9	7.7	11	10	822251	809822
		moderate	10.01	0.0	madio	4.3	0.4	298	21.8	20	7.9	7.10	29.6	20.0	92.5	02	6.8		7.8	1	10		OLLEG .	000022
					Bottom	7.6	0.3	322	22.0	22.1	7.9	7.9	29.4	29.4	93.4	93.6	6.9	6.9	8.8	1	11			
						7.6	0.3	319	22.1		7.9		29.4		93.7		6.9		8.8	ļ	11			
					Surface	1.0	0.3	293	21.7	21.7	7.9	7.9	29.8	29.8	91.0	91.1	6.7		7.3	4	8			
						1.0	0.4	297	21.7		7.9		29.8		91.2		6.8	6.8	7.3	4	8			
IM11	Misty	Moderate	10:30	8.0	Middle	4.0	0.4	266	21.8	21.8	8.0	8.0	29.7	29.7	91.9	92.0	6.8		8.0	8.1	8	8	821486	810528
						4.0 7.0	0.4	267	21.8				29.7		92.1		6.8		8.0	1	8			
					Bottom	7.0	0.4	261	22.0	22.1	8.0	8.0	29.5 29.5	29.5	92.9	93.1	6.8	6.9	9.0	4	9			
						1.0	0.4	263 271	22.1										9.0 6.0	1	9			
					Surface	1.0	0.4	264	21.7 21.7	21.7	7.9 7.9	7.9	29.7 29.7	29.7	91.6 91.7	91.7	6.8		6.1	1	8			
						3.6	0.4	293	21.7				29.7		92.3		6.8	6.8	7.7	4	9			
IM12	Misty	Moderate	10:24	7.2	Middle	3.6	0.3	287	21.8	21.8	7.9	7.9	29.5	29.5	92.3	92.4	6.8		7.7	7.5	9	9	821163	811501
						6.2	0.3	306	22.1		7.9		29.2		93.5		6.9		8.7	-	10			
					Bottom	6.2	0.4	301	22.2	22.2	7.9	7.9	29.1	29.2	94.1	93.8	6.9	6.9	8.7	1	9			
						1.0	0.0	191	21.8		7.9		29.8		90.8		6.7		7.0	<u> </u>	8			
					Surface	1.0	0.0	187	21.8	21.8	7.9	7.9	29.8	29.8	90.9	90.9	6.7		7.1	1	7			
						2.3	0.1	201	-		-		-		-		-	6.7		1	-	_		
SR1A	Misty	Moderate	10:03	4.6	Middle	2.3	0.0	194	-	-	-	-	-	-	-	-	-		-	7.8	-	9	819976	812655
					Dellari	3.6	0.1	207	22.0	00.0	7.9	7.9	29.7	00.7	91.6	04.7	6.7	0.0	8.6	1	10			
					Bottom	3.6	0.1	212	22.0	22.0	7.9	7.9	29.7	29.7	91.8	91.7	6.8	6.8	8.6	1	11			
					Surface	1.0	0.1	262	21.6	21.6	7.9	7.9	29.8	29.8	91.1	91.2	6.7		8.4		6			
					Surface	1.0	0.1	267	21.6	21.0	7.9	7.9	29.8	29.0	91.3	91.2	6.8	6.8	8.5	1	8			
SR2	Misty	Moderate	09:51	5.2	Middle	-	0.0	250	-		-		-		-		-	0.0	-	8.7	-	8	821443	814149
SINZ	iviisty	Moderate	09.51	5.2	Middle	-	0.0	255	-	-	-	-	-		-	-	-		-	0.7	-	o	021443	014149
					Bottom	4.2	0.0	262	21.6	21.6	7.9	7.9	29.9	29.9	93.9	94.1	7.0	7.0	9.0		9			
					Dottom	4.2	0.0	268	21.6	21.0	7.9	7.5	29.9	23.3	94.3	34.1	7.0	7.0	9.0		8			
					Surface	1.0	0.3	332	22.3	22.3	7.8	7.8	28.3	28.3	93.4	93.4	6.9		6.2		4			
					Cundoo	1.0	0.3	338	22.3	22.0	7.8	7.0	28.3	20.0	93.4	00.1	6.9	6.9	6.3	<u> </u>	4			
SR3	Cloudy	Rough	09:23	8.6	Middle	4.3	0.3	353	22.3	22.3	7.9	7.9	28.6	28.6	93.7	93.8	6.9		7.3	7.1	6	5	822135	807576
	,	- 3				4.3	0.3	356	22.3		7.9		28.6		93.8		6.9		7.5	1	5	-		
					Bottom	7.6	0.2	322	22.3	22.3	7.9	7.9	28.8	28.8	93.7	93.8	6.9	6.9	7.8	4	5			
						7.6	0.2	314	22.3		7.9		28.8		93.8		6.9		7.6	<u> </u>	6			
				1	Surface	1.0	0.1	195	22.0	22.0	8.0	8.0	30.3	30.3	94.1	94.1	6.9		7.5	4	5			
						1.0	0.0	197	22.0		8.0		30.3		94.1		6.9	6.9	7.6	4	4			
SR4A	Cloudy	Rough	07:57	8.8	Middle	4.4	0.0	195	22.0	22.0	8.0	8.0	30.3	30.3	94.0	94.0	6.9		7.3	7.5	4	5	817197	807821
						7.8	0.0	201	22.0		_		30.3						7.4	-	5			
					Bottom	7.8	0.0	185 190	22.0 22.0	22.0	8.0	8.0	30.3	30.3	94.1	94.1	6.9	6.9	7.3 7.5	-	<u>6</u> 5			
			1	 	1	1.0	0.0	190	22.0		7.9				94.1		6.8		5.8	 	7			
					Surface	1.0	-	-	22.0	22.0	7.9	7.9	29.5 29.5	29.5	92.8	92.9	6.9		5.8	1	7			
						-	-	-	- 22.0		7.9		29.5		92.9		- 6.9	6.9	- 5.8	1	-			
SR8	Misty	Moderate	10:20	5.2	Middle	-	-	-	-	-	H	-	H	-	H-	-	-		-	6.2	-	8	820400	811641
						4.2	-	-	22.1		7.9		29.4		93.9		6.9		6.7	1	9			
				1	Bottom	4.2	-		22.1	22.2	7.9	7.9	29.3	29.3	94.6	94.3	7.0	7.0	6.6	1	8			
	l .		1	1	1	7.4		_	44.4		1.0		20.0		JT.0		7.0		0.0		U			

DA: Depth-Averaged

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

Trator quar	ity inclint	oning Resu	113 011		ZO MIAICII ZS	auring wia-	LDD IIU	•															
Monitoring	Weather	Sea	Sampling	Water	Sampling Dep	th (m)	Current Speed	Current	Water Te	emperature (°C)	рН	Sa	linity (ppt)		aturation (%)	Disso Oxy		Turbidity	(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Запріпід Бер	ui (iii)	(m/s)	Direction	Value	Average	Value Avera	ge Valu	e Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.5	197	20.6	20.6	8.1	31.8	31.8	94.0	94.1	7.0		2.3		5			
					Surface	1.0	0.5	192	20.6	20.6	8.1	31.8	31.0	94.1	94.1	7.0	7.1	2.3		4			
C1	Cloudy	Moderate	17:32	8.2	Middle	4.1	0.4	209	20.7	20.7	8.2	32.2		95.5	95.7	7.1	7.1	8.5	6.9	4	4	815613	804258
01	Cloudy	Moderate	17.32	0.2	Middle	4.1	0.4	213	20.7	20.7	8.2	32.2	2 32.2	95.8	93.1	7.1		8.7	0.9	4	4	013013	804238
					Bottom	7.2	0.4	226	20.8	20.8	8.2	32.3		96.8	96.9	7.2	7.2	9.7		4			
					Bottom	7.2	0.4	224	20.8	20.0	8.2	32.2	2 02.2	97.0	56.5	7.2	7.2	10.0		3			
					Surface	1.0	0.3	169	20.8	20.8	7.9 7.9	28.5		88.7	88.7	6.7		2.1		3			
					Curiaco	1.0	0.2	174	20.8	20.0	7.9	28.5	5	88.6	00.7	6.7	6.7	2.1		4			
C2	Cloudy	Moderate	16:05	11.8	Middle	5.9	0.3	189	20.9	20.9	8.0	29.5		87.7	87.7	6.6	0.7	4.4	4.2	5	4	825675	806947
02	Cloudy	Moderate	10.00	11.0	Wildalo	5.9	0.3	191	20.9	20.0	8.0	29.7	,	87.7	07.7	6.6		4.7	7.2	4	-	020070	000041
					Bottom	10.8	0.3	155	20.9	20.9	8.0	30.3		88.2	88.3	6.6	6.6	6.1		5			
					Dottom	10.8	0.2	147	20.9	20.0	8.0	30.3	3	88.4	00.0	6.6	0.0	5.9		4			
					Surface	1.0	0.4	88	21.2	21.2	7.9	30.4		88.5	88.6	6.6		1.0		4			
						1.0	0.4	95	21.2		7.9	30.5	5	88.7	00.0	6.7	6.7	1.0		4			
C3	Misty	Moderate	17:18	7.6	Middle	3.8	0.4	58	21.2	21.2	7.9	31.1		89.6	89.9	6.6	0.7	1.8	1.9	4	4	822112	817818
	wiioty	Moderate	17.10	7.0	Wildalo	3.8	0.4	60	21.2	21.2	7.9	31.1		90.2	00.0	6.7		1.9	1.0	4	-	022112	017010
					Bottom	6.6	0.5	62	21.1	21.2	7.8	31.2		91.6	92.3	6.8	6.9	2.8	_	3			
					Bottom	6.6	0.5	60	21.2	21.2	7.8	31.1		93.0	02.0	6.9	0.0	2.8		4			
					Surface	1.0	0.3	196	20.7	20.7	8.1	31.8		93.8	93.9	7.0		5.9		5			
					Carraco	1.0	0.2	198	20.7	20.1	8.1	31.8	3	93.9	00.0	7.0	7.1	6.4	_	4			
IM1	Cloudy	Moderate	17:08	6.4	Middle	3.2	0.3	194	20.8	20.8	8.1 8.1	32.2		95.2 95.6	95.4	7.1		9.7	9.3	4	5	818362	806451
	Cioday	moderate	11.00	0	madio	3.2	0.3	190	20.8	20.0	8.1	32.3	3		00.1	7.1		10.1	0.0	5	Ŭ	0.0002	000.01
					Bottom	5.4	0.2	213	20.8	20.8	8.2	32.3		96.4	96.5	7.1	7.2	11.7	_	5			
					20110111	5.4	0.3	215	20.8	20.0	8.2	32.3	3	96.5	00.0	7.2		11.8		6			
					Surface	1.0	0.3	180	20.6	20.7	8.1	31.6		94.9	95.1	7.1		5.4	_	5			
						1.0	0.3	175	20.7		8.1	31.7	,	95.2		7.1	7.2	6.1	1	6			
IM2	Cloudy	Moderate	16:59	7.2	Middle	3.6	0.2	183	20.7	20.8	8.2	32.0		96.4	96.5	7.2		7.6	8.4	5	5	819159	806250
	Cioday	moderate	10.00		madio	3.6	0.2	176	20.8	20.0	8.2	32.1		96.6	00.0	7.2		8.1		4	Ŭ	0.0.00	000200
					Bottom	6.2	0.3	199	20.8	20.8	8.2	32.3		98.0	98.2	7.3	7.3	11.5	1	4			
						6.2	0.3	201	20.8		8.2	32.3	3	98.4		7.3		11.6		4			
					Surface	1.0	0.2	131	20.7	20.7	8.1	29.7		91.9	91.9	6.9		3.2	_	5			
					Carraco	1.0	0.1	133	20.7	20.1	8.1	29.7	,	91.9	01.0	6.9	6.9	3.5	_	4			
IM7	Cloudy	Moderate	16:40	7.7	Middle	3.9	0.1	162	20.8	20.8	8.1	30.3		92.1	92.2	6.9	0	5.3	5.8	3	4	821342	806813
	2.244			•••		3.9	0.1	160	20.8	_5.0	8.1	30.4	1	92.2		6.9		5.5]	4	•		220010
					Bottom	6.7	0.2	148	20.9	20.9	8.1	31.3		95.3	95.5	7.1	7.1	8.5	1	4			
DA: Dooth Avor						6.7	0.1	151	20.9	_5.0	8.1	31.3	3 3	95.6	13.0	7.1		8.7		3			

DA: Depth-Averaged

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

Water Quar	·-, ······	· · · · · · · · · · · · · · · · · · ·	1		ZO March Zo	during wild			,		_									_			
Monitoring	Weather	Sea	Sampling	Water	Sampling Dept	h (m)	Current Speed	Current	Water Te	emperature (°C)		pН	Salinity (ppt)		aturation (%)	Disso Oxy		Turbidity	(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Dept	11 (111)	(m/s)	Direction	Value	Average	Value	Average	Value Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.3	99	21.3	04.0	8.0	8.0	28.6	89.4	89.3	6.7		2.2		3			
					Surface	1.0	0.3	97	21.3	21.3	8.0	8.0	28.6	89.2	89.3	6.7	6.7	2.2		4			
IM10	Minter	Madausta	40.44	0.0	Middle	4.4	0.4	119	21.3	24.2	8.0	0.0	28.8	89.0	88.7	6.7	6.7	2.7	2.8	4		000005	000000
IIVITO	Misty	Moderate	16:14	8.8	Middle	4.4	0.3	119	21.3	21.3	8.0	8.0	28.9 28.8	88.3	88.7	6.6		2.6	2.8	5	4	822235	809836
					Dettern	7.8	0.3	123	21.3	24.2	8.0	0.0	29.1 29.1	90.6	90.8	6.8	6.8	3.4	1	4			
					Bottom	7.8	0.3	127	21.2	21.3	8.0	8.0	29.1	90.9	90.0	6.8	0.0	3.6		5			
					Surface	1.0	0.4	81	21.3	21.3	7.9	7.9	28.7	90.5	90.6	6.8		1.3		5			
					Surface	1.0	0.4	80	21.3	21.5	7.9	7.5	28.7	90.6	90.0	6.8	6.8	1.3		6			
IM11	Misty	Moderate	16:22	6.2	Middle	3.1	0.4	93	21.3	21.4	7.9	7.9	28.8 28.9	90.8	91.0	6.8	0.0	2.5	2.3	4	5	821505	810548
IIVITT	iviioty	Moderate	10.22	0.2	Wilddie	3.1	0.3	87	21.4	21.4	7.9	7.3	28.9	91.1	31.0	6.8		2.4	2.5	4	3	021303	010540
					Bottom	5.2	0.4	82	21.4	21.4	7.8	7.8	29.1 29.0	93.0	94.2	7.0	7.1	3.1		4			
					Bottom	5.2	0.4	81	21.4	21.4	7.8	7.0	29.0	95.3	34.2	7.1	7.1	3.1		4			
					Surface	1.0	0.4	93	21.3	21.3	7.9	7.9	29.0 29.1	90.4	90.5	6.8		1.6		5			
					Ourlace	1.0	0.4	87	21.3	21.5	7.9	7.5	29.1	90.5	30.5	6.8	6.8	1.6		5			
IM12	Misty	Moderate	16:28	6.8	Middle	3.4	0.4	109	21.3	21.3	7.9	7.9	29.3	91.0	91.2	6.8	0.0	1.8	2.0	4	4	821154	811535
2	···ioty	moderate	10.20	0.0	madio	3.4	0.4	112	21.3	20	7.9	7.0	29.3	91.4	02	6.8		1.9	2.0	4	•	02.101	011000
					Bottom	5.8	0.4	78	21.3	21.3	7.8	7.8	29.5	93.2	93.9	7.0	7.1	2.4		4			
					20110111	5.8	0.5	80	21.3	20	7.8	7.0	29.4	94.6	00.0	7.1		2.5		4			
					Surface	1.0	0.0	91	21.2	21.2	7.9	7.8	29.3	92.5	92.8	6.9		1.8		4			
					Cunaco	1.0	0.0	95	21.2		7.8		29.3	93.0	02.0	7.0	7.0	1.9		4			
SR1A	Misty	Moderate	16:44	5.0	Middle	2.5	0.0	71	-	_	-	_	-	-	_	-		-	1.9	-	4	819976	812654
Oitint	iviloty	Moderate	10.44	0.0	Wilddie	2.5	0.0	68	-		-		-	-		-		-	1.0	-	7	010070	012004
					Bottom	4.0	0.0	78	21.2	21.2	7.8	7.8	29.3	94.1	94.6	7.1	7.1	2.0		4			
					Dollo	4.0	0.0	84	21.2	2.1.2	7.8	7.0	29.2	95.1	00	7.1		2.1		5			
					Surface	1.0	0.4	61	21.1	21.1	7.9	7.9	29.4	90.1	90.2	6.8		1.0		3			
						1.0	0.4	58	21.1		7.9		29.4	90.2		6.8	6.8	1.1		2			
SR2	Misty	Moderate	16:59	5.8	Middle	-	0.3	54	-	-	-	_	-	-	_	-		-	2.2	-	3	821458	814182
-	- 3					-	0.3	53	-		-		-	-		-		-		-	-		
					Bottom	4.8	0.4	42	21.1	21.1	7.9	7.9	29.4	90.4	90.5	6.8	6.8	3.4	1	3			
						4.8	0.4	38	21.1		7.9		29.4	90.6		6.8		3.3		3			
					Surface	1.0	0.3	148	20.7	20.7	8.0	8.0	28.8	91.4	91.4	6.9		2.2	4	3			
						1.0	0.2	147	20.7		8.0	-	28.8	91.4		6.9	6.9	2.3	4	3			
SR3	Cloudy	Moderate	16:31	8.9	Middle	4.5 4.5	0.3	144	20.8	20.8	8.1	8.1	29.0 29.0	91.3	91.4	6.9		6.7 7.3	6.5	3	4	822157	807559
							0.3	145				<u> </u>	29.0			6.9			4	4			
					Bottom	7.9 7.9	0.3	159	20.9	20.9	8.1	8.1	31.1 31.1	91.9 92.0	92.0	6.8	6.9	10.3	-	4			
			 	1	1	1.0	0.3	158				 						10.3				l I	
					Surface	1.0	0.0	98 91	20.7	20.7	8.1	8.1	31.5 31.5	91.1	91.2	6.8		4.6 4.6	1	5 5			
						4.6	0.0	76	20.7		8.1	1	21.7	91.2		6.8	6.8	7.3	1	6			
SR4A	Cloudy	Moderate	18:01	9.1	Middle	4.6	0.0	81	20.8	20.8	8.1	8.1	31.7	92.0	92.1	6.8		7.7	6.7	5	5	817165	807815
						8.1	0.0	108	20.8		8.1	<u> </u>	31.8	92.1		6.9		7.7	1	5			
					Bottom	8.1	0.0	100	20.8	20.8	8.2	8.1	31.8	92.6	92.6	6.9	6.9	8.0	1	6			
			<u> </u>			1.0	-	-	21.3		7.9	<u> </u>	28.7	91.2		6.8		1.3		3			
					Surface	1.0	-		21.3	21.3	7.9	7.9	28.9 28.8	91.6	91.4	6.9		1.3	1	4			
						-	-		-		1.5	1	-	-		-	6.9	-	1	-			
SR8	Misty	Moderate	16:32	4.6	Middle				-	-	H	1 -	-	H	-	-		<u> </u>	2.2		4	820369	811644
					_	3.6	-		21.3		7.8		20.6	93.4		7.0		3.0	1	4			
					Bottom	3.6	_		21.4	21.4	7.8	7.8	29.5	94.2	93.8	7.0	7.0	3.0	1	5			
				1	1	0.0	1		41.7		7.0		20.0	U-1.2	1	7.0		0.0	1	٠		1	

