

China Harbour Engineering Company Limited

Contract No. HY/2010/02

Hong Kong – Zhuhai – Macao Bridge Hong Kong Boundary Crossing Facilities – Reclamation Works

Monthly EM&A Report for May 2016

[06/2016]

	Name	Signature
Prepared & Checked:	Y T Tang	Conglitation
Reviewed, Approved and Certified:	Echo Leong (ETL)	Thukeouf

Version:	Rev. 0	Date:	15 June 2016

Disclaimer

This report is prepared for China Harbour Engineering Company Limited and is given for its sole benefit in relation to and pursuant to Contract No. HY/2010/02 Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities-Reclamation Works and may not be disclosed to, quoted to or relied upon by any person other than China Harbour Engineering Company Limited without our prior written consent. No person (other than China Harbour Engineering Company Limited) into whose possession a copy of this report comes may rely on this report without our express written consent and China Harbour Engineering Company Limited may not rely on it for any purpose other than as described above.

AECOM Asia Co. Ltd. 15/F, Grand Central Plaza, Tower 1, 138 Shatin Rural Committee Road, Shatin, NT, Hong Kong Tel: (852) 3922 9000 Fax: (852) 2317 7609 www.aecom.com



15 June 2016

By Fax (3698 5999) and By Post

Ove Arup & Partners Chief Resident Engineer's Office 5 Ying Hei Road, Tung Chung, Lantau Hong Kong

Attention: Mr. Paul Appleton

Dear Sir,

Re: Agreement No. CE 48/2011 (EP) **Environmental Project Office for the** HZMB Hong Kong Link Road, HZMB Hong Kong Boundary Crossing Facilities, and Tuen Mun-Chek Lap Kok Link – Investigation

Contract No. HY/2010/02 – HZMB HKBCF – Reclamation Works Monthly Environmental Monitoring & Audit Report for May 2016

Reference is made to the Environmental Team's submission of the Monthly Environmental Monitoring & Audit Report for May 2016 certified by the ET Leader (ET's ref.: "60249820/C/RMKY16061501" dated 15 June 2016) and provided to us via e-mail on 15 June 2016.

We are pleased to inform you that we have no adverse comment on the captioned submission. We write to verify the captioned submission in accordance with Condition 5.4 of EP-353/2009/K and Condition 4.4 of EP-354/2009/D (for TM-CLKL Southern Landfall Reclamation only).

As per Condition 1.7 of EPs, please be reminded to keep in view on the site condition, in particular on the integrity of the perimeter silt curtain and the effectiveness of perimeter drainage facilities with your on-going surveillance and monitoring and to further update/notify ENPO and EPD, from time to time and prior to each further removal of other section(s) of the perimeter silt curtains.

Thank you very much for your attention and please feel free to contact the undersigned should you require further information.

Yours faithfully, For and on behalf of Ramboll Environ Hong Kong Limited

onj

Raymond Dai Independent Environmental Checker

c.c.

HvD HyD AECOM

CHEC

Mr. Matthew Fung	(By Fax: 3188 6614)
Mr. Wai-Ping Lee	(By Fax: 3188 6614)
Ms. Echo Leong	(By Fax: 2317 7609)
Mr. Lim Kim Chuan	(By Fax: 2578 0413)

Internal: DY, YH, ENPO Site

Q:\Projects\HYDHZMBEEM00\02_Proj_Mgt\02_Corr\HYDHZMBEEM00_0_4284L.16.doc

TABLE OF CONTENTS

			Page
EXI	ECUTIV	E SUMMARY	3
1	INTRO	DUCTION	5
	1.1 1.2 1.3 1.4 1.5	Background Scope of Report Contract Organization Summary of Construction Works Summary of EM&A Programme Requirements	5 5 6 7
2	AIR Q	UALITY MONITORING	8
	2.1 2.2 2.3 2.4 2.5 2.6 2.7	Monitoring Requirements Monitoring Equipment Monitoring Locations Monitoring Parameters, Frequency and Duration Monitoring Methodology Monitoring Schedule for the Reporting Month Results and Observations	8 8 10 10 12 12
3	NOISE	MONITORING	13
	3.1 3.2 3.3 3.4 3.5 3.6 3.7	Monitoring Requirements Monitoring Equipment Monitoring Locations Monitoring Parameters, Frequency and Duration Monitoring Methodology Monitoring Schedule for the Reporting Month Monitoring Results	13 13 13 14 14 14 15
4	WATE	R QUALITY MONITORING	16
	4.1 4.2 4.3 4.4 4.5 4.6 4.7	Monitoring Requirements Monitoring Equipment Monitoring Parameters, Frequency and Duration Monitoring Locations Monitoring Methodology Monitoring Schedule for the Reporting Month Results and Observations	16 16 17 18 19 19
5	DOLP	HIN MONITORING	23
	5.1 5.2 5.3 5.4 5.5 5.6 5.7	Monitoring Requirements Monitoring Equipment Monitoring Frequency and Conditions Monitoring Methodology and Location Monitoring Procedures Monitoring Schedule for the Reporting Month Results and Observations	23 23 23 23 25 25 25 25
6	ENVIF	CONMENTAL SITE INSPECTION AND AUDIT	29
	6.1 6.2 6.3 6.4 6.5 6.6	Site Inspection Advice on the Solid and Liquid Waste Management Status Environmental Licenses and Permits Implementation Status of Environmental Mitigation Measures Summary of Exceedances of the Environmental Quality Performance Limit Summary of Complaints, Notification of Summons and Successful Prosecutions	29 30 31 32 33 33
7	FUTU	RE KEY ISSUES	34
	7.1 7.2 7.3	Construction Programme for the Coming Months Key Issues for the Coming Month Monitoring Schedule for the Coming Month	34 35 35



36

37

- 8.1 Conclusions
- 8.2 Recommendations

List of Tables

- Table 1.1 Contact Information of Key Personnel
- Table 2.1
 Air Quality Monitoring Equipment
- Table 2.2
 Locations of Impact Air Quality Monitoring Stations
- Table 2.3 Air Quality Monitoring Parameters, Frequency and Duration
- Table 2.4 Summary of 1-hour TSP Monitoring Results in the Reporting Period
- Table 2.5
 Summary of 24-hour TSP Monitoring Results in the Reporting Period
- Table 3.1 Noise Monitoring Equipment
- Table 3.2
 Locations of Impact Noise Monitoring Stations
- Table 3.3 Noise Monitoring Parameters, Frequency and Duration
- Table 3.4
 Summary of Construction Noise Monitoring Results in the Reporting Period
- Table 4.1
 Water Quality Monitoring Equipment
- Table 4.2
 Impact Water Quality Monitoring Parameters and Frequency
- Table 4.3
 Impact Water Quality Monitoring Stations
- Table 4.4
 Laboratory Analysis for Suspended Solids
- Table 4.5
 Summary of Water Quality Exceedances
- Table 5.1 Dolphin Monitoring Equipment
- Table 5.2
 Impact Dolphin Monitoring Line Transect Co-ordinates (Provided by AFCD)
- Table 5.3 Impact Dolphin Monitoring Survey Effort Summary, Effort by Area and Beaufort Sea State
- Table 5.4Impact Dolphin Monitoring Survey Details May 2016
- Table 5.5 The Encounter Rate of Number of Dolphin Sightings & Total Number of Dolphins per Area^
- Table 6.1
 Summary of Environmental Licensing and Permit Status

Figures

- Figure 1 General Contract Layout Plan
- Figure 2 Impact Air Quality and Noise Monitoring Stations and Wind Station
- Figure 3 Impact Water Quality Monitoring Stations
- Figure 4 Impact Dolphin Monitoring Line Transect Layout Map
- Figure 5 Impact Dolphin Monitoring Survey Efforts and Sightings in May 2016
- Figure 6 Environmental Complaint Handling Procedures

List of Appendices

- Appendix A Contract Organization for Environmental Works
- Appendix B Three Month Rolling Construction Programmes
- Appendix C Implementation Schedule of Environmental Mitigation Measures (EMIS)
- Appendix D Summary of Action and Limit Levels
- Appendix E Calibration Certificates of Monitoring Equipments
- Appendix F EM&A Monitoring Schedules
- Appendix G Impact Air Quality Monitoring Results and their Graphical Presentation
- Appendix H Meteorological Data for Monitoring Periods on Monitoring Dates in May 2016
- Appendix I Impact Construction Noise Monitoring Results and their Graphical Presentation
- Appendix J Impact Water Quality Monitoring Results and their Graphical Presentation
- Appendix K Impact Dolphin Monitoring Survey Sighting Summary
- Appendix L Event Action Plan
- Appendix M Monthly Summary of Waste Flow Table
- Appendix N Cumulative Statistics on Exceedances, Complaints, Notifications of Summons and Successful Prosecutions

EXECUTIVE SUMMARY

Contract No. HY/2010/02 – Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities – Reclamation Works (here below, known as "the Contract") mainly comprises reclamation at the northeast of the Hong Kong International Airport of an area of about 130-hectare for the construction of an artificial island for the development of the Hong Kong Boundary Crossing Facilities (HKBCF), and about 19-hectare for the southern landfall of the Tuen Mun - Chek Lap Kok Link (TMCLKL). It is a designated Project and is governed by the current permits for the Project, i.e. the amended Environmental Permits (EPs) issued on 11 April 2016 (EP-353/2009/K) and 13 March 2015 (EP-354/2009/D) (for TMCLKL Southern Landfall Reclamation only).

Ove Arup & Partners Hong Kong Limited (Arup) was appointed by Highways Department (HyD) as the consultants for the design and construction assignment for the Project's reclamation works (i.e. the Engineer for the Contract).

China Harbour Engineering Company Limited (CHEC) was awarded by HyD as the Contractor to undertake the construction work of the Contract.

Ramboll Environ Hong Kong Limited was employed by HyD as the Independent Environmental Checker (IEC) and Environmental Project Office (ENPO) for the Project.

AECOM Asia Co. Ltd. (AECOM) was appointed by CHEC to undertake the role of Environmental Team for the Contract for carrying out the environmental monitoring and audit (EM&A) works.

The construction phase of the Project under the EPs was commenced on 12 March 2012 and will be tentatively completed by early Year 2017. The EM&A programme, including air quality, noise, water quality and dolphin monitoring and environmental site inspections, was commenced on 12 March 2012.

This report documents the findings of EM&A works conducted in the period between 1 and 31 May 2016. As informed by the Contractor, major activities in the reporting period were:-

Marine-base

- Sloping Seawalls
- Rubble Mound Seawall
- Rock fill
- Maintenance of silt curtain & silt screen at sea water intake of HKIA (As informed by the Contractor, the silt curtain at NE Airport Cooling Water Intake has been removed on 10 May 2016.)

Land-base

- Surcharge removal & laying
- Deep Cement Mixing
- Installations of Precast Culverts except sloping outfalls
- Construction of Sloping Outfalls
- Maintenance works of Site Office at Works Area WA2
- Maintenance works of Public Works Regional Laboratory at Works Area WA3
- Maintenance of Temporary Marine Access at Works Area WA2

A summary of monitoring and audit activities conducted in the reporting period is listed below:

24-hour Total Suspended Particulates (TSP) monitoring 1-hour TSP monitoring Noise monitoring Impact water quality monitoring Impact dolphin monitoring	5 sessions 5 sessions 5 sessions 12 sessions 2 surveys 4 sessions
Joint Environmental site inspection	4 sessions

For impact air quality monitoring, no exceedance of 1-Hour TSP or 24-Hour TSP was recorded at all monitoring stations in the reporting month.

Breaches of Action and Limit Levels for Noise

For construction noise monitoring, no exceedance was recorded at all monitoring stations in the reporting month.

Breaches of Action and Limit Levels for Water Quality

Limit Level Exceedance of Suspended Solids at water quality monitoring station SR4(N) was measured on 20 May 2016 during flood tide. After investigation, there is no adequate information to conclude the recorded exceedances are related to this Contract. No exceedance was recorded at all other monitoring stations in the reporting month.

Breaches of Action and Limit Levels for Impact Dolphin Monitoring

For dolphin monitoring, one (1) limit level exceedance is recorded. The Investigation is undergoing and investigation results will be reported in quarterly report (March– May 2016)

Complaint, Notification of Summons and Successful Prosecution

No complaint, notification of summons or prosecution was received in the reporting period.

Reporting Change

No reporting change in the reporting month.

Future Key Issues

Key issues to be considered in the coming month included:

- Site runoff should be properly collected and treated prior to discharge;
- Regular review and maintenance of silt curtain systems, drainage systems and desilting facilities;
- Exposed surfaces/soil stockpiles should be properly treated to avoid generation of silty surface run-off during rainstorm;
- Regular review and maintenance of wheel washing facilities provided at all site entrances/exits;
- Conduct regular inspection of various working machineries and vessels within works areas to avoid any dark smoke emission;
- Suppress dust generated from work processes with use of bagged cements, earth movements, excavation activities, exposed surfaces/soil stockpiles and haul road traffic;
- Quieter powered mechanical equipment should be used;
- Provision of proper and effective noise control measures for operating equipment and machinery on-site, such as erection of movable noise barriers or enclosure for noisy plants;
- Closely check and replace the sound insulation materials regularly;
- Better scheduling of construction works to minimize noise nuisance;
- Properly store and label oil drums and chemical containers placed on site;
- Proper chemicals, chemical wastes and wastes management;
- Maintenance works should be carried out within roofed, paved and confined areas;
- Collection and segregation of construction waste and general refuse on land and in the sea should be carried out properly and regularly; and
- Proper protection and regular inspection of existing trees, transplanted/retained trees.
- Control night-time lighting and glare by hooding all lights.
- Regular review and provide maintenance to dust control measures such as sprinkler system.

1 INTRODUCTION

1.1 Background

- 1.1.1 Contract No. HY/2010/02 Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities – Reclamation Works (here below, known as "the Contract") mainly comprises reclamation at the northeast of the Hong Kong International Airport of an area of about 130-hectare for the construction of an artificial island for the development of the Hong Kong Boundary Crossing Facilities (HKBCF), and about 19-hectare for the southern landfall of the Tuen Mun - Chek Lap Kok Link (TMCLKL).
- 1.1.2 The environmental impact assessment (EIA) reports (Hong Kong Zhuhai Macao Bridge Hong Kong Boundary Crossing Facilities EIA Report (Register No. AEIAR-145/2009) (HKBCFEIA) and Tuen Mun Chek Lap Kok Link EIA Report (Register No. AEIAR-146/2009) (TMCLKLEIA), and their environmental monitoring and audit (EM&A) Manuals (original EM&A Manuals), for the Project were approved by Environmental Protection Department (EPD) in October 2009.
- 1.1.3 EPD subsequently issued the Environmental Permit (EP) for HKBCF in November 2009 (EP-353/2009) and the Variation of Environmental Permit (VEP) in June 2010 (EP-353/2009/A), November 2010 (EP-353/2009/B), November 2011 (EP-353/2009/C), March 2012 (EP-353/2009/D), October 2012 (EP-353/2009/E), April 2013 (EP-353/2009/F), August 2013 (EP-353/2009/G), January 2015 (EP-353/2009/H), July 2015 (EP-353/2009/I), February 2016 (EP-353/2009/J) and April 2016 (EP-353/2009/K). Similarly, EPD issued the Environmental Permit (EP) for TMCLKL in November 2009 (EP-354/2009) and the Variation of Environmental Permit (VEP) in December 2010 (EP-354/2009/A), January 2014 (EP-354/2009/B), December 2014 (EP-354/2009/C) and March 2015 (EP-354/2009/D).
- 1.1.4 The Project is a designated Project and is governed by the current permits for the Project, i.e. the amended EPs issued on 11 April 2016 (EP-353/2009/K) and 13 March 2015 (EP-354/2009/D) (for TMCLKL Southern Landfall Reclamation only).
- 1.1.5 A Contract Specific EM&A Manual, which included all Contract -relation contents from the original EM&A Manuals for the Contract, was issued in May 2012.
- 1.1.6 Ove Arup & Partners Hong Kong Limited (Arup) was appointed by Highways Department (HyD) as the consultants for the design and construction assignment for the Project's reclamation works (i.e. the Engineer for the Contract).
- 1.1.7 China Harbour Engineering Company Limited (CHEC) was awarded by HyD as the Contractor to undertake the construction work of the Contract.
- 1.1.8 Ramboll Environ Hong Kong Limited. was employed by HyD as the Independent Environmental Checker (IEC) and Environmental Project Office (ENPO) for the Project.
- 1.1.9 AECOM Asia Co. Ltd. (AECOM) was appointed by CHEC to undertake the role of Environmental Team for the Contract for carrying out the EM&A works.
- 1.1.10 The construction phase of the Project under the EPs was commenced on 12 March 2012 and will be tentatively completed by early Year 2017.
- 1.1.11 According to the Contract Specific EM&A Manual, there is a need of an EM&A programme including air quality, noise, water quality and dolphin monitoring and environmental site inspections. The EM&A programme of the Contract commenced on 12 March 2012.

1.2 Scope of Report

1.2.1 This is the fifty first monthly EM&A Report under the Contract No.HY/2010/02 Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities – Reclamation Works. This report presents a summary of the environmental monitoring and audit works, list of activities and mitigation measures proposed by the ET for the Contract in May 2016.



1.3 Contract Organization

1.3.1 The Contract organization structure is shown in Appendix A. The key personnel contact names and numbers are summarized in Table 1.1.

Party	Position	Name	Telephone	Fax
Engineer's Representative (ER) (Ove Arup &	Chief Resident Engineer	Paul Appleton	3698 5889	2698 5999
Partners Hong Kong Limited)				
IEC / ENPO	Independent Environmental Checker	Raymond Dai	3465 2888	3465 2899
(Ramboll Environ Hong Kong Limited)	Environmental Project Office Leader	Y. H. Hui	3547 2133	3465 2899
Contractor (China Harbour	Environmental Officer	Louie Chan	3693 2254	2578 0413
Engineering Company Limited)	24-hour Hotline	Alan C.C. Yeung	9448 0325	
ET				
(AECOM Asia Company Limited)	ET Leader	Echo Leong	3922 9280	2317 7609

Table 1.1 Contact Information of Key Personnel

1.4 Summary of Construction Works

- 1.4.1 The construction phase of the Project under the EP commenced on 12 March 2012.
- 1.4.2 As informed by the Contractor, details of the major works carried out in this reporting period are listed below:-

Marine-base

- Sloping Seawalls
- Rubble Mound Seawall
- Rock fill
- Maintenance of silt curtain & silt screen at sea water intake of HKIA (As informed by the Contractor, the silt curtain at NE Airport Cooling Water Intake has been removed on 10 May 2016.)

Land-base

- Surcharge removal & laying
- Deep Cement Mixing
- Installations of Precast Culverts except sloping outfalls
- Construction of Sloping Outfalls
- Maintenance works of Site Office at Works Area WA2
- Maintenance works of Public Works Regional Laboratory at Works Area WA3
- Maintenance of Temporary Marine Access at Works Area WA2

Monthly EM&A Report for May 2016

1.4.3 The 3-month rolling construction programme of the Contract is shown in Appendix B.

- 1.4.4 The general layout plan of the Contract site showing the detailed works areas is shown in Figure 1.
- 1.4.5 The environmental mitigation measures implementation schedule are presented in Appendix C.

1.5 Summary of EM&A Programme Requirements

- 1.5.1 The EM&A programme required environmental monitoring for air quality, noise, water quality, marine ecology and environmental site inspections for air quality, noise, water quality, waste management, marine ecology, and landscape and visual impact. The EM&A requirements for each parameter described in the following sections include:-
 - All monitoring parameters;
 - Monitoring schedules for the reporting month and forthcoming month;
 - Action and Limit levels for all environmental parameters;
 - Event / Action Plan;
 - Environmental mitigation measures, as recommended in the Project EIA reports; and
 - Environmental requirement in contract documents.

2 AIR QUALITY MONITORING

2.1 Monitoring Requirements

2.1.1 In accordance with the Contract Specific EM&A Manual, baseline 1-hour and 24-hour Total Suspended Particulates (TSP) levels at 4 air quality monitoring stations were established. Impact 1-hour TSP monitoring was conducted for at least three times every 6 days, while impact 24-hour TSP monitoring was carried out for at least once every 6 days. The Action and Limit level of the air quality monitoring is provided in Appendix D.

2.2 Monitoring Equipment

2.2.1 24-hour TSP air quality monitoring was performed using High Volume Sampler (HVS) located at each designated monitoring station. The HVS meets all the requirements of the Contract Specific EM&A Manual. Portable direct reading dust meters were used to carry out the 1-hour TSP monitoring. Brand and model of the equipment is given in Table 2.1.

 Table 2.1
 Air Quality Monitoring Equipment

Equipment	Brand and Model
Portable direct reading dust meter (1-hour TSP)	Sibata Digital Dust Monitor (Model No. LD-3 and LD-3B)
High Volume Sampler (24-hour TSP)	Tisch Environmental Mass Flow Controlled Total Suspended Particulate (TSP) High Volume Air Sampler (Model No. TE-5170)

2.3 Monitoring Locations

- 2.3.1 Monitoring locations AMS2 and AMS7 were set up at the proposed locations in accordance with Contract Specific EM&A Manual. For AMS6 (Dragonair/CNAC (Group) Building), permission on setting up and carrying out impact monitoring works was sought, however, access to the premise has not been granted yet on this report issuing date. For monitoring location AMS3 (Ho Yu College), as proposed in the Contract Specific EM&A Manual, approval for carrying out impact monitoring works at nearby sensitive receivers, like Caribbean Coast and Coastal Skyline, was also sought. However, approvals for carrying out impact monitoring works within their premises were not obtained. Impact air quality monitoring was conducted at site boundary of the site office area in Works Area WA2 (AMS3B) respectively. Same baseline and Action Level for air quality, as derived from the baseline monitoring data recorded at Ho Yu College, was adopted for this alternative air quality location.
- 2.3.2 It was observed that a tree near AMS3B may affect the wind flow around the HVS located at AMS3B. With no further comment received from IEC, the HVS at AMS3B has been relocated on 8 September 2014 to slightly more than 2 meters separation from it, measured horizontally. Same baseline and Action Level for air quality, as derived from the baseline monitoring data recorded at Ho Yu College, was adopted for this alternative air quality location.
- 2.3.3 Reference is made to ET's proposal of the omission of air monitoring station (AMS 6) dated on 1 November 2012 and EPD's letter dated on 19 November 2012 regarding the conditional approval of the proposed omission of air monitoring station (AMS 6) for Contract No. HY/2010/02. The aforesaid omission of Monitoring Station AMS6 is effective since 19 November 2012.
- 2.3.4 The impact air quality monitoring station AMS7A (Chu Kong Air-Sea Union Transportation Company Limited) has been relocated to AMS7 (Hong Kong SkyCity Marriott Hotel) on 30 December 2015. The impact air quality monitoring was conducted at AMS7 (Hong Kong SkyCity Marriott Hotel) since January 2016, action Level for air quality, as derived from the baseline monitoring data recorded at Hong Kong SkyCity Marriott Hotel has been adopted for this air quality monitoring location.



Contract No. HY/2010/02 Hong Kong-Zhuhai-Macao Bridge

Hong Kong Boundary Crossing Facilities – Reclamation WorksMonthly EM&A Report for May 20162.3.5Figure 2 shows the locations of monitoring stations. Table 2.2 describes the details of the monitoring stations.

Monthly EM&A Report for May 2016

Table 2.2 Locations of Impact Air Quality Monitoring Stations

Monitoring Station	Location	Description	
AMS2	Tung Chung Development Pier	Rooftop of the premise	
AMS3B Site Boundary of Site Office Area at Works Area WA2		On ground at the area boundary	
AMS6*	Dragonair/CNAC (Group) Building	On ground at boundary of the premise	
AMS7	Hong Kong SkyCity Marriott Hotel	On ground at boundary of the premise	

[#]Remarks: Reference is made to EPD conditional approval of the omission of air monitoring station (AMS 6) for the Contract. The omission will be effective on 19 November 2012.

2.4 Monitoring Parameters, Frequency and Duration

2.4.1 Table 2.3 summarizes the monitoring parameters, frequency and duration of impact TSP monitoring.

Table 2.3 Air Quality Monitoring Parameters, Frequency and Duration

Parameter	Frequency and Duration		
1-hour TSP	Three times every 6 days while the highest dust impact was expected		
24-hour TSP	Once every 6 days		

2.5 Monitoring Methodology

- 2.5.1 24-hour TSP Monitoring
 - (a) The HVS was installed in the vicinity of the air sensitive receivers. The following criteria were considered in the installation of the HVS.
 - (i) A horizontal platform with appropriate support to secure the sampler against gusty wind was provided.
 - (ii) No two samplers should be placed less than 2 meters apart.
 - (iii) The distance between the HVS and any obstacles, such as buildings, was at least twice the height that the obstacle protrudes above the HVS.
 - (iv) A minimum of 2 meters separation from walls, parapets and penthouse for rooftop sampler.
 - (v) A minimum of 2 meters separation from any supporting structure, measured horizontally is required.
 - (vi) No furnace or incinerator flues nearby.
 - (vii) Airflow around the sampler was unrestricted.
 - (viii) Permission was obtained to set up the samplers and access to the monitoring stations.
 - (ix) A secured supply of electricity was obtained to operate the samplers.
 - (x) The sampler was located more than 20 meters from any dripline.
 - (xi) Any wire fence and gate, required to protect the sampler, did not obstruct the monitoring process.
 - (xii) Flow control accuracy was kept within ±2.5% deviation over 24-hour sampling period.
 - (b) Preparation of Filter Papers
 - (i) Glass fibre filters, G810 were labelled and sufficient filters that were clean and without pinholes were selected.
 - (ii) All filters were equilibrated in the conditioning environment for 24 hours before weighing. The conditioning environment temperature was around 25 °C and not variable by more than ±3 °C; the relative humidity (RH) was < 50% and not variable by more than ±5%. A convenient working RH was 40%.



- (iii) All filter papers were prepared and analysed by ALS Technichem (HK) Pty Ltd., which is a HOKLAS accredited laboratory and has comprehensive quality assurance and quality control programmes.
- (c) Field Monitoring
 - (i) The power supply was checked to ensure the HVS works properly.
 - (ii) The filter holder and the area surrounding the filter were cleaned.
 - (iii) The filter holder was removed by loosening the four bolts and a new filter, with stamped number upward, on a supporting screen was aligned carefully.
 - (iv) The filter was properly aligned on the screen so that the gasket formed an airtight seal on the outer edges of the filter.
 - (v) The swing bolts were fastened to hold the filter holder down to the frame. The pressure applied was sufficient to avoid air leakage at the edges.
 - (vi) Then the shelter lid was closed and was secured with the aluminum strip.
 - (vii) The HVS was warmed-up for about 5 minutes to establish run-temperature conditions.
 - (viii) A new flow rate record sheet was set into the flow recorder.
 - (ix) On site temperature and atmospheric pressure readings were taken and the flow rate of the HVS was checked and adjusted at around 1.1 m³/min, and complied with the range specified in the updated EM&A Manual (i.e. 0.6-1.7 m³/min).
 - (x) The programmable digital timer was set for a sampling period of 24 hrs, and the starting time, weather condition and the filter number were recorded.
 - (xi) The initial elapsed time was recorded.
 - (xii) At the end of sampling, on site temperature and atmospheric pressure readings were taken and the final flow rate of the HVS was checked and recorded.
 - (xiii) The final elapsed time was recorded.
 - (xiv) The sampled filter was removed carefully and folded in half length so that only surfaces with collected particulate matter were in contact.
 - (xv) It was then placed in a clean plastic envelope and sealed.
 - (xvi) All monitoring information was recorded on a standard data sheet.
 - (xvii) Filters were then sent to ALS Technichem (HK) Pty Ltd. for analysis.
- (d) Maintenance and Calibration
 - (i) The HVS and its accessories were maintained in good working condition, such as replacing motor brushes routinely and checking electrical wiring to ensure a continuous power supply.
 - (ii) 5-point calibration of the HVS was conducted using TE-5025A Calibration Kit prior to the commencement of baseline monitoring. Bi-monthly 5-point calibration of the HVS will be carried out during impact monitoring.
 - (iii) Calibration certificate of the HVSs are provided in Appendix E.