DA: Depth-Averaged

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

Monitoring	Weather	Sea	Sampling	Water			Current	0	Water Te	emperature (°C)		pН	Salinit	y (ppt)	DO S	aturation	Disso		Turbidity	(NTU)	Suspende		Coordinate	Coordinate
	Condition	Condition	Time	Depth (m)	Sampling Dept	h (m)	Speed (m/s)	Current Direction	Value	Average	Value			Average	Value	(%) Average	Oxy Value	gen DA	Value	DA	(mg/ Value	L) DA	HK Grid (Northing)	HK Grid (Easting)
	Condition	Condition	Time	Deptil (III)			, ,			Average		Average		Avelage		Average		DA		DA		DA	(Horaning)	(Edoting)
					Surface	1.0	0.1	27	20.7	20.7	8.0	8.0	31.7	31.7	92.4 92.4	92.4	6.9		5.0	1	4			
						1.0	0.1	21	20.7		8.0		31.7				6.9	6.9	5.7		4			
C1 (Cloudy	Moderate	09:51	8.7	Middle	4.4	0.1	16	20.8	20.8	8.0	8.0	32.2	32.2	92.5 92.5	92.5	6.9		9.9	9.0	4	4	815623	804267
	-					4.4	0.1	15	20.8		8.0		32.2				6.9		9.1	4	4			
					Bottom	7.7	0.1	32	20.8	20.8	8.0 8.1	8.1	32.2	32.2	92.6 96.8	94.7	6.9	7.1	12.2	-	5			
							0.1	24	20.8								7.2		12.1		4			
					Surface	1.0 1.0	0.2	347 347	20.8	20.8	8.0	8.0	28.4	28.4	90.3	90.3	6.8		2.1	-	4			
						5.6	0.1	5	20.8		8.0		29.9		90.3		6.8	6.8	2.1	1	4			
C2 (Cloudy	Moderate	11:06	11.2	Middle	5.6	0.2	359	20.9	20.9	8.0	8.0	29.9	29.9	90.3	90.4	6.8		2.1	5.2	4	4	825683	806932
						10.2	0.2	2	20.9		8.1		29.9		91.1		6.8		11.2	1	4			
					Bottom	10.2	0.3	3	20.9	20.9	8.1	8.1	29.9	29.9	91.3	91.2	6.9	6.9	11.9	1	5			
+						1.0	0.3	276	21.2		8.1		30.5		87.6		6.5		1.0		4			
					Surface	1.0	0.3	281	21.2	21.2	8.1	8.1	30.7	30.6	87.6	87.6	6.5		1.0	1	3			
00						4.9	0.4	267	21.2	24.2	8.1		31.0		87.9		6.5	6.5	1.1	1	3			0.1700.4
C3	Misty	Moderate	10:31	9.8	Middle	4.9	0.4	261	21.2	21.2	8.1	8.1	31.0	31.0	88.1	88.0	6.5		1.1	1.4	4	4	822123	817824
					Bottom	8.8	0.3	272	21.2	21.2	8.1	8.0	31.1	31.1	89.7	91.6	6.7	6.8	2.1		5			
					Bollom	8.8	0.3	277	21.2	21.2	8.0	8.0	31.1	31.1	89.7 93.4	91.6	6.9	0.8	2.1		5			
					Surface	1.0	0.1	16	20.6	20.6	8.0	8.0	31.1	31.1	92.3 92.4	92.4	6.9		2.6		4			
					Ourlace	1.0	0.1	15	20.6	20.0	8.0	0.0	31.2	31.1		32.4	6.9	6.9	2.7		4			
IM1 C	Cloudy	Moderate	10:13	6.6	Middle	3.3	0.2	6	20.8	20.8	8.1	8.1	32.0	32.0	93.5 93.8	93.7	6.9	0.5	5.7	6.6	4	4	818339	806442
	Cioday	Moderate	10.10	0.0	Wilddie	3.3	0.1	6	20.8	20.0	8.1	0.1	32.1	02.0		55.7	7.0		5.6	0.0	4	7	010000	000112
					Bottom	5.6	0.1	8	20.8	20.8	8.1	8.1	32.2	32.2	95.4 95.6	95.5	7.1	7.1	11.7	1	4			
						5.6	0.1	4	20.8		8.1		32.2				7.1		11.5		4			
					Surface	1.0	0.2	35	20.5	20.5	8.0	8.0	30.7	30.7	92.0 92.0	92.0	6.9		2.9	1	6			
						1.0	0.2	35	20.5		8.0		30.7				6.9	6.9	3.2		6			
IM2	Cloudy	Moderate	10:17	7.2	Middle	3.6 3.6	0.1	23	20.8	20.8	8.1 8.1	8.1	32.0 32.1	32.0	93.0 93.1	93.1	6.9 6.9		9.9	7.8	5	5	819167	806219
						6.2	0.1	19 32	20.8		8.1		32.1				7.0		9.4 10.8	-	5 4			
					Bottom	6.2	0.1	31	20.8	20.8	8.1	8.1	32.2	32.2	93.8 93.9	93.9	7.0	7.0	10.8	1	4			
						1.0	0.1	344	20.8		8.1		29.1				7.0		2.5		4		l I	
					Surface	1.0	0.1	350	20.7	20.7	8.1	8.1	29.1	29.1	92.1 92.2	92.2	7.0		2.6	1	3			
						4.2	0.1	6	20.7		8.1		30.6				7.0	7.0	5.2	1	4			
IM7	Cloudy	Moderate	10:38	8.4	Middle	4.2	0.2	11	20.8	20.8	8.1	8.1	30.7	30.7	94.0 94.6	94.3	7.1		5.3	4.9	4	4	821338	806831
					D. //	7.4	0.2	325	20.8		8.2		31.3		96.5		7.2		6.8	1	5			
					Bottom	7.4	0.2	331	20.8	20.8	8.2	8.2	31.3	31.3	96.9	96.7	7.2	7.2	6.9	1	4			

DA: Depth-Averaged

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

Water Quar				1	ZO March 25	during wild-			_		1		1	DO 2	-11	D:-	de contra			O	10-11-1		1
Monitoring	Weather	Sea	Sampling	Water	Sampling Dept	h (m)	Current Speed	Current	Water Te	emperature (°C)		pН	Salinity (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	276	21.2	21.2	7.9	7.0	28.2 28.2	92.3	92.6	7.0		1.3		5	_		
					Surface	1.0	0.3	278	21.2	21.2	7.9	7.9	28.2	92.8	92.0	7.8	7.3	1.3		4			
IM10	Miotr	Modorot-	11:24	0.4	Middle	4.2	0.4	273	21.2	21.2	7.9	7.9	28.1	93.8	93.9	7.1	1.3	1.8	1.8	5	5	822244	809838
IIVI I U	Misty	Moderate	11:34	8.4	ivildale	4.2	0.4	275	21.2	21.2	7.9	7.9	28.1	93.9	93.9	7.1		1.8	1.8	4	э	822244	809838
					Bottom	7.4	0.3	271	21.2	21.2	7.9	7.9	28.1 28.1	94.5	94.8	7.1	7.2	2.4		5			
					Bottom	7.4	0.3	270	21.2	21.2	7.8	7.9	28.1	95.0	94.0	7.2	1.2	2.3		4			
					Surface	1.0	0.3	277	21.3	21.3	7.9	7.9	28.7	89.3	89.3	6.7		2.0		3			
					Surface	1.0	0.3	270	21.3	21.5	7.9	7.5	28.8	89.2	09.3	6.7	6.7	2.1		4			
IM11	Misty	Moderate	11:27	8.0	Middle	4.0	0.4	268	21.3	21.4	7.9	7.9	28.9 29.0	88.9	88.6	6.7	0.7	2.6	2.6	3	4	821510	810562
110111	iviioty	Moderate	11.21	0.0	Mildule	4.0	0.3	264	21.4	۷1.٦	7.9	1.5	29.0	88.2	00.0	6.6		2.6	2.0	4	7	021010	010302
				1	Bottom	7.0	0.3	270	21.4	21.4	7.9	7.9	29.2	91.5	91.8	6.8	6.9	3.2]]	4			
				<u> </u>	Dottom	7.0	0.3	275	21.4	21.7	7.9	1.5	29.2	92.1	31.0	6.9	0.0	3.3		5			
		· · · · · ·			Surface	1.0	0.3	279	21.3	21.3	7.9	7.9	29.3	88.9	89.0	6.6		1.0		4			
						1.0	0.3	274	21.3	2	7.9		29.3	89.0	00.0	6.6	6.6	1.1		3			
IM12	Misty	Moderate	11:22	7.2	Middle	3.6	0.3	261	21.3	21.3	7.9	7.9	29.3	88.9	89.0	6.6	0.0	2.0	1.8	3	4	821161	811497
	,					3.6	0.3	256	21.3		7.9		29.4	89.0		6.6		2.1		4	-		
				1	Bottom	6.2	0.3	293	21.3	21.3	7.9	7.9	29.5	92.4	92.7	6.9	6.9	2.3	1 1	6			
						6.2	0.3	297	21.3		7.9		29.4	93.0		6.9		2.2		5			
					Surface	1.0	0.0	205	21.1	21.1	7.9	7.9	28.2	94.6	94.8	7.1		1.9		4			
						1.0	0.1	198	21.1		7.9		28.2	95.0		7.2	7.2	1.8		4			
SR1A	Misty	Moderate	11:02	5.4	Middle	2.7	0.1	215	-	-		-	-	-	-	-		-	1.9	-	4	819971	812653
	•			1	 	2.7	0.1	217	- 24.4		- 7.0	1	-	-		- 7.0		-		-			
					Bottom	4.4	0.0	187	21.1	21.1	7.8	7.8	28.2	96.3	96.6	7.3	7.3	2.0		3			
						4.4 1.0	0.1	193 245	21.1		7.8		28.1	96.9		7.3		2.0		4			
					Surface	1.0	0.1	238	21.2 21.2	21.2	7.9	7.8	29.2 29.2	92.8	93.0	7.0		2.0		5 6			
						-	0.0	234	- 21.2		7.0		-	93.2		-	7.0	2.0		-			
SR2	Misty	Moderate	10:51	4.0	Middle		0.0	236	-	-	H	-	-	-	-	-		-	2.4		5	821469	814179
						3.0	0.0	270	21.2		7.8		20.2	94.9		7.1		2.8		4			
					Bottom	3.0	0.0	272	21.2	21.2	7.7	7.8	29.1	96.1	95.5	7.1	7.2	2.9		4			
				i		1.0	0.1	339	20.8		8.0		29.4	91.2		6.9		4.0		4			
					Surface	1.0	0.2	338	20.8	20.8	8.0	8.0	28.4	91.2	91.2	6.9		4.6	1	4			
						4.3	0.2	320	20.9		8.1	t	29.7	91.0		6.9	6.9	7.6	1	3			
SR3	Cloudy	Moderate	10:43	8.5	Middle	4.3	0.2	316	20.9	20.9	8.1	8.1	28.8 28.7	91.1	91.1	6.9		7.8	7.1	4	4	822128	807566
					5	7.5	0.2	319	20.9		8.1		30.9	91.8	20.0	6.8		9.3	1	3			
					Bottom	7.5	0.3	319	20.9	20.9	8.1	8.1	30.9	92.1	92.0	6.9	6.9	9.4	1	4			
					O. of a sec	1.0	0.0	177	20.6	00.0	7.9	7.0	20.9	88.4	00.4	6.7		3.6		6			
					Surface	1.0	0.0	173	20.6	20.6	7.9	7.9	29.8	88.3	88.4	6.7	6.7	3.7	1	5			
SR4A	Claudi	Madaust-	00:04	1 00	Middle	4.6	0.0	173	20.9	20.0	7.9	7.0	20.2	88.5	00.0	6.6	6.7	5.4	5.5	5	-	047470	007707
SK4A	Cloudy	Moderate	09:24	9.2	Middle	4.6	0.0	178	20.9	20.9	7.9	7.9	30.2	88.6	88.6	6.6		5.6	5.5	6	5	817178	807797
					Bottom	8.2	0.1	185	20.9	20.9	7.8	7.8	29.9	88.9	88.9	6.7	6.7	7.3	1	4			
					BOILOITI	8.2	0.0	187	20.9	20.9	7.8	7.8	29.7	88.9	88.9	6.7	0.7	7.3		4			
					Surface	1.0	-	-	21.3	21.3	7.9	7.9	28.6 28.6	91.4	91.6	6.9		3.3		5			
					Surface	1.0	-	-	21.3	21.3	7.9	1.9	28.6	91.8	91.0	6.9	6.9	3.3		4			
SR8	Misty	Moderate	11:17	4.8	Middle	-	-	-	-		-		-	-		-	0.5	-	3.7	-	4	820404	811610
5110	iviioty	Moderate	11.17	7.0	Mildule	-	-	-	-		-		-	-	_	-		-	5.7	-	7	020404	011010
					Bottom	3.8	-	-	21.4	21.4	7.8	7.8	29.5	94.4	95.3	7.0	7.1	4.0]]	4			
					Dottom	3.8	-	-	21.4	41.7	7.8	7.0	29.4	96.2	55.5	7.2		4.0		4			

DA: Depth-Averaged

Water Quality Monitoring Results on 30 March 23 during Mid-Ebb Tide

water Quar	ity worms	orning ittesa	113 011		30 March 23	auring wia-		<u>, </u>																
Monitoring	Weather	Sea	Sampling	Water	Sampling Depti	n (m)	Current Speed	Current	Water Te	emperature (°C)	pН		Salin	ity (ppt)		aturation (%)	Disso Oxy	olved gen	Turbidity	/(NTU)	Suspende (mg/		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Sampling Depti	. ()	(m/s)	Direction	Value	Average	Value Av	erage	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.4	203	20.6	20.6	8.2	8.2	28.9	28.8	94.0	94.0	7.1		2.0		3			
					Surface	1.0	0.3	201	20.6	20.6	8.2	0.2	28.8	20.0	93.9	94.0	7.1	7.1	2.2		3			
C1	Cloudy	Moderate	20:02	8.2	Middle	4.1	0.4	223	20.5	20.5	8.2	8.2	31.8	31.8	93.5 93.5	93.5	7.0	7.1	3.3	3.7	2	3	815643	804236
Ci	Cloudy	Moderate	20.02	0.2	Middle	4.1	0.4	225	20.5	20.5	8.2	0.2	31.8	31.0	93.5	93.3	7.0		3.2	3.7	3	3	813043	004230
					Bottom	7.2	0.3	216	20.3	20.3	8.2	8.2	32.2	32.2	94.9	95.1	7.1	7.1	6.1		4			
					Bottom	7.2	0.3	221	20.2	20.0	8.2	0.2	32.2	02.2	95.2	50.1	7.1		5.6		3			
					Surface	1.0	0.3	180	20.8	20.8	8.1	8.1	25.9	25.8	87.5	87.5	6.7		2.7		4			
					Carrace	1.0	0.3	177	20.8	20.0	8.1	0.1	25.8	20.0	87.4	07.0	6.7	6.7	2.9		3			
C2	Cloudy	Moderate	18:43	12.1	Middle	6.1	0.3	173	20.7	20.7	8.1	8.1	30.8	30.8	87.8	87.9	6.6	0.7	3.6	3.2	4	4	825694	806933
02	Cioday	Woderate	10.40	12.1	Iviidalo	6.1	0.4	166	20.7	20.7	8.1	0.1	30.9	00.0	87.9	07.0	6.6		3.5	0.2	4	7	020004	000000
					Bottom	11.1	0.4	190	20.7	20.8	8.1	8.1	30.8	30.8	88.6	88.7	6.6	6.6	3.3		4			
					Dottom	11.1	0.4	197	20.8	20.0	8.1		30.8	00.0	88.8	00.7	6.6	0.0	3.2		4			
					Surface	1.0	0.3	71	21.1	21.1	8.0	8.0	31.2	31.2	87.1	87.1	6.5		1.1		2			
					Gunaoo	1.0	0.3	67	21.1	2	8.0		31.3	01.2	87.1	07.1	6.5	6.5	1.1		3			
С3	Misty	Moderate	19:50	10.0	Middle	5.0	0.3	59	21.1	21.1	7.9	7.9	31.4	31.4	87.3	87.4	6.5	0.0	1.1	1.4	3	3	822130	817801
	moty	moderate	10.00		daie	5.0	0.3	54	21.1		7.9		31.4	0	87.4	0	6.5		1.1	1	3	ŭ	022.00	000.
					Bottom	9.0	0.3	81	21.1	21.1	7.9	7.9	31.4	31.4	88.5	89.0	6.6	6.6	1.9		2			
					20110111	9.0	0.3	73	21.1		7.9		31.4	0	89.4	00.0	6.6	0.0	1.9		3			
					Surface	1.0	0.2	183	20.6	20.6	8.2	8.2	30.6	30.6	93.4 93.4	93.4	7.0		1.6		5			
						1.0	0.3	183	20.6		8.2	_	30.6				7.0	7.0	1.6		4			
IM1	Cloudy	Moderate	19:38	6.1	Middle	3.1	0.3	175	20.5	20.5	8.3	8.3	32.1	32.1	93.3	93.3	7.0		8.0	6.4	4	4	818333	806481
	,					3.1	0.3	180	20.5		8.3		32.1		93.3		7.0		8.4		3			
					Bottom	5.1	0.3	199	20.4	20.4	8.3	8.3	32.1	32.1	93.9	94.0	7.0	7.0	9.4		3			
						5.1	0.3	205	20.4		8.3		32.2		94.1		7.0		9.3	ļ	2			
					Surface	1.0	0.3	189	20.6	20.6	8.2	8.2	30.9	31.0	93.0	93.0	7.0		3.1	4	4			
						1.0	0.3	196	20.6		8.2		31.1		93.0		7.0	7.0	3.5	4	3			
IM2	Cloudy	Moderate	19:33	6.8	Middle	3.4	0.3	205	20.5	20.5	8.2	8.2	32.0	32.0	93.3	93.4	7.0		5.2	5.7	4	4	819168	806245
	•					3.4	0.3	202	20.5		8.2		32.0		93.4		7.0		5.3	4	4			
					Bottom	5.8	0.3	191	20.5	20.5	8.2	8.2	32.1	32.1	94.0	94.1	7.0	7.0	8.4	4	5			
						5.8	0.3	188	20.5		8.2		32.1		_		7.0		8.6		6			
					Surface	1.0	0.2	172	20.7	20.7	8.2	8.2	28.0	28.0	90.7	90.7	6.9		3.9	4	5			
						1.0	0.2	173	20.7		8.2		27.9				6.9	6.9	4.1	4	4			
IM7	Cloudy	Moderate	19:13	8.1	Middle	4.1	0.2	169	20.7	20.7	8.2	8.1	31.3	31.3	91.3	91.4	6.8		5.2	4.9	3	4	821361	806811
						4.1	0.2	174	20.7		8.1		31.4		91.5		6.8		5.3	4	4			
					Bottom	7.1 7.1	0.2	195	20.7	20.7	8.1 8.1	8.1	31.4	31.4	92.2	92.3	6.9	6.9	5.5	4	3			
DA: Dooth Aver					1	7.1	0.2	194	20.7		8.1		31.4		92.3		6.9		5.5		4			

DA: Depth-Averaged

Water Quality Monitoring Results on 30 March 23 during Mid-Ebb Tide

water Qua	ity worm	orning incoo	1113 011		30 March 23	auring wia	LDD Hu																	
Monitoring	Weather	Sea	Sampling	Water	Sampling Do	anth (m)	Current Speed	Current	Water Te	emperature (°C)		рН	Salin	nity (ppt)		aturation (%)	Disso Oxy	olved gen	Turbidity	r(NTU)	Suspende (mg		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Gampling Di	spur (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	96	21.4	21.4	8.0	8.0	25.8	25.8	90.5	90.5	6.9		1.1		2			
					Surface	1.0	0.3	95	21.4	21.4	8.0	6.0	25.8	23.0	90.4	90.5	6.9	6.9	1.0		3			
IM10	Misty	Moderate	18:44	8.8	Middle	4.4	0.3	115	21.3	21.3	8.0	8.0	27.0	27.1	90.2	90.3	6.8	0.5	1.5	1.6	3	3	822229	809856
IIVITO	iviloty	Woderate	10.44	0.0	Ivildule	4.4	0.3	109	21.3	21.0	8.0	0.0	27.1	27.1	90.4	30.5	6.8		1.6	1.0	4	3	022223	003030
					Bottom	7.8	0.3	102	21.2	21.2	8.0	7.9	29.1	28.9	91.1	91.5	6.8	6.9	2.2	_	3			
						7.8	0.3	101	21.2		7.9		28.8		91.9	*	6.9		2.2		4			
					Surface	1.0	0.4	80	21.2	21.2	7.9	7.9	25.2	25.3	88.3	88.2	6.8		1.1	_	4			
						1.0	0.4	75	21.2		7.9		25.5		88.1		6.8	6.7	1.1	-	4			
IM11	Misty	Moderate	18:54	7.0	Middle	3.5	0.3	113	21.1	21.1	7.9	7.9	30.0	30.0	88.4	88.6	6.6		2.0	1.8	3	3	821488	810567
						3.5	0.4	105	21.1				30.1		88.8		6.6		2.1	4	3			
					Bottom	6.0	0.3	113	21.1	21.1	7.8	7.8	30.2	30.2	90.4 91.6	91.0	6.7	6.8	2.3	1	2			
			-		1	6.0 1.0	0.3	112	21.0			1					6.8		2.2 1.1		3			1
					Surface	1.0	0.4	87 92	21.2 21.2	21.2	7.8	7.8	28.6	28.6	90.7	90.8	6.8		1.1	-	3			
						3.4	0.3	107	21.2		7.8		29.0		91.3		6.9	6.9	1.2	-	4			
IM12	Misty	Moderate	19:00	6.8	Middle	3.4	0.4	107	21.1	21.1	7.8	7.8	29.1	29.0	91.9	91.6	6.9		1.3	1.3	3	3	821173	811523
						5.8	0.4	125	21.1		7.7		29.1		93.0		7.0		1.5	1	4			
					Bottom	5.8	0.4	124	21.0	21.1	7.7	7.7	29.1	29.1	94.1	93.6	7.1	7.1	1.4	1	3			
						1.0	-	70	21.1		8.0		29.0		88.9		6.7		1.3		3			
					Surface	1.0	0.0	71	21.1	21.1	8.0	8.0	28.9	28.9	89.0	89.0	6.7		1.3	1	4			
						2.5	0.1	70	-		-		-		-		-	6.7	-	1	-			
SR1A	Misty	Moderate	19:14	5.0	Middle	2.5	0.0	77	-	-	-	-	_	-	-	-	-		-	1.5	_	4	819973	812653
						4.0	0.0	91	21.1		8.0		28.8		89.1		6.7		1.7	1	5			
					Bottom	4.0	0.0	94	21.1	21.1	7.9	7.9	28.8	28.8	89.1	89.1	6.7	6.7	1.7	1	4			
					0(1.0	0.3	43	21.2	04.0	7.9	7.0	29.9	00.0	90.3	00.5	6.7		2.3		4			
					Surface	1.0	0.2	38	21.2	21.2	7.8	7.8	30.0	30.0	90.6	90.5	6.8	0.0	2.3		4			
SR2	Minter	Madazata	19:33	4.4	Middle	-	0.3	46	-	_	-		-	_	-		-	6.8	-	2.4	-	5	821457	814170
SKZ	Misty	Moderate	19:33	4.4	ivildale	-	0.3	40	-	-	-	1 -	-	i -	-	-	-		-	2.4	-	э	821457	814170
					Bottom	3.4	0.3	50	21.2	21.2	7.8	7.8	30.1	30.0	92.3	92.9	6.9	7.0	2.5		5			
					Bollom	3.4	0.3	45	21.1	21.2	7.8	7.0	30.0	30.0	93.5	92.9	7.0	7.0	2.4		6			
					Surface	1.0	0.3	157	21.0	21.0	8.1	8.1	28.2	28.3	87.3	87.3	6.6		1.8		4			
					Gundoo	1.0	0.3	156	21.0	21.0	8.1	0.1	28.3	20.0	87.3	07.0	6.6	6.7	1.8		3			
SR3	Cloudy	Moderate	19:07	8.6	Middle	4.3	0.3	160	20.7	20.7	8.2	8.2	30.9	31.0	89.9	90.0	6.7	0	6.2	5.1	4	4	822162	807547
	,			-		4.3	0.4	153	20.7		8.2		31.0	*	90.1		6.7		6.6	1	3			
					Bottom	7.6	0.3	153	20.6	20.6	8.2	8.2	31.1	31.1	90.5	90.6	6.8	6.8	7.0	_	4			
						7.6	0.3	145	20.6		8.2		31.1		90.7		6.8		7.0		5			
					Surface	1.0	0.0	40	20.6	20.6	8.2	8.2	31.2	31.3	90.1	90.2	6.7		3.8	-	3			
						1.0	0.1	35	20.6		8.2		31.3		90.2		6.7	6.8	3.9	-	4			
SR4A	Cloudy	Moderate	20:32	9.2	Middle	4.6	0.0	11	20.6	20.6	8.2	8.2	31.6	31.6	91.0 91.1	91.1	6.8		4.2	4.1	2	3	817193	807832
						4.6 8.2	0.1	12 5	20.6				31.6				6.8		4.2	1	3			
					Bottom	8.2		7	20.7	20.7	8.2	8.2	31.5	31.5	92.1 92.3	92.2	6.9	6.9	4.2	4				
			1	 		1.0	0.0	-	20.7		7.9	 	26.4	-	92.3		6.9		1.3	1	3			1
				1	Surface	1.0	-	-	21.3	21.3	7.9	7.9	26.4	26.4	90.3	90.2	6.9		1.3	1	3			
				1		1.0	-	-	- 21.3		7.9	1	26.4		90.1		6.9	6.9	1.2	1	-			
SR8	Misty	Moderate	19:06	4.6	Middle	-	-	-	-	-	\vdash		-	-	-	-	-			1.4	-	3	820381	811618
				1		3.6	+ -	-	21.3		7.9	1	28.9		90.5		6.8		1.7	1	3			
				1	Bottom	3.6	-		21.3	21.3	7.9	7.9	28.8	28.8	91.2	90.9	6.9	6.9	1.6	1	2			
	l		1	1	1	3.0	-	-	∠1.3		1.9	1	∠0.8	l	91.∠		ช.9		۵.۱	1				1