2.5.2 1-hour TSP Monitoring

(a) Measuring Procedures

The measuring procedures of the 1-hour dust meter were in accordance with the Manufacturer's Instruction Manual as follows:-

- (i) Turn the power on.
- (ii) Close the air collecting opening cover.
- (iii) Push the "TIME SETTING" switch to [BG].
- (iv) Push "START/STOP" switch to perform background measurement for 6 seconds.
- (v) Turn the knob at SENSI ADJ position to insert the light scattering plate.
- (ví) Leave the equipment for 1 minute upon "SPAN CHECK" is indicated in the display.
- (vii) Push "START/STOP" switch to perform automatic sensitivity adjustment. This measurement takes 1 minute.
- (viii) Pull out the knob and return it to MEASURE position.
- (ix) Push the "TIME SETTING" switch the time set in the display to 3 hours.
- (x) Lower down the air collection opening cover.
- (xi) Push "START/STOP" switch to start measurement.



- (b) Maintenance and Calibration
 - (i) The 1-hour TSP meter was calibrated at 1-year intervals against a continuous particulate TEOM Monitor, Series 1400ab. Calibration certificates of the Laser Dust Monitors are provided in Appendix E.
 - (ii) 1-hour validation checking of the TSP meter against HVS is carried out on half-year basis at the air quality monitoring locations.

2.6 Monitoring Schedule for the Reporting Month

- 2.6.1 The schedule for air quality monitoring in May 2016 is provided in Appendix F.
- 2.6.2 Due to electricity failure, the 24-hour TSP Monitoring at Station AMS3B Site Boundary of Site Office (WA2) was rescheduled from 23 May 2016 24 May 2016 to 24 May 2016 25 May 2016.

2.7 Results and Observations

2.7.1 The monitoring results for 1-hour TSP and 24-hour TSP are summarized in Table 2.4 and 2.5 respectively. Detailed impact air quality monitoring results are presented in Appendix G.

 Table 2.4
 Summary of 1-hour TSP Monitoring Results in the Reporting Period

	Average (µg/m³)	Range (µg/m³)	Action Level (μg/m³)	Limit Level (µg/m³)
AMS2	78	71-85	374	500
AMS3B	78	72-85	368	500
AMS7	78	70-84	370	500

Table 2.5	Summary of 24-hour TSP Monitoring Results in the Reporting Period
-----------	---

	Average (μg/m³)	Range (µg/m³)	Action Level (μg/m³)	Limit Level (µg/m³)
AMS2	42	17-61	176	260
AMS3B	37	21-63	167	260
AMS7	59	27-95	183	260

- 2.7.2 The event action plan is annexed in Appendix L.
- 2.7.3 Meteorological information collected from the wind station during the monitoring periods on the monitoring dates, as shown in Figure 2, including wind speed and wind direction, is annexed in Appendix H.

3 NOISE MONITORING

3.1 Monitoring Requirements

3.1.1 In accordance with the Contract Specific EM&A Manual, impact noise monitoring was conducted for at least once per week during the construction phase of the Contract. The Action and Limit level of the noise monitoring is provided in Appendix D.

3.2 Monitoring Equipment

3.2.1 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 (IEC) 651:1979 (Type 1) and 804:1985 (Type 1) specifications. Acoustic calibrator was deployed to check the sound level meters at a known sound pressure level. Brand and model of the equipment is given in Table 3.1.

 Table 3.1
 Noise Monitoring Equipment

Equipment	Brand and Model
Integrated Sound Level Meter	Rion NL-31 & B&K2238
Acoustic Calibrator	Rion NC-73 & B&K 4231

3.3 Monitoring Locations

- 3.3.1 Monitoring locations NMS2 was set up at the proposed locations in accordance with Contract Specific EM&A Manual. However, for monitoring location NMS3 (Ho Yu College), as proposed in the Contract Specific EM&A Manual, approval for carrying out impact monitoring could not be obtained from the principal of the school. Permission on setting up and carrying out impact monitoring works at nearby sensitive receivers, like Caribbean Coast and Coastal Skyline, was also sought. However, approvals for carrying out impact monitoring works within their premises were not obtained. Impact noise monitoring was conducted at site boundary of the site office area in Works Area WA2 (NMS3B) respectively. Same baseline noise level (as derived from the baseline monitoring location.
- 3.3.2 Figure 2 shows the locations of the monitoring stations. Table 3.2 describes the details of the monitoring stations.

 Table 3.2
 Locations of Impact Noise Monitoring Stations

Monitoring Station	Location	Description
NMS2	S2 Seaview Crescent Tower 1 Free-field on the rooftop of the pr	
NMS3B	Site Boundary of Site Office Area at Works Area WA2	Free-field on ground at the area boundary.

3.4 Monitoring Parameters, Frequency and Duration

3.4.1 Table 3.3 summarizes the monitoring parameters, frequency and duration of impact noise monitoring.

Table 3.3 Noise Monitoring Parameters, Frequency and Duration

Parameter	Frequency and Duration
30-mins measurement at each monitoring station between 0700 and 1900 on normal weekdays (Monday to Saturday). L_{eq} , L_{10} and L_{90} would be recorded.	At least once per week

3.5 Monitoring Methodology

- 3.5.1 Monitoring Procedure
 - (a) The sound level meter was set on a tripod at a height of 1.2 m above the ground for free-field measurements at NMS2. A correction of +3 dB(A) shall be made to the free field measurements.
 - (b) All measurement at NMS3B were free field measurements in the reporting month at NMS3B. A correction of +3 dB(A) shall be made to the free field measurements.
 - (c) The battery condition was checked to ensure the correct functioning of the meter.
 - (d) Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:-
 - (i) frequency weighting: A
 - (ii) time weighting: Fast
 - (iii) time measurement: $L_{eq(30-minutes)}$ during non-restricted hours i.e. 07:00 1900 on normal weekdays.
 - (e) Prior to and after each noise measurement, the meter was calibrated using the acoustic calibrator for 94dB(A) at 1000 Hz. If the difference in the calibration level before and after measurement was more than 1 dB(A), the measurement would be considered invalid and repeat of noise measurement would be required after re-calibration or repair of the equipment.
 - (f) During the monitoring period, the L_{eq} , L_{10} and L_{90} were recorded. In addition, site conditions and noise sources were recorded on a standard record sheet.
 - (g) Noise measurement was paused during periods of high intrusive noise (e.g. dog barking, helicopter noise) if possible. Observations were recorded when intrusive noise was unavoidable.
 - (h) Noise monitoring was cancelled in the presence of fog, rain, wind with a steady speed exceeding 5m/s, or wind with gusts exceeding 10m/s. The wind speed shall be checked with a portable wind speed meter capable of measuring the wind speed in m/s.
- 3.5.2 Maintenance and Calibration
 - (a) The microphone head of the sound level meter was cleaned with soft cloth at regular intervals.
 - (b) The meter and calibrator were sent to the supplier or HOKLAS laboratory to check and calibrate at yearly intervals.
 - (c) Calibration certificates of the sound level meters and acoustic calibrators are provided in Appendix E.

3.6 Monitoring Schedule for the Reporting Month

3.6.1 The schedule for construction noise monitoring in May 2016 is provided in Appendix F.



3.7 Monitoring Results

3.7.1 The monitoring results for construction noise are summarized in Table 3.4 and the monitoring data is provided in Appendix I.

	Average, dB(A),	Range, dB(A),	Limit Level, dB(A),
	L _{eq (30 mins)}	L _{eq (30 mins)}	L _{eq (30 mins)}
NMS2	66	64-67*	75
NMS3B	67	65-69*	70/65^

Table 3.4 Summary of Construction Noise Monitoring Results in the Reporting Period

*+3dB(A) Façade correction included

^ Daytime noise Limit Level of 70 dB(A) applies to education institutions, while 65dB(A) applies during school examination period.

- 3.7.2 No Action or Limit Level Exceedance of construction noise was recorded in the reporting month.
- 3.7.3 Major noise sources during the noise monitoring included construction activities of the Contract, construction activities by other contracts and nearby traffic noise.
- 3.7.4 The event action plan is annexed in Appendix L.

4 WATER QUALITY MONITORING

4.1 Monitoring Requirements

4.1.1 Impact water quality monitoring was carried out to ensure that any deterioration of water quality was detected, and that timely action was taken to rectify the situation. For impact water quality monitoring, measurements were taken in accordance with the Contract Specific EM&A Manual. Appendix D shows the established Action/Limit Levels for the environmental monitoring works.

4.2 Monitoring Equipment

4.2.1 Table 4.1 summarises the equipment used in the impact water quality monitoring programme.

Table 4.1Water Quality Monitoring Equipment

Equipment	Brand and Model
Dissolved Oxygen (DO) and Temperature Meter, Salinity Meter and Turbidity Meter	YSI Model 6820
pH Meter	YSI Model 6820 or Thermo Orion 230A+
Positioning Equipment	JRC DGPS 224 Model JLR-4341 with J-NAV 500 Model NWZ4551
Water Depth Detector	Eagle Cuda-168 and Lowrance x-4
Water Sampler	Kahlsio Water Sampler (Vertical) 2.2 L with messenger

4.3 Monitoring Parameters, Frequency and Duration

4.3.1 Table 4.2 summarises the monitoring parameters, frequency and monitoring depths of impact water quality monitoring as required in the Contract Specific EM&A Manual.

 Table 4.2
 Impact Water Quality Monitoring Parameters and Frequency

Monitoring Stations	Parameter, unit	Frequency	No. of depth
Impact Stations: IS5, IS(Mf)6, IS7, IS8, IS(Mf)9, IS10, IS(Mf)11, IS(Mf)16, IS17 Control/Far Field Stations: CS(Mf)3, CS(Mf)5, CS4, CS6, CSA Sensitive Receiver Stations: SR3-SR7, SR10A&SR10B	 Depth, m Temperature, °C Salinity, ppt Dissolved Oxygen (DO), mg/L DO Saturation, % Turbidity, NTU pH Suspended Solids (SS), mg/L 	Three times per week during mid- ebb and mid- flood tides (within ± 1.75 hour of the predicted time)	3 (1 m below water surface, mid-depth and 1 m above sea bed, except where the water depth is less than 6 m, in which case the mid- depth station may be omitted. Should the water depth be less than 3 m, only the mid-depth station will be monitored).

4.4 Monitoring Locations

- 4.4.1 In accordance with the Contract Specific EM&A Manual, twenty-one stations (9 Impact Stations, 7 Sensitive Receiver Stations and 5 Control/Far Field Stations) were designated for impact water quality monitoring. The nine Impact Stations (IS) were chosen on the basis of their proximity to the reclamation and thus the greatest potential for water quality impacts, the seven Sensitive Receiver Stations (SR) were chosen as they are close to the key sensitive receives and the five Control/ Far Field Stations (CS) were chosen to facilitate comparison of the water quality of the IS stations with less influence by the Project/ ambient water quality conditions.
- 4.4.2 Due to safety concern and topographical condition of the original locations of SR4 and SR10B, alternative impact water quality monitoring stations, naming as SR4 (N) and SR10B (N), were adopted, which are situated in vicinity of the original impact water quality monitoring stations (SR4 and SR10B) and could be reachable.
- 4.4.3 Same baseline and Action Level for water quality, as derived from the baseline monitoring data recorded, were adopted for these alternative impact water quality monitoring stations.
- 4.4.4 The locations of these monitoring stations are summarized in Table 4.3 and depicted in Figure 3.

Station	Description	East	North
IS5	Impact Station (Close to HKBCF construction site)	811579	817106
IS(Mf)6	Impact Station (Close to HKBCF construction site)	812101	817873
IS7	Impact Station (Close to HKBCF construction site)	812244	818777
IS8	Impact Station (Close to HKBCF construction site)	814251	818412
IS(Mf)9	Impact Station (Close to HKBCF construction site)	813273	818850
IS10	Impact Station (Close to HKBCF construction site)	812577	820670
IS(Mf)11	Impact Station (Close to HKBCF construction site)	813562	820716
IS(Mf)16	Impact Station (Close to HKBCF construction site)	814328	819497
IS17	Impact Station (Close to HKBCF construction site)	814539	820391
SR3	Sensitive receivers (San Tau SSSI)	810525	816456
SR4(N)	Sensitive receivers (Tai Ho)	814705	817859
SR5	Sensitive receivers (Artificial Reef in NE Airport)	811489	820455
SR6	Sensitive receivers (Sha Chau and Lung Kwu Chau Marine Park)	805837	821818
SR7	Sensitive receivers (Tai Mo Do)	814293	821431
SR10A	Sensitive receivers (Ma Wan FCZ)1	823741	823495
SR10B(N)	Sensitive receivers (Ma Wan FCZ)2	823683	823187
CS(Mf)3	Control Station	809989	821117
CS(Mf)5	Control Station	817990	821129
CS4	Control Station	810025	824004
CS6	Control Station	817028	823992
CSA	Control Station	818103	823064

 Table 4.3
 Impact Water Quality Monitoring Stations

4.5 Monitoring Methodology

4.5.1 Instrumentation

- (a) The in-situ water quality parameters, viz. dissolved oxygen, temperature, salinity, turbidity and pH, were measured by multi-parameter meters (i.e. Model YSI 6820 CE-C-M-Y) and pH meter (i.e. Thermo Orion 230A+) respectively.
- 4.5.2 Operating/Analytical Procedures
 - (a) Digital Differential Global Positioning Systems (DGPS) were used to ensure that the correct location was selected prior to sample collection.
 - (b) Portable, battery-operated echo sounders were used for the determination of water depth at each designated monitoring station.
 - (c) All in-situ measurements were taken at 3 water depths, 1 m below water surface, mid-depth and 1 m above sea bed, except where the water depth was less than 6 m, in which case the mid-depth station was omitted. Should the water depth be less than 3 m, only the mid-depth station was monitored.
 - (d) At each measurement/sampling depth, two consecutive in-situ monitoring (DO concentration and saturation, temperature, turbidity, pH, salinity) and water sample for SS. The probes were retrieved out of the water after the first measurement and then re-deployed for the second measurement. Where the difference in the value between the first and second readings of DO or turbidity parameters was more than 25% of the value of the first reading, the reading was discarded and further readings were taken.
 - (e) Duplicate samples from each independent sampling event were collected for SS measurement. Water samples were collected using the water samplers and the samples were stored in highdensity polythene bottles. Water samples collected were well-mixed in the water sampler prior to pre-rinsing and transferring to sample bottles. Sample bottles were pre-rinsed with the same water samples. The sample bottles were then be packed in cool-boxes (cooled at 4°C without being frozen), and delivered to ALS Technichem (HK) Pty Ltd. for the analysis of suspended solids concentrations. The laboratory determination work would be started within 24 hours after collection of the water samples. ALS Technichem (HK) Pty Ltd. is a HOKLAS accredited laboratory and has comprehensive quality assurance and quality control programmes. For QA/QC procedures, one duplicate samples of every batch of 20 samples was analyzed.
 - (f) The analysis method and reporting and detection limit for SS is shown in Table 4.4.

Parameters	Instrumentation Analytical M		Reporting Limit	Detection Limit		
Suspended Solid (SS)	Weighting	APHA 2540-D	0.5mg/L	0.5mg/L		

Table 4.4Laboratory Analysis for Suspended Solids

(g) Other relevant data were recorded, including monitoring location / position, time, water depth, tidal stages, weather conditions and any special phenomena or work underway at the construction site in the field log sheet for information.

- 4.5.3 Maintenance and Calibration
 - (a) All in situ monitoring instruments would be calibrated and calibrated by ALS Technichem (HK) Pty Ltd. before use and at 3-monthly intervals throughout all stages of the water quality monitoring programme. Calibration details are provided in Appendix E.
 - (b) The dissolved oxygen probe of YSI 6820 was calibrated by wet bulb method. Before the calibration routine, the sensor for dissolved oxygen was thermally equilibrated in water-saturated air. Calibration cup is served as a calibration chamber and it was loosened from airtight condition before it is used for the calibration. Calibration at ALS Technichem (HK) Pty Ltd. was carried out once every three months in a water sample with a known concentration of dissolved oxygen. The sensor was immersed in the water and after thermal equilibration, the known mg/L value was keyed in and the calibration was carried out automatically.
 - (c) The turbidity probe of YSI 6820 is calibrated two times a month. A zero check in distilled water was performed with the turbidity probe of YSI 6820 once per monitoring day. The probe will be calibrated with a solution of known NTU at ALS Technichem (HK) Pty Ltd. once every three months.

4.6 Monitoring Schedule for the Reporting Month

- 4.6.1 The schedule for impact water quality monitoring in May 2016 is provided in Appendix F.
- 4.6.2 The Impact Water Quality Monitoring originally scheduled on 27 May 2016 was cancelled due to Tropical Cyclone Warning Signal No.3 was hoisted.

4.7 Results and Observations

4.7.1 Impact water quality monitoring results and graphical presentations are provided in Appendix J.

Station	Exceedance DO (S&M)		DO (B	ottom)	Tur	bidity		SS	Total		
	Level	Ebb	Flood	Ebb	Flood	Ebb	Flood	Ebb	Flood	Ebb	Flood
IS5	Action	0	0	0	0	0	0	0	0	0	0
155	Limit	0	0	0	0	0	0	0	0	0	0
IS(Mf)6	Action	0	0	0	0	0	0	0	0	0	0
13(111)0	Limit	0	0	0	0	0	0	0	0	0	0
IS7	Action	0	0	0	0	0	0	0	0	0	0
137	Limit	0	0	0	0	0	0	0	0	0	0
IS8	Action	0	0	0	0	0	0	0	0	0	0
130	Limit	0	0	0	0	0	0	0	0	0	0
IS(Mf)9	Action	0	0	0	0	0	0	0	0	0	0
13(111)9	Limit	0	0	0	0	0	0	0	0	0	0
IS10	Action	0	0	0	0	0	0	0	0	0	0
1310	Limit	0	0	0	0	0	0	0	0	0	0
IS(Mf)11	Action	0	0	0	0	0	0	0	0	0	0
13(101)11	Limit	0	0	0	0	0	0	0	0	0	0
IS(Mf)16	Action	0	0	0	0	0	0	0	0	0	0
13(101)10	Limit	0	0	0	0	0	0	0	0	0	0
IS17	Action	0	0	0	0	0	0	0	0	0	0
1317	Limit	0	0	0	0	0	0	0	0	0	0
SR3	Action	0	0	0	0	0	0	0	0	0	0
313	Limit	0	0	0	0	0	0	0	0	0	0
SR4(N)	Action	0	0	0	0	0	0	0	0	0	0
3K4(N)	Limit	0	0	0	0	0	0	0	1	0	1
SR5	Action	0	0	0	0	0	0	0	0	0	0
313	Limit	0	0	0	0	0	0	0	0	0	0
SR6	Action	0	0	0	0	0	0	0	0	0	0
SNU	Limit	0	0	0	0	0	0	0	0	0	0
SR7	Action	0	0	0	0	0	0	0	0	0	0

Table 4.5 Summary of Water Quality Exceedances



Contract No. HY/2010/02 Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities – Reclamation Works

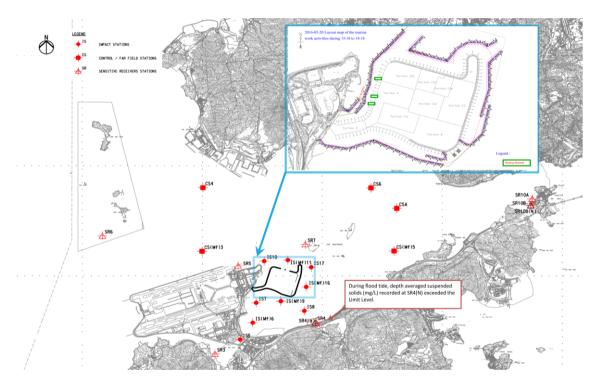
Monthly EM&A Report for May 2016

Station Exceedance Level		DO (DO (S&M) [DO (Bottom)		Turbidity		SS		Total	
		Ebb	Flood	Ebb	Flood	Ebb	Flood	Ebb	Flood	Ebb	Flood	
	Limit	0	0	0	0	0	0	0	0	0	0	
SR10A	Action	0	0	0	0	0	0	0	0	0	0	
SKIUA	Limit	0	0	0	0	0	0	0	0	0	0	
SR10B	Action	0	0	0	0	0	0	0	0	0	0	
(N)	Limit	0	0	0	0	0	0	0	0	0	0	
Total	Action	0	0	0	0	0	0	0	0		0	
	Limit	0	0	0	0	0	0	0	1		1	
	Note: S: Surface: and											

e: S: Surface; and M: Mid-depth

M: Mid-depth.

- 4.7.2 For the limit Level Exceedance of Suspended Solids at water quality monitoring station SR4(N) was measured on 20 May 2016 during flood tide. After investigation, there is no adequate information to conclude the recorded exceedances are related to this Contract.
- 4.7.2.1 Below layout map shows that marine based construction works such as box culverts and seawall construction was carried out at Portion D and Portion A of HKBCF Reclamation Works.



- 4.7.2.2 Exceedances recorded at SR4(N) during mid-flood tide are unlikely due to marine based construction activities of the Contract because:
- 4.7.2.3 With reference to the silt curtain checking record, no defect was observed at southern and southeastern parts of the perimeter silt curtain which are facing SR4(N).
- 4.7.2.4 With referred to the attached layout map, marine based construction works such as seawall construction were conducted at Portion A and Portion C2A, however no silt plume was observed to flow from the inside of the perimeter silt curtain to the outside of the perimeter silt curtain when monitoring was conducted during flood tide. (Also see attached Photo record 1 for sea condition observed on 20 May 2016 during flood tide.)
- 4.7.2.5 Photo record 1 which shows the sea condition at southern and southeastern part of the HKBCF reclamation works during flood tide on 20 May 2016. No turbid water was observed.



- 4.7.2.6 Also, turbidity and suspended solids levels recorded at IS7, IS8, IS(Mf)9 and IS(Mf)16 were below the action and limit level. This indicates that the turbidity and suspended solids levels recorded at monitoring stations closer to the active works, were not adversely affected. As such, the exceedances recorded at SR4(N) were unlikely attribute to the active works of this Contract.
- 4.7.2.7 With referred to the photo record 2 taken at monitoring station SR4(N) on 20 May 2016 (also see attached photo record) turbid water was observed at this area. However, with referred to the photo record 1 taken at southern and southeastern part of the HKBCF reclamation works during flood tide on 20 May 2016, turbid water was not noted. Photo record 2 shows that vessel activities was observed when monitoring was conducted at monitoring location SR4(N), as confirmed with the Contractor of HY/2010/02, this Contract did not have any construction vessels working outside the site boundary of Contract HY/2010/02 on 20 May 2016 (also refer to the above layout map).
- 4.7.2.8 Photo record 2 which shows the sea condition taken on 20 May 2016 at near monitoring location SR4(N) and facing monitoring station SR4(N), turbid water was observed at this area.



- 4.7.2.9 The exceedances were likely due to local effects in the vicinity of SR4(N).
- 4.7.2.10 After investigation, there is no adequate information to conclude the recorded exceedances are related to this Contract.
- 4.7.2.11 Action taken under the action plan:
 - 1. Not applicable as SS was not measured in situ;
- 2. After considering the above mentioned investigation results, it appears that it was unlikely that the suspended solids exceedance was attributed to active construction activities of this Contract;



- 3. IEC, Contractor, ER and EPD were informed via email;
- 4. Monitoring data, all plant, equipment and Contractor's working methods were checked;
- 5. Since it is considered that the suspended solids exceedance is unlikely to be contract related, as such,

actions 5-7 under the EAP are not considered applicable.

- 4.7.2.12 Nevertheless, the Contractor was reminded to ensure provision of ongoing maintenance to the silt curtains and to carry out maintenance work once defects were found.
- 4.7.2.13 Maintenance work of the silt curtain was carried out by the Contractor on a daily basis except Sunday and public holiday.
- 4.7.2.14 The Contractor was reminded to adhere to the environmental permit requirement and undertake the necessary mitigation measures after the realignment of the perimeter silt curtain near sourtheastern corner of HKBCF Reclamation Works, as necessary.
- 4.7.3 No exceedance was recorded at all other monitoring stations in the reporting month.
- 4.7.4 The event action plan is annexed in Appendix L.

5 DOLPHIN MONITORING

5.1 Monitoring Requirements

- 5.1.1 Vessel based surveys for the Chinese White Dolphin (CWD), *Sousa chinensis,* are to be conducted by a dedicated team comprising a qualified marine mammal ecologist and experienced marine mammal observers (MMOs). The purpose of the surveys are to evaluate the impact of the HKCBF reclamation and, if deemed detrimental, to take appropriate action as per the EM&A manual.
- 5.1.2 This 'Impact Monitoring' follows several months of 'Baseline Monitoring' so similar survey methodologies have been adopted to facilitate comparisons between datasets. Further, the data collected are compatible with, and are available for, incorporation into the data set managed by the Agriculture, Fisheries and Conservation Department (AFCD) as part of Hong Kong's long term Marine Mammal Monitoring Programme.

5.2 Monitoring Equipment

Table 5.1 summarises the equipment used for the impact dolphin monitoring.

Table 5.1 Dolphin Monitoring Equipment

Equipment	Model
Commercially licensed motor vessel	15m in length with a 4.5m viewing platform
Global Positioning System (GPS) x2	Integrated into T7000
	Garmin GPS Map 76C
Computers (T7000 Tablet, Intel Atom)	Windows 7/MSO 13
	Logger
Camera	Nikon D7100 300m 2.8D fixed focus
	Nikon D90 80-400mm zoom lens
Laser Rangefinder	Range Finder Bushnell 1000m
Marine Binocular x3	Nexus 7 x 50 marine binocular with compass
	and reticules
	Fujinon 7 x 50 marine binocular with compass
	and reticules

5.3 Monitoring Frequency and Conditions

- 5.3.1 Dolphin monitoring is conducted twice per month in each survey area.
- 5.3.2 Dolphin monitoring is conducted only when visibility is good (e.g., over 1km) and the sea condition is at a Beaufort Sea State of 4 or better.
- 5.3.3 When thunder storm, black rain or typhoon warnings are in force, all survey effort is stopped.

5.4 Monitoring Methodology and Location

- 5.4.1 The impact dolphin monitoring is vessel-based and combines line-transect and photo-ID methodology. The survey follows pre-set and fixed transect lines in the two areas defined by AFCD as:
- 5.4.2 Northeast Lantau survey area; and
- 5.4.3 Northwest Lantau survey area.
- 5.4.4 The co-ordinates for the transect lines and layout map have been provided by AFCD and are shown in Table 5.2 and Figure 4.