DA: Depth-Averaged

Water Quality Monitoring Results on 30 March 23 during Mid-Flood Tide

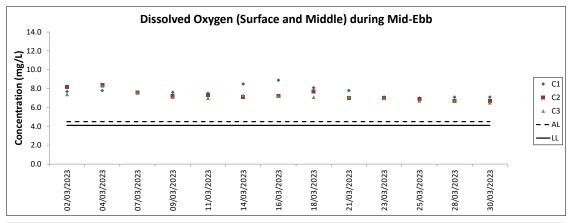
Water Qua	ity worm	ornig itesa	1.5 011	1	30 March 23	during wid-		uc	1						DO 0	aturation	Dica	alvad			Cuonossi	od Colida		1
Monitoring	Weather	Sea	Sampling	Water	Sampling De	oth (m)	Current Speed	Current	Water Te	emperature (°C)		рН	Salin	ity (ppt)		(%)		olved /gen	Turbidity	(NTU)	Suspende (mg		Coordinate HK Grid	Coordinate HK Grid
Station	Condition	Condition	Time	Depth (m)	Camping 20	Pu. ()	(m/s)	Direction	Value	Average	Value	Average	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
					Surface	1.0	0.1	41	20.6	20.6	8.2	8.2	29.2	29.3	93.6	93.7	7.1		1.5		3			
					Surface	1.0	0.1	45	20.6	20.6	8.2	0.2	29.3	29.3	93.7	93.7	7.1	7.1	1.5	1	2			
C1	Cloudy	Moderate	07:55	8.3	Middle	4.2	0.1	59	20.5	20.5	8.2	8.2	31.9	31.9	93.1	93.1	7.0	7.1	2.2	4.6	4	3	815635	804254
Ci	Cloudy	Moderate	07.55	0.3	Middle	4.2	0.1	59	20.5	20.5	8.2	0.2	31.9	31.8	93.1	93.1	7.0		2.2	4.0	3	3	013033	004234
					Bottom	7.3	0.1	64	20.5	20.5	8.2	8.2	31.9	31.9	93.5 93.5	93.5	7.0	7.0	10.2		3			
					Bottom	7.3	0.1	68	20.5	20.5	8.2	0.2	31.9	31.9	93.5	93.3	7.0	7.0	10.0		4			
					Surface	1.0	0.0	268	20.9	20.9	8.1	8.1	25.9	25.9	89.9	89.8	6.9		1.7		4			
					Gundoe	1.0	0.0	261	20.9	20.0	8.1	0.1	26.0	20.0	89.7	00.0	6.9	6.8	1.7	_	5			
C2	Cloudy	Moderate	09:20	11.3	Middle	5.7	0.0	264	20.7	20.7	8.2	8.2	31.0	31.0	87.8	87.9	6.6	0.0	4.5	4.0	3	4	825687	806960
	,					5.7	0.0	262	20.7		8.2	-	31.0		88.0		6.6		4.6		4			
					Bottom	10.3	0.0	299	20.7	20.7	8.1	8.1	31.2	31.1	89.3	89.5	6.7	6.7	5.8	1	2			
						10.3	0.1	302	20.7		8.1		31.1		89.6		6.7		5.8		3			
					Surface	1.0	0.1	258 254	21.1	21.1	8.1	8.1	30.8	30.9	86.0 85.7	85.9	6.4		1.0	1	3			
						5.8	- 0.1	258	21.1		8.1		31.3		84.5		6.3	6.4	1.0 1.2	-	4			
C3	Misty	Moderate	08:19	11.6	Middle	5.8	0.1	258	21.1	21.1	8.1	8.1	31.3	31.3	84.4	84.5	6.3		1.2	1.4	3	3	822130	817794
					_	10.6	0.0	248	21.1		8.1		31.4				6.2		2.0	1	3			
					Bottom	10.6	0.0	252	21.1	21.1	8.1	8.1	31.4	31.4	84.2 84.2	84.2	6.2	6.2	2.0	1	3			
					0	1.0	0.0	46	20.6	00.0	8.2	0.0	30.7	00.7		92.8	7.0		2.4		3			
					Surface	1.0	0.1	41	20.6	20.6	8.2	8.2	30.8	30.7	92.8 92.7	92.8	7.0	7.0	2.6	1	3			
IM1	Cloudy	Moderate	08:20	6.7	Middle	3.4	0.0	64	20.5	20.5	8.2	8.2	31.3	31.3	92.2	92.2	6.9	7.0	4.7	5.7	3	2	818371	806443
IIVI I	Cloudy	Moderate	08:20	6.7	Middle	3.4	0.0	62	20.5	20.5	8.2	8.2	31.4	31.3	92.1	92.2	6.9		5.3	5.7	3	3	8183/1	806443
					Bottom	5.7	0.0	44	20.5	20.5	8.2	8.2	32.1	32.1	92.6	92.6	6.9	6.9	9.6		4			
					Bottom	5.7	0.0	41	20.5	20.5	8.2	0.2	32.1	52.1	92.6	32.0	6.9	0.5	9.5		3			
					Surface	1.0	0.0	20	20.6	20.6	8.2	8.2	29.9	29.9	93.0	93.0	7.0		3.9	_	3			
						1.0	0.0	25	20.6		8.2		29.9		93.0		7.0	7.0	4.2	_	3			
IM2	Cloudy	Moderate	08:25	7.2	Middle	3.6	0.0	3	20.6	20.6	8.2	8.2	31.9	31.9	93.1 93.3	93.2	6.9		7.1	7.2	4	4	819174	806221
	_					3.6	0.0	10	20.6				32.0				7.0		7.1	4	5			
					Bottom	6.2	0.0	11	20.5	20.5	8.2	8.2	32.1 32.1	32.1	93.8	94.0	7.0	7.0	10.5	4	5 4			
				1	1	6.2	0.1	13	20.4								7.0		10.3					
					Surface	1.0	0.0	40 33	20.8	20.8	8.2 8.2	8.2	26.2 26.2	26.2	91.0	91.0	7.0		2.5 2.7	1	3			
						4.3	0.0	41	20.8		8.2		31.2		91.8		6.9	7.0	4.5	1	4			
IM7	Cloudy	Moderate	08:47	8.5	Middle	4.3	0.1	36	20.7	20.7	8.2	8.2	31.3	31.2	91.9	91.9	6.9		4.7	4.1	3	3	821349	806820
						7.5	0.0	39	20.6		8.2		31.3		92.6		6.9		5.2	1	3			
					Bottom	7.5	0.0	35	20.6	20.6	8.2	8.2	31.4	31.4	92.8	92.7	6.9	6.9	5.2	1	4			
A. Donth Avo				1	I.		0.0				Ü		57		02.0		0.0		U					1

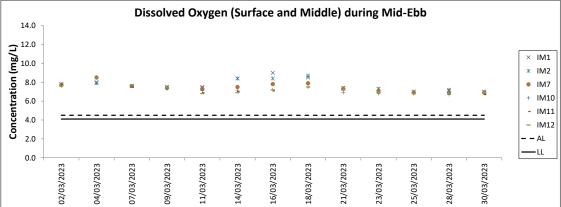
DA: Depth-Averaged

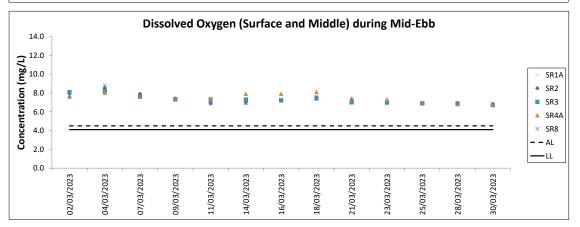
Water Quality Monitoring Results on 30 March 23 during Mid-Flood Tide

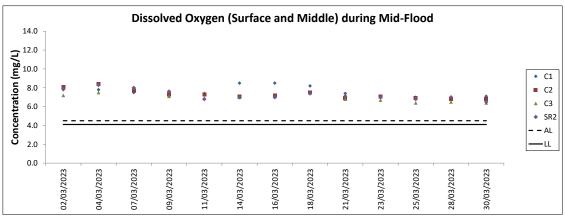
Sampling Depth (m) Samplin	water Quai	ity wonit	oring Resu	its on		30 March 23	auring Mia-	riooa i	iae																
Section Condition Time Depth (m) Section Condition Time Depth (m) Section Condition Condition Time Depth (m) Section Condition Con		Weather	Sea	Sampling	Water	Sampling Dent	h (m)			Water Te	emperature (°C)	рН		Salini	ity (ppt)					Turbidity	(NTU)			Coordinate	Coordinate HK Grid
Miles Moderate Ge 23 R.6 Middle Ge 24 R.6 Middle G	Station	Condition	Condition	Time	Depth (m)	Campling Dept		(m/s)	Direction	Value	Average	Value Av	erage	Value	Average	Value	Average	Value	DA	Value	DA	Value	DA	(Northing)	(Easting)
Miley Moderate 09:23 8.6 Midde 4.3 1.0 0.0 392 21.4 7.9						Surface	1.0	0.0	306	21.4	21.4	7.9	7.0	25.5	25.6	90.6	00.6	6.9		1.3		3			
M10 May Moderate 08:23 8.6 Middle 43: 0. 294 213 213 7.9 7.9 28.4 28.6 80.0 8.8 8.5 16. 16. 1.6 4 4 8224 Moderate 08:23 8.6 Middle 43: 0. 294 213 213 7.9 7.9 28.4 28.6 80.0 8.8 8.5 16. 16. 1.6 4 4 8224 Moderate 08:16 1.0 1.0 1.0 1.0 20 222 212 21.1 7.9 7.9 28.4 28.4 28.2 22.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1						Surface	1.0	0.0	302	21.4	21.4	7.9	1.5	25.7	23.0	90.5	90.0	6.9	6.0	1.3		3			
Moderate Moderate	IM10	Mioty	Madarata	00.22	0.6	Middle		-	294	21.3	21.2		7.0		20.6	90.8	00.0		0.9	1.6	1.6	4	4	022244	809841
Mily Moderate Mily Mily Moderate Mily Mily Moderate Mily Mily Moderate Mily Mily Moderate Mily Mily Moderate Mily Mily Mily Moderate Mily Mily Mily Moderate Mily	110110	iviisty	Woderate	09.23	0.0	Middle	4.3	0.1	299	21.2	21.5	7.9	7.5	28.7	20.0	90.8	90.0	6.8		1.5	1.0	4	4	022241	009041
Misty Moderate O8:16 7.8 O.1 O.0 288 21.2 21.2 7.8 7.9 25.2 28.8 88.5 83.0 0.8 1.8 4 4 4 1.0 1						Rottom	7.6	0.1	301	21.1	21.1		70	29.5	20.4	91.6	92.0		6.0	1.9		4			
Misty Moderate 08:16 7.4 Moderate 08:16 7.4 Moderate 08:16 7.4 Moderate 08:16 7.4 Moderate 08:16 7.4 Moderate 08:16 7.4 Moderate 08:16 7.4 Moderate 08:16 7.4 Moderate 08:16 7.4 Moderate 08:16 7.4 Moderate 08:16 7.4 Moderate 08:16 7.4 Moderate 08:16 7.4 Moderate 08:16 7.4 Moderate 08:16 7.4 Moderate 08:16 7.4 Moderate 08:16 7.4 Moderate 08:17 7.8 7.						Dottom	7.6	0.1	301	21.1	21.1	7.8	1.9	29.4	23.4	92.3	92.0	6.9	0.9	1.9		4			
Milt Misty Moderate OB-16 7.4 Middle 3.7 0.0 282 212 7.9 7.9 25.5 0.881 8.7 6.6 7.2 2.0 2.1 3. 3 82148 2.1 2.1 7.9 7.9 3.0 3.0 3.0 3.0 3.0 3.0 4.0 2.0 2.1 3. 3 82148 3.7 3.0 3						Surface	1.0	0.0	288	21.2	21.2		7.0		25.8		88.3			1.8		4			
Mility Moderate Mility Moderate Mility Moderate Mility Moderate Mility Moderate Mility Moderate Mility Moderate Mility Moderate Mility Moderate Mility Mility Moderate Mility Moderate Mility Moderate Mility Mility Moderate Mility Mility Moderate Mility Mility Moderate Mility Mility Moderate Mility Mility Moderate Mility Mility Moderate Mility Mility Mility Moderate Mility Mility Mility Mility Mility Moderate Mility						Gundoc					21.2	7.9	7.0		20.0		00.0		6.7						
Surface Solton Bottom	IM11	Mistv	Moderate	09:16	7.4	Middle					21.2		79		30.0		88 1		0.7		21		3	821484	810532
Surface		···ioty	moderate	00.10		·····adio						7.9			00.0		00						ŭ	02.101	0.0002
Surface 1.0						Bottom					21.1		7.8		30.2		90.6		6.8						
Middle						Dotto						7.8			00.2	91.1	00.0		0.0						
Middle						Surface					21.2	7.9	7.9		26.9		87.4								
Middle												7.9					*		6.6						
Second Part	IM12	Mistv	Moderate	09:11	8.2	Middle					21.1		7.9		30.2	87.5	87.7				2.2		5	821149	811531
SR1A Misty Moderate O8:47 S.0 Surface 1.0 O.0 1.0 O.1 2.01 2.1.2 2.1.2 8.0 8.0 2.9.3 2.9.3 87.3 87.3 6.5 6.5 0.5		,										7.9											-		
SR1A Misty Moderate 06:47 5.0 Surface 1.0 0.0 198 21.2 21.2 8.0 8.0 293 29.3 87.3 87.3 6.5 6.5 2.1 4 4 81997						Bottom					21.0		7.8		30.0		90.0		6.8						
SRIA Misty Moderate 08:47 5.0 Middle 2.5 2.1												7.8													
SR1A Misty Moderate 08:47 5.0 Middle 2.5 - 217						Surface					21.2		8.0		29.3		87.3								
SKTA Misty Moderate Misty Misty Moderate Misty Misty Moderate Misty Misty Moderate Misty										1		8.0		29.3					6.5						
Bottom	SR1A	Mistv	Moderate	08:47	5.0	Middle					_		_		-		-				2.1		4	819974	812661
SR2 Misty Moderate 08:39 5.2 Surface 1.0 0.1 205 21.2 21.2 7.9 7.9 29.8 86.8 86.9 6.5 6.5 1.3 4 4 81.4 SR2 Misty Moderate 08:39 5.2 Surface 1.0 0.0 226 21.2 21.2 7.9 7.9 29.8 86.8 86.9 6.5 6.5 6.5 1.3 4 4 81.4 Middle - 0.0 228 - 0.0 228 - 0.0 0.0 0.0 228 - 0.0 0.0		- 7																							
SR2 Misty Moderate 08:39 5.2 Middle 1.0 0.1 205 21.2 21.2 7.9 7.9 29.7 29.8 86.8 86.9 6.5 6.5 6.5 1.3 4 4 4 81720 SR3 Misty Moderate 08:39 5.2 Middle 2.0 0.1 192 20.9 20.9 20.9 20.9 20.9 20.9 20.9 20						Bottom					21.2		8.0		29.4		87.0		6.5						
SR2 Misty Moderate 08:39 5.2 Middle 1.0 0.0 206 21.2 21.2 7.9 7.9 29.8 86.9 86.9 6.5 6.5 1.3 4 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5 1.5																									
SR2 Misty Moderate 08:39 5.2 Middle - 0.0.0 228 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -						Surface					21.2		7.9		29.8		86.9								
SR2 Misty Moderate 08:39 5.2 Middle - 0.0.0 220 - 0.0.0 220 - 0.0.0 220 - 0.0.0 192 20.9																			6.5		_				
Bottom 4.2 0.1 192 20.9 20.9 7.8 7.8 30.6 30.6 89.6 90.1 6.7 6.8 1.7 2 2 3 3 3 4 4 4 5 2 4 5 4 5 5 5 5 5 5 5 5 5 5 5 5	SR2	Misty	Moderate	08:39	5.2	Middle				_	-				-		-				1.5		3	821444	814161
SR3 Cloudy Moderate 08:57 9.1 Middle 4.6 0.0 160 20.7 20.7 8.2 8.2 30.2 30.3 89.7 89.9 6.7 6.8 8.2 30.0 8.2 31.0 31.0 31.0 91.9 91.8 6.9 6.9 7.1 3 88.4 8.4 6.6 6.6 6.6 6.5 3 88.7 89.9 6.7 5.7 5.1 4 4 81720 80.9 80.1 80.1 31.1 20.6 80.1 31.1 20.6 80.1 31.1 20.6 80.1 31.1 20.6 80.1 31.1 20.6 80.1 31.1 20.6 80.1 31.1 31.3 31.3 88.4 88.4 6.6 6.6 6.5 3 3 80.4 80.4 6.6 6.6 6.5 3 3 80.4 80.4 80.4 6.6 6.6 6.5 3 3 80.4 80.4 80.4 80.4 80.4 80.4 80.4 80.4																					-				
SR3 Cloudy Moderate 08:57 9.1 Surface 1.0 0.0 156 20.9 20.9 8.1 8.1 8.1 26.2 26.2 88.8 88.8 6.8 6.8 6.8 6.8 6.8 6.8 6.8 6						Bottom					20.9		7.8		30.6		90.1		6.8		1				
SR3 Cloudy Moderate 08:57 9.1 Middle 4.6 0.0 167 20.7 20.7 20.7 8.2 8.2 30.2 30.3 30.3 89.7 89.9 6.7 6.8 4.9 4.7 4.8 3 82213 Bottom 8.1 0.1 142 20.7 8.2 8.2 8.2 31.0 31.0 31.0 91.9 91.8 6.9 6.9 7.2 4.7 4.8 3 82213 SR4A Cloudy Moderate 07:25 8.8 Middle 4.4 0.0 298 20.6 1.0 0.0 298 20.6 4.4 0.0 295 20.6 8.0 8.0 8.0 31.3 31.3 31.3 88.3 88.3 6.6 6.6 6.6 6.6 6.5 7.8 1.0 4.4 4.0 1.0 295 20.6 8.0 8.0 8.0 31.3 31.3 31.3 31.3 88.4 88.4 88.4 6.6 6.6 6.6 6.5 3.3 80.4 80.4 80.4 80.4 80.4 80.4 80.4 80.4					1									00							1				
SR3 Cloudy Moderate 08:57 9.1 Middle 4.6 0.0 167 20.7 20.7 8.2 8.2 8.2 30.2 30.3 30.3 89.7 89.9 6.7 6.8 4.9 4.7 4.7 3 8213 82213 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2 8.2						Surface					20.9		8.1		26.2	88.8	88.8				-				
SR3 Cloudy Moderate 08:57 9.1 Middle 4.6 0.0 160 20.7 20.7 8.2 8.2 30.3 30.3 90.0 89.9 6.8 5.2 4.7 3 8213 Bottom 8.1 0.1 142 20.7 20.7 8.2 8.2 8.2 31.0 31.0 31.0 91.7 91.8 6.9 6.9 6.9 7.2 4 3 SR4A Cloudy Moderate 07:25 8.8 Middle 4.4 0.0 299 20.7 20.7 8.0 8.0 8.0 29.9 29.9 90.3 90.3 6.8 6.8 6.7 5.7 5.7 5.7 5.7 5.1 4 4 81720 Bottom 7.8 0.1 311 20.6 8.0 8.0 31.3 31.3 31.3 88.3 88.3 6.6 6.6 6.6 6.6 6.6 6.6 6.6 6.6 6.6 6												9.2							6.8		-				
Bottom 8.1 0.1 142 20.7 20.7 8.2 8.2 31.0 31.0 31.0 91.7 91.8 6.9 6.9 7.2 7.1 3 Surface 1.0 0.0 299 20.7 20.7 8.0 8.0 8.0 29.9 29.9 90.3 90.3 6.8 6.8 6.7 5.7 5.1 4 4 81720 Moderate 07:25 8.8 Middle 4.4 0.0 295 20.6 8.0 8.0 8.0 31.3 31.3 31.3 88.3 88.3 6.6 6.6 6.6 6.6 6.6 6.6 6.6 6.6 6.6 6	SR3	Cloudy	Moderate	08:57	9.1	Middle					20.7		8.2		30.3		89.9				4.7		3	822134	807564
SR4A Cloudy Moderate 07:25 8.8 Surface 1.0 0.0 299 20.7 20.7 8.0 8.0 8.0 29.9 29.9 90.3 90.3 6.8 6.7 5.7 5.1 4 4 81720 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1 8.1						-						8.2									1				
SR4A Cloudy Moderate 07:25 8.8 Surface 1.0 0.0 306 20.7 20.7 8.0 8.0 8.0 29.9 29.9 90.3 90.3 6.8 6.8 6.7 5.7 5.1 4 4 81720 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.						Bottom					20.7		8.2		31.0		91.8		6.9		1				
SR4A Cloudy Moderate 07:25 8.8 Middle 4.4 0.0 299 20.7 20.6 8.0 8.0 29.9 29.9 90.3 6.8 6.7 5.7 5.1 4 4 81720 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.												9.0									1				
SR4A Cloudy Moderate 07:25 8.8 Middle 4.4 0.0 298 20.6 20.6 8.0 8.0 31.3 31.3 88.3 88.3 6.6 6.6 5.7 5.7 5.1 4 4 81720 8.8 80.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8						Surface					20.7		8.0		29.9		90.3				1				
SR4A Cloudy Moderate 07:25 8.8 Middle 4.4 0.0 295 20.6 20.6 8.0 31.3 31.3 88.3 88.3 6.6 5.7 5.1 4 4 61720 1.2 1.1 1.2						-						9.0							6.7		1				
Bottom 7.8 0.1 311 20.6 20.6 8.0 8.0 31.3 31.3 31.3 88.4 88.4 6.6 6.6 6.6 2 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	SR4A	Cloudy	Moderate	07:25	8.8	Middle					20.6		8.0		31.3		88.3				5.1		4	817208	807805
7.8 0.1 307 20.6 20.6 8.0 31.3 31.3 31.3 88.4 6.6 6.5 3												8.0									1				
Surface 1.0 21.1 21.1 7.9 7.9 26.7 26.7 90.6 90.4 6.9 1.1 3						Bottom					20.6		8.0		31.3		88.4		6.6		1				
	 				<u> </u>							7.0									1				
						Surface	1.0			21.1	21.1	7.9	7.9	26.8	26.7	90.2	90.4	6.9		1.1	1	4			
	05-									_									6.9		1				
SR8 Misty Moderate 09:07 5.6 Middle - - - - - - - - -	SR8	Misty	Moderate	09:07	5.6	Middle					-	-	-	-	-	-	-	-			1.3		4	820373	811629
Power 4.6 21.0 04.0 7.8 7.0 29.8 00.0 91.5 00.0 6.9 7.0 1.4 4		Wodord				B	4.6	-	-	21.0	04.0	7.8	7.0	29.8	00.0	91.5	00.0	6.9	7.0	1.4	1	4			
Bottom 4.6 21.0 21.0 7.8 29.7 92.6 0.9 7.0 1.4 5						Bottom					21.0		7.8		29.8		92.6		7.0		1				