Contract No. HY/2010/02 Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities – Reclamation Works

Monthly EM&A Report for May 2016

Table 5.2 Impact Dolphin Monitoring Line Transect Co-ordinates (Provided by AFCD)

	HK Grid	System	Long Lat	Long Lat in WGS84			
ID	Х	Y	Long	Lat			
1	804671	815456	113.870287	22.277678			
1	804671	831404	113.869975	22.421696			
2	805475	815913	113.878079	22.281820			
2	805477	826654	113.877896	22.378814			
3	806464	819435	113.887615	22.313643			
3	806464	822911	113.887550	22.345030			
4	807518	819771	113.897833	22.316697			
4	807518	829230	113.897663	22.402113			
5	808504	820220	113.907397	22.320761			
5	808504	828602	113.907252	22.396462			
6	809490	820466	113.916965	22.323003			
6	809490	825352	113.916884	22.367128			
7	810499	820880	113.926749	22.326757			
7	810499	824613	113.926688	22.360464			
8	811508	821123	113.936539	22.328966			
8	811508	824254	113.936486	22.357241			
9	812516	821303	113.946320	22.330606			
9	812516	824254	113.946279	22.357255			
10*	813525	820827	113.956112	22.326321			
10*	813525	824657	113.956066	22.360908			
11	814556	818853	113.966155	22.304858			
11	814556	820992	113.966125	22.327820			
12	815542	818807	113.975726	22.308109			
12	815542	824882	113.975647	22.362962			
13	816506	819480	113.985072	22.314192			
13	816506	824859	113.985005	22.362771			
14	817537	820220	113.995070	22.320883			
14	817537	824613	113.995018	22.360556			
15	818568	820735	114.005071	22.325550			
15	818568	824433	114.005030	22.358947			
16	819532	821420	114.014420	22.331747			
16	819532	824209	114.014390	22.356933			
17	820451	822125	114.023333	22.338117			
17	820451	823671	114.023317	22.352084			
18	821504	822371	114.033556	22.340353			
18	821504	823761	114.033544	22.352903			
19	822513	823268	114.043340	22.348458			
19	822513	824321	114.043331	22.357971			
20	823477	823402	114.052695	22.349680			
20	823477	824613	114.052686	22.360610			
21	805476	827081	113.877878	22.382668			
21	805476	830562	113.877811	22.414103			
22	806464	824033	113.887520	22.355164			
22	806464	829598	113.887416	22.405423			
23	814559	821739	113.966142	22.334574			
23	814559	824768	113.966101	22.361920			

Remarks:

(a) *Due to the presence of deployed silt curtain systems at the site boundaries of the Contract, some of the transect lines shown in Figure 5 could not be fully surveyed during the regular survey. Transect 10 is reduced from 6.4km to approximately 3.6km in length due to the HKBCF construction site. Therefore the total transect length for both NEL and NWL combined is reduced to approximately 108km.



Monthly EM&A Report for May 2016

(b) Coordinates for transect lines 1, 2, 7, 8, 9 and 11 have been updated in respect to the Proposal for Alteration of Transect Line for Dolphin Monitoring approved by EPD on 19 August 2015.

5.5 Monitoring Procedures

- 5.5.1 The study area incorporates 23 transects which are to be surveyed twice per month. Each survey day lasts approximately 9 hours.
- 5.5.2 The survey vessel departs from Tung Chung Development Pier, Tsing Yi Public Pier or the nearest safe and convenient pier.
- 5.5.3 When the vessel reaches the start of a transect line, "on effort" survey begins. Areas between transect lines and traveling to and from the study area are defined as "off effort".
- 5.5.4 The transect line is surveyed at a speed of 6-8 knots (11-14 km/hr). For the sake of safety, the speed was sometimes a bit slower to avoid collision with other vessels. During some periods, tide and current flow in the survey areas exceeds 7 knots which can affect survey speed. There are a minimum of four marine mammal observers (MMOs) present on each survey, rotating through four positions, observers (2), data recorder (1) and 'rest' (1). Rotations occur every 30 minutes or at the end of dolphin encounters. The data recorder records effort, weather and sightings data directly onto the programme Logger and is not part of the observer team. The observers search with naked eye and binoculars between 90° and 270° abeam (bow being 0°).
- 5.5.5 When a group of dolphins is sighted, position, bearing and distance data are recorded immediately onto the computer and, after a short observation, an estimate made of group size. These parameters are linked to the time-GPS-ships data which are automatically stored in the programme Logger throughout the survey period. In this manner, information on heading, position, speed, weather, effort and sightings are stored in a format suitable for use with DISTANCE software for subsequent line transect analyses.
- 5.5.6 Once the vessel leaves the transect line, it is deemed to be "off effort". The dolphins are approached with the purpose of taking high resolution pictures for proper photo-identification of individual CWD. Attempts to photograph all dolphins in the group are made. Both the left and right hand sides of the dorsal fin area of each dolphin in the group are photographed, if possible. On finishing photographing, the vessel will return to the transect line at the point of departure and "on effort" survey is resumed.
- 5.5.7 Sightings which are made while on the transect line are referred to as "on effort sightings", while not on the actual transect line are referred to as an "opportunistic sightings" (e.g. another group of dolphins is sighted while travelling back to the transect line). Only "on effort sightings" can be used in analyses which require effort or rate quantification, e.g., encounter rate per 100km searched. This is also how "on effort sightings" are treated in the baseline report. "Opportunistic sightings" provide additional information on individual habitat use and population distribution and they are noted accordingly.
- 5.5.8 As time and GPS data are automatically logged throughout the survey and are linked to sightings data input, start and end times of encounters and deviation from the transect lines are recorded and can be subsequently reviewed.

5.6 Monitoring Schedule for the Reporting Month

- 5.6.1 The schedule for dolphin monitoring in May 2016 is provided in Appendix F.
- 5.6.2 Two surveys covering both study areas were completed.

5.7 Results and Observations

5.7.1 Dolphin surveys were conducted on 12, 13, 23, 24 and 25 May 2016. A total of 217.6 km of transect line was conducted, all 217.6km was conducted during Beaufort Sea State 3 or better (favourable water conditions).



Monthly EM&A Report for May 2016

The effort summary and sightings data are shown in Tables 5.3 and 5.4, respectively. The survey efforts conducted in May 2016 are plotted in Figure 5a-b. For Table 5.3, only on-effort information is included. Transects conducted in all Beaufort Sea State are included. Compared to previous monthly reports, the whole number Beaufort Sea State scale is used so as to ease comparison with other dolphin monitoring reports.

Survey	Date	Area	Beaufort	Effort (km)	Total Distance Travelled (km)	
	05/12/2016	NWL	1	12.3		
	05/12/2016	NWL	2	50		
	05/13/2016	NWL	1	6.8		
	05/13/2016	NWL	2	3	108.6	
1	05/13/2016	NEL	1	30		
	05/13/2016	NEL	2	5.2		
	05/13/2016	NEL	3	1.3		
	05/23/2016	NWL	1	16.2		
2	05/24/2016	NWL	1	45.4		
	05/24/2016	NWL	2	7.9	100	
	05/25/2015	NWL	2	3.1	109	
	05/25/2015	NEL	1	4.4		
	05/25/2015	NEL	2	13.6		
	05/25/2015	NEL	3	18.4	217.6	
TOTAL in May 2016						

Table 5.3Impact Dolphin Monitoring Survey Effort Summary, Effort by Area and Beaufort
Sea State

*Remark: Surveys conduct under Beaufort Sea State 3 or below are considered as under favourable condition.

Table 5.4 Impact Dolphin Monitoring Survey Details May 2016

Date	Location	No. Sightings "on effort"	No. Sightings "opportunistic"
	NWL	1	0
05/12/2016	NEL	0	0
	NWL	0	0
05/13/2016	NEL	0	0
	NWL/WL	1	7*
05/23/2016	NEL	0	0
	NWL	2	0
05/24/2016	NEL	0	0
	NWL	0	0
05/25/2016	NEL	0	0
	TOTAL in MAY 2016	4	7

* Group of dolphin was sighted at WL area while vessel based dolphin monitoring was conducted in NWL

Table 5.5	The Encounter Rate of Number of Dolphin Sightings & Total Number of Dolphins
	per Area^

Encounter Rate of Number of Dolphin Sightings (STG) [*]							
Date	NEL Track (km)	NWL Track (km)	NEL Sightings	NWL Sightings	NEL Encounter Rate	NWL Encounter Rate	
12 and 13 May 16	36.5	72.1	0	1	0.0	1.4	
23, 24 and 25 May 16 Encounter Rate of To	36.4 tal Number o	72.6 of Dolphin	0 s (ANI) ^{**}	3	0.0	4.1	
Date	NEL Track (km)	NWL Track (km)	NEL Dolphins	NWL Dolphins	NEL Encounter Rate	NWL Encounter Rate	
12 and 13 May 16	36.5	72.1	0	2	0.0	2.8	
23, 24 and 25 May 16	36.4	72.6	0	12	0.0	16.5	

* Encounter Rate of Number of Dolphin Sightings (STG) presents encounter rates in terms of groups per 100km.

** Encounter Rate of Total Number of Dolphins (ANI) presents encounter rates in terms of individuals per 100km. And the encounter rate is not corrected for individuals, calculation may represent double counting.

[^]The table is made only for reference to the quarterly STG & ANI, which were adopted for the Event & Action Plan.

- 5.7.2 A total of eleven sightings were made, four "on effort" and seven "opportunistic". The seven opportunistic sightings were located in waters adjacent to NWL, from where they were observed, and are discussed in a separate paragraph below. Of the "on effort" sightings, one was recorded on 12 May 2016, one on 23 May 2016 and two on 24 May 2016. The group sighted on the 12 May 2016 contained two individuals and they were travelling. On the 23 May 2016, the "on effort" group contained eight individuals who were actively avoiding the survey vessel, categorised as 'Other". On the 24 May 2016, two groups were sighted and contained three and one individual(s), respectively. The first group sighted was engaged in milling behavior, categorised as 'other' and the second group was travelling.
- 5.7.3 On 23 May 2016, an opportunistic sightings was noted from NWL but was located in adjacent waters. This has occurred on several previous occasions during the course of impact monitoring. This particular encounter is unusual and warrants discussion as it comprised one of the largest grouping of dolphins sighted since impact monitoring began and, indeed, is an unusually large number of dolphins for this population in general. When there is much concern over the apparent displacement of dolphins outside of Hong Kong at this time, it is important to note that several identified dolphins were observed during this encounter. Also, each discrete sub-group of dolphins was within eyesight of adjacent sub-groups and extended some 3 km along the coast of west Lantau. The group size as defined in the quarterly EM&A reports of this Contract was used to divide this aggregation which resulted in division into seven groups. It was noted, throughout the course of photographing these groups, that the same individuals were sometimes photographed in different groups. The total number of dolphins from discrete counts of each group was 30 and each group was engaged in multiple behaviours and/or travelling. Detailed analyses of photo-ID data will be presented in the June 2016 monthly report.
- 5.7.4 One group sighted on 23 May 2016 contained a new born calf. No attempt was made to approach this group in view of the displayed avoidance behavior and presence of the calf.
- 5.7.5 For dolphin monitoring, one (1) limit level exceedance is recorded. The Investigation is undergoing and investigation results will be reported in quarterly report (March May 2016).
- 5.7.6 One individual was resighted in April 2016; HZMB 022. This individual was first identified in 2012 and has been sighted on 13 different days in total and always while on survey in NWL. Images and resightings data are included in Appendix K.



5.7.7 Noteworthy Observation¹:

- 5.7.7.1 When impact monitoring was conducted at the southern parts of transect lines 1 & 2, the view of the area was partially blocked by the working vessels and fixed structures which do not belong to HKBCF Reclamation Works. The number of fixed structures has increased and in many areas, it is no longer possible to pass between them by ship. And the number of working vessels appears to have decreased, it is considered that they will temporarily affect survey protocol, survey data collection, dolphin movement, dolphin habitat use and dolphin behaviour, whereas the fixed structures will continuously affect survey protocol, survey data collection, dolphin behaviour.
- 5.7.7.2 The HKBCF and adjoining "Southern Landfall" Projects effected lines 11 and 12. The view of the area was partially blocked by the working vessels and in water structures. As the working vessels will move as construction progresses, they will cause temporary effects to survey protocol and survey data collection. In time, the fixed structures will affect all survey protocols and dolphin ecology in the long term. As construction is ongoing, it is not yet known if these fixed structures will affect the transect lines passage. It is noted that fewer vessels occupy this area compared to previous months
- 5.7.7.3 Travel to the northern end of line 10 and line 23 were slightly impeded by anchorages. After checking with the Contractor, there are no construction vessels of this Contract that are required to anchor at northern ends of lines 10 and 23 during this reporting period, as such they are unlikely to be related to this Contract. As there are variable numbers of ships in this anchorage through time, it is considered that this could temporarily affect survey protocol, survey data collection and dolphin habitat use.
- 5.7.7.4 Anchored fishing vessels were noted on lines 1 and 21. In previous encounters, dolphins were seen feeding in association with these vessels despite them not being active. This may influence both dolphin behaviour and the view of the area.
- 5.7.7.5 Several single anchored vessels were noted on lines 2 and 4 which caused the monitoring vessel to divert slightly from the trackline or blocked the transect area view. It is unknown who these vessels belong to or even if they were Project related. After checking with the Contractor, there are no transboundary vessels that are required to anchor on lines 2, and 4 during this reporting period, as such they are unlikely to be related to this Contract. As there are variable numbers of ships in anchor on lines 2 and 4 through time, it is considered that this could temporarily affect survey protocol, survey data collection and dolphin habitat use.
- 5.7.7.6 The survey effort log notes the areas in which the visibility is limited or the survey is affected so that these can be accounted for in any subsequent analyses. Some of these obstructions will become permanent and some will be temporary as the HZMB is built and other projects progress. It is advised that the impact monitoring surveys should be completed as close to the predefined lines as possible (as per Figure 4 of this report).
- 5.7.7.7 The above noteworthy observations are largely a result of multiple and on-going infrastructure projects within the Lantau area. No amendment to EM&A protocols can negate the effects of these projects, e.g., it is a highly dynamic environment and viewing conditions may alter every survey (sometimes within surveys) and most of the survey area is affected, to some degree, by marine construction works. Instead, survey data analyses should incorporate any noteworthy observations which may affect either data collection or dolphin distribution and behavioural changes. The above mentioned activities recorded during boat survey will not affect implementation of the EM&A Programme provided appropriate data analyses are conducted.
- 5.7.8 The event action plan is annexed in Appendix L.



¹ A noteworthy observation is to show that either the conduct of the surveys themselves is affected, i.e., the noted vessel or works impedes the progress or view of the survey platform. In addition, the vessel or construction works may be different or additional to that observed previously and further, are of such a nature that they are a likely to create an impact on the movement or behaviour of the subject of the impact survey, in this case, the dolphins.

6 ENVIRONMENTAL SITE INSPECTION AND AUDIT

6.1 Site Inspection

- 6.1.1 Site Inspections were carried out on a weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures for the Contract. In the reporting month, 4 site inspections were carried out on 5, 12, 19 and 26 May 2016.
- 6.1.2 Particular observations during the site inspections are described below:

Air Quality

6.1.3 The Contractor was reminded to affix a proper exception/approval label to the power pack at Portion E2 under NRMM regulation. (Follow up)

Noise

6.1.4 No relevant adverse impact was observed in the reporting month.

Water Quality

- 6.1.5 Turbid water was observed at Portion D, it is noted that the source of turbid water was originated from the wheel washing facility at Portion D managed by another Contract. The Contractor of Contract HY/2010/02 was advised to liaise with another Contract so that recurrence of the situation could be prevented.
- 6.1.6 It was observed that the overlapping of the perimeter silt curtain maybe insufficient at the northeast access. The Contractor was advised to provide sufficient length of overlapping at the northeast marine access. The Contractor subsequently extended to overlapping at the northeast marine access. (Closed)

Chemical and Waste Management

- 6.1.7 The Contractor was reminded to dispose of general refuse regularly at Portion E2 properly. (Follow up)
- 6.1.8 The Contractor was reminded to provide drip tray for the moveable light generator at Portion E2. (Follow up)
- 6.1.9 Oil drum was observed without drip tray. The Contractor was reminded to provide drip tray to oil drum. The Contractor subsequently removed from oil drum. (Closed)

Landscape and Visual Impact

6.1.10 No relevant adverse impact was observed in the reporting month.

Others

6.1.11 No relevant adverse impact was observed in the reporting month.

6.2 Advice on the Solid and Liquid Waste Management Status

- 6.2.1 The Contractor had registered as a chemical waste producer for this Project. Receptacles were available for general refuse collection and sorting.
- 6.2.2 As advised by the Contractor, 24,860m³ of inert C&D material was reused in other projects. 93,810m³ of surplus surcharge was exported to Macau during the reporting month. 45,272.3 m³ of fill material were imported for the Contract use in the reporting period. 71.5m³ of general refuse were generated and disposed of in the reporting period. Monthly summary of waste flow table is detailed in Appendix M.
- 6.2.3 The Contractor is advised to properly maintain on site C&D materials and wastes storage, collection, sorting and recording system, dispose of C&D materials and wastes at designated ground and maximize reuse / recycle of C&D materials and wastes. The Contractor is reminded to properly maintain the site tidiness and dispose of the wastes accumulated on site regularly and properly.
- 6.2.4 The Contractor is reminded that chemical waste should be properly treated and stored temporarily in designated chemical waste storage area on site in accordance with the Code of Practice on the Packaging, Labeling and Storage of Chemical Wastes.
- 6.2.5 The treated marine sediment and/or treated excavated filling material specified by Contract no. HY/2013/01 has been received as public fill for Contract no. HY/2010/02's reclamation filling works since January 2015. As informed by the Contractor in the reporting month, such site arrangement has been discontinued since 24 February 2016.
- 6.2.6 After checking with the Contractor, surcharge material was removed off site to Macau from 27 April 2016 and it is continued in the reporting month. Surplus surcharge was exported to Macau during the reporting month. The Contractor was reminded to ensure consistency in quantities in case of any C&D material disposed off-site and/or no surcharge material removed off site.

6.3 Environmental Licenses and Permits

6.3.1 The environmental licenses and permits for the Contract and valid in the reporting month is summarized in Table 6.1.

Table 6.1	Summary of Environmental Licensing and Permit Status

Statutory Reference	License/ Permit	License or Permit No.	Valid Period		License/ Permit	Remarks	
			From	То	Holder		
EIAO	Environmental Permit	EP- 353/2009/K	11/04/2016	N/A	HyD	Hong Kong – Zhuhai – Macao Bridge Hong Kong Boundary Crossing Facilities	
		EP- 354/2009/D	13/03/2015	N/A		Tuen Mun – Chek Lap Kok Link (TMCLKL Southern Landfall Reclamation only)	
APCO	NA notification		30/12/2011		CHEC	Works Area WA2 and WA3	
APCO	NA notification		25/07/2014		CHEC	Works Area WA1	
WDO	Chemical Waste Producer Registration	5213-951- C1186-30	28/10/2015	N/A	CHEC	Chemical waste produced in Contract HY/2010/02 (WA1)	
WDO	Chemical Waste Producer Registration	5213-951- C1186-21	30/3/2012	N/A	CHEC	Chemical waste produced in Contract HY/2010/02 (WA2)	
WDO	Chemical Waste Producer Registration	5213-839- C3750-02	13/09/2012		CHEC	Registration as Chemical Waste Producer at TKO 137(FB)	
WDO	Billing Account for Disposal of Construction Waste	7014181	05/12/2011	N/A	CHEC	Waste disposal in Contract HY/2010/02	
NCO	Construction Noise Permit	GW- RE0385-16	19/04/2016	14/10/2016	CHEC	Section of TKO Fill Bank under Contract HY/2010/02	
NCO	Construction Noise Permit	GW- RS0095-16	05/02/2016	03/08/2016	CHEC	Reclamation Works in Contract HY/2010/02	

6.4 Implementation Status of Environmental Mitigation Measures

- 6.4.1 In response to the site audit findings, the Contractors carried out corrective actions.
- 6.4.2 A summary of the Implementation Schedule of Environmental Mitigation Measures (EMIS) is presented in Appendix C. Most of the necessary mitigation measures were implemented properly.
- 6.4.3 Training of marine travel route for marine vessels operator was given to relevant staff and relevant records were kept properly.
- 6.4.4 Regarding the implementation of dolphin monitoring and protection measures (i.e. implementation of Dolphin Watching Plan, Dolphin Exclusion Zone and Silt Curtain integrity Check), regular checking were conducted by the experienced MMOs within the works area to ensure no dolphin was trapped by the enclosed silt curtain systems. Any dolphin spotted within the enclosed silt curtain systems was reported and recorded. Relevant procedures were followed and measures were well implemented. Silt curtain systems were also inspected timely in accordance to the submitted plan. All inspection records were kept properly.
- 6.4.5 Acoustic decoupling measures on noisy plants on construction vessels were checked regularly and the Contractor was reminded to ensure provision of ongoing maintenance to noisy plants and to carry out improvement work once insufficient acoustic decoupling measures were found.
- 6.4.6 Frequency of watering per day on exposed soil was checked; with reference to the record provided by the Contract, watering was conducted at least 8 times per day on reclaimed land. The frequency of watering is the mainly refer to water truck. Sprinklers are only served to strengthen dust control measure for busy traffic at the entrance of Portion D. As informed by the Contractor, during the malfunction period of sprinkler, water truck will enhance watering at such area. The Contractor was reminded to ensure provision of watering of at least 8 times per day on all exposed soil within the Contract site and associated works areas throughout the construction phase.
- 6.4.7 After review, 1 floating grout production was in operation at any time in May 2016 for Contract No.HY/2010/02. Condition 3.26A of EP-353/2009/K for Contract No.HY/2010/02 is complied with during the reporting month.
- 6.4.8 As informed by the Contractor, the perimeter silt curtain near Portion B of HKBCF has been arranged on 3 February 2016. A notification on the concerned site arrangement of the perimeter silt curtain of Contract HY/2010/02 was sent to IEC/ENPO by the ET for their review on 8 March 2016, IEC/ENPO issued comments on 10 March 2016 and the notification of realignment of perimeter silt curtain is under ET's further review in the reporting in the reporting month. The concerned notification on the concerned site arrangement of the perimeter silt curtain of Contract HY/2010/02 will be sent to the Authority once the review is completed.
- 6.4.9 As informed by the Contractor on 16 February 2016, a MMWG meeting was held among the representatives of Airport Authority (AA), Arup (RSS of Contract HY/2010/02) and CHEC (the Contractor of Contract HY/2010/02) on 15 February 2016. In the meeting, it was mentioned that in order to facilitate the site investigation (SI) works of the AA's contractor in the vicinity of the concerned location, removal of the concerned silt curtain at the NE Cooling Water Intake of Hong Kong International Airport was discussed. The environmental aspect of the proposed removal of the silt curtain at NE Airport Cooling Water Intake (WSR25) was reviewed by the ET and no adverse comment was received from IEC/ENPO on 21 March 2016. As informed by the Contractor, the silt curtain at NE Airport Cooling Water Intake has been removed on 10 May 2016.
- 6.4.10 Further to our letter (ET's letter's ref.: 60249820/rmky16033001) dated 30/3/2016 regarding the notification of silt curtain removal programme and arrangement, as informed by RSS on 18 May 2016, the Contractor provided an updated programme on 17 May 2016 to indicate the current site situation. According to CHEC's latest removal programme, stage 1 (southern section of Portion B) removal work is scheduled to be carried out in mid-June 2016 while the associated section of the seawall should have been substantially completed. Tentative completion dates for the subsequent stages have also been updated, while the overall phasing arrangement has not changed. A notification letter was being prepared in the reporting month and should be sent to IEC/ENPO in the next reporting month to inform them that the removal of perimeter silt curtain of Stages 1, 2, 3 and 4 has been rescheduled and



Monthly EM&A Report for May 2016

removal works will be commenced tentatively on 15 June 2016, 18 August 2016, 7 November 2016 and 1 December 2016 respectively subject to the site progress. The arrangement is currently under ET's review in the reporting month.

6.5 Summary of Exceedances of the Environmental Quality Performance Limit

- 6.5.1 For impact air quality monitoring, no exceedance was recorded at all monitoring stations in the reporting month.
- 6.5.2 For construction noise, no exceedance was recorded at all monitoring stations in the reporting month.
- 6.5.3 For impact water quality monitoring, limit Level Exceedance of Suspended Solids at water quality monitoring station SR4(N) was measured on 20 May 2016 during flood tide. After investigation, there is no adequate information to conclude the recorded exceedances are related to this Contract. No exceedance was recorded at all other monitoring stations in the reporting month.
- 6.5.4 For dolphin monitoring, one (1) limit level exceedance is recorded. The Investigation is undergoing and investigation results will be reported in quarterly report (March May 2016)
- 6.5.5 Environmental site inspection was carried out 4 times in May 2016. Recommendations on remedial actions were given to the Contractors for the deficiencies identified during the site audits.
- 6.5.6 Cumulative statistics on exceedance is provided in Appendix N.

6.6 Summary of Complaints, Notification of Summons and Successful Prosecutions

- 6.6.1 The Environmental Complaint Handling Procedure is annexed in Figure 6.
- 6.6.2 No complaint, notification of summons or prosecution was received in the reporting period.
- 6.6.3 Statistics on complaints, notifications of summons and successful prosecutions are summarized in Appendix N.

7 FUTURE KEY ISSUES

7.1 Construction Programme for the Coming Months

7.1.1 As informed by the Contractor, the major works for the Contract in June and July 2016 will be *:-

Marine-base

- Sloping Seawalls
- Rubble Mound Seawall
- Re-alignment and maintenance of silt curtain

Land-base

- Surcharge removal & laying
- Deep Cement Mixing
- Installations of Precast Culverts except sloping outfalls
- Maintenance works of Site Office at Works Area WA2
- Maintenance works of Public Works Regional Laboratory at Works Area WA3
- Maintenance of Temporary Marine Access at Works Area WA2

*Construction activities in June and July 2016 will be changed subject to works progress.

7.2 Key Issues for the Coming Month

- 7.2.1 Key issues to be considered in the coming months:-
 - Site runoff should be properly collected and treated prior to discharge;
 - Regular review and maintenance of silt curtain systems, drainage systems and desilting facilities;
 - Exposed surfaces/soil stockpiles should be properly treated to avoid generation of silty surface runoff during rainstorm;
 - Regular review and maintenance of wheel washing facilities provided at all site entrances/exits;
 - Conduct regular inspection of various working machineries and vessels within works areas to avoid any dark smoke emission;
 - Suppress dust generated from work processes with use of bagged cements, earth movements, excavation activities, exposed surfaces/soil stockpiles and haul road traffic;
 - Quieter powered mechanical equipment should be used;
 - Provision of proper and effective noise control measures for operating equipment and machinery onsite, such as erection of movable noise barriers or enclosure for noisy plants;
 - Closely check and replace the sound insulation materials regularly;
 - Better scheduling of construction works to minimize noise nuisance;
 - Properly store and label oil drums and chemical containers placed on site;
 - Proper chemicals, chemical wastes and wastes management;
 - Maintenance works should be carried out within roofed, paved and confined areas;
 - Collection and segregation of construction waste and general refuse on land and in the sea should be carried out properly and regularly; and
 - Proper protection and regular inspection of existing trees, transplanted/retained trees.
 - Control night-time lighting and glare by hooding all lights.
 - Regular review and provide maintenance to dust control measures such as sprinkler system.

7.3 Monitoring Schedule for the Coming Month

7.3.1 The tentative schedule for environmental monitoring in June 2016 is provided in Appendix F.

8 CONCLUSIONS AND RECOMMENDATIONS

8.1 Conclusions

- 8.1.1 The construction phase and EM&A programme of the Project commenced on 12 March 2012.
- 8.1.2 For impact air quality monitoring, no exceedance was recorded at all monitoring stations in the reporting month.
- 8.1.3 For construction noise, no exceedance was recorded at all monitoring stations in the reporting month.
- 8.1.4 For impact water quality monitoring, limit Level Exceedance of Suspended Solids at water quality monitoring station SR4(N) was measured on 20 May 2016 during flood tide. After investigation, there is no adequate information to conclude the recorded exceedances are related to this Contract. No exceedance was recorded at all other monitoring stations in the reporting month.
- 8.1.5 A total of eleven sightings were made, four "on effort" and seven "opportunistic". The seven opportunistic sightings were located in waters adjacent to NWL, from where they were observed, and are discussed in a separate paragraph below. Of the "on effort" sightings, one was recorded on 12 May 2016, one on 23 May 2016 and two on 24 May 2016. The group sighted on the 12 May 2016 contained two individuals and they were travelling. On the 23 May 2016, the "on effort" group contained eight individuals who were actively avoiding the survey vessel, categorised as 'Other". On the 24 May 2016, two groups were sighted and contained three and one individual(s), respectively. The first group sighted was engaged in milling behavior, categorised as 'other' and the second group was travelling.
- 8.1.6 On 23 May 2016, an opportunistic sightings was noted from NWL but was located in adjacent waters. This has occurred on several previous occasions during the course of impact monitoring. This particular encounter is unusual and warrants discussion as it comprised one of the largest grouping of dolphins sighted since impact monitoring began and, indeed, is an unusually large number of dolphins for this population in general. When there is much concern over the apparent displacement of dolphins outside of Hong Kong at this time, it is important to note that several identified dolphins were observed during this encounter. Also, each discrete sub-group of dolphins was within eyesight of adjacent sub-groups and extended some 3 km along the coast of west Lantau. The group size as defined in the quarterly reports of this project was used to divide this aggregation which resulted in division into seven groups. It was noted, throughout the course of photographing these groups, that the same individuals were sometimes photographed in different groups. The total number of dolphins from discrete counts of each group was 30 and each group was engaged in multiple behaviours and/or travelling. Detailed analyses of photo-ID data will be presented in the June 2016 monthly report.
- 8.1.7 For dolphin monitoring, one (1) limit level exceedance is recorded. The Investigation is undergoing and investigation results will be reported in quarterly report (March– May 2016)
- 8.1.8 No complaint, notification of summons or prosecution was received in the reporting period.
- 8.1.9 Environmental site inspection was carried out 4 times in May 2016. Recommendations on remedial actions were given to the Contractors for the deficiencies identified during the site audits.