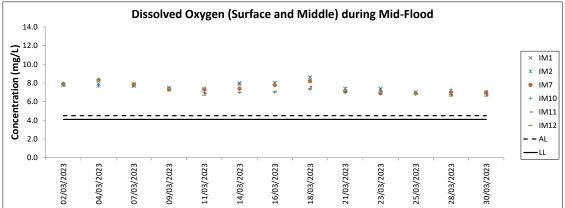
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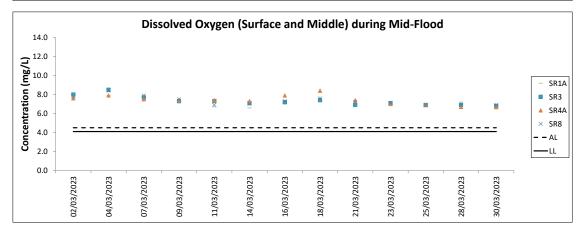


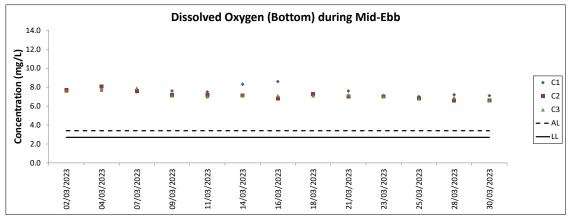


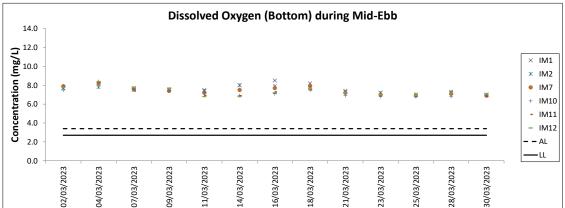


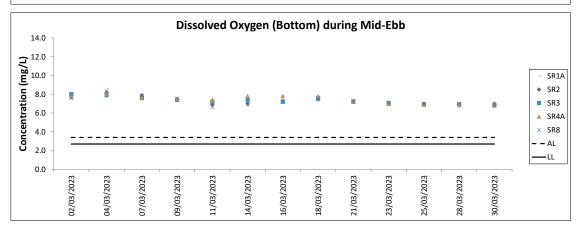


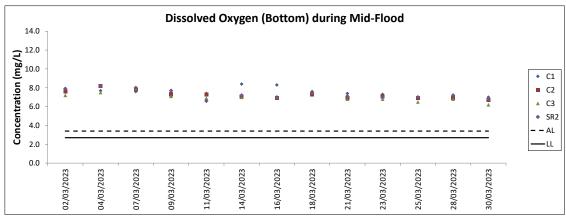


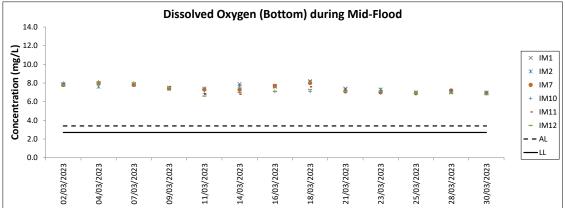


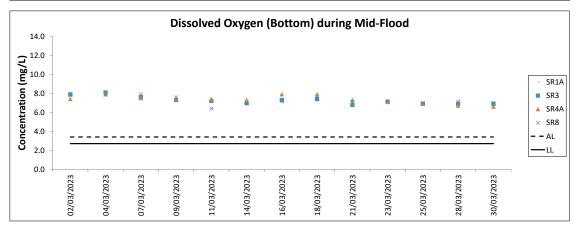


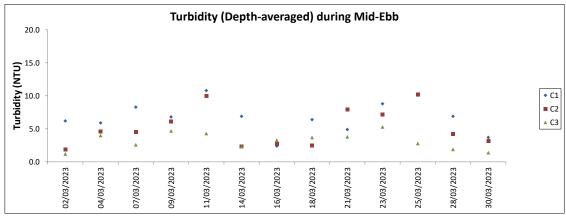


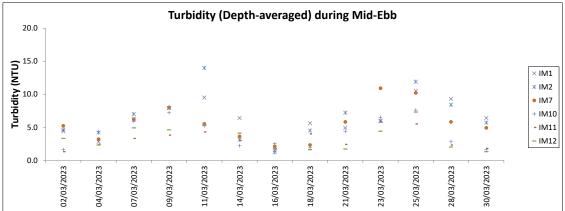


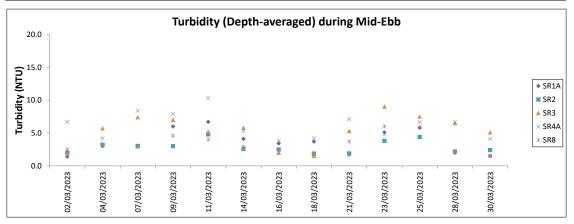


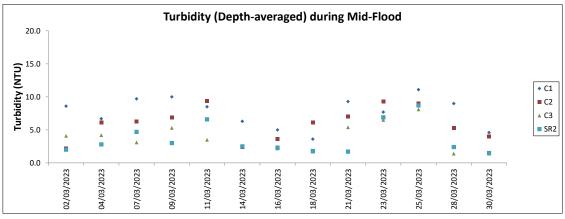


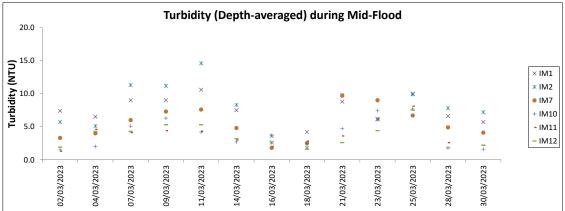


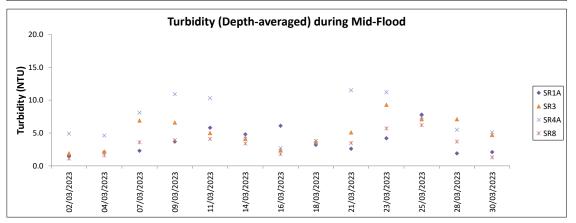


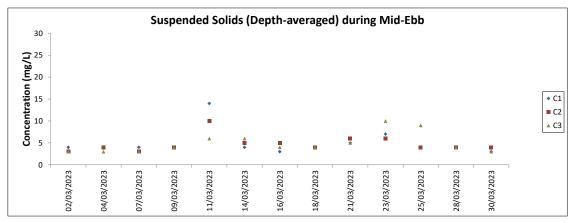


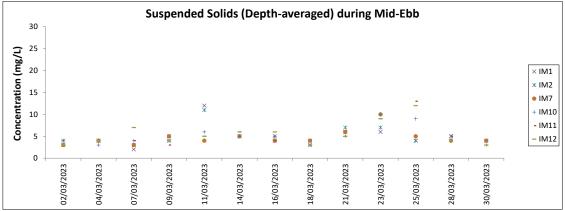


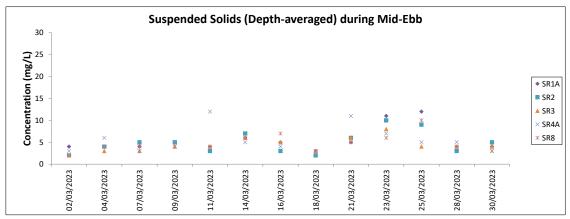


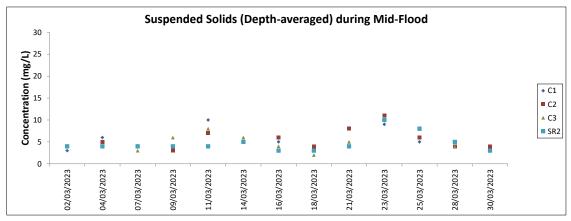


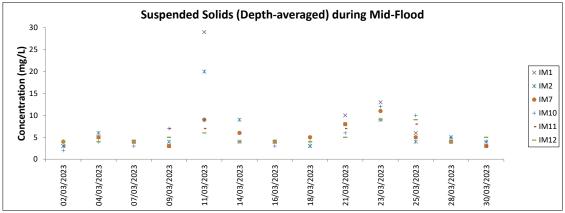


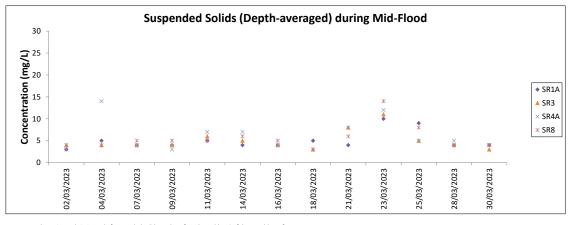












The Action and Limit Level of suspended solids can be referred to Table 4.2 of the monthly EM&A report. Major site activities carried out during the reporting period are summarized in Section 1.4 of the monthly EM&A report. Weather conditions during monitoring are presented in the data tables above. 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 Construction Phase Monthly EM&A Report No. 87 (For March 2023)
Chinese White Dolphin Monitoring Results

CWD Small Vessel Line-transect Survey

Survey Effort Data

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE	P/S
06-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
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

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE	P/S
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
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	P
22-Feb-23	WL	4	1.380	WINTER	32166	3RS ET	P
22-Feb-23	WL	3	7.158	WINTER	32166	3RS ET	S
22-Feb-23	WL	4	2.670	WINTER	32166	3RS ET	S
01-Mar-23	AW	2	4.970	SPRING	32166	3RS ET	P
01-Mar-23	WL	2	11.695	SPRING	32166	3RS ET	P
01-Mar-23	WL	2	6.491	SPRING	32166	3RS ET	S
02-Mar-23	AW	2	1.190	SPRING	32166	3RS ET	P
02-Mar-23	AW	3	3.880	SPRING	32166	3RS ET	P
02-Mar-23	WL	2	3.848	SPRING	32166	3RS ET	P
02-Mar-23	WL	3	15.030	SPRING	32166	3RS ET	P
	WL	4					Р
02-Mar-23 02-Mar-23	WL	2	1.200	SPRING	32166	3RS ET	S
02-Mar-23	WL	3	2.520 6.430	SPRING SPRING	32166 32166	3RS ET 3RS ET	S
				SPRING	1	3RS ET	S
02-Mar-23 03-Mar-23	WL NWL	2	1.030 41.440	SPRING	32166 32166	3RS ET	P
03-Mar-23	NWL	3	21.770	SPRING	32166	3RS ET	Р
03-Mar-23	NWL	2	11.390	SPRING	32166	3RS ET	S
05-Mar-23	NEL	2	5.820	SPRING		3RS ET	P
					32166		P
06-Mar-23 06-Mar-23	NEL NEL	2	31.280 3.950	SPRING SPRING	32166 32166	3RS ET 3RS ET	S
			+	1	+		S
06-Mar-23 07-Mar-23	NEL NWL	2	5.650 38.700	SPRING SPRING	32166 32166	3RS ET 3RS ET	P
	NWL		1				P
07-Mar-23		3	23.095	SPRING	32166	3RS ET	S
07-Mar-23	NWL	2	5.645	SPRING	32166	3RS ET	
07-Mar-23	NWL	3	4.860	SPRING	32166	3RS ET	S
09-Mar-23	SWL	2	53.106	SPRING	32166	3RS ET	P
09-Mar-23	SWL	2	15.716	SPRING	32166	3RS ET	S
10-Mar-23	SWL	2	6.340	SPRING	32166	3RS ET	Р
10-Mar-23	SWL	3	36.560	SPRING	32166	3RS ET	Р

DATE	AREA	BEAU	KM SEARCHED	SEASON	VESSEL	TYPE	P/S
10-Mar-23	SWL	4	10.900	SPRING	32166	3RS ET	Р
10-Mar-23	SWL	2	0.800	SPRING	32166	3RS ET	S
10-Mar-23	SWL	3	11.640	SPRING	32166	3RS ET	S
10-Mar-23	SWL	4	4.000	SPRING	32166	3RS ET	S
13-Mar-23	NEL	2	36.470	SPRING	32166	3RS ET	Р
13-Mar-23	NEL	2	10.830	SPRING	32166	3RS ET	S

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

CWD Small Vessel Line-transect Survey

Sighting Data

DATE	STG#	TIME	CWD/FP	GP SZ	AREA	BEAU	PSD	EFFORT	TYPE	DEC LAT	DEC LON	SEASON	BOAT ASSOC.	P/S
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
13-Jan-23	4	1327	FP	2	SWL	2	60	ON	3RS ET	22.1494	113.8887	WINTER	NONE	S
13-Jan-23	5	1516	CWD	2	SWL	2	56	ON	3RS ET	22.1940	113.8498	WINTER	NONE	Р
07-Feb-23	1	1109	FP	3	SWL	2	143	ON	3RS ET	22.1557	113.9258	WINTER	NONE	Р
07-Feb-23	2	1200	FP	3	SWL	2	76	ON	3RS ET	22.1520	113.9175	WINTER	NONE	Р
07-Feb-23	3	1209	FP	7	SWL	2	47	ON	3RS ET	22.1418	113.9107	WINTER	NONE	S
07-Feb-23	4	1232	FP	2	SWL	2	64	ON	3RS ET	22.1770	113.9058	WINTER	NONE	Р
07-Feb-23	5	1258	FP	6	SWL	2	39	ON	3RS ET	22.1976	113.8973	WINTER	NONE	Р
07-Feb-23	6	1307	FP	1	SWL	2	380	ON	3RS ET	22.1823	113.8972	WINTER	NONE	Р
13-Feb-23	1	1034	FP	1	SWL	2	14	ON	3RS ET	22.1841	113.9358	WINTER	NONE	Р
13-Feb-23	2	1036	FP	5	SWL	2	10	ON	3RS ET	22.1815	113.9359	WINTER	NONE	Р
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

DATE	STG#	TIME	CWD/FP	GP SZ	AREA	BEAU	PSD	EFFORT	TYPE	DEC LAT	DEC LON	SEASON	BOAT ASSOC.	P/S
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
01-Mar-23	1	1116	CWD	1	AW	2	384	ON	3RS ET	22.3020	113.8820	SPRING	NONE	Р
01-Mar-23	2	1202	CWD	7	WL	2	79	ON	3RS ET	22.2721	113.8461	SPRING	NONE	Р
01-Mar-23	3	1258	CWD	2	WL	2	852	ON	3RS ET	22.2537	113.8347	SPRING	NONE	S
01-Mar-23	4	1315	CWD	6	WL	2	569	ON	3RS ET	22.2422	113.8338	SPRING	NONE	Р
01-Mar-23	5	1343	CWD	7	WL	2	84	ON	3RS ET	22.2280	113.8379	SPRING	NONE	S
01-Mar-23	6	1420	CWD	7	WL	2	249	ON	3RS ET	22.2056	113.8281	SPRING	NONE	Р
01-Mar-23	7	1447	CWD	3	WL	2	345	ON	3RS ET	22.1962	113.8339	SPRING	NONE	Р
02-Mar-23	1	1039	CWD	6	WL	2	116	ON	3RS ET	22.2294	113.8379	SPRING	NONE	S
02-Mar-23	2	1051	CWD	14	WL	2	296	ON	3RS ET	22.2234	113.8338	SPRING	NONE	Р
02-Mar-23	3	1153	CWD	7	WL	3	156	ON	3RS ET	22.1960	113.8395	SPRING	NONE	Р
03-Mar-23	1	1050	CWD	5	NWL	3	167	ON	3RS ET	22.2804	113.8782	SPRING	NONE	Р
07-Mar-23	1	1034	CWD	1	NWL	3	597	ON	3RS ET	22.2792	113.8700	SPRING	NONE	Р
07-Mar-23	2	1140	CWD	1	NWL	2	122	ON	3RS ET	22.4001	113.8778	SPRING	NONE	Р
09-Mar-23	1	1036	CWD	1	SWL	2	701	ON	3RS ET	22.2231	113.9365	SPRING	NONE	Р
09-Mar-23	2	1112	FP	1	SWL	2	138	ON	3RS ET	22.1655	113.9358	SPRING	NONE	Р
09-Mar-23	3	1116	FP	1	SWL	2	21	ON	3RS ET	22.1619	113.9356	SPRING	NONE	Р
09-Mar-23	4	1121	FP	1	SWL	2	8	ON	3RS ET	22.1544	113.9359	SPRING	NONE	Р
09-Mar-23	5	1124	FP	1	SWL	2	6	ON	3RS ET	22.1526	113.9363	SPRING	NONE	Р
09-Mar-23	6	1232	FP	2	SWL	2	252	ON	3RS ET	22.1416	113.9120	SPRING	NONE	S
09-Mar-23	7	1259	FP	1	SWL	2	122	ON	3RS ET	22.1798	113.9040	SPRING	NONE	S
09-Mar-23	8	1345	FP	1	SWL	2	74	ON	3RS ET	22.1521	113.8976	SPRING	NONE	Р
09-Mar-23	9	1513	CWD	5	SWL	2	389	ON	3RS ET	22.1930	113.8593	SPRING	NONE	Р

DATE	STG#	TIME	CWD/FP	GP SZ	AREA	BEAU	PSD	EFFORT	TYPE	DEC LAT	DEC LON	SEASON	BOAT ASSOC.	P/S
10-Mar-23	1	1416	FP	2	SWL	2	29	ON	3RS ET	22.1643	113.8681	SPRING	NONE	Р
10-Mar-23	2	1438	CWD	2	SWL	3	211	ON	3RS ET	22.1951	113.8583	SPRING	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 421.116 km of survey effort was collected under Beaufort Sea State 3 or below with favourable visibility; total no. of 16 on-effort sightings and total number of 75 dolphins from on-effort sightings were collected under such condition. Calculation of the encounter rates in March 2023 are shown as below:

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

$$STG = \frac{16}{421116} \times 100 = 3.80$$

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

$$ANI = \frac{75}{421.116} \times 100 = 17.81$$

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

A total of 1303.915 km of survey effort was collected under Beaufort Sea State 3 or below with favourable visibility; total no. of 43 on-effort sightings and total number of 166 dolphins from on-effort sightings were collected under such condition. Calculation of the running quarterly encounter rates are shown as below:

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

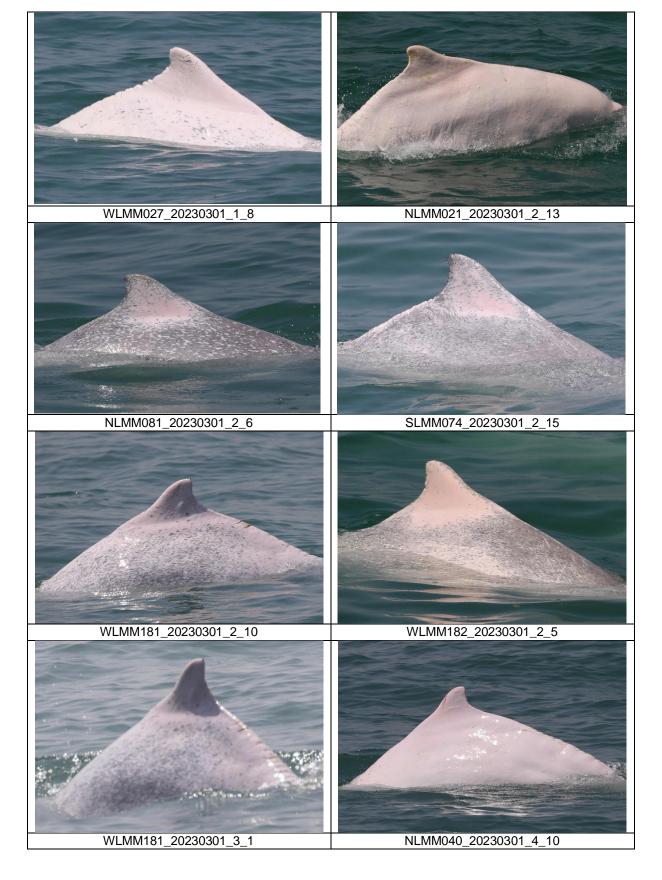
$$STG = \frac{43}{1303.915} \times 100 = 3.30$$

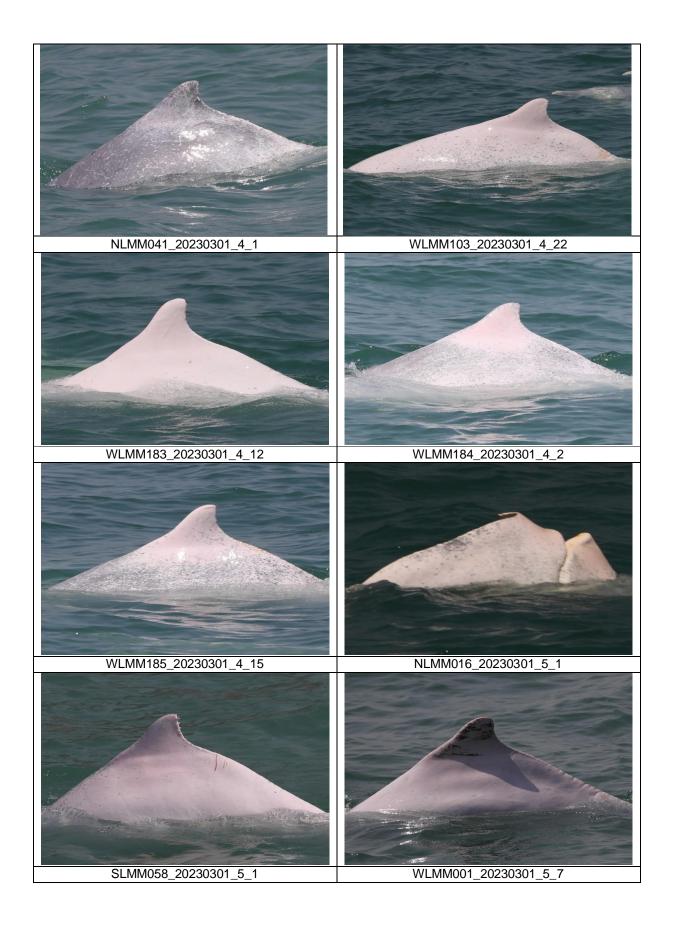
Running Quarterly Encounter Rate by Number of Dolphins (ANI)

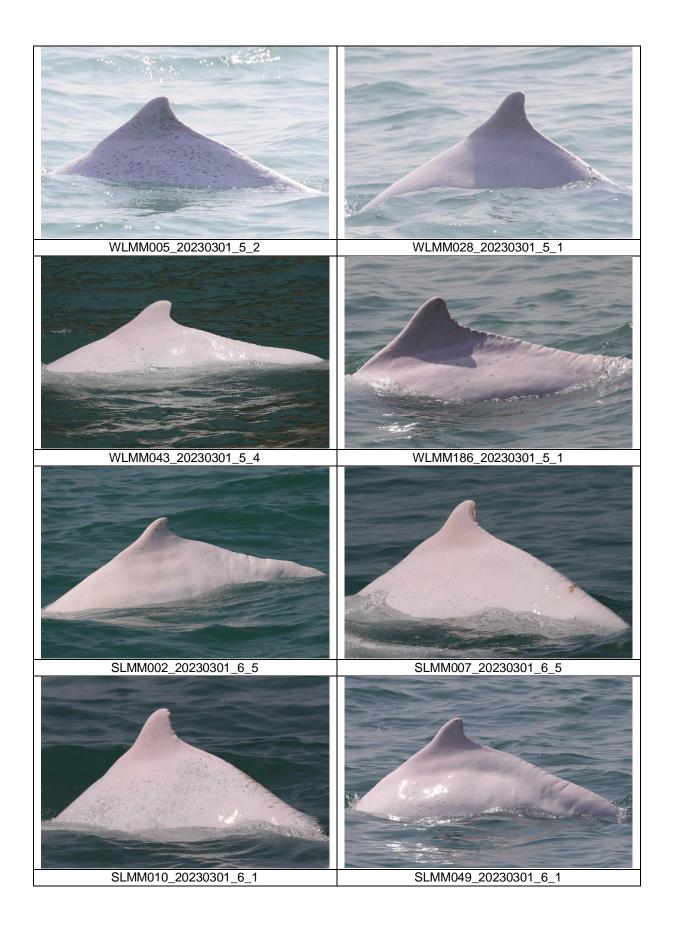
$$ANI = \frac{166}{1303.915} \times 100 = 12.73$$

CWD Small Vessel Line-transect Survey

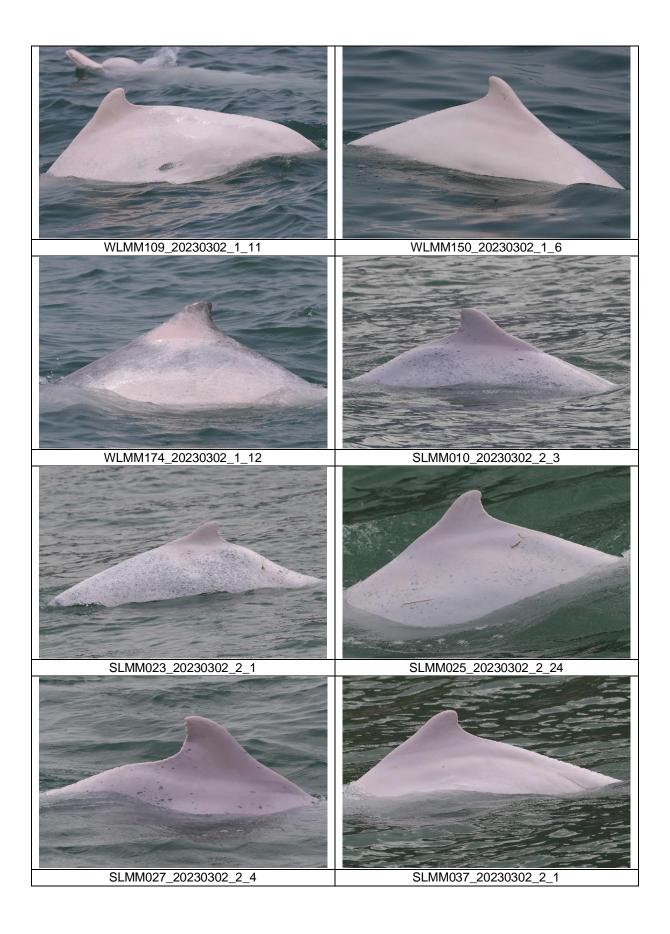
Photo Identification





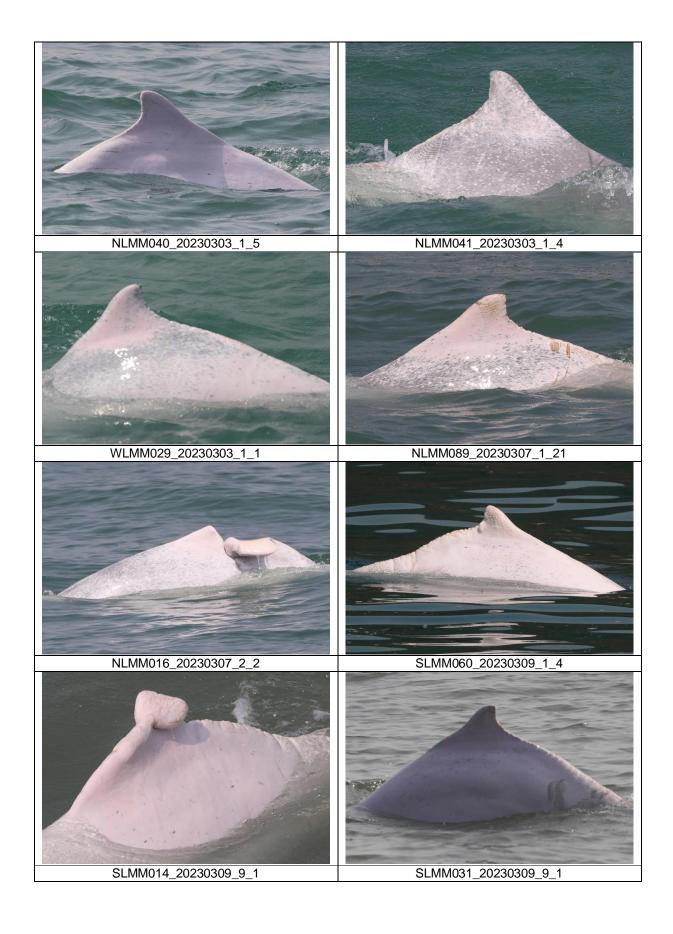


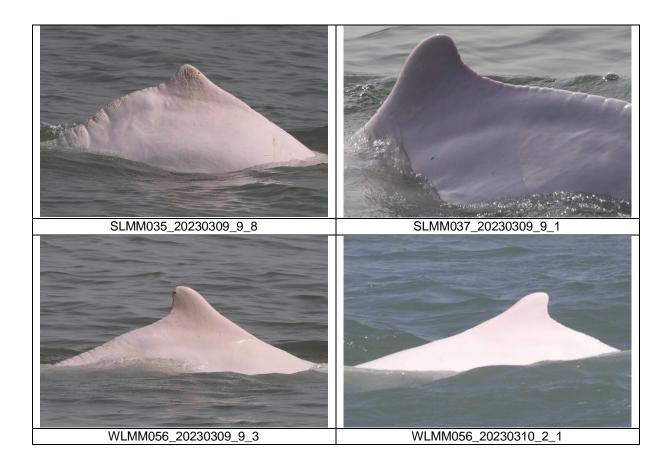












CWD Land-based Theodolite Tracking Survey

CWD Groups by Survey Date

Date	Station	Start Time	End Time	Duration	Beaufort Range	Visibility	No. of Focal Follow Dolphin Groups Tracked	Dolphin Group Size Range
3/Mar/23	Lung Kwu Chau	9:23	15:23	6:00	2-3	2	0	NA
24/Mar/23	Sha Chau	10:38	16:38	6:00	2	1	0	NA

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

Appendix D. Calibration Certificates



Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration

校正證書

Certificate No.:

C231552

證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號: IC23-0488)

Date of Receipt / 收件日期: 3 March 2023

Description / 儀器名稱

Acoustic Calibrator

Manufacturer / 製造商

Castle

Model No./型號

GA607

Serial No./編號

040162

Supplied By / 委託者

Mott MacDonald Hong Kong Limited

3/F., Manulife Place, 348 Kwun Tong Road, Kwun Tong,

Kowloon, Hong Kong

TEST CONDITIONS / 測試條件

Temperature / 溫度 :

 $(23 \pm 2)^{\circ}$ C

Relative Humidity / 相對濕度 :

 $(50 \pm 25)\%$

Line Voltage / 電壓

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期

19 March 2023

TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only.