8.2 Recommendations

8.2.1 According to the environmental site inspections performed in the reporting month, the following recommendations were provided:

Air Quality Impact

- All working plants and vessels on site should be regularly inspected and properly maintained to avoid dark smoke emission.
- All vehicles should be washed to remove any dusty materials before leaving the site.
- Haul roads should be sufficiently dampened to minimize fugitive dust generation.
- Wheel washing facilities should be properly maintained and reviewed to ensure properly functioning.
- Temporary exposed slopes and open stockpiles should be properly covered.
- Enclosure should be erected for cement debagging, batching and mixing operations.
- Water spraying should be provided to suppress fugitive dust for any dusty construction activity.
- Regular review and provide maintenance to dust control measures such as sprinkler system.

Construction Noise Impact

- Quieter powered mechanical equipment should be used as far as possible.
- Noisy operations should be oriented to a direction away from sensitive receivers as far as possible.
- Proper and effective noise control measures for operating equipment and machinery on-site should be provided, such as erection of movable noise barriers, enclosure for noisy plants or enhancement works to provide sufficient acoustic decoupling measure(s). Closely check and replace the sound insulation materials regularly
- Vessels and equipment operating should be checked regularly and properly maintained.
- Noise Emission Label (NEL) shall be affixed to the air compressor and hand-held breaker operating within works area.
- Acoustic decoupling measures should be properly implemented for all existing and incoming construction vessels with continuous and regularly checking to ensure effective implementation of acoustic decoupling measures.

Water Quality Impact

- Regular review and maintenance of silt curtain systems, drainage systems and desilting facilities in order to make sure they are functioning effectively.
- Construction of seawall should be completed as early as possible.
- Regular inspect and review the loading process from barges to avoid splashing of material.
- Silt, debris and leaves accumulated at public drains, wheel washing bays and perimeter uchannels and desilting facilities should be cleaned up regularly.
- Silty effluent should be treated/ desilted before discharged. Untreated effluent should be prevented from entering public drain channel.
- Proper drainage channels/bunds should be provided at the site boundaries to collect/intercept the surface run-off from works areas.
- Exposed slopes and stockpiles should be covered up properly during rainstorm.



Chemical and Waste Management

- All types of wastes, both on land and floating in the sea, should be collected and sorted properly and disposed of timely and properly. They should be properly stored in designated areas within works areas temporarily.
- All chemical containers, batteries and oil drums should be properly stored and labelled.
- All plants and vehicles on site should be properly maintained to prevent oil leakage. Proper measures, like drip trays and/or bundings, should be provided for retaining leaked oil/chemical from plants.
- All kinds of maintenance works should be carried out within roofed, paved and confined areas.
- All drain holes of the drip trays utilized within works areas should be properly plugged to avoid any oil and chemical waste leakage.
- Oil stains on soil surface, accumulated oil mixture and empty chemical containers should be cleared and disposed of as chemical waste.
- Regular review should be conducted for working barges and patrol boats to ensure sufficient measures and spill control kits were provided on working barges and patrol boats to avoid any spreading of leaked oil/chemicals.

Landscape and Visual Impact

- All existing, retained/transplanted trees at the works areas should be properly fenced off and regularly inspected.
- Control night-time lighting and glare by hooding all lights.

Appendix N

Cumulative Statistics on Exceedances, Complaints, Notifications of Summons and Successful Prosecutions

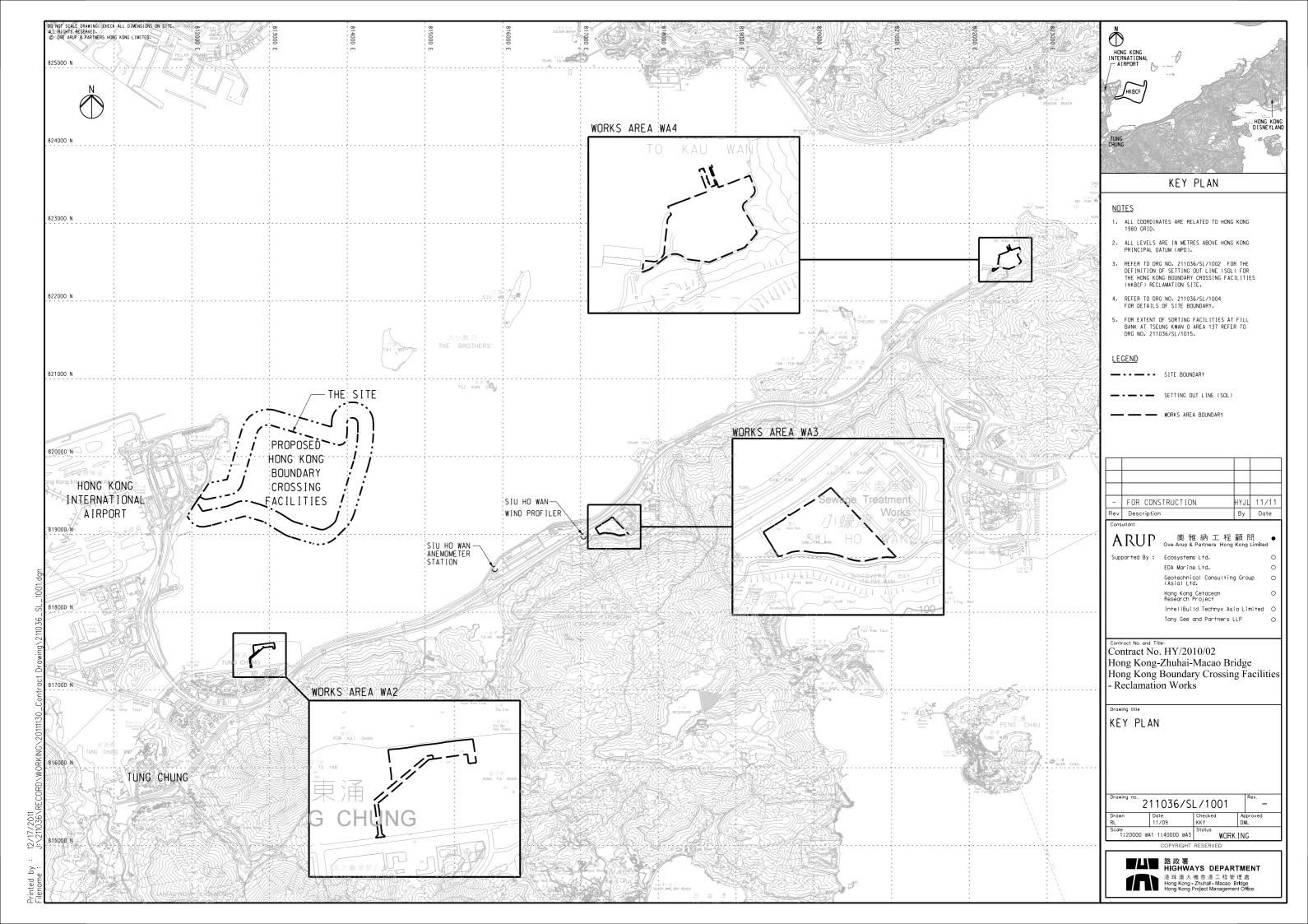
Cumulative statistics on Exceedances

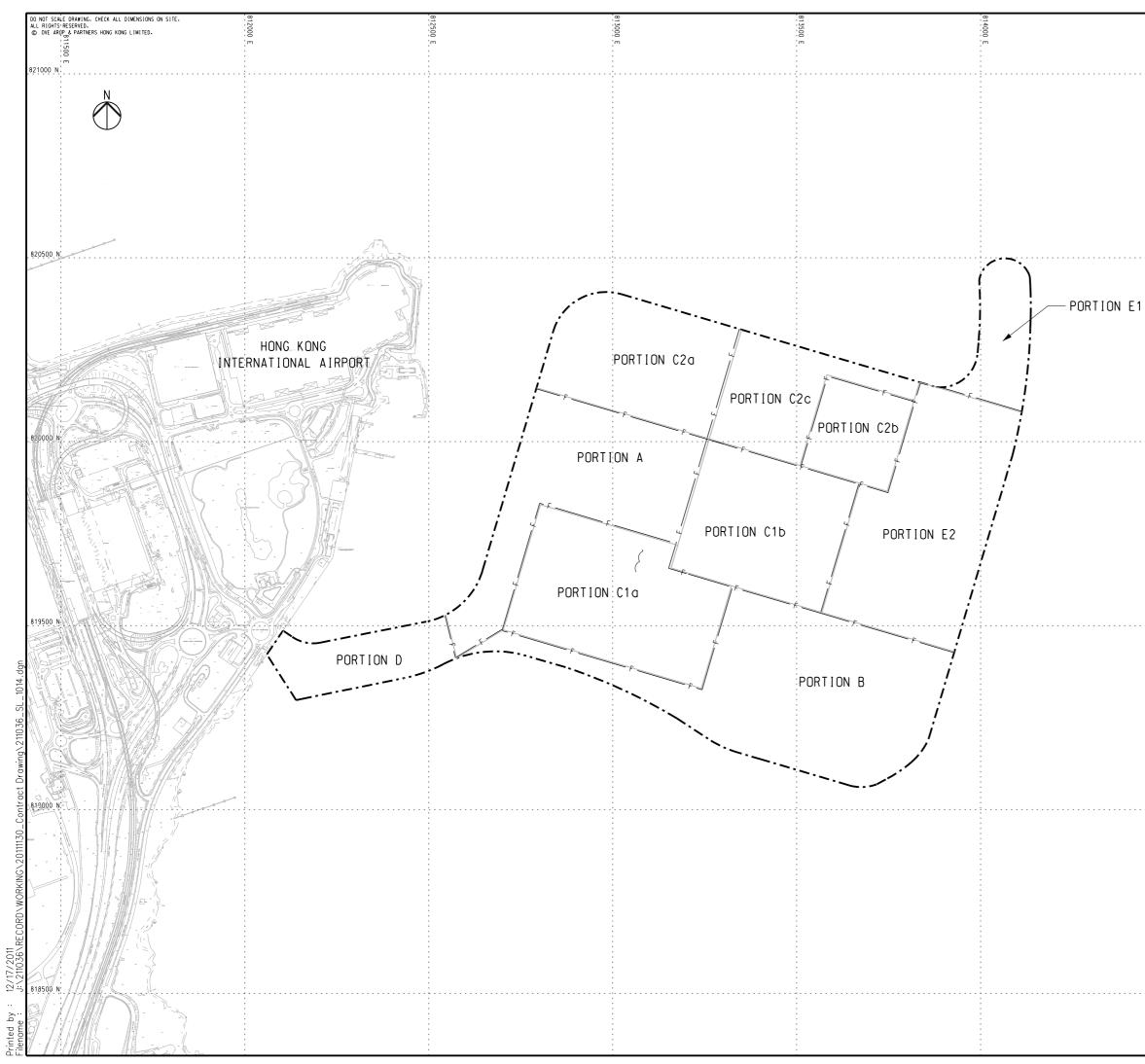
		Total no. recorded in this month	Total no. recorded since project commencement
1-Hour TSP	Action	-	-
	Limit	-	-
24-Hour TSP	Action	-	-
	Limit	-	-
Noise	Action	-	-
	Limit	-	-
Water Quality	Action	-	2
	Limit	-	3
Dolphin Monitoring	Action	-	-
	Limit	-	-

Remarks: Exceedances which are not project-related are not presented in this table.

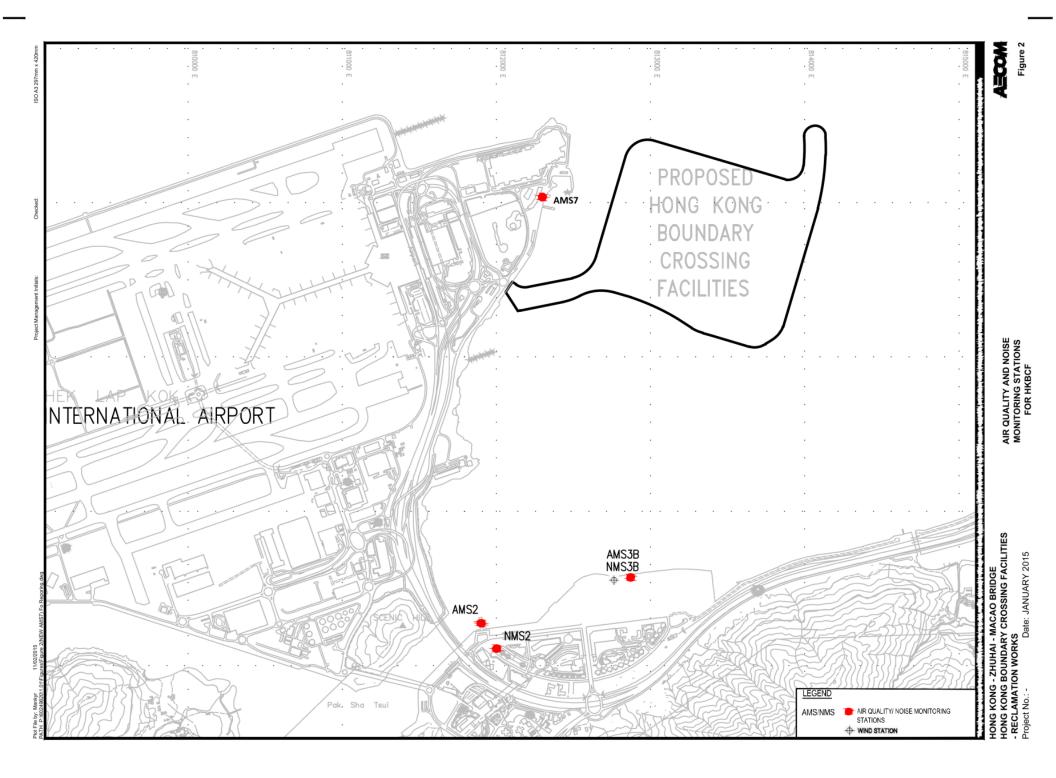
Cumulative statistics on Complaints, Notifications of Summons and Successful Prosecutions

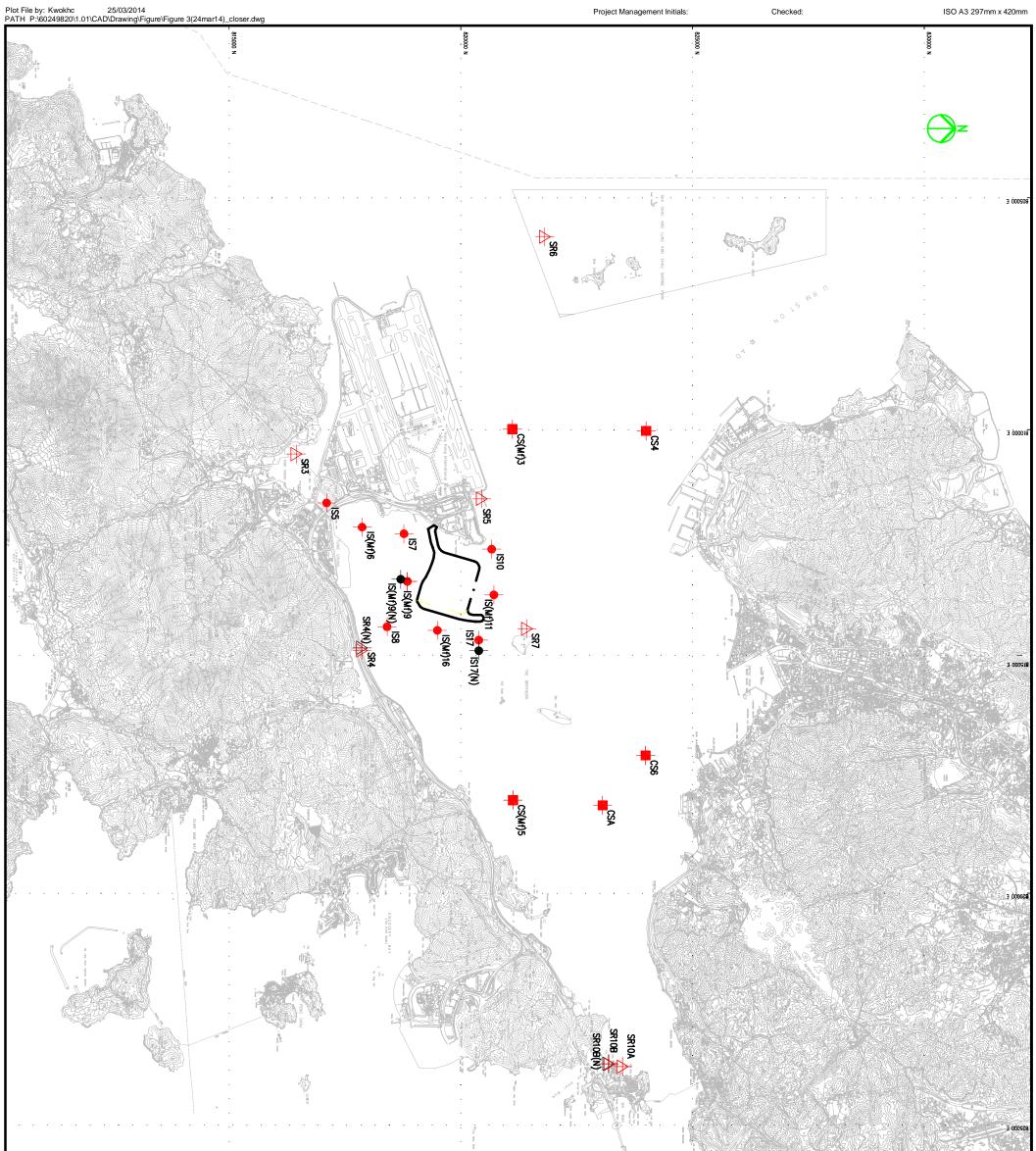
	Date Received	Subject	Status	Total no. received in this month	Total no. received since project commencement
Environmental complaints	-	-	-	-	35
Notification of summons	-	-	-	-	2
Successful Prosecutions	-	-	-	-	2





	\land
	HONG KONG INTERNATIONAL
	AIRPORT
	нквсг
	HONG KONG DISNEYLAND
	TUNG CHUNG
	KEY PLAN
	NOTES
	 FOR LEGENDS AND NOTES FOR CHAIN LINK FENCE AND GATE REFER TO DRG ND. 211036/SL/1013.
	 THE ERECTION OF CHAIN LINK FENCE AND GATES SHALL BE COMPLETED BY THE HANDOVER DATE OF
	EACH PORTION OF SITE, OR AS INSTRUCTED BY THE ENGINEER.
	 FOR SETTING OUT COORDINATES OF DIFFERENT PORTIONS OF SITE REFER TO DRG NO. 211036/SL/1003.
	 ACCESS POINTS BETWEEN PORTIONS SHALL BE PROVIDED BY THE CONTRACTOR, AND THE LOCATIONS SHALL BE AGREED WITH THE ENGINEER ON SITE.
	 FOR HOARDING AND FENCE AT FILL BANK AT TSEUNG KWAN O AREA 137 REFER TO DRG NO. 211036/SL/1015.
	LEGEND
	SETTING OUT LINE (SOL)
	WORKS AREA BOUNDARY
	PORTIONS BOUNDARY LINE
	- FOR CONSTRUCTION HYJL 11/11 Rev Description By Date
	Consultant
	ARUP 奥雅納工程顧問 ● Ove Arup & Partners Hong Kong Limited
	Supported By: Ecosystems Ltd. O EDA Marine Ltd. O
	Geotechnical Consulting Group O (Asia) Ltd.
	Hong Kong Cetacean O Research Project
	InteliBuild Technyx Asia Limited O Tony Gee and Partners LLP O
	Contract No. and Title: Contract No. HY/2010/02
	Hong Kong-Zhuhai-Macao Bridge
	Hong Kong Boundary Crossing Facilities - Reclamation Works
	Drawing title
	WORKS AREA LAYOUT
	AND HORADING PLAN
	(SHEET 2 OF 3)
	Drawing no. Rev.
	Drawn Date Checked Approved
	RL 06/10 KKY DML Scale Status
	1:5000 @A1 1:10000 @A3 WORKING COPYRIGHT RESERVED
	■山■ 路政署 HIGHWAYS DEPARTMENT
:	港珠澳大橋香港工程管理處 Hong Kong - Zhuhal - Macao Bridge Hong Kong Project Management Office
	in grinning material





Setting out sc	Schedule	
MONITORING	CO-OR EASTING	CO-ORDINATES
IS2	811579	817106
IS(Mf)6	812101	817873
IS7	812244	818777
8SI	814251	818412
IS(Mf)9	813273	818850
IS(Mf)9(N)	813226	818708
IS10	812577	029028
IS(Mf)11	813562	820716
IS(Mf)16	814328	819497
IS17	814539	820391
IS17(N)	814767	820391
SR3	810525	816456
SR4(N)	814705	817859
SR5	811489	820455
SR6	805837	821818
SR7	814293	821431
SR10A	823741	823495
SR10B(N)	823683	823187
CS(Mf)3	686608	821117
CS(Mf)5	817990	821129
CS4	810025	824004
CS6	817028	823992
CSA	818103	823064

This drawing has been prepared for the uses of AECON's client, It may not be used, modified, reproduced or relied upon by third parties, except as agreed by AECON or as required by law. AECON accepts no responsibility, and denices any liability windsboever, to any party that uses or relies on this drawing witbut AECON's express written consent. Do not scale this document. All measurements must be obtained from the stability and denices any liability windsboever, to any party that uses or relies on this drawing witbut AECON's express written consent. Do not scale this document. All measurements must be obtained from the stability and denices any liability windsboever, to any party that uses or relies on this drawing witbut AECON's express written consent. Do not scale this document. All measurements must be obtained from the stability and there any liability windsboever, to any party that uses or relies on this drawing witbut AECON's express written consent. Do not scale this document. All measurements must be obtained from the stability and there any liability windsboever, to any party that uses or relies on this drawing witbut AECON's express written consent. Do not scale this document. All measurements must be obtained from the stability and there any liability windsboever, to any party that uses or relies on this drawing witbut AECON's express written consent. Do not scale this document.

HONG KONG - ZHUHAI - MACAO BRIDGE HONG KONG BOUNDARY CROSSING FACILITIES

- RECLAMATION WORKS

Project No.: -Date: MAR 2014

WATER QUALITY MONITORING STATION

Figure 3

IMPACT STATIONS

↓ IEGEND

ខ

CONTROL / FAR FIELD STATIONS

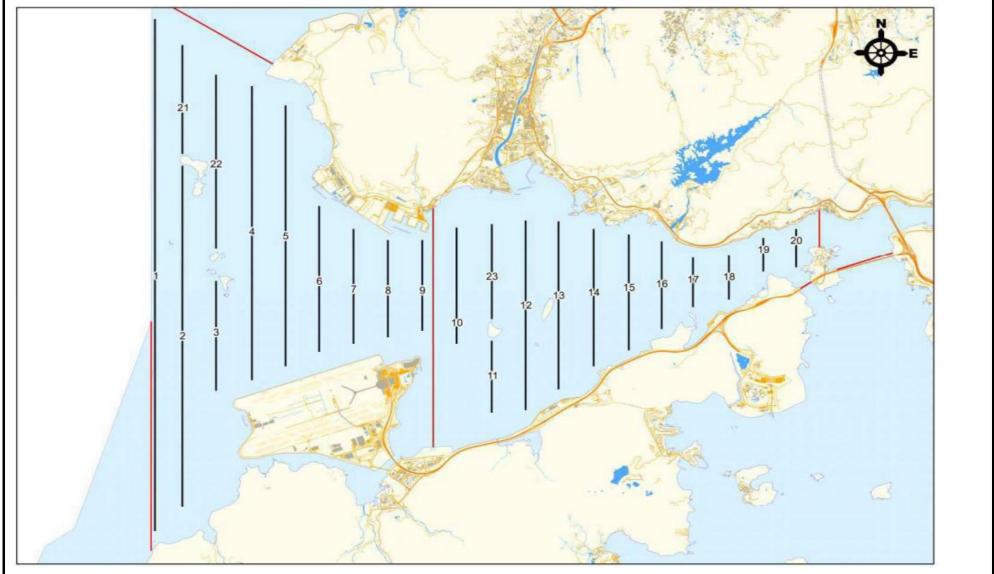
SENSITIVE RECEIVERS STATIONS

SENSITIVE RECEIVERS STATIONS (RELOCATED)

IMPACT STATIONS (RELOCATED)

\$ ₽ \$ ₽ SR -∳-





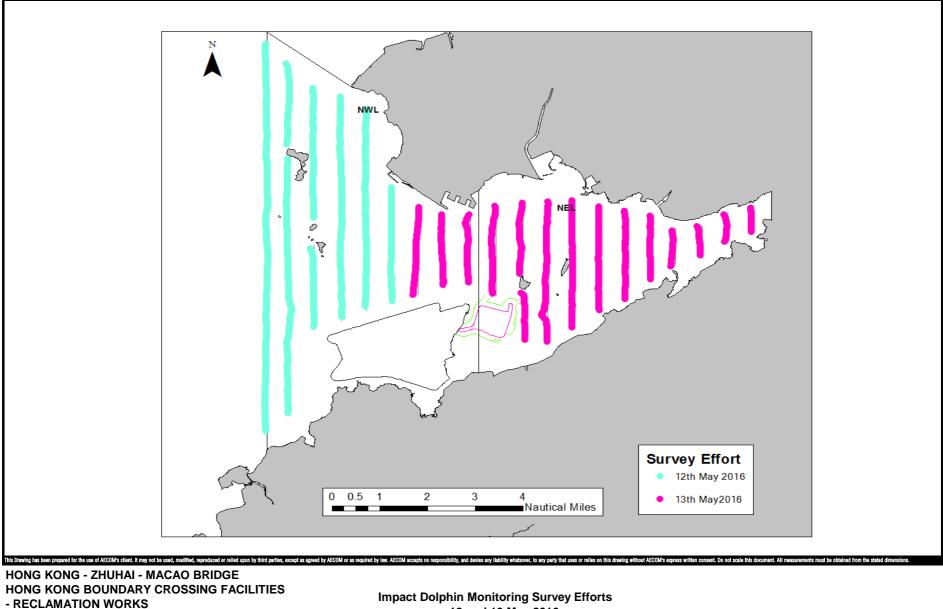
Remarks:

*Transect 10 is now 3.6km in length due to the HKBCF construction site.

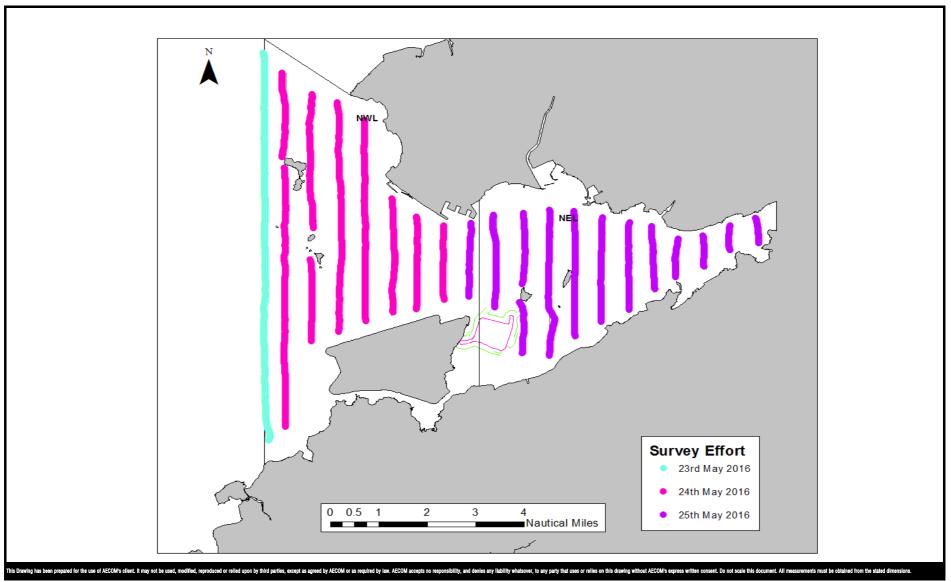
*Coordinates for transect lines 1, 2, 7, 8, 9 and 11 have been updated in respect to the Proposal for Alteration of Transect Line for Dolphin Monitoring approved by EPD on 19 August 2015. The total transect length for both NEL and NWL combined is 108km. This Drawing has been prepared for the use of AECOM's client. It may not be used, modified, reproduced or relied upon by third parties, except as agreed by AECOM or as required by law. AECOM or casepts no responsibility, and denies any liability whatsover, to any party that uses or relies on this drawing without AECOM's express written consent. Do not scale this document. All meass

Impact Dolphin Monitoring Line Transect Layout Map

ients must be obtai



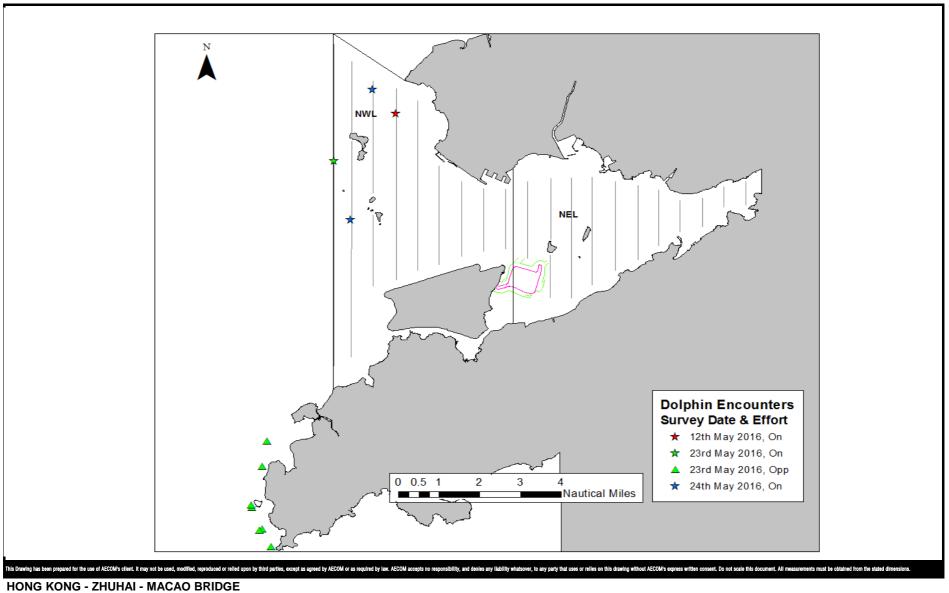
Project No.: 60249820 Date: June 2016 on 12 and 13 May 2016



HONG KONG - ZHUHAI - MACAO BRIDGE HONG KONG BOUNDARY CROSSING FACILITIES - RECLAMATION WORKS

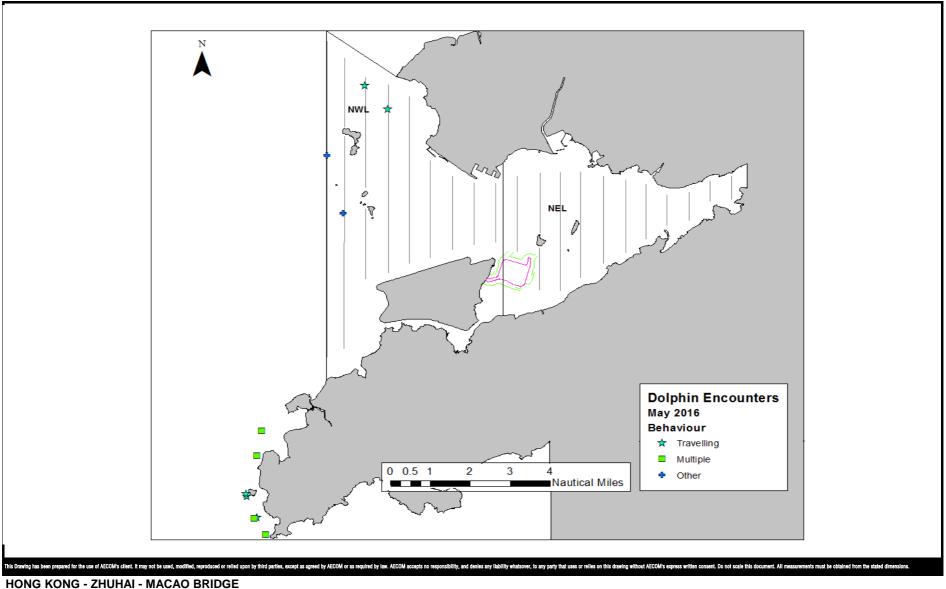
Project No.: 60249820 Date: June 2016

Impact Dolphin Monitoring Survey Efforts on 23, 24 and 25 May 2016



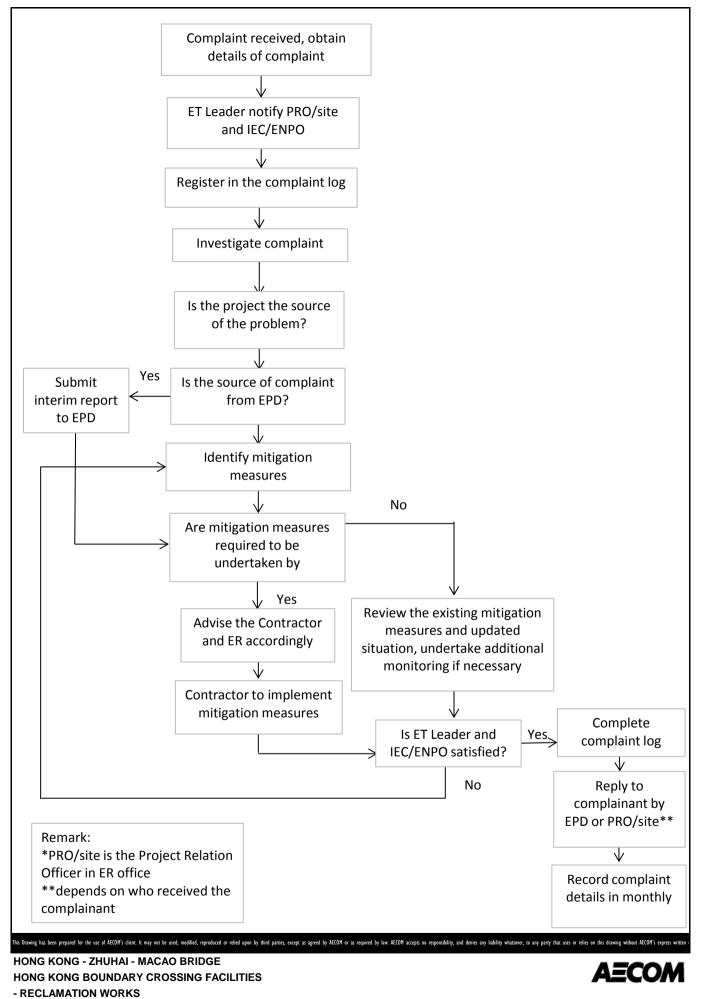
HONG KONG - ZHUHAI - MACAO BRIDGE HONG KONG BOUNDARY CROSSING FACILITIES - RECLAMATION WORKS Project No.: 60249820 Date: June 2016

Impact Dolphin Monitoring Survey Sightings in May 2016



HONG KONG - ZHUHAI - MACAO BRIDGE HONG KONG BOUNDARY CROSSING FACILITIES - RECLAMATION WORKS Project No.: 60249820 Date: June 2016

Impact Dolphin Monitoring Survey Behaviour Map in May 2016

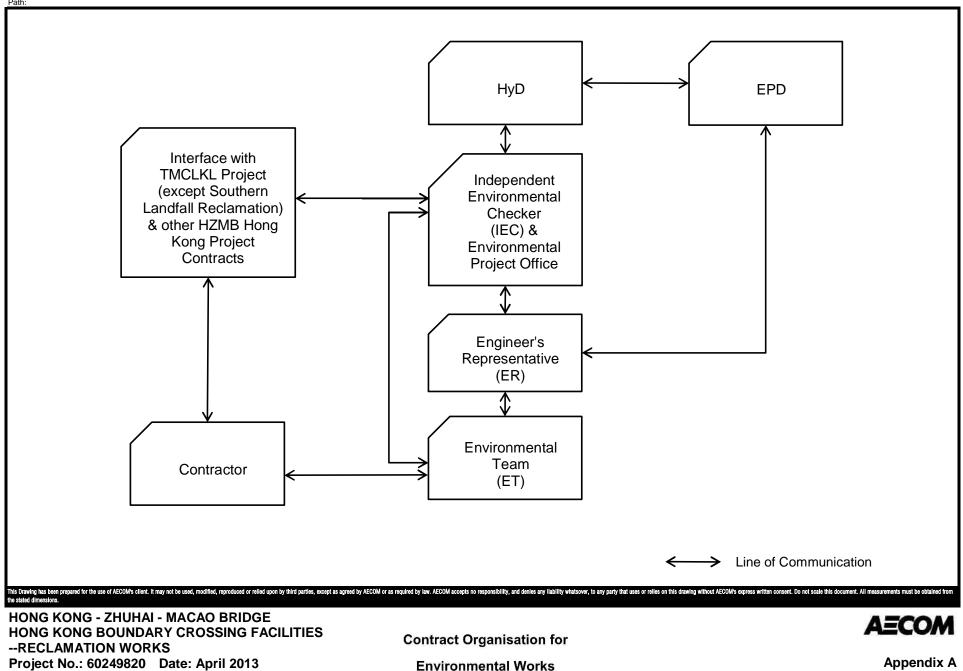


Environmental Complaint Handling Procedure



Checked:

ISO A4 210mm X 297mm



ntract No.	Hong Kong - Zhuhai - Macao Bridge	Hong Ko	<u> </u>						-			
vity ID	Activity Name	Original Start Duration	Finish	Total Float	May			201 Jun	6	Jul		Aug
				Float	54			55		56		57
4th 8 Mo	nthly Progress Report Status as on 2	1745 21-May-12 A	28-Feb-17	224								
Contract Ke		82 27-May-16	17-Aug-16	-68								
Key Dates f	or achievement of Stages and completion	82 27-May-16	17-Aug-16	-68		-						
G1072	KD-05, Completion of Section D EC1-1 to EC1-6 10Aug2015 SA3	0	13-Jun-16*	-308			–	•				
G1073	KD-05, Completion of Section D EC1-7 to EC1-8 10Aug2015 SA3	0	21-Jun-16*	-316				•				
G1084	KD-06C4TM, Completion of Section BC4TM Edge Area K028 - K039	0	01-Aug-16*	-678							*1	
G1088	23Sep2014 SA4 KD-06C4TM, Completion of Section BC4TM Edge Area K047 - K052	0	28-May-16*	-613		+						
G1092	23Sep2014 w DCM SA4 KD-07C4, Completion of Section C1aC4 22Sep2014 SA4	0	27-May-16*	-613		▶						
G1109	KD-09C1, Completion of Section C2aC1 Main Area South 30Sep2014 SA4	0	20-Jun-16*	-629								
G1110	KD-09C2, Completion of Section C2aC2 Main Area North 30Sep2014 SA4	0	30-May-16*	-608								
G1114	KD-09C1C1, Completion of Section C2aC1C1 Edge Area C101 - C103 30Sep2014 SA4 43-73M	0	17-Aug-16*	-687								+
G1115	KD-09C2, Completion of Section C2aC2 Edge Area C113 - C117 28Nov2015 SA3 73-120m	0	15-Jul-16*	-230						-		
G1130	KD-11TM, Completion of Section E2TM Main Area North 05Feb2015 SA4	0	01-Jun-16*	-482			1					
G1131	KD-11TM, Completion of Section E2TM Main Area South 05Feb2015 SA4	0	31-May-16*	-481								
G1133	KD-11C3, Completion of Section E2C3 Main Area South 10Jun2016 SA4	0	17-Jun-16*	-7				┍╋╴║				
G1140	KD-12C3, Completion of Section C2bC3 Main Area 18Mar2016 SA4	0	07-Jun-16*	-81								
Supplemen	tary Agreement	82 27-May-16	17-Aug-16	-122		╽╫┿						
SA4		82 27-May-16	17-Aug-16	-122		╎╫┿╸						
SA4-KD07-020	KD-07C4 Completion of Section C1aC4 22Sep2014	0	27-May-16*	-614								
SA4-KD09-010	KD-09C1C1 Completion of Section C2aC1C1 30Sep2014	0	17-Aug-16*	-688								-
SA4-KD09-020	KD-09C1C3 Completion of Section C2aC1C3 19Dec2015	0	20-Jun-16*	-185				-				
SA4-KD11-020	KD-11C8N Completion of Section E2C8N 18Jan2016	0	31-May-16*	-134								
SA4-KD11-030	KD-11C8S Completion of Section E2C8S 22Feb2016	0	31-May-16*	-99								
D		Monthly Progress Report	rt Status as on 2	1May2016 TA	SK filtor: T	hree N	lonth	Rollin	a	•	· •	
Remaining Le Actual Level o									д.			
Actual Work		Page 1 c	/ ∠									
Remaining W	/ork									Pr	imavera S	vstem

Critical Remaining Work

ity ID	Activity Name	Original	Start	Finish	Total						2016			
		Duration			Float	Ma <u>y</u> 54				Jun 55		Jul 56		Aug 57
SA4-KD12-020	KD-12C8N Completion of Section C2bC8N 13Jan2016	0)	07-Jun-16*	-146		ТГ			Ť				Ť
SA4-KD12-030	KD-12C8S Completion of Section C2bC8S 13Jan2016	0)	07-Jun-16*	-146				┝┥					
SA4-KD13-030	KD-13C8W Completion of Section C2cC8W 17Apr2016	0)	11-Jun-16*	-55				ſ					
Summary Pr	ogramme	82	27-May-16	17-Aug-16	-68			╟┼		┿╋╼				
Portion Summ	hary	82	27-May-16	17-Aug-16	-68			┢┼╴	╟╫	┿╋╼				
Portion B		65	28-May-16	01-Aug-16	-678			┢┿	╟┼╢	┿╋╼				
SSB-1084	KD-06C4TM, Completion of Section BC4TM Edge Area K028 - K039 23Sep2014 SA4	0		01-Aug-16*	-678								**	
SSB-1088	KD-06C4TM, Completion of Section BC4TM Edge Area K047 - K052 23Sep2014 w DCM SA4	0		28-May-16*	-613									
Portion C		82	27-May-16	17-Aug-16	-122			┢┝	Π					
Portion C1a		0	27-May-16	27-May-16	-613			H						
SSA4-KD07-020	KD-07C4 Completion of Section C1aC4 22Sep2014	0)	27-May-16*	-614			H						
SSC1a-1092	KD-07C4, Completion of Section C1aC4 22Sep2014 SA4	0)	27-May-16*	-613									
Portion C2a		79	30-May-16	17-Aug-16	-243			┥						
SSA4-KD09-010	KD-09C1C1 Completion of Section C2aC1C1 30Sep2014	0)	17-Aug-16*	-688									-+
SSA4-KD09-020	KD-09C1C3 Completion of Section C2aC1C3 19Dec2015	0)	20-Jun-16*	-185					-				
SSC2a-1109	KD-09C1, Completion of Section C2aC1 Main Area South 30Sep2014 SA4	0)	20-Jun-16*	-629									
SSC2a-1110	KD-09C2, Completion of Section C2aC2 Main Area North 30Sep2014 SA4	0		30-May-16*	-608									
SSC2a-1114	KD-09C1C1, Completion of Section C2aC1C1 Edge Area C101 - C103 30Sep2014 SA4 43-73M	0		17-Aug-16*	-687									•
SSC2a-1115	KD-09C2, Completion of Section C2aC2 Edge Area C113 - C117 28Nov2015 SA3 73-120m	0		15-Jul-16*	-230							-+		
Portion C2b		0	07-Jun-16	07-Jun-16	-81				•					
SSA4-KD12-020	KD-12C8N Completion of Section C2bC8N 13Jan2016	0		07-Jun-16*	-146				HI					
SSA4-KD12-030	KD-12C8S Completion of Section C2bC8S 13Jan2016	0		07-Jun-16*	-146				H					
SSC2b-1140	KD-12C3, Completion of Section C2bC3 Main Area 18Mar2016 SA4	0)	07-Jun-16*	-81				H					
Remaining Lev	el of Effort ♦ ♦ Milestone 54th_	8 Monthly I	Progress Repo	ort Status as on 2	21May2016	SK filter	: Thr	ee N	/ont	h Ro	llina			
Actual Level of		,	Page 2		, , , , , , , , , , , , , , , , , , , ,									
Actual Work Remaining Wo													Primavera	

Critical Remaining Work

ontract No.	Hong Kong - Zhuhai - Macao Bridge			ong Bounda	ry Cross	ssing Facilities - Reclamation Works
ivity ID	Activity Name	Original Duration		Finish	Total Float	2016 May Jun Jul Aug
Portion C2c		0	11-Jun-16	11-Jun-16	-55	
SSA4-KD13-030	KD-13C8W Completion of Section C2cC8W 17Apr2016	0		11-Jun-16*	-55	
Portion D		8	13-Jun-16	21-Jun-16	-316	
SSD-1072	KD-05, Completion of Section D EC1-1 to EC1-6 10Aug2015 SA3	0		13-Jun-16*	-308	
SSD-1073	KD-05, Completion of Section D EC1-7 to EC1-8 10Aug2015 SA3	0		21-Jun-16*	-316	
Portion E		17	31-May-16	17-Jun-16	-7	│ │ │ │ │ │ │ │ │ │ │ │ │ │ │ │ │ │ │
Portion E2		17	31-May-16	17-Jun-16	-7	│ │ │ ↓ ↓ ↓ ↓ ↓ │ │ │ │ │ │ │ │ │ │ │ │
SSA4-KD11-020	KD-11C8N Completion of Section E2C8N 18Jan2016	0		31-May-16*	-134	
SSA4-KD11-030	KD-11C8S Completion of Section E2C8S 22Feb2016	0		31-May-16*	-99	
SSE2-1130	KD-11TM, Completion of Section E2TM Main Area North 05Feb2015	5 0		01-Jun-16*	-482	
SSE2-1131	SA4 KD-11TM, Completion of Section E2TM Main Area South 05Feb201	5 0		31-May-16*	-481	
SSE2-1133	SA4 KD-11C3, Completion of Section E2C3 Main Area South 10Jun2016	0		17-Jun-16*	-7	
Work Zone. a	as defined in PS Clause 1.03(6)	497	20-Sep-15 A	28-Dec-16	286	
Portion A, B	· · ·	497	20-Sep-15 A	28-Dec-16	286	
Portion A, B,		497	20-Sep-15 A	28-Dec-16	286	
Seawall		307	09-Nov-15 A	10-Sep-16	395	
Optimizing Rubl	ble Mound Seawalls	201	09-Nov-15 A	30-Jun-16	-30	
Rock Armour		201	09-Nov-15 A	30-Jun-16	-30	
Seawall Portio	n A C120-C134 Ch5+050 - Ch5+650	201	09-Nov-15 A	30-Jun-16	-30	
RFA0-010	PA at C118 - C134 Removal of Temporary Rockfill (170,000m3,	170	09-Nov-15 A	30-May-16	-27	
RFA0-020	1,500m3/day) PA at C118 - C134 Underlayer (21,600m3 1,000m3/day)	179	15-Nov-15 A	14-Jun-16	-28	
RFA0-030	PA at C118 - C134 Rock Armour (1-3ton 30,840m3 & 0.3-1ton	179	01-Dec-15 A	30-Jun-16*	-30	
Conforming Slo	14,466m3 244m3/day) ping Seawalls	300	16-Nov-15 A	10-Sep-16	395	
	-					
Remaining Lev		1_8 Monthly F			21May2016	6 TASK filter: Three Month Rolling.
Actual Level of Actual Work	f Effort Vummary		Page 3 c	of 21		
Remaining Wo	ork					Primavera System
Critical Remain	ning Work					