The results do not exceed specified limits.

These limits refer to manufacturer's published tolerances as requested by the customer.

The results are detailed in the subsequent page(s).

The test equipment used for calibration are traceable to National Standards via:

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- Agilent Technologies / Keysight Technologies
- Fluke Everett Service Center, USA

Tested By 測試

HT Wong Assistant Engineer

Certified By

核證

K C/Lee Engineer Date of Issue

20 March 2023

簽發日期

The test equipment used for calibration is traceable to the National Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory 本證書所載校正用之測試器材均可瀏源至國際標準。 局部複印本證書需先獲本實驗所書面批准。

Sun Creation Engineering Limited - Calibration & Testing Laboratory c/o 4/F, 1 Hing On Lane, Tuen Mun, New Territories, Hong Kong 輝創工程有限公司 - 校正及檢測實驗所 c/o 香港新界屯門與安里一號四樓



Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No.:

證書編號

C231552

The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours before the commencement of the test.

The results presented are the mean of 3 measurements at each calibration point. 2.

3. Test equipment:

> Equipment ID CL130

CL281 TST150A **Description**

Universal Counter

Multifunction Acoustic Calibrator Measuring Amplifier

Certificate No.

C223647 AV210017 C221750

Test procedure: MA100N. 4.

5. Results:

Sound Level Accuracy

Sou	iid Level Acculacy			
	UUT	Measured Value	Mfr's Limit	Uncertainty of Measured Value
	Nominal Value	(dB)	(dB)	(dB)
	94 dB, 1 kHz	94.1	± 0.3	± 0.2
	104 dB, 1 kHz	104.1		± 0.3

Frequency Accuracy 5.2

UUT Nominal Value	Measured Value	Mfr's	Uncertainty of Measured Value
(kHz)	(kHz)	Limit	(Hz)
1	1.000	1 kHz ± 1 %	± !

Remark: The uncertainties are for a confidence probability of not less than 95 %.

Only the original copy or the laboratory's certified true copy is valid.

The values given in this Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environment changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Sun Creation Engineering Limited shall not be liable for any loss or damage resulting from the use of the equipment.

The test equipment used for calibration is traceable to the National Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory

本證書所載校正用之測試器材均可瀏源至國際標準。局部複印本證書需先獲本實驗所書面批准。



Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration

校正證書

Certificate No.:

C231553

證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號: IC23-0488)

Date of Receipt / 收件日期: 3 March 2023

Description / 儀器名稱

Sound Level Meter

Manufacturer / 製造商

Rion

Model No./型號

NL-52 00998505

Serial No. / 編號 Supplied By / 委託者

Mott MacDonald Hong Kong Limited

3/F., Manulife Place, 348 Kwun Tong Road, Kwun Tong,

Kowloon, Hong Kong

TEST CONDITIONS / 測試條件

Temperature / 溫度 :

Relative Humidity / 相對濕度 :

Line Voltage / 電壓

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期

19 March 2023

TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only.

The results do not exceed specified limits.

These limits refer to manufacturer's published tolerances as requested by the customer.

The results are detailed in the subsequent page(s).

The test equipment used for calibration are traceable to National Standards via:

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- Agilent Technologies / Keysight Technologies
- Fluke Everett Service Center, USA

Tested By

測試

Assistant Engineer

Certified By

核證

K C/Lee

Date of Issue

20 March 2023

簽發日期 Engineer

The test equipment used for calibration is traceable to the National Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory

本證書所載校正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本實驗所書面批准。



Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration

校正證書

Certificate No.: C231553

證書編號

The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours, and switched on to 1. warm up for over 10 minutes before the commencement of the test.

Self-calibration was performed before the test. 2.

3. The results presented are the mean of 3 measurements at each calibration point.

4. Test equipment:

Equipment ID

Description

Certificate No.

CL280

40 MHz Arbitrary Waveform Generator

C230306

CL281

Multifunction Acoustic Calibrator

AV210017

5. Test procedure: MA101N.

6. Results:

6.1 Sound Pressure Level

Reference Sound Pressure Level 6.1.1

	UUT Setting				d Value	UUT	IEC 61672
Range	Function	Frequency	Time	Level	Freq.	Reading	Class 1 Limit
(dB)		Weighting	Weighting	(dB)	(kHz)	(dB)	(dB)
30 - 130	L_{A}	Α	Fast	94.00	1	94.0	± 1.1

6.1.2 Linearity

	UUT Setting				d Value	UUT
Range (dB)	Function	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	Reading (dB)
30 - 130	L_{λ}	A	Fast	94.00	1	94.0 (Ref.)
-				104.00		104.0
				114.00		114.0

IEC 61672 Class 1 Limit: ± 0.6 dB per 10 dB step and ± 1.1 dB for overall different.

6.2 Time Weighting

	UUT Setting				Applied Value		IEC 61672
Range	Function	Frequency	Time	Level	Freq.	Reading	Class 1 Limit
(dB)		Weighting	Weighting	(dB)	(kHz)	(dB)	(dB)
30 - 130	L_{Λ}	A	Fast	94.00	1	94.0	Ref.
			Slow			94.0	± 0.3

The test equipment used for calibration is traccable to the National Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory

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Sun Creation Engineering Limited - Calibration & Testing Laboratory c/o 4/F, I Hing On Lane, Tuen Mun, New Territories, Hong Kong 輝創工程有限公司 - 校正及檢測實驗所



Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No.:

C231553

證書編號

6.3 Frequency Weighting

6.3.1 A-Weighting

A- weighting	UUT Setting			Applied Value		UUT	IEC 61672
Range	Function	Frequency	Time	Level	Freq.	Reading	Class 1 Limit (dB)
(dB)		Weighting	Weighting	(dB)		(dB)	``````
30 - 130	L_A	A	Fast	94.00	63 Hz	67.7	-26.2 ± 1.5
					125 Hz	77.8	-16.1 ± 1.5
					250 Hz	85.3	-8.6 ± 1.4
					500 Hz	90.8	-3.2 ± 1.4
					1 kHz	94.0	Ref.
					2 kHz	95.3	$+1.2 \pm 1.6$
		STATE AND ADDRESS OF THE ADDRESS OF			4 kHz	95.1	$\pm 1.0 \pm 1.6$
		AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA			8 kHz	93.0	-1.1 (+2.1; -3.1)
		44444			16 kHz	86.1	-6.6 (+3.5 ; -17.0)

6.3.2 C-Weighting

, weighting		Setting		Appli	ed Value	UUT	IEC 61672
Range	Function	Frequency	Time	Level	Freq.	Reading	Class 1 Limit
(dB)		Weighting	Weighting	(dB)		(dB)	(dB)
30 - 130	$L_{\rm C}$	C	Fast	94.00	63 Hz	93.2	-0.8 ± 1.5
	_	•			125 Hz	93.9	-0.2 ± 1.5
					250 Hz	94.0	0.0 ± 1.4
					500 Hz	94.1	0.0 ± 1.4
					1 kHz	94.0	Ref.
					2 kHz	93.9	-0.2 ± 1.6
					4 kHz	93.2	-0.8 ± 1.6
					8 kHz	91.1	-3.0 (+2.1; -3.1)
			:		16 kHz	84.2	-8.5 (+3.5; -17.0)

本證書所載技正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本實驗所書面批准。

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Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No.:

C231553

證書編號

Remarks: - UUT Microphone Model No.: UC-59 & S/N: 16104

- Mfr's Limit: IEC 61672 Class 1

94 dB : 63 Hz - 125 Hz $: \pm 0.35 \text{ dB}$ - Uncertainties of Applied Value:

> 250 Hz - 500 Hz : ± 0.30 dB $: \pm 0.20 \text{ dB}$ 1 kHz 2 kHz - 4 kHz $: \pm 0.35 \text{ dB}$ 8 kHz $; \pm 0.45 \text{ dB}$

 $: \pm 0.70 \text{ dB}$ 16 kHz

 $\pm 0.10 \text{ dB (Ref. 94 dB)}$ 104 dB: 1 kHz : ± 0.10 dB (Ref. 94 dB) 114 dB: 1 kHz

Note:

Only the original copy or the laboratory's certified true copy is valid.

The values given in this Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environment changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Sun Creation Engineering Limited shall not be liable for any loss or damage resulting from the use of the equipment.

The test equipment used for calibration is traceable to the National Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

本證書所載校正用之測試器材均可溯源至國際標準。 局部複印本證書需先獀本實驗所書面批准。

⁻ The uncertainties are for a confidence probability of not less than 95 %.



專業化驗有限公司 QUALITY PRO TEST-CONSULT LIMITED

Unit 10, 5/F, Wah Wai Centre, 38-40 Au Pui Wan St., Fotan, Hong Kong Email: info@qualityprotest.com; Website: www.qualityprotest.com Tel: (852) 3956 8717; Fax: (852) 3956 3928

REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No.

: R-BC030056

Date of Issue

: 20 March 2023

Page No.

: 1 of 2

PART A - CUSTOMER INFORMATION

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

PART B - SAMPLE INFORMATION

Name of Equipment:

YSI ProDSS (Multi-Parameters)

Manufacturer:

YSI (a xylem brand)

Serial Number:

S/N: 15M100005

Date of Received:

17 March 2023

Date of Calibration:

17 March 2023

Date of Next Calibration:

16 June 2023

Request No.:

D-BC030056

PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

Test Parameter

Reference Method

pH value

APHA 21e 4500 H+

Temperature

Section 6 of international Accreditation New Zealand Technical Guide no. 3 Second edition March

2008: Working Thermometer Calibration Procedure

Salinity

APHA 21e 2520 B

Dissolved oxygen

APHA 21e 4500 O

Turbidity

APHA 21e 2130 B

Conductivity

APHA 21e 2510 B

PART D - CALIBRATION RESULT

(1) pH value

Target (pH unit)	Display Reading (pH unit)	Tolerance	Result
4.00	4.02	0.02	Satisfactory
7.42	7.46	0.04	Satisfactory
10.01	10.16	0.15	Satisfactory

Tolerance of pH value should be less than $\pm~0.2$ (pH unit)

(2) Temperature

Reading of Ref. thermometer (°C)	Display Reading (°C)	Tolerance	Result
15	15.0	. 0.0	Satisfactory
30	30.0	0.0	Satisfactory
40	39.8	-0.2	Satisfactory

Tolerance of Temperature should be less than $\pm~2.0$ ($^{\circ}C$)

(3) Salinity

Expected Reading (g/L)	Display Reading (g/L)	Tolerance (%)	Result
10	10.09	0.90	Satisfactory
20	20.53	2.65	Satisfactory
30	30.46	1.53	Satisfactory

Tolerance of Salinity should be less than $\pm~10.0$ (%)

--- CONTINUED ON NEXT PAGE ---

AUTHORIZED SIGNATORY:

LEE Chun ning
Assistant Manager (Chemical Testing)



專業化驗有限公司 QUALITY PRO TEST-CONSULT LIMITED

Unit 10, 5/F, Wah Wai Centre, 38-40 Au Pui Wan St., Fotan, Hong Kong Email: info@qualityprotest.com; Website: www.qualityprotest.com Tel: (852) 3956 8717; Fax: (852) 3956 3928

REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No.

: R-BC030056

Date of Issue

: 20 March 2023

Page No.

: 2 of 2

(4) Dissolved oxygen

Expected Reading (mg/L)	Display Reading (mg/L)	Tolerance	Result
8.17	8.33	0.16	Satisfactory
5.28	5.21	-0.07	Satisfactory
1.86	1.58	-0.28	Satisfactory
0.30	0.39	0.09	Satisfactory

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

(5) Turbidity

Expected Reading (NTU)	Display Reading (NTU)	Tolerance (%)	Result
0	0.10		Satisfactory
10	9.88	-1.2	Satisfactory
20	19.72	-1.4	Satisfactory
100	97.36	-2.6	Satisfactory
800	789.53	-1.3	Satisfactory

Tolerance of Turbidity should be less than \pm 10.0 (%)

(6) Conductivity

Expected Reading (μS/cm at 25°C)	Display Reading	Tolerance (%)	Result
146.9	151.3	3.00	Satisfactory
. 1412	1366	-3.26	Satisfactory
12890	12852	-0.29	Satisfactory
58670	60593	3.28	Satisfactory
111900	111742	-0.14	Satisfactory

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

Remark(s)

- 'The "Date of Next Calibration" is recommended according to best practice principals as practiced by QPT or quoted form relevant international standards.
- 'The results relate only to the calibrated equipment as received
- The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.
- "Displayed Reading" denotes the figure shown on item under calibration/ checking regardless of equipment precision or significant figures.
- 'The "Tolerance Limit" mentioned is the acceptance criteria applicable for similar equipment used by Quality Pro Test-Consult Ltd. or quoted form relevant international standards.

--- END OF REPORT ---



專業化驗有限公司 OUALITY PRO TEST-CONSULT LIMITED

Unit 10, 5/F, Wah Wai Centre, 38-40 Au Pui Wan St., Fotan, Hong Kong Email: info@qualityprotest.com; Website: www.qualityprotest.com Tel: (852) 3956 8717; Fax: (852) 3956 3928

REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No.

: R-BC030055

Date of Issue

: 20 March 2023

Page No.

: 1 of 2

PART A - CUSTOMER INFORMATION

Enovative Environmental Service Ltd.

Flat 2207, Yu Fun House Yu Chui Court, Shatin

New Territories (HK) Hong Kong

PART B - SAMPLE INFORMATION

Name of Equipment:

YSI ProDSS (Multi-Parameters)

Manufacturer:

YSI (a xylem brand)

Serial Number:

S/N: 21G105356

Date of Received:

17 March 2023

Date of Calibration:

17 March 2023

Date of Next Calibration:

16 June 2023

Request No.:

D-BC030055

PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

Test Parameter

Reference Method

pH value

APHA 21e 4500 H+

Temperature

Section 6 of international Accreditation New Zealand Technical Guide no. 3 Second edition March

2008: Working Thermometer Calibration Procedure

Salinity

APHA 21e 2520 B

Dissolved oxygen

APHA 21e 4500 O APHA 21e 2130 B

Turbidity Conductivity

APHA 21e 2510 B

PART D - CALIBRATION RESULT

(1) pH value

Target (pH unit)	Display Reading (pH unit)	Tolerance	Result
4.00	4.04	0.04	Satisfactory
7.42	7.46	0.04	Satisfactory
10.01	10.14	0.13	Satisfactory

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

(2) Temperature

Reading of Ref. thermometer (°C)	Display Reading (°C)	Tolerance	Result
15	15.0	0.0	Satisfactory
30	30.0	0.0	Satisfactory
40	39.9	-0.1	Satisfactory

Tolerance of Temperature should be less than $\pm\,2.0$ (°C)

(3) Salinity

Expected Reading (g/L)	Display Reading (g/L)	Tolerance (%)	Result
10	10.10	1.00	Satisfactory
20	19.82	-0.90	Satisfactory
30	30.55	1.83	Satisfactory

Tolerance of Salinity should be less than \pm 10.0 (%)

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AUTHORIZED SIGNATORY:

LEE Chun-ning
Assistant Manager (Chemical Testing)



REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No.