Portion B At K028 - K039 (C BF-RFB1-060 PB at K028 244m3/day Portion E1 & E2 In Front of Portion E1 & E2 In Front of Portion E2 Ch2+260 - Ch2+26 RFE2-110 PE2 Ch2+26 RFE2-120 PE2 Ch2+26 RFE2-130 PE2 Ch2+26 RFE2-140 PE2 Ch2+26 Portion E2 Ch2+43 PE2 Ch2+43 RFE2-230 PE2 Ch2+43 RFE2-240 PE2 Ch2+43 Portion E2 Ch2+630 - Ch2+43 PE2 Ch2+43 RFE2-240 PE2 Ch2+43 Portion E2 Ch2+630 - Ch2+63 PE2 Ch2+63	Accorpode (18,092nos), 90nos/day A1+102 - Ch1+600) K039 in front of cells Rock Armour 0.3-1ton 11,244m3 Cells Ch1+990 - 3+810 430 0 - Ch2+430 Trimming at the toe (170m) 0 - Ch2+430 Geotextile 0 - Ch2+430 10-60kg Underlayer 0 - Ch2+430 1-3ton Armour	265 152 152 129 35 35 17 3 3 3 4 5 6 45 6 6	16-Nov-15 A 16-Nov-15 A 16-Nov-15 A 16-Nov-15 A 10-Dec-15 A 10-Dec-15 A 13-Jul-16 03-Jul-16 02-Aug-16 08-Aug-16 19-Apr-16 A 19-Apr-16 A	10-Sep-16 09-Sep-16 03-Jun-16 25-Aug-16 17-Aug-16 30-Jul-16 02-Aug-16 08-Aug-16 17-Aug-16 08-Aug-16 08-Aug-16 17-Aug-16 24-Apr-16 A	Float 395 -593 119 119 -567 -558 -558 -558 -558 -558 -558 -558 -558		May 54			<u>Jun</u> 55				
ACP1-00030 Precasting A Portion B At K028 - K039 (C BF-RFB1-060 PB at K028 244m3/day Portion E1 & E2 In Front of Portion E1 & E2 In Front of Portion E2 Ch2+260 - Ch2+260 RFE2-110 PE2 Ch2+260 RFE2-120 PE2 Ch2+260 RFE2-130 PE2 Ch2+260 RFE2-140 PE2 Ch2+260 Portion E2 Ch2+430 - Ch2+260 PE2 Ch2+430 RFE2-230 PE2 Ch2+433 RFE2-240 PE2 Ch2+433 Portion E2 Ch2+630 - Ch2+433 PE2 Ch2+433 Portion E2 Ch2+630 - Ch2+633 PE2 Ch2+433 Portion E2 Ch2+630 - Ch2+633 PE2 Ch2+633	Accorpode (18,092nos), 90nos/day A1+102 - Ch1+600) K039 in front of cells Rock Armour 0.3-1ton 11,244m3 Cells Ch1+990 - 3+810 430 0 - Ch2+430 Trimming at the toe (170m) 0 - Ch2+430 Geotextile 0 - Ch2+430 10-60kg Underlayer 0 - Ch2+430 1-3ton Armour 630 0 - Ch2+630 10-60kg Underlayer	265 152 152 129 35 35 17 3 3 3 4 5 6 45 6 6	 i16-Nov-15 A i16-Nov-15 A i11-Dec-15 A i11-Dec-15 A i112-Apr-16 A i13-Jul-16 i02-Aug-16 i08-Aug-16 i112-Apr-16 A 	09-Sep-16 03-Jun-16 03-Jun-16 25-Aug-16 30-Jul-16 02-Aug-16 08-Aug-16 17-Aug-16 08-Aug-16 03-Jun-16 03-Jul-16 03-Jul-16 03-Jul-16 03-Jul-16 03-Jul-16 03-Jul-16 03-Jul-16	-593 119 119 -567 -558 -558 -558 -558									9
Portion B At K028 - K039 (C BF-RFB1-060 PB at K028 244m3/day Portion E1 & E2 In Front of Portion E2 Cb2+260 - Ch2+26 RFE2-110 PE2 Ch2+26 RFE2-120 PE2 Ch2+26 RFE2-130 PE2 Ch2+26 RFE2-140 PE2 Ch2+26 Portion E2 Cb2+430 PE2 Ch2+26 RFE2-140 PE2 Ch2+43 RFE2-230 PE2 Ch2+43 RFE2-240 PE2 Ch2+43 Portion E2 Cb2+630 - Ch2+43 PE2 Ch2+43 RFE2-240 PE2 Ch2+43 Portion E2 Cb2+630 - Ch2+63 PE2 Ch2+63	h1+102 - Ch1+600) K039 in front of cells Rock Armour 0.3-1ton 11,244m3 Cells Ch1+990 - 3+810 430 0 - Ch2+430 Trimming at the toe (170m) 0 - Ch2+430 Geotextile 0 - Ch2+430 10-60kg Underlayer 0 - Ch2+430 1-3ton Armour 630 0 - Ch2+630 10-60kg Underlayer	152 152 129 35 17 3 3 17 3 3 6 9 9 45 6	 2 01-Dec-15 A 2 01-Dec-15 A 2 19-Apr-16 A 3 13-Jul-16 3 13-Jul-16 3 0-Jul-16 0 02-Aug-16 0 08-Aug-16 19-Apr-16 A 	03-Jun-16 03-Jun-16 25-Aug-16 17-Aug-16 30-Jul-16 02-Aug-16 08-Aug-16 17-Aug-16 03-May-16 A	119 119 -567 -558 -558 -558 -558 -558								•	9
BF-RFB1-060 PB at K028 244m3/day Portion E1 & E2 In Front of Portion E2 Ch2+260 - Ch2+ RFE2-110 PE2 Ch2+26 RFE2-120 PE2 Ch2+26 RFE2-130 PE2 Ch2+26 RFE2-140 PE2 Ch2+26 Portion E2 Ch2+26 PE2 Ch2+26 RFE2-130 PE2 Ch2+26 RFE2-140 PE2 Ch2+43 RFE2-230 PE2 Ch2+43 RFE2-240 PE2 Ch2+43 Portion E2 Ch2+630 - Ch2+ PE2 Ch2+63 RFE2-310 PE2 Ch2+63	K039 in front of cells Rock Armour 0.3-1ton 11,244m3 Cells Ch1+990 - 3+810 430 0 - Ch2+430 Trimming at the toe (170m) 0 - Ch2+430 Geotextile 0 - Ch2+430 10-60kg Underlayer 0 - Ch2+430 1-3ton Armour 630 0 - Ch2+630 10-60kg Underlayer	152 129 35 17 3 3 4 5 45 6	 2 01-Dec-15 A 19-Apr-16 A 13-Jul-16 13-Jul-16 30-Jul-16 02-Aug-16 08-Aug-16 19-Apr-16 A 	03-Jun-16 25-Aug-16 17-Aug-16 30-Jul-16 02-Aug-16 08-Aug-16 17-Aug-16 03-May-16 A	119 -567 -558 -558 -558 -558									
244m3/day Portion E1 & E2 In Front of Portion E2 Ch2+260 - Ch2+260 RFE2-110 PE2 Ch2+260 RFE2-120 PE2 Ch2+260 RFE2-130 PE2 Ch2+260 RFE2-140 PE2 Ch2+260 Portion E2 Ch2+430 PE2 Ch2+260 Portion E2 Ch2+430 PE2 Ch2+430 RFE2-230 PE2 Ch2+433 RFE2-240 PE2 Ch2+433 Portion E2 Ch2+630 - Ch2+433 PE2 Ch2+433 Portion E2 Ch2+630 - Ch2+633 PE2 Ch2+633	Cells Ch1+990 - 3+810 430 0 - Ch2+430 Trimming at the toe (170m) 0 - Ch2+430 Geotextile 0 - Ch2+430 10-60kg Underlayer 0 - Ch2+430 1-3ton Armour 630 0 - Ch2+630 10-60kg Underlayer	129 35 17 3 6 9 9 45 6	19-Apr-16 A 13-Jul-16 30-Jul-16 30-Jul-16 602-Aug-16 08-Aug-16 19-Apr-16 A	25-Aug-16 17-Aug-16 30-Jul-16 02-Aug-16 08-Aug-16 17-Aug-16 03-May-16 A	-567 -558 -558 -558 -558								-	
Portion E1 & E2 In Front of Portion E2 Ch2+260 - Ch2+ RFE2-110 PE2 Ch2+26 RFE2-120 PE2 Ch2+26 RFE2-130 PE2 Ch2+26 RFE2-140 PE2 Ch2+26 Portion E2 Ch2+430 - Ch2+6 PE2 Ch2+430 RFE2-230 PE2 Ch2+433 RFE2-240 PE2 Ch2+433 Portion E2 Ch2+430 - Ch2+433 PE2 Ch2+433 RFE2-240 PE2 Ch2+433 Portion E2 Ch2+630 - Ch2+633 PE2 Ch2+633 PE2 Ch2+433 PE2 Ch2+633	430 D - Ch2+430 Trimming at the toe (170m) D - Ch2+430 Geotextile D - Ch2+430 10-60kg Underlayer D - Ch2+430 1-3ton Armour 630 D - Ch2+630 10-60kg Underlayer	35 17 3 6 9 9 45 6	 13-Jul-16 13-Jul-16 30-Jul-16 02-Aug-16 08-Aug-16 19-Apr-16 A 	17-Aug-16 30-Jul-16 02-Aug-16 08-Aug-16 17-Aug-16 03-May-16 A	-558 -558 -558 -558								-	
RFE2-110 PE2 Ch2+26 RFE2-120 PE2 Ch2+26 RFE2-130 PE2 Ch2+26 RFE2-140 PE2 Ch2+26 Portion E2 Ch2+430 - Ch2+ RFE2-230 PE2 Ch2+43 RFE2-240 PE2 Ch2+43 Portion E2 Ch2+630 - Ch2+ RFE2-310 PE2 Ch2+63	0 - Ch2+430 Trimming at the toe (170m) 0 - Ch2+430 Geotextile 0 - Ch2+430 10-60kg Underlayer 0 - Ch2+430 1-3ton Armour 630 0 - Ch2+630 10-60kg Underlayer	17 3 6 9 45 6	 13-Jul-16 30-Jul-16 02-Aug-16 08-Aug-16 19-Apr-16 A 	30-Jul-16 02-Aug-16 08-Aug-16 17-Aug-16 03-May-16 A	-558 -558 -558									
RFE2-120 PE2 Ch2+26 RFE2-130 PE2 Ch2+26 RFE2-140 PE2 Ch2+26 Portion E2 Ch2+430 - Ch2+ RFE2-230 PE2 Ch2+43 RFE2-240 PE2 Ch2+43 Portion E2 Ch2+630 - Ch2+ RFE2-310 PE2 Ch2+63	0 - Ch2+430 Geotextile 0 - Ch2+430 10-60kg Underlayer 0 - Ch2+430 1-3ton Armour 630 0 - Ch2+630 10-60kg Underlayer	3 6 9 45 6	 30-Jul-16 02-Aug-16 08-Aug-16 19-Apr-16 A 	02-Aug-16 08-Aug-16 17-Aug-16 03-May-16 A	-558 -558								-	
RFE2-130 PE2 Ch2+26 RFE2-140 PE2 Ch2+26 Portion E2 Ch2+430 - Ch2+ RFE2-230 PE2 Ch2+43 RFE2-240 PE2 Ch2+43 Portion E2 Ch2+630 - Ch2+ RFE2-310 PE2 Ch2+63	0 - Ch2+430 10-60kg Underlayer 0 - Ch2+430 1-3ton Armour 630 0 - Ch2+630 10-60kg Underlayer	6 9 45 6	02-Aug-16 08-Aug-16 19-Apr-16 A	08-Aug-16 17-Aug-16 03-May-16 A	-558									9
RFE2-140 PE2 Ch2+26 Portion E2 Ch2+430 - Ch2+ RFE2-230 PE2 Ch2+43 RFE2-240 PE2 Ch2+43 Portion E2 Ch2+630 - Ch2+ RFE2-310 PE2 Ch2+63	0 - Ch2+430 1-3ton Armour 630 0 - Ch2+630 10-60kg Underlayer	9 45 6	08-Aug-16	17-Aug-16 03-May-16 A										╸ ╶═╤┿
Portion E2 Ch2+430 - Ch2+ RFE2-230 PE2 Ch2+43 RFE2-240 PE2 Ch2+43 Portion E2 Ch2+630 - Ch2+ RFE2-310 PE2 Ch2+63	630 0 - Ch2+630 10-60kg Underlayer	6	5 19-Apr-16 A	03-May-16 A	-558									
RFE2-230 PE2 Ch2+43 RFE2-240 PE2 Ch2+43 Portion E2 Ch2+630 - Ch2+ RFE2-310 PE2 Ch2+63	0 - Ch2+630 10-60kg Underlayer	6												
RFE2-240 PE2 Ch2+43 Portion E2 Ch2+630 - Ch2+ RFE2-310 PE2 Ch2+63	- · ·		5 19-Apr-16 A	24-Apr-16 A	· · · ·									
Portion E2 Ch2+630 - Ch2+ RFE2-310 PE2 Ch2+63	0 - Ch2+630 1-3ton Armour													
RFE2-310 PE2 Ch2+63		g	25-Apr-16 A	03-May-16 A										
	750	31	04-May-16 A	27-May-16	-558			┩┃						
	0 - Ch2+750 Trimming at the toe (120m)	12	04-May-16 A	15-May-16 A										
RFE2-320 PE2 Ch2+63	0 - Ch2+750 Geotextile	2	2 16-May-16 A	17-May-16 A			-							
RFE2-330 PE2 Ch2+63	0 - Ch2+750 10-60kg Underlayer	Δ	18-May-16 A	21-May-16	-558									
RFE2-340 PE2 Ch2+63	0 - Ch2+750 1-3ton Armour	6	21-May-16	27-May-16	-558									
Portion E2 Ch2+750 - Ch2+	870	24	27-May-16	20-Jun-16	-558			₩	╉╋	┢┥┥	•			
RFE2-410 PE2 Ch2+75	0 - Ch2+870 Trimming at the toe (120m)	12	27-May-16	08-Jun-16	-558			╶╫┯┥						
RFE2-420 PE2 Ch2+75	0 - Ch2+870 Geotextile	2	08-Jun-16	10-Jun-16	-558									
RFE2-430 PE2 Ch2+75	0 - Ch2+870 10-60kg Underlayer	4	10-Jun-16	14-Jun-16	-558									
RFE2-440 PE2 Ch2+75	0 - Ch2+870 1-3ton Armour	e	5 14-Jun-16	20-Jun-16	-558					┣┢╪				
ļ	1											1		
■ Remaining Level of Effort ◆		1_8 Monthly		rt Status as on 2	1May2016	ASK fi	ilter: Th	ree	Mon	th R	olling	j .		
 Actual Level of Effort Actual Work 	▼ Summary		Page 4 c	of 21										

ID	Activity Name	Original	Start	Finish	Total				2016			
-		Duration			Float	May 54		Ju 5			Jul 56	A. 5
Portion E1 C	h2+870 - Ch2+980	23	20-Jun-16	13-Jul-16	-558			TTT			<u> </u>	ТĬ
RFE1b-010	PE1 Ch2+870 - Ch2+980 Trimming at the toe (110m)	11	20-Jun-16	01-Jul-16	-558				┞╍┿┯			
RFE1b-020	PE1 Ch2+870 - Ch2+980 Geotextile	2	01-Jul-16	03-Jul-16	-558				4			
RFE1b-030	PE1 Ch2+870 - Ch2+980 10-60kg Underlayer	4	03-Jul-16	07-Jul-16	-558				•			
RFE1b-040	PE1 Ch2+870 - Ch2+980 1-3ton Armour	6	07-Jul-16	13-Jul-16	-558							
Portion E1 C	h2+980 - Ch3+160	60	21-Apr-16 A	20-May-16 A								
RFE1b-050	PE1 Ch2+980 - Ch3+160 Removal of temporary rockfill	10	21-Apr-16 A	30-Apr-16 A								
RFE1b-060	PE1 Ch2+980- Ch3+160 Geotextile & Underlayer 10-60kg 15m/day	10	01-May-16 A	10-May-16 A	-							
RFE1b-070	PE1 Ch2+980 - Ch3+160 Rock Armour 1-3ton	10	11-May-16 A	20-May-16 A		·►	 	 				
Portion E1 C	h3+160 - Ch3+250	51	29-Jun-16	18-Aug-16	-584				•			╋━━╋
RFE1b-110	PE1 Ch3+160-Ch3+250 Trimming at the toe (180m)	18	29-Jun-16	16-Jul-16	-584				-		9	
RFE1b-120	PE1 Ch3+160-Ch3+250 Geotextile	4	17-Jul-16	20-Jul-16	-584							
RFE1b-130	PE1 Ch3+160-Ch3+250 10-60kg Underlayer	6	21-Jul-16	26-Jul-16	-584						╘╼═	
RFE1b-140	PE1 Ch3+160-Ch3+250 1st layer 2-5ton Rock Armour	3	27-Jul-16	29-Jul-16	-584							
RFE1b-150	PE1 Ch3+160-Ch3+250 100-200kg Underlayer	8	30-Jul-16	06-Aug-16	-584							╞╴╽
RFE1b-160	PE1 Ch3+160-Ch3+250 1st 6 rows Accropode (684nrs)	9	07-Aug-16	15-Aug-16	-584							╟╍╍╬
RFE1b-170	PE1 Ch3+160-Ch3+250 2nd lyaer 2-5ton Rock Armour	3	16-Aug-16	18-Aug-16	-584							4
Portion E1 C	h3+250 - Ch3+340	79	08-Jun-16	25-Aug-16	-591			╆╫┿				╟──┤
RFE1b-210	PE1 Ch3+250-Ch3+340 Trimming at the toe (160m)	16	08-Jun-16	23-Jun-16	-572							
RFE1b-220	PE1 Ch3+250-Ch3+340 Geotextile	3	24-Jun-16	26-Jun-16	-572							
RFE1b-230	PE1 Ch3+250-Ch3+340 10-60kg Underlayer	6	27-Jun-16	02-Jul-16	-572				│ ╙■			
RFE1b-240	PE1 Ch3+250-Ch3+340 1st layer 2-5ton Rock Armour	3	03-Jul-16	05-Jul-16	-572							
RFE1b-250	PE1 Ch3+250-Ch3+340 100-200kg Underlayer	8	06-Jul-16	13-Jul-16	-572						- -	
Remaining Le	vel of Effort Milestone 54th	8 Monthly I	Progress Repor	rt Status as on 2°	May2016 TA	SK filter: Th	ree M	onth	Rolling	•		
 Remaining Le Actual Level c 		_ ,	Page 5 o					5		•		
Actual Work				. = .								

y ID)	Activity Name	Original	Start	Finish	Total			2016		
<i>,</i>			Duration			Float	May 54		Jun 55	Jul 56	Aug 57
Γ	RFE1b-260	PE1 Ch3+250-Ch3+340 1st 6 rows Accropode (608nrs)	8	20-Jul-16	27-Jul-16	-578		111			
_	RFE1b-270	PE1 Ch3+250-Ch3+340 2nd Iyaer 2-5ton Rock Armour	3	28-Jul-16	30-Jul-16	-578				-	■
	RFE1b-280	PE1 Ch3+250-Ch3+340 2nd Accropode (992nrs)	13	13-Aug-16	25-Aug-16	-591					
	Portion E1 Ch	n3+340 - Ch3+510	94	21-May-16	22-Aug-16	-564	╋┽┥	┽╋╫			┿╋┿╋╸
	RFE1b-310	PE1 Ch3+340-Ch3+510 Trimming at the toe (170m)	18	21-May-16*	07-Jun-16	-584	┝┿╋				
	RFE1b-320	PE1 Ch3+340-Ch3+510 Geotextile	4	08-Jun-16	11-Jun-16	-584					
	RFE1b-330	PE1 Ch3+340-Ch3+510 10-60kg Underlayer	6	12-Jun-16	17-Jun-16	-584					
	RFE1b-340	PE1 Ch3+340-Ch3+510 1st layer 2-5ton Rock Armour	3	18-Jun-16	20-Jun-16	-584			┝┙┓		
	RFE1b-350	PE1 Ch3+340-Ch3+510 100-200kg Underlayer	8	21-Jun-16	28-Jun-16	-584			│ 	_	
	RFE1b-360	PE1 Ch3+340-Ch3+510 1st 6 rows Accropode (684nrs)	9	11-Jul-16	19-Jul-16	-584				┝╋╤	
	RFE1b-370	PE1 Ch3+340-Ch3+510 2nd Iyaer 2-5ton Rock Armour	3	20-Jul-16	22-Jul-16	-584				┈┝┼╵╘╼┓╴	
	RFE1b-380	PE1 Ch3+340-Ch3+510 2nd Accropode (1116nrs)	14	30-Jul-16	12-Aug-16	-591					╺╺╧┫╼╧╛╽
-	RFE1b-390	PE1 Ch3+340-Ch3+510 3rd 2-5ton Rock Armour	10	13-Aug-16	22-Aug-16	-564					┊╿┕╈
	Portion E1 Ch	n3+510 - Ch3+810	80	21-May-16	08-Aug-16	-550	╋┽┥	╋╋┿			
	RFE1b-410	PE1 Ch3+510-Ch3+810 Trimming at the toe (200m)	20	21-May-16*	09-Jun-16	-591	┝┿╇				
	RFE1b-420	PE1 Ch3+510-Ch3+810 Geotextile	4	10-Jun-16	13-Jun-16	-591		1.14			
	RFE1b-430	PE1 Ch3+510-Ch3+810 10-60kg Underlayer	6	14-Jun-16	19-Jun-16	-591			┝╺╋┓		
	RFE1b-440	PE1 Ch3+510-Ch3+810 1st layer 2-5ton Rock Armour	3	20-Jun-16	22-Jun-16	-591					
	RFE1b-450	PE1 Ch3+510-3+810 100-200kg Underlayer	8	23-Jun-16	30-Jun-16	-591			╽╽╽┕╺╋╤╕		
	RFE1b-460	PE1 Ch3+510-3+810 1st 6 rows Accropode (760nrs)	10	01-Jul-16	10-Jul-16	-591			┃┃┃ ┃┕╸	━╞│ │	
	RFE1b-470	PE1 Ch3+510-3+810 2nd Iyaer 2-5ton Rock Armour	3	11-Jul-16	13-Jul-16	-591					
	RFE1b-480	PE1 Ch3+510-3+810 2nd Accropode (1240nrs)	16	14-Jul-16	29-Jul-16	-591				╟━━━┍	
-	RFE1b-490	PE1 Ch3+510-3+810 3rd 2-5ton Rock Armour	10	30-Jul-16	08-Aug-16	-550					
	Pompining La	vel of Effort A Milectone	54th 8 Monthly F	Progress Repo	ort Status as on 2	21Mav2016 TA	SK filter: Three	e Mon	th Rolling	1	
	Remaining Level of			Page 6					ar ronng.		
	Actual Work	·		. ugo 0	v. E I						

Critical Remaining Work

E

Duration Duration Pleas Data Data Portion E1 & E2 on Calls CO49-0599 132 15/Apr16A 24/Aug-16 -566 PFE2a-100 PE2 CO49-0599 43 05/Aug-16 -602 PFE2a-1010 PE2 CO49-0599 64 01/Aug-16 -602 PFE2a-102 PE2 CO49-0599 64 01/Aug-16 -602 PFE2a-103 PE2 CO49-0599 Coff & De1 co680 Undertayer 18 07/Aug-16 -602 Portion E2 CO60-0567 & De1 Co68-0707 Timming 24 15/Apr16A 07/Aug-16 -602 PFE2a-201 PE2 Co60-067 & PE1 Co68-0707 Timming 24 15/Apr16A 07/Aug-16 -602 RFE2a-200 PE2 Co60-067 & PE1 Co68-070 Contentile -6 09/Mag-16 A -602 RFE2a-200 PE2 Co60-067 & PE1 Co68-070 Contentile -6 09/Mag-16 A -602 RFE2a-200 PE2 Co60-067 & PE1 Co68-070 Contentile -6 02/Mag-16 -602 RFE1a-101 PE1 0071-0076 Contentile -6 09/Mag-16 -652 RFE1a-102 PE1 0071-0076 actoral Rock Arm	D	Activity Name	Original		Finish	Total		Mexi				016		_	<u></u>
Partine E2 CV3-C059 44 05-Jul-16 24 Aug-16 407 PFE2a-110 PE2 C049-C059 Trimming 24 08-Jul-16 31-Jul-16 460 PFE2a-120 PE2 C049-C059 Geotextile 60 01-Aug-16 660 -602 PFE2a-130 PE2 C049-C059 10-60kg Underlayer 18 07-Aug-16 24-Aug-16 -602 Protrion E2 C060-C067 & E1 C068-C070 Temming 24 15-Apr-16 A 09-May-16 A -602 RFE2a-210 PE2 C060-C067 & PE1 C068-C070 Geotextile 6 09-May-16 A 14-May-16 -602 RFE2a-220 PE2 C060-C067 & PE1 C068-C070 Geotextile 6 09-May-16 A 10-Jun-16 -602 RFE2a-220 PE2 C060-C067 & PE1 C068-C070 Geotextile 6 09-May-16 A 10-Jun-16 -602 RFE2a-220 PE2 C060-C067 & PE1 C068-C070 Geotextile 6 09-May-16 A 10-Jun-16 -602 RFE2a-220 PE2 C060-C067 & PE1 C068-C070 Geotextile 6 09-May-16 A 10-Jun-16 -602 RFE2a-240 PE1 C071-C076 Trimming 12 30-Jun-16 10-Jun-16 -502 RFE1a-10 PE1 C071-C076 Geotextile 3			Duration			Float		May 54			Jun 55		Jul 56		Αι 5
PFE2a-110 PE2 2049-0059 Trimming 24 08-Jul-16 31-Jul-16 -602 PFE2a-120 PE2 049-0059 Geotextile 6 01-Aug-16 06-Aug-16 -602 PFE2a-130 PE2 049-0059 10-60kg Underlayer 18 07-Aug-18 24-Aug-16 -602 Portion E2 0000-0067 & E1 0058-0070 084 15-Apr16A 08-May-16A -602 RFE2a-20 PE2 060-0067 & PE1 0068-0070 Geotextile 6 09-May-16A 14-May-16A -602 RFE2a-20 PE2 0600-0067 & PE1 0068-0070 10-60kg Underlayer 18 15-May-16A 01-Jun-16 -602 RFE2a-20 PE2 0600-0067 & PE1 0068-0070 10-60kg Underlayer 18 15-May-16A 01-Jun-16 -602 RFE2a-20 PE2 0000-0067 & PE1 0068-0070 2-5ton Rock Armour 3 12-Jun-16 10-Aug-16 -552 Portion E1 CVT-076 12 30-Jun-16 11-Jul-16 -552 -552 RFE1a-10 PE1 0071-0076 Trimming 12 2Jul-16 14-Jul-16 -552 Portion E1 CVT-0079 Geotextile 18 14-Jul-16 15-S2 -552 Portion E1 CVT-0079 Geotextile 18 14-Jul-16 <	Portion E1 &	E2 on Cells C049 - C091	132	15-Apr-16 A	24-Aug-16	-566									-
PFE2a-120 PE2 C049-C059 Geotextile 6 01-Aug-16 662 PFE2a-130 PE2 C049-C059 10-60kg Underlayer 18 07-Aug-16 462 Portion E2 C050-C067 & E1 C068-C070 34 15-Apr-16A 08-May-16A -662 RFE2a-200 PE2 C060-C067 & E1 C068-C070 Geotextile 6 09-May-16A 14-May-16A -662 RFE2a-220 PE2 C060-C067 & PE1 C068-C070 Geotextile 6 09-May-16A 14-May-16A -662 RFE2a-230 PE2 C060-C067 & PE1 C068-C070 2-61on Rock Armour 38 02-Jun-16 -402 -662 Portion E1 C071-C076 42 30-Jun-16 16-Aug-16 -662 Pe1 L0071-C076 Trimming 12 30-Jun-16 14-Jul-16 -662 RFE1a-10 PE1 C071-C076 Geotextile 3 12-Jul-16 14-Jul-16 -562 RFE1a-10 PE1 C071-C076 Geotextile 3 12-Jul-16 14-Jul-16 -552 RFE1a-10 PE1 C071-C076 Geotextile 3 12-Jul-16 14-Jul-16 -552 RFE1a-10 PE1 C077-C079 Trimming 6 08-Jul-16 13-Jul-16 -552 RFE1a-20 <	Portion E2 C	D49-C059	48	08-Jul-16	24-Aug-16	-602						•	+		+
PEZ2 049-0059 10-60kg Underlayer 18 07-Aug-16 24/Aug-16 602 Portion EZ 0050-0067 & E1 C068-0070 164 15-Apr-16A 07-Jul-16 602 RFE2a-210 PEZ 0060-0067 & PE1 C068-0070 Trimming 24 15-Apr-16A 08-May-16A 602 RFE2a-220 PE2 0060-0067 & PE1 C068-0070 Geotextile 6 09-May-16A 14-May-16A 602 RFE2a-220 PE2 0060-0067 & PE1 C068-0070 10-60kg Underlayer 16 15-May-16A 01-Jun-16 602 RFE2a-220 PE2 0060-0067 & PE1 C068-0070 2-5ton Rock Armour 36 02-Jun-16 10-Aug-16 602 Portion E1 C07-C079 PE1 0071-0076 Geotextile 11 20-Jun-16 14-May-16A 652 RFE1a-120 PE1 0071-0076 10-60kg Underlayer 14 20-Jun-16 14-Jul-16 552 RFE1a-130 PE1 0071-0076 10-60kg Underlayer 18 24-Jul-16 10-Aug-16 552 RFE1a-140 PE1 0071-0076 10-60kg Underlayer 18 24-Jul-16 10-Aug-16 552 RFE1a-210 PE1 0077-0079 0cotextile 2 14-Jun-16 13-Jun-16 552 RFE1a-220 PE1 0077-0079 10-60kg	PFE2a-110	PE2 C049-C059 Trimming	24	08-Jul-16	31-Jul-16	-602						▶		7	
Portion E2 Co60-C067 & E1 C068-C070 64 15-Apr16A 07-Jul-16 602 RFE2a-210 PE2 C060-C067 & E1 C068-C070 Timming 24 15-Apr16A 09-May-16A 14-May-16A RFE2a-220 PE2 C060-C067 & E1 C068-C070 Geotextile 6 09-May-16A 14-May-16A 14-May-16A RFE2a-220 PE2 C060-C067 & PE1 C068-C070 10-60kg Underlayer 18 15-May-16A 01-Jun-16 -602 RFE2a-220 PE2 C060-C067 & PE1 C068-C070 10-60kg Underlayer 18 15-May-16A 01-Jun-16 -602 Portion E1 C07+C076 M22 20-Jun-16 07-Jul-16 -602 RFE1a-110 PE1 C071-C076 for Minming 112 20-Jun-16 17-Jul-16 -552 RFE1a-120 PE1 C071-C076 for Cokg Underlayer 18 24-Jul-16 15-Jul-16 -552 RFE1a-130 PE1 C071-C076 0 Rock Armour 18 24-Jul-16 15-Jul-16 -552 RFE1a-200 PE1 C077-C079 Timming 6 08-Jul-16 15-Jul-16 -552 RFE1a-200 PE1 C077-C079 10-60kg Underlayer 5 16-Jul-16 25-Jul-	PFE2a-120	PE2 C049-C059 Geotextile	6	01-Aug-16	06-Aug-16	-602									
RFE2a-210 PE2 C060-C067 & PE1 C068-C070 Timming 24 15-Apr-16.A 08-May-16.A 14-May-16.A RFE2a-220 PE2 C060-C067 & PE1 C068-C070 Geotextile 6 08-May-16.A 14-May-16.A - RFE2a-220 PE2 C060-C067 & PE1 C068-C070 10-60kg Underlayer 18 15-May-16.A 01-Jun-16 -602 RFE2a-240 PE2 C060-C067 & PE1 C068-C070 2-5ton Rock Armour 36 02-Jun-16 07-Jul-16 -602 Portion E1 C071-C076 Timming 12 30-Jun-16 11-Jul-16 -552 RFE1a-120 PE1 C071-C076 Geotextile 3 12-Jul-16 14-Jul-16 -552 RFE1a-130 PE1 C071-C076 10-60kg Underlayer 18 24-Jul-16 10-Aug-16 -552 Portion E1 C077-C079 22 08-Jun-16 13-Jun-16 -552 Portion E1 C077-C079 22 08-Jun-16 13-Jun-16 -552 RFE1a-210 PE1 C077-C079 Timming 6 08-Jun-16 13-Jun-16 -552 RFE1a-220 PE1 C077-C079 Gootextile 2 14-Jun-16 15-Jun-16 -552 RFE1a-230 PE1 C077-C079 10-60kg Underlayer 5 16-Ju	PFE2a-130	PE2 C049-C059 10-60kg Underlayer	18	07-Aug-16	24-Aug-16	-602								¦ ⊦ ∎	+
RFE2a-220 PE2 C060-C067 & PE1 C068-C070 Geotextile 6 09-May-16 A 14-May-16 A RFE2a-230 PE2 C060-C067 & PE1 C068-C070 10-60kg Underlayer 18 15-May-16 A 01-Jun-16 -602 RFE2a-240 PE2 C060-C067 & PE1 C068-C070 2-5ton Rock Armour 36 02-Jun-16 07-Jul-16 -602 Portion E1 C07-C076 MA2 30-Jun-16 11-Jul-16 -552 RFE1a-120 PE1 C071-C076 Geotextile 3 12-Jul-16 14-Jul-16 -552 RFE1a-130 PE1 C071-C076 Geotextile 3 12-Jul-16 14-Jul-16 -552 Portion E1 C077-C079 C22 08-Jun-16 10-Aug-16 -552 Portion E1 C077-C079 C22 08-Jun-16 552 Portion E1 C077-C079 C22 08-Jun-16 552 Portion E1 C077-C079 C22 08-Jun-16 552 RFE1a-210 PE1 C077-C079 Geotextile 2 14-Jun-16 552 RFE1a-220 PE1 C077-C079 Geotextile 2 14-Jun-16 552 RFE1a-230 PE1 C077-C079 Geotextile 2 14-Jun-16 552 RFE1a-240 PE1 C07	Portion E2 C	060-C067 & E1 C068-C070	84	15-Apr-16 A	07-Jul-16	-602				╋╋		┝────			
RFE2a-230 PE2 C060-C067 & PE1 C068-C070 10-60kg Underlayer 18 15-May-16 A 01-Jun-16 -602 RFE2a-240 PE2 C060-C067 & PE1 C068-C070 2-5ton Rock Armour 36 02-Jun-16 07-Jul-16 -602 Portion E1 C071-C076 42 30-Jun-16 10-Aug-16 -552 RFE1a-110 PE1 C071-C076 Trimming 12 30-Jun-16 11-Jul-16 -552 RFE1a-120 PE1 C071-C076 Geotextile 3 12-Jul-16 14-Jul-16 -552 RFE1a-130 PE1 C071-C076 10-60kg Underlayer 9 15-Jul-16 23-Jul-16 -552 Portion E1 C077-C079 DE1 C071-C076 10-60kg Underlayer 9 15-Jul-16 23-Jul-16 -552 RFE1a-140 PE1 C077-C079 Inmming 6 08-Jun-16 10-Aug-16 -552 Portion E1 C077-C079 Geotextile 2 08-Jun-16 13-Jun-16 -552 RFE1a-20 PE1 C077-C079 Infomming 6 08-Jun-16 15-Jun-16 -552 RFE1a-20 PE1 C077-C079 10-60kg Underlayer 3 16-Jun-16 25-Jun-16 -552 Portion E1 C030-C035 PE1 C037-C079 10-60kg Underlayer 3 <td< td=""><td>RFE2a-210</td><td>PE2 C060-C067 & PE1 C068-C070 Trimming</td><td>24</td><td>15-Apr-16 A</td><td>08-May-16 A</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	RFE2a-210	PE2 C060-C067 & PE1 C068-C070 Trimming	24	15-Apr-16 A	08-May-16 A										
RFE2a-240 PE2 C060-C067 & PE1 C068-C070 2-Ston Rock Armour 36 02-Jun-16 07-Jul-16 -602 Portion E1 C071-C076	RFE2a-220	PE2 C060-C067 & PE1 C068-C070 Geotextile	6	09-May-16 A	14-May-16 A										
Portion E1 C071-C076 M42 30-Jun-16 10-Aug-16 -552 RFE 1a-110 PE1 C071-C076 Grimming 12 30-Jun-16 11-Jul-16 -552 RFE 1a-120 PE1 C071-C076 Golextile 3 12-Jul-16 14-Jul-16 -552 RFE 1a-130 PE1 C071-C076 10-60kg Underlayer 9 15-Jul-16 23-Jul-16 -552 RFE 1a-140 PE1 C071-C076 2-Ston Rock Armour 18 24-Jul-16 10-Aug-16 -552 Portion E1 C077-C079 Trimming 6 08-Jun-16 13-Jun-16 -552 RFE 1a-210 PE1 C077-C079 Trimming 6 08-Jun-16 13-Jun-16 -552 RFE 1a-210 PE1 C077-C079 Golextile 2 14-Jun-16 15-Jun-16 -552 RFE 1a-220 PE1 C077-C079 Golextile 2 14-Jun-16 15-Jun-16 -552 RFE 1a-240 PE1 C077-C079 2-Ston Rock Armour 9 21-Jun-16 -552 RFE 1a-240 PE1 C077-C079 2-Ston Rock Armour 9 21-Jun-16 -552 RFE 1a-240 PE1 C080-C085 Trimming	RFE2a-230	PE2 C060-C067 & PE1 C068-C070 10-60kg Underlayer	18	15-May-16 A	01-Jun-16	-602									
RFE1a-110 PE1 C071-C076 Trimming 12 30-Jun-16 11-Jul-16 -552 RFE1a-120 PE1 C071-C076 Geotextile 3 12-Jul-16 14-Jul-16 -552 RFE1a-130 PE1 C071-C076 10-60kg Underlayer 9 15-Jul-16 23-Jul-16 -552 RFE1a-140 PE1 C071-C076 2-5ton Rock Armour 18 24-Jul-16 10-Aug-16 -552 Portion E1 C077-C079 C079 C079 <td< td=""><td>RFE2a-240</td><td>PE2 C060-C067 & PE1 C068-C070 2-5ton Rock Armour</td><td>36</td><td>02-Jun-16</td><td>07-Jul-16</td><td>-602</td><td></td><td></td><td> 4</td><td>╺╫╼┾┥</td><td></td><td></td><td></td><td></td><td></td></td<>	RFE2a-240	PE2 C060-C067 & PE1 C068-C070 2-5ton Rock Armour	36	02-Jun-16	07-Jul-16	-602			4	╺╫╼┾┥					
RFE1a-120 PE1 C071-C076 Geotextile 3 12-Jul-16 14-Jul-16 -552 RFE1a-130 PE1 C071-C076 10-60kg Underlayer 9 15-Jul-16 23-Jul-16 -552 RFE1a-140 PE1 C071-C076 2-5ton Rock Armour 18 24-Jul-16 10-Aug-16 -552 Portion E1 C077-C079 22 08-Jun-16 13-Jun-16 -552 RFE1a-210 PE1 C077-C079 Geotextile 2 14-Jun-16 15-Jun-16 -552 RFE1a-220 PE1 C077-C079 Geotextile 2 14-Jun-16 15-Jun-16 -552 RFE1a-230 PE1 C077-C079 Geotextile 2 14-Jun-16 15-Jun-16 -552 RFE1a-240 PE1 C077-C079 Geotextile 2 14-Jun-16 15-Jun-16 -552 RFE1a-230 PE1 C077-C079 10-60kg Underlayer 5 16-Jun-16 20-Jun-16 -552 RFE1a-240 PE1 C077-C079 2-5ton Rock Armour 9 21-Jun-16 29-Jun-16 -552 RFE1a-240 PE1 C077-C079 2-5ton Rock Armour 9 21-Jun-16 29-Jun-16 -552 RFE1a-310 PE1 C080-C085 Trimming 12 25-Apr-16 A 07-Jun-16 <td>Portion E1 C</td> <td>071-C076</td> <td>42</td> <td>30-Jun-16</td> <td>10-Aug-16</td> <td>-552</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td>+</td> <td></td> <td>•</td>	Portion E1 C	071-C076	42	30-Jun-16	10-Aug-16	-552						-	+		•
RFE 1a - 130 PE 1 C071-C076 10-60kg Underlayer	RFE1a-110	PE1 C071-C076 Trimming	12	30-Jun-16	11-Jul-16	-552							_		
RFE 1a-140 PE1 C071-C076 2-5ton Rock Armour 10 10 10-Aug-16 552 Portion E1 C077-C079 22 08-Jun-16 29-Jun-16 552 RFE 1a-210 PE1 C077-C079 Trimming 6 08-Jun-16 13-Jun-16 552 RFE 1a-220 PE1 C077-C079 Geotextile 2 14-Jun-16 15-Jun-16 552 RFE 1a-230 PE1 C077-C079 10-60kg Underlayer 6 16-Jun-16 15-Jun-16 552 RFE 1a-240 PE1 C077-C079 2-5ton Rock Armour 9 21-Jun-16 29-Jun-16 552 RFE 1a-240 PE1 C077-C079 2-5ton Rock Armour 9 21-Jun-16 29-Jun-16 552 Portion E1 C027-C079 2-5ton Rock Armour 9 21-Jun-16 552 7 7 7 RFE 1a-240 PE1 0077-C079 2-5ton Rock Armour 9 21-Jun-16 552 7 7 7 7 RFE 1a-240 PE1 0077-C079 2-5ton Rock Armour 9 25-Apr-16 A 07-Jun-16 552 7 7 7 7 7 RFE 1a-240 PE1 0080-C085 Trimming 11 25-Apr-16 A 06-May-16 A 652	RFE1a-120	PE1 C071-C076 Geotextile	3	12-Jul-16	14-Jul-16	-552		••••••				t	•		
Portion E1 C077-C079 22 08-Jun-16 29-Jun-16 -552 RFE 1a-210 PE1 C077-C079 Trimming 6 08-Jun-16 13-Jun-16 -552 RFE 1a-220 PE1 C077-C079 Geotextile 2 14-Jun-16 15-Jun-16 -552 RFE 1a-230 PE1 C077-C079 10-60kg Underlayer 5 16-Jun-16 20-Jun-16 -552 RFE 1a-240 PE1 C077-C079 2-5ton Rock Armour 9 21-Jun-16 29-Jun-16 -552 RFE 1a-240 PE1 C077-C079 2-5ton Rock Armour 9 21-Jun-16 29-Jun-16 -552 RFE 1a-240 PE1 C080-C085 Trimming 12 25-Apr-16 A 06-May-16 A - - - - RFE 1a-310 PE1 C080-C085 Trimming 12 25-Apr-16 A 06-May-16 A -<	RFE1a-130	PE1 C071-C076 10-60kg Underlayer	9	15-Jul-16	23-Jul-16	-552							┡╼═		
RFE1a-210 PE1 C077-C079 Trimming 6 08-Jun-16 13-Jun-16 -552 RFE1a-220 PE1 C077-C079 Geotextile 2 14-Jun-16 15-Jun-16 -552 RFE1a-230 PE1 C077-C079 10-60kg Underlayer 5 16-Jun-16 20-Jun-16 -552 RFE1a-240 PE1 C077-C079 2-5ton Rock Armour 9 21-Jun-16 29-Jun-16 -552 Portion E1 C080-C085 Timming 12 25-Apr-16 A 07-Jun-16 -552 RFE1a-310 PE1 C080-C085 Trimming 12 25-Apr-16 A 06-May-16 A -	RFE1a-140	PE1 C071-C076 2-5ton Rock Armour	18	24-Jul-16	10-Aug-16	-552							╞		
RFE1a-220 PE1 C077-C079 Geotextile 2 14-Jun-16 15-Jun-16 -552 RFE1a-230 PE1 C077-C079 10-60kg Underlayer 5 16-Jun-16 20-Jun-16 -552 RFE1a-240 PE1 C077-C079 2-5ton Rock Armour 9 21-Jun-16 29-Jun-16 -552 Portion E1 C085-C085 F1 C080-C085 Trimming 12 25-Apr-16 A 06-May-16 A - <t< td=""><td>Portion E1 C</td><td>077-C079</td><td>22</td><td>08-Jun-16</td><td>29-Jun-16</td><td>-552</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	Portion E1 C	077-C079	22	08-Jun-16	29-Jun-16	-552									
RFE 1a-230 PE1 C077-C079 10-60kg Underlayer 5 16-Jun-16 20-Jun-16 552 RFE 1a-240 PE1 C077-C079 2-5ton Rock Armour 9 21-Jun-16 29-Jun-16 -552 Portion E1 C027-C0285 25-Apr-16 A 07-Jun-16 -552 - - - RFE 1a-310 PE1 C080-C085 Trimming 12 25-Apr-16 A 06-May-16 A - <t< td=""><td>RFE1a-210</td><td>PE1 C077-C079 Trimming</td><td>6</td><td>08-Jun-16</td><td>13-Jun-16</td><td>-552</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	RFE1a-210	PE1 C077-C079 Trimming	6	08-Jun-16	13-Jun-16	-552									
RFE1a-240 PE1 C077-C079 2-5ton Rock Armour 9 21-Jun-16 29-Jun-16 -552 Portion E1 C080-C085 27 25-Apr-16 A 07-Jun-16 -552 RFE1a-310 PE1 C080-C085 Trimming 12 25-Apr-16 A 06-May-16 A -	RFE1a-220	PE1 C077-C079 Geotextile	2	14-Jun-16	15-Jun-16	-552		•••••			•	• • • • • • • • • • • • • • • • • • • •			
Portion E1 C080-C085 27 25-Apr-16 A 07-Jun-16 -552 RFE1a-310 PE1 C080-C085 Trimming 12 25-Apr-16 A 06-May-16 A 1	RFE1a-230	PE1 C077-C079 10-60kg Underlayer	5	16-Jun-16	20-Jun-16	-552					┡╋				
RFE1a-310 PE1 C080-C085 Trimming 12 25-Apr-16 A 06-May-16 A	RFE1a-240	PE1 C077-C079 2-5ton Rock Armour	9	21-Jun-16	29-Jun-16	-552					►				
	Portion E1 C	080-C085	27	25-Apr-16 A	07-Jun-16	-552	-		┥	┛┥					
RFE1a-320 PE1 C080-C085 Geotextile 3 07-May-16 A 09-May-16 A Image: Comparison of the second seco	RFE1a-310	PE1 C080-C085 Trimming	12	25-Apr-16 A	06-May-16 A		<u> </u>								
	RFE1a-320	PE1 C080-C085 Geotextile	3	07-May-16 A	09-May-16 A		-								-
		-					•								-
Actual Level of Effort V Summary Page 7 of 21	Actual Work														
Actual Work	 Remaining W Critical Remaining 												Prin	navera S	yste