: R-BC030055

Date of Issue

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(4) Dissolved oxygen

Expected Reading (mg/L)	Display Reading (mg/L)	Tolerance	Result
8.17	8.31	0.14	Satisfactory
5.28	5.29	0.01	Satisfactory
1.86	1.56	-0.30	Satisfactory
0.30	0.39	0.09	Satisfactory

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

(5) Turbidity

Expected Reading (NTU)	Display Reading (NTU)	Tolerance (%)	Result
0	0.10		Satisfactory
10	9.86	-1.4	Satisfactory
	19.73	-1.4	Satisfactory
100	98.87	-1.1	Satisfactory
800	790.41	-1.2	Satisfactory

Tolerance of Turbidity should be less than \pm 10.0 (%)

(6) Conductivity

Expected Reading (μS/cm at 25°C)	Display Reading	Tolerance (%)	Result
146.9	148.7	1.23	Satisfactory
1412	1511	7.01	Satisfactory
12890	12994	0.81	Satisfactory
58670	60395	2.94	Satisfactory
111900	111890	-0.01	Satisfactory

Tolerance of Conductivity should be less than \pm 10.0 (%)

Remark(s)

- 'The "Date of Next Calibration" is recommended according to best practice principals as practiced by QPT or quoted form relevant international standards.
- ·The results relate only to the calibrated equipment as received
- •The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.
- "Displayed Reading" denotes the figure shown on item under calibration/ checking regardless of equipment precision or significant figures.
- 'The "Tolerance Limit" mentioned is the acceptance criteria applicable for similar equipment used by Quality Pro Test-Consult Ltd. or quoted form relevant international standards.

--- END OF REPORT ---



專業化驗有限公司 OUALITY PRO TEST-CONSULT LIMITED

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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

Test Report No.

: R-BC020017

Date of Issue

: 06 February 2023

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PART A - CUSTOMER INFORMATION

Enovative Environmental Service Ltd.

Flat 2207, Yu Fun House Yu Chui Court, Shatin

New Territories (HK) Hong Kong

PART B - SAMPLE INFORMATION

Name of Equipment:

YSI ProDSS (Multi-Parameters)

Manufacturer:

YSI (a xylem brand)

Serial Number:

16H104234

Date of Received :

03 February 2023

Date of Calibration:

03 February 2023

Date of Next Calibration: Request No.:

02 May 2023 D-BC020017

PART C - REFERENCE METHODS/ DOCUMENTS FOR THE CALIBRATION

Test Parameter

Reference Method

pH value

APHA 21e 4500 H+

Temperature

Section 6 of international Accreditation New Zealand Technical Guide no. 3 Second edition March

2008: Working Thermometer Calibration Procedure

Salinity

APHA 21e 2520 B

Dissolved oxygen

APHA 21e 4500 O APHA 21e 2130 B

Turbidity Conductivity

APHA 21e 2510 B

PART D - CALIBRATION RESULT

(1) pH value

Target (pH unit)	Display Reading (pH unit)	Tolerance	Result
4.00	3.92	-0.08	Satisfactory
7.42	7.38	-0.04	Satisfactory
10.01	9.94	-0.07	Satisfactory

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

(2) Temperature

Reading of Ref. thermometer (°C)	Display Reading (°C)	Tolerance	Result
40	40.0	0.0	Satisfactory
30	30.0	0.0	Satisfactory
20	20.0	0.0	Satisfactory

Tolerance of Temperature should be less than $\pm~2.0$ ($^{\circ}C$)

(3) Salinity

Expected Reading (g/L)	Display Reading (g/L)	Tolerance (%)	Result
10	9.92	-0.80	Satisfactory
20	20.40	2.00	Satisfactory
30	29.79	-0.70	Satisfactory

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

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AUTHORIZED SIGNATORY:

LEE Chun-ning
Assistant Manager (Chemical Testing)



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REPORT OF EQUIPMENT PERFORMANCE CHECK/ CALIBRATION

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(4) Dissolved oxygen

Expected Reading (mg/L)	Display Reading (mg/L)	Tolerance	Result
8.34	8.50	0.16	Satisfactory
6.70	6.62	-0.08	Satisfactory
3.41	3.22	-0.19	Satisfactory
0.11	0.50	0.39	Satisfactory

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

(5) Turbidity

Expected Reading (NTU)	Display Reading (NTU)	Tolerance (%)	Result
0	0.05		Satisfactory
10	9.90	-1.0	Satisfactory
20	19.36	-3.2	Satisfactory
100	96.52	-3.5	Satisfactory
800	795.37	-0.6	Satisfactory

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

(6) Conductivity

Expected Reading (μS/cm at 25°C)	Display Reading	Tolerance (%)	Result
146.9	150	2.11	Satisfactory
1412	1477	4.60	Satisfactory
12890	13582	5.37	Satisfactory
58670	59121	0.77	Satisfactory
111900	114082	1.95	Satisfactory

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

Remark(s)

- 'The "Date of Next Calibration" is recommended according to best practice principals as practiced by QPT or quoted form relevant international standards.
- ·The results relate only to the calibrated equipment as received
- 'The performance of the equipment stated is checked with independent reference material and results compared against a calibrated secondary source.
- "Displayed Reading" denotes the figure shown on item under calibration/ checking regardless of equipment precision or significant figures.
- 'The "Tolerance Limit" mentioned is the acceptance criteria applicable for similar equipment used by Quality Pro Test-Consult Ltd. or quoted form relevant international standards.

--- END OF REPORT ---

Appendix E. Status of Environmental Permits and Licenses

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

Contract No.	Description	Location	Permit/ Reference No.	Status
3206	Notification of Construction Work under APCO	Works area of 3206	470044	Receipt acknowledged by EPD on 29 Jul 2021
	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	490404	Receipt acknowledged by EPD on 10 Mar 2023
	Work under APCO	Staging area of 3302	490407	Receipt acknowledged by EPD on 10 Mar 2023
			490408	Receipt acknowledged by EPD on 10 Mar 2023
			490409	Receipt acknowledged by EPD on 10 Mar 2023
	Registration as Chemical Waste Producer	Works area of 3302	5296-951- C4331-01	Completion of Registration on 4 Jan 2019
	Discharge License under	Works area of 3302	WT00034539- 2019	Valid from 11 Mar 2020 to 31 Mar 2025
	WPCO	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 Oc 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	489966	Receipt acknowledged by EPD on 28 Feb 2023
	Registration as Chemical Waste Producer	Works area of 3307	5211-951- P3379-01	Completion of Registration on 8 Jun 2020
	Bill Account for disposal	Works area of 3307	A/C 7037129	Approval granted from EPD on 5 May 2020
	Construction Noise Permit (General Works)	Works area of 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 Producer	Works area of 3310	5213-951- C4682-01	Completion of Registration on 21 Dec 2021
		Works area of 3310	5213-000- C3317-27	Completion of Registration on 31 Aug 2022
	Discharge License under WPCO	Works area of 3310	WT00039654- 2021	Valid from 31 Dec 2021 to 31 Dec 2026
	Bill Account for disposal	Works area of 3310	A/C 7042793	Approval granted from EPD on 4 Jar 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 Oc 2022
	Work under APCO	Works area of 3403 (with Area 17 and Area 15)	475369	Receipt acknowledged by EPD on 28 Dec 2021
	Registration as Chemical Waste Producer	Works area of 3403	WPN 5213-951- S4218-01	Completion of Registration on 9 Jan 2020

		Works area of 3508	WT00037209- 2020	Valid from 28 Jan 2022 to 31 Mar 2026
	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 (Area J)	467132	Receipt acknowledged by EPD on 3 May 2021
	Work under APCO		459469	Receipt acknowledged by EPD on 4 Sep 2020
3508	Notification of Construction	Works area of 3508	459017	Receipt acknowledged by EPD on 19 Aug 2020
	Construction Noise Permit (Special Case)	Works area of 3408	GW-RS0221-23	Valid from 16 Mar 2023 to 13 Sep 2023
	Construction Noise Permit (General Works)	Works area of 3408	GW-RS0107-23	Valid from 16 Feb 2023 to 31 Jul 2023
	Bill Account for disposal	Works area of 3408	A/C 7039063	Approval granted from EPD on 2 Dec 2020
	Discharge License under WPCO	Works area of 3408	WT00038836- 2021	Valid from 27 Sep 2021 to 30 Sep 2026
	Registration as Chemical Waste Producer	Works area of 3408	WPN 5218-951- B2621-01	Completion of Registration on 16 Ju 2021
3406	Construction Work under APCO	3408	401936	Nov 2020
3408	Notification of	Works area of 3405 Works area of	GW-RS0154-23 461958	Valid from 2 Mar 2023 to 27 Aug 2023 Receipt acknowledged by EPD on 17
	Construction Noise Permit (General Works)	Works area of	GW-RS0788-22	Valid from 24 Sep 2022 to 19 Mar 2023
	Bill Account for disposal	Works area of 3405	A/C 7036796	Approval granted from EPD on 20 Ma 2020
	Discharge License under WPCO	Works area of 3405	WT00037084- 2020	Valid from 17 Mar 2021 to 31 Mar 2026
	Registration as Chemical Waste Producer	Works area of 3405	WPN 5218-951- C4431-01	Completion of Registration on 12 Ma 2020
3405	Notification of Construction Work under APCO	Works area of 3405	484926	Receipt acknowledged by EPD on 30 Sep 2022
3404	Bill Account for disposal	Works area of 3404	A/C 7035158	Approval granted from EPD on 12 Sep 2019
	Construction Noise Permit (Special Case)	Works area of 3403	GW-RS0137-23	Valid from 1 Mar 2023 to 31 May 2023
	Construction Noise Permit (General Works)	Works area of 3403	GW-RS0136-23	Valid from 1 Mar 2023 to 31 Aug 2023
	Bill Account for disposal	Works area of 3403	A/C 7035267	Approval granted from EPD on 30 Sep 2019
	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
Contract No.	Description	Location	Permit/ Reference No.	Status

	Producer	Test Loop Site of 3603	8334-512- S4273-01	Completion of Registration on 17 Sep 2020
	Registration as Chemical Waste	Site office of 3603	5296-951- S4069-01	Completion of Registration on 22 Jar 2018
3603	Notification of Construction Work under APCO	Site office of 3603	433604	Receipt acknowledged by EPD on 16 May 2018
	Construction Noise Permit (General Works)	Works area of 3602	GW-RS0766-22	Valid from 28 Sep 2022 to 27 Mar 2023
	Bill Account for disposal	Works area of 3602	A/C 7028942	Approval granted from EPD on 6 Oc 2017
	Producer	Site office of 3602	WPN 5296-951- N2673-02	Completion of Registration on 11 Dec 2017
	Registration as Chemical Waste	Works area of 3602	WPN 5296-951- N2673-01	Completion of Registration on 9 Oct 2017
3602	Notification of Construction Work under APCO	Works area of 3602	421278	Receipt acknowledged by EPD on 18 Sep 2017
	Construction Noise Permit (General Works)	Works area of 3601	GW-RS1059-22	Valid from 8 Dec 2022 to 7 May 2023
	Bill Account for disposal	Works area of 3601	A/C 7029991	Approval granted from EPD on 1 Feb 2018
	Registration as Chemical Waste Producer	Works area of 3601	WPN 7119-951- C4421-01	Completion of Registration on 9 Jan 2020
3601	Notification of Construction Work under APCO	Works area of 3601	451762	Receipt acknowledged by EPD on 10 Dec 2019
		Works area of 3508	GW-RS0069-23	Valid from 1 Feb 2023 to 1 May 2023
		Works area of 3508	GW-RS0844-22	Valid from 14 Oct 2022 to 31 Mar 2023
		Works area of 3508	GW-RS0831-22	Valid from 12 Oct 2022 to 9 Apr 2023
	(Special Case)	Works area of 3508	GW-RS0034-23	Valid from 22 Jan 2023 to 20 Apr 2023
	Construction Noise Permit	Works area of 3508	GW-RS0229-23	Valid from 24 Mar 2023 to 21 Sep 2023
	(General Works)	Works area of 3508	GW-RS1133-22	Valid from 6 Jan 2023 to 5 Jun 2023
	Construction Noise Permit	Works area of 3508	GW-RS1127-22	Valid from 2 Jan 2023 to 27 Jun 2023
	Bill Account for disposal	Works area of 3508	7038224	Approval granted from EPD on 8 Se
			WT00037549- 2021	Valid from 1 Apr 2021 to 30 Apr 2026
	WPCO		WT00037225- 2020	Valid from 11 Jan 2022 to 30 Apr 2026
	Discharge License under		WT00037523- 2021	Valid from 24 Aug 2022 to 30 Apr 2026
Contract No.	Description	Location	Permit/ Reference No.	Status

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 (General Works)	Works area of 3603	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 Noise Permit (General Works)	Works area of 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-RS0096-23	Valid from 5 Feb 2023 to 2 Aug 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)	WT00043143- 2023	Valid from 17 Mar 2023 to 31 Mar 2028
			WT00041807- 2022	Valid from 3 Oct 2022 to 31 Oct 2027
	Bill Account for disposal	Works area of 3802	A/C 7037575	Approval granted from EPD on 15 Jun 2020
	Construction Noise Permit (General Works)	Works area of 3802	GW-RS0053-23	Valid from 30 Jan 2023 to 29 Jul 2023 Superseded by GW-RS0253-23
	(- ,		GW-RS0253-23	Valid from 30 Mar 2023 to 27 Sep 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	Works area of 3804 (3804/1A)	GW-RS0102-23	Valid from 15 Feb 2023 to 14 Aug 2023
	(General Works) Registration as	Works area of	GW-RS0208-23 WPN 5213-951-	Valid from 16 Mar 2023 to 14 Sep 2023 Completion of Registration on 4 Jan 2023
	Chemical Waste Producer	3804	B2686-01	
	Bill Account for disposal	Works area of 3804	A/C 7046121	Approval granted from EPD on 3 Jan 2023
3901A	Notification of Construction Work under APCO	Works area of 3901A	466883	Receipt acknowledged by EPD on 26 Apr 2021
	Air Pollution Control (Furnaces, Ovens and Chimneys) (Installation and Alteration) Regulations	Works area of 3901A	EP/RS/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 10 Feb 2023 to 9 Nov 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 (General Works)	Works area of 3901A	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 (General Works)	Works area of 3901B	GW-RS0070-23	Valid from 5 Feb 2023 to 4 Aug 2023
3913	Specified Process license under APCO	Works area of 3913	L-15-040 (1)	Valid from 29 Mar 2021 to 28 Mar 2025
	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	Works area of 3913	GW-RS0799-22	Valid from 24 Sep 2022 to 19 Mar 2023 Superseded by GW-RS0181-23
	(General Works)		GW-RS0181-23	Valid from 20 Mar 2023 to 19 Sep 2023

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

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

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

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

Statistics for Complaints, Notifications of Summons and Prosecutions

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

Appendix G. Data of SkyPier HSF Movements to/from Macau (between 1 and 31 March 2023)

Data of SkyPier HSF Movements to/from Macau (between 1 and 31 March 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-Mar	12:05	8S912	YFT	Arrival	11.9	-	-
3-Mar	12:45	8S193	YFT	Departure	12.3	-	-
7-Mar	12:03	8S912	YFT	Arrival	12.4	-	-
7-Mar	12:45	8S193	YFT	Departure	13	-	-
10-Mar	12:05	8S912	YFT	Arrival	13.1	-	-
10-Mar	12:45	8S193	YFT	Departure	12.5	-	-
14-Mar	12:00	8S912	YFT	Arrival	11.3	-	-
14-Mar	12:45	8S193	YFT	Departure	11.2	-	-
15-Mar	11:57	8S912	YFT	Arrival	11.8	-	-
15-Mar	12:42	8S193	YFT	Departure	10.9**	-	-
17-Mar	12:00	8S912	YFT	Arrival	11.4	-	-
17-Mar	12:48	8S193	YFT	Departure	11.4	-	-
21-Mar	12:00	8S912	YFT	Arrival	12.2	-	-
21-Mar	12:41	8S193	YFT	Departure	12.2	-	-
22-Mar	12:03	8S912	YFT	Arrival	12.7	-	-
22-Mar	12:44	8S193	YFT	Departure	13	-	-
24-Mar	12:05	8S912	YFT	Arrival	12.3	-	-
24-Mar	12:43	8S193	YFT	Departure	12.2	-	-
28-Mar	12:05	8S912	YFT	Arrival	12.5	-	-
28-Mar	12:45	8S193	YFT	Departure	12.6	-	-
29-Mar	12:02	8S912	YFT	Arrival	12	-	-
29-Mar	12:45	8S193	YFT	Departure	11.3	-	-
31-Mar	12:08	8S912	YFT	Arrival	12.6	-	-
31-Mar	12:47	8S193	YFT	Departure	9.7	-	-

^{**} Insufficient or no AIS data for speed calculation.

Follow-up on instantaneous speeding

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