y ID	Activity Name			Original	Start	Finish	Total					2	2016		
,				Duration			Float		May 54			Jun 55		Jul 56	Aug 57
RFE1a-330	PE1 C080-C08	5 10-60kg Underlayer		9	10-May-16 A	18-May-16 A					ГП	Π			<u> </u>
RFE1a-340	PE1 C080-C08	5 2-5ton Rock Armour		18	19-May-16 A	07-Jun-16	-552								
Portion E1 C	086-C091			42	22-Apr-16 A	02-Jun-16	-483		-++	╋╼┾╸					
RFE1a-410	PE1 C086-C09	1 Trimming		12	22-Apr-16 A	03-May-16 A									
RFE1a-420	PE1 C086-C09	1 Geotextile		3	04-May-16 A	06-May-16 A		•							
RFE1a-430	PE1 C086-C09	1 10-60kg Underlayer		9	07-May-16 A	15-May-16 A		-							
RFE1a-440	PE1 C086-C09	1 2-5ton Rock Armour		18	16-May-16 A	02-Jun-16	-483		-						
Portion C2c &	C2b At C090 - C	101 (Ch3+810 - Ch4+262)		209	21-Jan-16 A	21-Jul-16	32		-++	╢┼┥	┝┾╫	╫╴			
BF-RFC2c-01) PC2c at C091 -	C101 on cells Removal of temporary ro	ckfill	113	21-Jan-16 A	16-May-16 A			■						
BF-RFC2c-02	PC2c at C091 -	C101 on cells Geotextile & Underlayer	10-60kg	121	28-Jan-16 A	31-May-16	83						<mark>-</mark>	<mark>-</mark>	
BF-RFC2c-03		C101 on cells Rock Armour 2-5ton m3	25771m3	148	04-Feb-16 A	04-Jul-16	49				╞┾╋			,i	
BF-RFC2c-05		C101 Accropode Installation Stg3a 1,50	DOnrs	53	03-Mar-16 A	24-Apr-16 A									
BF-RFC2c-05		C101 Accropode Installation Stg3b 1,50	DOnrs	53	03-Mar-16 A	24-Apr-16 A									
BF-RFC2c-05		C101 Accropode Installation Stg4 1,262	2nrs 60nrs/day	22	25-Apr-16 A	16-May-16 A								·····	
BF-RFC2c-06) PC2c at C091 - 221m3/day	C101 in front of cells Rock Armour 2-5t	on 20,296m3	92	21-Apr-16 A	21-Jul-16	32						<mark>-</mark>		
Portion C2a A		h4+262 - Ch4+710)		174	21-Mar-16 A	10-Sep-16	395				┝┾╫	╈			+
BF-RFC2a-01	0 PC2a at C102 ·	- C112 on cells Removal of temporary ro	ckfill	41	21-Mar-16 A	30-Apr-16 A		—							
BF-RFC2a-02	0 PC2a at C102 - 10907m3 200m	- C112 on cells Geotextile & Underlayer	10-60kg	55	21-Apr-16 A	14-Jun-16	-227					•			
BF-RFC2a-03		- C112 on cells Rock Armour 2-5ton m3	25,210m3	57	21-May-16	16-Jul-16	-227		╘╘╸						
BF-RFC2a-04		- C112 in front of cells Removal of temp	orary rockfill	32	21-Apr-16 A	22-May-16	506								
BF-RFC2a-05		- C112 Accropode 5,226nrs 60nrs/day		87	17-May-16 A	11-Aug-16	-283		╘╼┲┲╋						┓╷
BF-RFC2a-06		C112 in front of cells Rock Armour 2-5te	on 19,855m3	46	27-Jul-16	10-Sep-16	-283								-
Surcharge	221m3/day			497	20-Sep-15 A	28-Dec-16	286		-++	╢╋┥	┝┿╫	┿╋╼			-
								1		11 1		11			
Remaining Le		♦ Milestone	54th_8	Monthly F	Progress Repor	rt Status as on 2 ²	1May2016	TASK filt	er: Th	ree N	lont	h Rol	ling.		
Actual Level of Actual Leve	f Effort	Summary			Page 8 o	if 21									
Actual Work															

/ ID	Activity Name	Original	Start	Finish	Total					_	201	6	l. d		_	
		Duration			Float		May 54			Ju 55			Jul 56		Au 57	
Land Portion B		374	27-Oct-15 A	04-Sep-16	401					FF					-	
Edge Areas		374	27-Oct-15 A	04-Sep-16	401											
at K013 - K027		240	09-Jan-16 A	04-Sep-16	-736				┫╋	┢┼╸						
SUEB0-040	PB Edge Area K013-K027 Sand Surcharge Period at +11.5mPD 8mths (4Sep2016)	240	09-Jan-16 A	04-Sep-16	-736										-	
at K028 - K035		164	20-Feb-16 A	01-Aug-16	-690	1			╋	┢┝						
SUEB0-090	PB Edge Area K028-K035 Sand Surcharge Period +11.5mPD 5mths	150	20-Feb-16 A	18-Jul-16	-690											
SUEB0-100	PB Edge Area K028-K035 Sand Surcharge Removal 49,985m3 + 14,904m3 5,000m3/day	13	19-Jul-16	01-Aug-16	-633											
SUEB0-110	PB Edge Area K028-K035 Completion (Target Date = 31Dec2014)	0		01-Aug-16*	-690									F		
at K036 - K039		167	26-Apr-16 A	31-May-16	497	-										
SUEB0-135	PB Edge Area K037-K039 Sand Surcharge Laying Instruction from RE (Del)	0	21-May-16*		508		+									
SUEB0-137	PB Edge Area Ch1470-1640 Removal of Surcharge by the Engineer	0		26-Apr-16 A		•										
SUEB0-139	PB Edge Area Ch1420-1470 Removal of Surcharge by the Engineer	0		18-May-16 A			•									
SUEB0-140	PB Edge Area K037-K039 Sand Surcharge Laying up to 11.5mPD 30,293m3 5,000m3/day (Del)	14	26-Apr-16 A	26-Apr-16 A	5	M										
SUEB0-150	PB Edge Area K036-K039 Sand Surcharge Period +11.5mPD 5mths (Del)	150	26-Apr-16 A	26-Apr-16 A	i,	•										
SUEB0-160	PB Edge Area K036-K039 Sand Surcharge Removal 21,630m3 5,000m3/day	10	26-Apr-16 A	31-May-16	-576	►										
SUEB0-170	PB Edge Area K036-K039 Completion (Target Date = 31Dec2014)	0		31-May-16*	-628											
at K047 - K052	(w Deep Cement Mixing)	215	27-Oct-15 A	28-May-16	-625			-7								
DCM-2070	PB Edge Area K047-K052 36-73m Surcharge Period 7mths (23Mav2016)	210	27-Oct-15 A	23-May-16	-626											
DCM-2080	PB Edge Area K047-K052 36-73m Surcharge Removal 20,000m3	5	24-May-16	28-May-16	-573		-									
DCM-2090	PB Edge Area K047-K052 Completion (Target Date = 31Dec2014)	0		28-May-16*	-625											
Land Portion C	2a	497	20-Sep-15 A	28-Dec-16	-128				╉	┢┝					-	
Edge Areas		442	14-Nov-15 A	28-Dec-16	-396		<mark>-</mark>									
Deep Cement	Mixing Works at C101 - C103	245	17-Dec-15 A	17-Aug-16	-688				╉	┢┝╴					-	-
												I	1	1		
Remaining Le		8 Monthly F	Progress Repor	rt Status as on 21	May2016	TASK	ilter: Th	ree	Mor	nth F	Rollin	g.				
Actual Level o	f Effort V Summary		Page 9 o	of 21												
Actual Work Remaining Work																

	Hong Kong - Zhuhai - Macao Bridge		-			-					0.0	<u> </u>			
ty ID	Activity Name	Original		Finish	Total		May			Jur	2010	6	Jul		Aug
		Duration			Float		54			55			<u> </u>		57
DCM-3070	PC2a Edge Area C101-C103 Surcharge Period 8mths (Land Side) (12Auq2016)	240	17-Dec-15 A	12-Aug-16	-688										7
DCM-3080	PC2a Edge Area C101-C103 Surcharge Removal 36,000m3	5	13-Aug-16	17-Aug-16	-688										-
DCM-3090	PC2a Edge Area C101-C103 Completion at 43-73m	0		17-Aug-16*	-688										4
VO - Deep Cer	nent Mixing Works at C104 - C107	240	13-Mar-16 A	07-Nov-16	-599										
DCM-4180	PC2a Edge Area C104-C107 Surcharge Period 8mths (Land Side)(07Nov2016)	240	13-Mar-16 A	07-Nov-16	-599						-				
VO - Deep Cer	nent Mixing Works at C108 - C109	240	21-Mar-16 A	15-Nov-16	-604										
DCM-5180	PC2a Edge Area C108-C109 Surcharge Period 8mths (Land Side) 15Nov2016	240	21-Mar-16 A	15-Nov-16	-604										
at C110 - C112	Cellular Seawall	320	15-Mar-16 A	28-Dec-16	-647				╋						+
VO - Deep Ce	ment Mixing Works at C110 - C112	320	15-Mar-16 A	28-Dec-16	-647									;	
DCM-4270	PC2a Edge Area C110-C112 Filling up to +11.5mPD Surcharge (50m width, 12,667m3 10,000m3/day at DCM	43	15-Mar-16 A	02-May-16 A											
DCM-4280	PC2a Edge Area C110-C112 Surcharge Period 8mths (Land Side) 29Dec2016	240	03-May-16 A	28-Dec-16	-647						-				
CH4+710 - CH	5+110 Rubble Mound Seawall	438	14-Nov-15 A	25-Dec-16	-393				╋	┢┝┥					
Deep Cement	: Mixing at CH4+710 - CH4+880	283	17-Apr-16 A	25-Dec-16	-399				╉	┢┾┪					
DCM-5060	PC2a Ch4+710 - Ch4+880 Surcharge Filling up to +11.5mPD 30.000m3	13	17-Apr-16 A	29-Apr-16 A											
DCM-5070	PC2a Ch4+710 - Ch4+880 Surcharge Monitoring 8mths (25Dec2016)	240	30-Apr-16 A	25-Dec-16	-399	-	-				-				
10-73m Ch4+	880 - Ch5+010	245	21-Dec-15 A	21-Aug-16	-267				╋	┢┾┥					
SUEC2a-1120	0 PC2a Ch4+880 - Ch5+010 Surcharge Sand Period 8mths (16Auq2016)	240	21-Dec-15 A	16-Aug-16	-267		-				-				-
SUEC2a-1130	PC2a Ch4+880 - Ch5+010 Surcharge Sand Removal 24,000m3 5,000m3/day	5	17-Aug-16	21-Aug-16	-244										-
73-120m		245	14-Nov-15 A	15-Jul-16	-230								-		
SUEC2a-209	0 PC2a C113-C117 73m-120m Surcharge Sand Period 8mths (10Jul2016)	240	14-Nov-15 A	10-Jul-16	-230		-						•		
SUEC2a-210	0 PC2a C113-C117 73m-120m Sand Surcharge Removal 54,000m3 10.000m3/day	5	11-Jul-16	15-Jul-16	-210							L	╺┝┓		
SUEC2a-2110	Completion of Section PC2aC2 at C113 - C117 73m-120m	0		15-Jul-16	-230								لمهر		
Reclamation A	reas	297	20-Sep-15 A	12-Jul-16	41				╋	╟┼┤					
	1	O Marstell 1			414-0040			• • • • •						1	
Remaining Lev		_o iviontniy i		rt Status as on 2	nviay2016	TASK	Tiliter: 11	ree	IVIO	ith R	oilin	g.			
Actual Level o	f Effort V Summary		Page 10	of 21											
Actual Work														_ .	. .
Remaining Wo	UIK												I	Primavera	Systen

			Start		Total			_	l				<u> </u>
		Duration			Float	May 54			Jun 55		Jul 56		Aug 57
C2aC1		262	25-Oct-15 A	12-Jul-16	41			FFF					T
SURC2aC1-070	PC2a C2aC1 Sand Surcharge Period 8mths (20Jun2016)	240	25-Oct-15 A	20-Jun-16	-630								
SURC2aC1-080	PC2a C2aC1 Top up to +11.5mPD 193,082m3 10,000m3/day for	19	21-Jun-16	12-Jul-16	35				┢╸═				
SURC2aC1-090	completion Completion of Section PC2a in C2aC1 Main Areas	0		20-Jun-16	-630				╘┱				J
C2aC2		254	20-Sep-15 A	30-May-16	-608		╾						
SURC2aC2-070	PC2a C2aC2 Sand Surcharge Period 8mths (17May2016)	241	20-Sep-15 A	17-May-16 A									
SURC2aC2-072	PC2a C2aC2 Sand Surcharge Removal instruction by the Engineer	0	21-May-16		-608								
SURC2aC2-080	PC2a C2aC2 Sand Surcharge Removal	10	21-May-16	30-May-16	-608	Ļ							
SURC2aC2-090	Completion of Section PC2a in C2aC2 Main Areas	0		30-May-16	-608		4						
Land Portion C1a	1	7	21-May-16	27-May-16	-614	•							
Reclamation Are	as	7	21-May-16	27-May-16	-614								
C4		7	21-May-16	27-May-16	-614	•							
SURC1a-152	PC1a South Sand Surcharge Removal instruction by the Engineer	0	21-May-16		-614	_							
SURC1a-160	PC1a South East Land Area Sand Surcharge Removal	3	21-May-16	24-May-16	-563	Ļ							
SURC1a-170	PC1a South West Land Area Sand Surcharge Removal	3	25-May-16	27-May-16	-563		┕┥═┫						
SURC1a-180	Completion of Section C1aC4	0		27-May-16	-614		┈┺┱┙						
Land Portion E2		271	21-Jan-16 A	19-Sep-16	-101			┝┼╫					
North Part		271	21-Jan-16 A	17-Sep-16	-99			┝┼╫					
Edge Areas - No	orth (C3)	145	30-Mar-16 A	21-Aug-16	-229			┝┾╋					
SUEE2-350	PE2 North Edge C3 Sand Surcharge Period as +8.5mPD 4.5mths	135	30-Mar-16 A	11-Aug-16	-229							—	
SUEE2-360	(11Aug2016) PE2 North Edge C3 Sand Surcharge CPT Test	10	12-Aug-16	21-Aug-16	-229							L=	
Edge Areas - No	orth (TM)	150	21-Apr-16 A	17-Sep-16	-593			┝┾╋					
SUEE2-480	PE2 North Edge TM Sand Surcharge Period as +11.5mPD 5mths	150	21-Apr-16 A	17-Sep-16	-593							_	
	(17Sep2016)					1			1	ì		<u> i </u>	
 Remaining Leve 	el of Effort Milestone 54th_	8 Monthly F	Progress Repor	rt Status as on 2	1May2016 T	ASK filter:	Three N	/lont	h Rollir	ng.			
Actual Level of			Page 11	of 21									
Actual Work			1 ago 11										
Remaining Wor	k										Dr	rimavera Sys	stom

/ ID	Activity Name	Original	Start	Finish	Total	Mai		lue	2016		
		Duration			Float	May 54		Jun 55		Jul 56	Aug 57
Edge Areas - E	ast (TM) C064-C067	150	21-Apr-16 A	17-Sep-16	-593						
SUEE2-150	PE2 East Edge C064-C067 Sand Surcharge Period as +11.5mPD 5mths (17Sep2016)	150	21-Apr-16 A	17-Sep-16	-593						
Land Areas - E	ast (TM) C057 - C063 Ch2+300 to Ch2+600	12	21-May-16	01-Jun-16	-482	٣					
SURE2-055	PE2 Land C057-C063 Removal of Surcharge instructed by the Engineer	0	21-May-16*		-481	_ _					
SURE2-060	PE2 Land C057-C063 Tunnel Sand Surcharge Removal at tunnel area 107,437m3 10,000m3/day	11	21-May-16	01-Jun-16	-440						
Land Areas - V		226	21-Jan-16 A	02-Sep-16	-84			╫┼──			
SURE2-180	PE2 Land C061-C064 Non-Tunnel Sand Surcharge Period as +11.5mPD non tunnel area 7mths 17Aug2016	210	21-Jan-16 A	17-Aug-16	-84						
SURE2-190	PE2 Land C061-C064 Non-Tunnel Sand Surcharge Removal non tunnel Area 147,437m3 10,000m3/day	15	18-Aug-16	02-Sep-16	-78						-
South Part		186	15-Apr-16 A	19-Sep-16	-101						
Edge Areas Ea	ast C058 to C063	150	21-Apr-16 A	17-Sep-16	-601			╫┼──			
SUEE2-040	PE2 Edge C058-C063 Sand Surcharge Period as +11.5mPD 5mths (17Sep2016)	150	21-Apr-16 A	17-Sep-16	-601						
VO DCM Edge	Areas East C056 to C057	150	21-Apr-16 A	19-Sep-16	-594			╆╫┼──			
DCM-4380	PE2 Edge C056-C057 Surcharge Period 7mths (Land Side) (17Sep2016)	150	21-Apr-16 A	19-Sep-16	-594				····		
Edge Areas Ea	ast C052 to C055	150	21-Apr-16 A	17-Sep-16	-595			╆╫┼──			
SURE2-440	PE2 Edge C052-C055 300m Zone Sand Surcharge Period as +11.5mPD 5mths	150	21-Apr-16 A	17-Sep-16	-595						
Land Areas		64	15-Apr-16 A	17-Jun-16	-7			┝╢╾┼╼╸			
300m to 100m	1 Zone	64	15-Apr-16 A	17-Jun-16	-7			┝╢╾┼╼╸			
SURE2-540	PE2 Land C052-C056 300m Zone Sand Surcharge Removal 105,782m3 10,000m3/day	17	15-Apr-16 A	31-May-16	-439				1		
SURE2-550	Completion of Section PE2 in Land C052-C056 300m Zone Reclamation Area	0		17-Jun-16	-7			●			
Out of K052 3		16	01-Jun-16	17-Jun-16	-7		┥┯╋	╆╫┼╼			
SURE2-030	PE2 Land C052-C060 Non-Tunnel Sand Surcharge Removal 158,673m3 + 28,116m3(C1b) 10,000m3/day	16	01-Jun-16	17-Jun-16	-7		L- population	╈╫╍╍			
Land Portion E		310	28-Dec-15 A	01-Nov-16	-635			11			
Deep Cement N	lixing C077 - C080 150m (Exclude VB & RS)	112	04-Apr-16 A	09-Sep-16	-582						
		9 Monthly	Progross Para	rt Status as on 2				nth D-	lling		- <u> </u>
 Remaining Level Actual Level or 						SK liiter: Tr		min KC	ning.		
Actual Level o Actual Work	f Effort VIII Summary		Page 12	of 21							
Remaining Work	- 4.										imavera Systerr

ontract No.	Hong Kong - Zhuhai - Macao Bridge		Hong Ko	ong Boundar	ry Cro	ssir	ng Fac	ilitie	s - F	lecla	matio	n Wo	rks		
vity ID	Activity Name	Original Duration	Start	Finish	Total Float			May			Jun	2016		Jul	Aug
DCM-4440	DE4 Edge Area Additional DOM Works Instruction		04 May 46 A					54			55	_		56	57
	PE1 Edge Area Additional DCM Works Instruction		04-May-16 A			_	.								
DCM-4450	PE1 Edge Area East Zone Additional DCM Works 1,007nrs by 4 plan	t 69	04-Apr-16 A	11-Jul-16	-582								٦		
DCM-4460	PE1 Edge Area West Zone Additional DCM Works 927nrs by 4 plant	59	13-Jul-16	09-Sep-16	-582								Ļ		
Edge Areas Exc	luded 150m of DCM Area	310	28-Dec-15 A	01-Nov-16	-652	-							1 1 1 1		
SUEE1-020	PE1 Edge Sand Surcharge Period +8.5mPD 4.5mths 10May2016	135	28-Dec-15 A	10-May-16 A				l,							
SUEE1-022	PE1 Edge Sand Surcharge Additional CPT Result	7	11-May-16 A	21-May-16	-652	-	•		•						
SUEE1-030	PE1 Edge Area at South of C071 Surcharge Laying up to +11.5mPD	12	23-May-16	04-Jun-16	-556	-		l							
SUEE1-040	50.000m3 4.200m3/day PE1 Edge Area at South of C071 Surcharge Period as +11.5mPD	150	05-Jun-16	01-Nov-16	-652					L					
Land Portion C2	5mths	372	01-Nov-15 A	06-Nov-16	338						┝╢───				
Edge Areas		301	11-Jan-16 A	06-Nov-16	338										
SUEC2b-060	PC2b Edge Area Surcharge Period as +8.5mPD 4.5mths 24May2016	135	11-Jan-16 A	24-May-16	502										
SUEC2b-070	(Del) PC2b Edge Area Sand Surcharge Laying upto 11.5mPD 12,054m3	2	25-May-16	26-May-16	471	-			┕╼□						
	(Del) PC2b Edge Area Sand Surcharge Laying 8.5mPD to 9.0mPD		11-Apr-16 A	25-Apr-16 A											
	2,009m3 PC2b Edge Area Sand Surcharge at 9.0mPD Observational Approact		26-Apr-16 A	26-Apr-16 A											
			·				<u></u>								
	PC2b Edge Area Sand Surcharge Laying 9.0mPD to 9.5mPD 2,009m3		27-Apr-16 A	03-May-16 A											
SUEC2b-070-05	PC2b Edge Area Sand Surcharge at 9.5mPD Observational Approach	n 13	04-May-16 A	16-May-16 A			•►						 		
SUEC2b-070-06	PC2b Edge Area Sand Surcharge Laying 9.5mPD to 10.0mPD 2,009m3	3	17-May-16 A	19-May-16 A				-							
SUEC2b-070-07	PC2b Edge Area Sand Surcharge at 10.0mPD Observational Approach	6	20-May-16 A	25-May-16	-236			·	~						
SUEC2b-070-08	PC2b Edge Area Sand Surcharge Laying 10.0mPD to 10.5mPD 2,009m3	1	26-May-16	26-May-16	-236	-			닐						
SUEC2b-070-09	PC2b Edge Area Sand Surcharge at 10.5mPD Observational	6	27-May-16	01-Jun-16	-236						•••				
SUEC2b-070-10	Approach PC2b Edge Area Sand Surcharge Laying 10.5mPD to 11.0mPD	1	02-Jun-16	02-Jun-16	-236					ĿЦ					
SUEC2b-070-11	2,009m3 PC2b Edge Area Sand Surcharge at 11.0mPD Observational	6	03-Jun-16	08-Jun-16	-236					Ļ	ļ				
SUEC2b-070-12	Approach PC2b Edge Area Sand Surcharge Laying 11.0mPD to 11.5mPD	1	09-Jun-16	09-Jun-16	-236					Ļ					
	2,009m3								11						
Remaining Leve	el of Effort Milestone 54th	_8 Monthly F	Progress Repor	rt Status as on 2 ⁻	1May20 [,]	16	TASK 1	ilter:	Thre	e Mc	onth Ro	olling.			
Actual Level of	Effort Summary		Page 13	of 21											
Actual Work			-												
Remaining Wor														Prin	navera System
Critical Remain														F 111	navera Sysle

/ ID	Activity Name	Original	Start	Finish	Total					2	016		
		Duration			Float		May 54			Jun 55		Jul 56	Aug 57
SUEC2b-080	PC2b Edge Area Sand Surcharge Period as +11.5mPD 5mths	150	10-Jun-16	06-Nov-16	-236				T۴				
Reclamation Ar	eas	220	01-Nov-15 A	07-Jun-16	-146								
North		220	01-Nov-15 A	07-Jun-16	-146		1		┥┥				
SURC2b-020	PC2b Main Area North Public Surcharge Period as +11.5mPD 7mth (28Mav2016)	s 210	01-Nov-15 A	28-May-16	-146		 						
SURC2b-030	PC2b Main Area North Public Surcharge Removal 42,609m3 5,000m3/day	9	29-May-16	07-Jun-16	-132			╘╸	ŧ1				
SURC2b-040	Completion of Section PC2b at Reclamation Area North	0)	07-Jun-16	-146				7				
South		71	22-Mar-16 A	31-May-16	-139								
SURC2b-036	PC2b Main Area South PBF Surcharge Removal 137,244m3 5,000m3/day	46	22-Mar-16 A	31-May-16	-126			┝┿┯╤		·			
SURC2b-050	Completion of Section PC2b at Reclamation Area South	0)	31-May-16	-139			╘	7				
Land Portion C2	c	389	27-Oct-15 A	18-Nov-16	326				╈	+			
Edge Areas		266	27-Feb-16 A	18-Nov-16	326				╈	+			
SUEC2c-020	PC2c Edge Area PBF Surcharge Period +8.5mPD 4.5mths 10Jul2016 (Del)	135	27-Feb-16 A	10-Jul-16	452								
SUEC2c-030	PC2c Edge Area Sand Surcharge Laying upto 11.5mPD 43,395m3 Del	5	i 11-Jul-16	15-Jul-16	428								
SUEC2c-030-02	PC2c Edge Area Sand Surcharge Laying 8.5mPD to 9.0mPD 7.235m3	11	13-Apr-16 A	25-Apr-16 A		; -1 ;							
SUEC2c-030-03	PC2c Edge Area Sand Surcharge at 9.0mPD Observational Approact	:h 1	26-Apr-16 A	26-Apr-16 A									
SUEC2c-030-04	PC2c Edge Area Sand Surcharge Laying 9.0mPD to 9.5mPD 7.232m3	6	27-Apr-16 A	03-May-16 A		-							
SUEC2c-030-05	PC2c Edge Area Sand Surcharge at 9.5mPD Observational Approact	h 13	04-May-16 A	16-May-16 A									
SUEC2c-030-06	PC2c Edge Area Sand Surcharge Laying 9.5mPD to 10.0mPD 7.232m3	3	17-May-16 A	19-May-16 A			•						
SUEC2c-030-07	PC2c Edge Area Sand Surcharge at 10.0mPD Observational Approach	6	20-May-16 A	25-May-16	-223		-						
SUEC2c-030-08	PC2c Edge Area Sand Surcharge Laying 10.0mPD to 10.5mPD 7.232m3	4	27-May-16	31-May-16	-192			┕╴═					
SUEC2c-030-09	PC2c Edge Area Sand Surcharge at 10.5mPD Observational Approach	6	01-Jun-16	06-Jun-16	-224			┕╸					
SUEC2c-030-10	PC2c Edge Area Sand Surcharge Laying 10.5mPD to 11.0mPD 7,232m3	4	07-Jun-16	10-Jun-16	-192								
SUEC2c-030-11	PC2c Edge Area Sand Surcharge at 11.0mPD Observational Approach	6	5 11-Jun-16	16-Jun-16	-224				Η	+			
		0.14											
 Remaining Lev 		ז_8 iviontnly i		rt Status as on 2 ⁻	iviay201	⁰ י	ASK filter:	Inree	IVION	tn Koll	ing.		
Actual Level of	Effort Summary		Page 14	of 21									
Actual Work Remaining Wo	rt.												a .
-	ing Work											Prin	navera Systems

y ID	Activity Name	Original	Start	Finish	Total				201		
		Duration			Float		May 54		Jun 55	Jul 56	Aug 57
SUEC2c-030-12	2 PC2c Edge Area Sand Surcharge Laying 11.0mPD to 11.5mPD 7,232m3	4	17-Jun-16	21-Jun-16	-192						
SUEC2c-040	PC2c Edge Area Sand Surcharge Period 2nd stage 5mths	150	22-Jun-16	18-Nov-16	-224				║╘		
Reclamation Ar	reas	315	27-Oct-15 A	05-Sep-16	-141						
West		229	27-Oct-15 A	11-Jun-16	-55						
SURC2c-W030	DPC2c Main Area PBF Surcharge Period 7mths (23May2016)	210	27-Oct-15 A	23-May-16	-76						
SURC2c-W040	D PC2c Main Area PBF Surcharge Removal 90162m3 10,000m3/day	18	24-May-16	11-Jun-16	-70		-		₩ -		
SURC2c-W050	Completion of Section PC2c at Reclamation Area	0		11-Jun-16	-55				¶		
East		229	21-Jan-16 A	05-Sep-16	-142						
SURC2c-E030	PC2c Main Area PBF Surcharge Period 7mths (17Aug2016)	210	21-Jan-16 A	17-Aug-16	-142					· i	-
SURC2c-E040	PC2c Main Area PBF Surcharge Removal 90163m3 10,000m3/day	18	18-Aug-16	05-Sep-16	-132						ا
Portion D		200	21-Feb-16 A	07-Sep-16	-251						
Site Construc	tion	200	21-Feb-16 A	07-Sep-16	-251						
C1 to C4		200	21-Feb-16 A	07-Sep-16	-251						
Installations of I	Precast Culverts except sloping outfalls	32	21-Apr-16 A	21-Jun-16	-173						
Culvert C2		16	21-Apr-16 A	05-May-16 A	-						
C2-2		4	21-Apr-16 A	24-Apr-16 A	-	•					
PD-C2-2-120	PD C2-2 Backfill Manhole upto +5.5mPD	4	21-Apr-16 A	24-Apr-16 A	-						
C2-3		4	25-Apr-16 A	28-Apr-16 A							
PD-C2-3-120	PD C2-3 Backfill Manhole upto +5.5mPD	4	25-Apr-16 A	28-Apr-16 A	-	-					
C2-4		4	29-Apr-16 A	02-May-16 A							
PD-C2-4-120	PD C2-4 Backfill Manhole upto +5.5mPD	4	29-Apr-16 A	02-May-16 A							
C2-5		4	03-May-16 A	05-May-16 A							
PD-C2-5-120	PD C2-5 Backfill Manhole upto +5.5mPD	4	03-May-16 A	05-May-16 A							
Remaining Lev	vel of Effort ♦ ♦ Milestone 54th_	_8 Monthly F	Progress Repo	rt Status as on 2 ²	1May2016		filter: Thr	ee Mo	onth Rolling	a.	
 Actual Level of 			Page 15					-		<u> </u>	
Actual Work			Ŭ								
Remaining Wo	ЛК										Primavera Systen

/ ID	Activity Name	Original	Start	Finish	Total			2016		
,		Duration			Float	May 54		Jun 55	Jul 56	Aug 57
Culvert C3		16	21-May-16	05-Jun-16	-173		-			
C3-2		4	21-May-16	24-May-16	<mark>-173</mark>	-				
PD-C3-2-120	PD C3-2 Backfill Manhole upto +5.5mPD	4	21-May-16	24-May-16	-173					
C3-3		4	25-May-16	28-May-16	<mark>-173</mark>		•			
PD-C3-3-120	PD C3-3 Backfill Manhole upto +5.5mPD	4	25-May-16	28-May-16	-173	╘╴				
C3-4		4	29-May-16	01-Jun-16	-173		**			
PD-C3-4-120	PD C3-4 Backfill Manhole upto +5.5mPD	4	29-May-16	01-Jun-16	-173	L	-			
C3-5		4	02-Jun-16	05-Jun-16	<mark>-173</mark>					
PD-C3-5-120	PD C3-5 Backfill Manhole upto +5.5mPD	4	02-Jun-16	05-Jun-16	-173		╘┓			
Culvert C4		16	06-Jun-16	21-Jun-16	-173		-			
C4-2		4	06-Jun-16	09-Jun-16	-173					
PD-C4-2-120	PD C4-2 Backfill Manhole upto +5.5mPD	4	06-Jun-16	09-Jun-16	-173		╘╼═			
C4-3		4	10-Jun-16	13-Jun-16	-173			-		
PD-C4-3-120	PD C4-3 Backfill Manhole upto +5.5mPD	4	10-Jun-16	13-Jun-16	-173		<u>لم</u>			
C4-4		4	14-Jun-16	17-Jun-16	<mark>-173</mark>					
PD-C4-4-120	PD C4-4 Backfill Manhole upto +5.5mPD	4	14-Jun-16	17-Jun-16	-173			-		
C4-5		4	18-Jun-16	21-Jun-16	<mark>-173</mark>					
PD-C4-5-120	PD C4-5 Backfill Manhole upto +5.5mPD	4	18-Jun-16	21-Jun-16*	-173			╘╾═		
Construction of	f Sloping Outfalls	60	18-Apr-16 A	20-May-16 A						
Culvert C1 Slo	ping Outfall	7	21-Apr-16 A	27-Apr-16 A						
PD-C1-0160	PD C1-1 Outfall Backfill	7	21-Apr-16 A	27-Apr-16 A						
Culvert C3 Slo	ping Outfall	60	18-Apr-16 A	20-May-16 A						
PD-C3-0120	PD C3-1 Outfall Formation	5	18-Apr-16 A	22-Apr-16 A						
- Remaining Le	vel of Effort Milestone	54th_8 Monthly F	Progress Repo	rt Status as on 2	1May2016 T A	SK filter: Thre	ee Mont	h Rolling.		
Actual Level of			Page 16	of 21				5		
Actual Work	ork									
Remaining WCritical Rema									Prim	navera Systen

'ID	Activity Name	Original	Start	Finish	Total					2016			
	Addivity Name	Duration			Float		May		Jun		Ju		Aug
DD 00 0105	DD 00.4 Durante		01.4== 10.4	00.4==40.4			54		55		56	<u>ð</u>	57
PD-C3-0125	PD C3-1 Buoyancy	2	21-Apr-16 A	22-Apr-16 A		3							
PD-C3-0130	PD C3-1 Outfall Installation (10Mar2016)	2	23-Apr-16 A	24-Apr-16 A		9							
PD-C3-0140	PD C3-1 Outfall Removal of Buoyancy & Bulkhead	4	25-Apr-16 A	30-Apr-16 A		-							/
PD-C3-0150	PD C3-1 Outfall Insitu Concrete	14	30-Apr-16 A	14-May-16 A		-							
PD-C3-0160	PD C3-1 Outfall Backfill	7	15-May-16 A	20-May-16 A			· •						
Culvert C4 Slo	ping Outfall	7	21-Apr-16 A	27-Apr-16 A		-							
PD-C4-0160	PD C4-1 Outfall Backfill	7	21-Apr-16 A	27-Apr-16 A	ľ	-]		
Removal of Ten	nporary Bridge and Channel Beside Existing Seawall	51	26-May-16	20-Jul-16	-317							-	
PD-TD1-0030	PD EC1 Beside Existing Seawall - Diversion Access advised by other project C2	0		26-May-16*	-317			^					
PD-TD1-0040	PD EC1 Beside Existing Seawall - Removal of Temporary bridge, concrete blocks & Ramp	21	27-May-16	17-Jun-16	-317								
PD-TD1-0050	PD EC1 Beside Existing Seawall - Reinstatement	30	18-Jun-16	20-Jul-16	-317							-	
PD-TD1-0999	Completion of PD EC1	0		20-Jul-16	-317								
Construction of	Permanent Seawall	200	21-Feb-16 A	07-Sep-16	-568			1					
Vertical Seawa	II Type V2 6+136 to 5+650	200	21-Feb-16 A	07-Sep-16	-616								
Foundation Lo	eveling	91	21-Feb-16 A	31-May-16	-538								
PD-V2-0050	PD C1 West - Vertical Seawall V2 VSOP22-20 Foundation Leveling 3,000m2 and Geotextile	7	21-May-16	28-May-16	-625								
PD-V2-920	PD C4 East - Vertical Seawall V2 VSOP04-01 Foundation Leveling 3,000m2 and Geotextile	66	21-Feb-16 A	31-May-16	-538								
Seawall Block		26	29-May-16	25-Jun-16	-538					7			
PD-V2-0070	PD C1 West - Vertical Seawall Blocks V2 VSPD22-20 Type 2E & 2A 352nrs (30nrs/day)	12	29-May-16	10-Jun-16	-625								
PD-V2-0150	PD C4 East - Vertical Seawall Blocks V2 VSOP04-01 Type 2A2, 2A1 & 2B 548nrs (24nrs/day)	23	01-Jun-16	25-Jun-16	-538			┕╴				┢╌┟┝	_
Rockfill Type	2 behind seawall	38	21-May-16	30-Jun-16	-538								
PD-V2-0180	PD C1 West - Vertical Seawall V2 Rockf ill Type 2 VSOP22-20 1,400m3	3	11-Jun-16	13-Jun-16	-625								
PD-V2-0210	PD C3/C4 - Vertical Seawall V2 Rockf ill Type 2 VSOP10-05 2,500m3	5	21-May-16	26-May-16	-539								
- Remaining Le	vel of Effort Milestone 54th	8 Monthly F	Progress Repo	rt Status as on 21	May201		K filter:	Three M	lonth R	ollina.			
Actual Level of		,											
Actual Level of Actual Work			Page 17	of 21									
Remaining Work	ork											n *	novara Overte v
Critical Remai												Prim	navera System

ID	Activity Name	Original	Start	Finish	Total	May		∠ Jun	016	Jul		A~
		Duration			Float	54		55		56		Aug 57
PD-V2-0220	PD C4 East - Vertical Seawall V2 Rockf ill Type 2 VSOP04-01 2,500m3	5	26-Jun-16	30-Jun-16	-538				17			
Geotextile Typ		36	27-May-16	04-Jul-16	-538	•						
PD-V2-0230	PD C1 West - Vertical Seawall V2 Geotextile Type 1 VSOP22-20 1,000m2	2	14-Jun-16	15-Jun-16	-625			►∎				
PD-V2-0260	PD C3/C4 - Vertical Seawall V2 Geotextile Type 1 VSOP10-05 1.700m2	3	27-May-16	29-May-16	-539							
PD-V2-0270	PD C4 East - Vertical Seawall V2 Geotextile Type 1 VSOP04-01 1.700m2	3	01-Jul-16	04-Jul-16	-538				╘╼			
Reclamation (ipto +3.25mPD	39	30-May-16	10-Jul-16	-538		-			7		
PD-V2-0280	PD C1 West - Vertical Seawall V2 backfill with compaction upto +3.25mPD VSOP22-20	6	16-Jun-16	22-Jun-16	-625			╘				
PD-V2-0310	PD C3/C4 - Vertical Seawall V2 backfill with compaction upto +3.25mPD VSOP11-05	8	30-May-16	07-Jun-16	-539		-					
PD-V2-0320	PD C4 East - Vertical Seawall V2 backfill with compaction upto +3.25mPD VSOP05-01	6	05-Jul-16	10-Jul-16	-538					-		
Insitu Concre		110	21-May-16	07-Sep-16	-681							
PD-V2-0322	Construction of Coping allowed by Other Contract C03	0	21-May-16		-648	•						
PD-V2-0330	PD C1 West - Vertical Seawall V2 Insitu Coping VSOP22-20 8bays	16	23-Jun-16	09-Jul-16	-625			┕		-		
PD-V2-0340	PD C1/C2 - Vertical Seawall V2 Insitu Coping VSOP20-16 11bays	22	10-Jul-16	02-Aug-16	-625						ſ	
PD-V2-0350	PD C2/C3 - Vertical Seawall V2 Insitu Coping VSOP16-11 17bays	34	03-Aug-16	07-Sep-16	-625							•
Reclamation	ipto +5.5mPD	34	10-Jul-16	15-Aug-16	-543					Y		
PD-V2-0380	PD C1 West - Vertical Seawall V2 backfill with compaction upto +5.5mPD VSOP22-20	5	10-Jul-16	14-Jul-16	-514				L			
PD-V2-0390	PD C1/2 - Vertical Seawall V2 backfill with compaction upto +5.5mPD VSOP20-16	12	03-Aug-16	15-Aug-16	-579							
Rock Armour		60	11-Jun-16	13-Aug-16	-542					<u> </u>		
PD-V2-0910	PD C1 West - Vertical Seawall V2 Armour VSOP22-20	9	11-Jun-16	20-Jun-16	-542							
PD-V2-0920	PD C1/2 - Vertical Seawall V2 Armour VSOP20-16	14	21-Jun-16	05-Jul-16	-542			-				
PD-V2-0930	PD C2/3 - Vertical Seawall V2 Armour VSOP16-11	14	06-Jul-16	20-Jul-16	-542				L			
PD-V2-1000	PD C3/4 - Vertical Seawall V2 Armour VSOP11-05	14	21-Jul-16	04-Aug-16	-542					-		-
PD-V2-990	PD C4 East - Vertical Seawall V2 Armour VSOP05-01	9	05-Aug-16	13-Aug-16	-542							-
 Remaining Le 	vel of Effort ♦ ♦ Milestone 54th_	9 Monthly F		art Statuc ac ar (21May2016 TA							

Primavera Systems, Inc.

Remaining Work

Critical Remaining Work

/ ID	Activity Name	Original	Start	Finish	Total	May	lum	2016	Jul	
		Duration			Float	54	Jun 55		56	Aug 57
Sloping Seawa	II Type S1 0+000 to 0+420	85	21-May-16	20-Aug-16	-503					
Removal of S	outh Temporary Seawall S1	56	21-May-16	20-Jul-16	-474					
PD-S1-0010	PD C1 West - Removal of S1 Temporary seawall	7	21-May-16	28-May-16	-481					
PD-S1-0015	PD C1/2 - Removal of S1 Temporary seawall	14	29-May-16	12-Jun-16	-481					
PD-S1-0020	PD C2/3 - Removal of S1 Temporary Seawall	14	13-Jun-16	27-Jun-16	-474			━━━━	┿┹┹	1
PD-S1-0025	PD C3/4 - Removal of S1 Temporary Seawall	14	28-Jun-16	12-Jul-16	-474			▕┡╈┿	╞╸╽╴╽	
PD-S1-0030	PD C4 East - Removal of S1 Temporary Seawall	7	13-Jul-16	20-Jul-16	-474					
S1 Rockfill Ty	pe 1	56	22-Jun-16	20-Aug-16	-503			╺╺╋╍╧╋╍╸	━━╋━╋	
PD-S1-1010	PD C1 West - Sloping Seawall Type S1 Reconstruction	14	22-Jun-16	06-Jul-16	-503					
PD-S1-1020	PD C1/2 - Sloping Seawall Type S1 Reconstruction	21	07-Jul-16	28-Jul-16	-503			╷╷╷╷╷	━┿┿	
PD-S1-1030	PD C2/3 - Sloping Seawall Type S1 Reconstruction	21	29-Jul-16	20-Aug-16	-503					
Extension Cul	vert EC1	64	19-Apr-16 A	21-Jun-16	-550	<mark>-</mark>		-		
Insitu Concrete		45	19-Apr-16 A	01-Jun-16	-535		-			
EC1-1		41	19-Apr-16 A	29-Apr-16 A						
PD-EC1-1-290	PD EC1-1 MJ Preparation	4	19-Apr-16 A	22-Apr-16 A	L					
PD-EC1-1-300	PD EC1-1 MJ Base concrete	1	23-Apr-16 A	23-Apr-16 A	+-					
PD-EC1-1-310	PD EC1-1 MJ Upper concrete	1	29-Apr-16 A	29-Apr-16 A						
EC1-2		6	21-Apr-16 A	28-Apr-16 A						
PD-EC1-2-290	PD EC1-2 MJ Preparation	4	21-Apr-16 A	25-Apr-16 A						
PD-EC1-2-300	PD EC1-2 MJ concrete	1	26-Apr-16 A	28-Apr-16 A	►					
EC1-3		34	23-Apr-16 A	03-May-16 A		-				
PD-EC1-3-290	PD EC1-3 MJ Preparation	4	23-Apr-16 A	27-Apr-16 A						
PD-EC1-3-300	PD EC1-3 MJ concrete	1	28-Apr-16 A	03-May-16 A		-				
Remaining Le	vel of Effort Milestone	54th_8 Monthly F	Progress Repo	rt Status as on 2	1May2016	ASK filter: Thre	e Month Ro	ollina		
 Actual Level of 			Page 19					5.		
Actual Work			i aye 19	01 2 1						
Remaining W	ork								P	rimavera Syster

y ID	Activity Name	Original	Start	Finish	Total					016		
		Duration			Float		May 54		Jun 55		Jul 56	Aug 57
EC1-4		10	24-Apr-16 A	21-May-16	-540							
PD-EC1-4-280	PD EC1-4 Removal of top slab Formwork	3	24-Apr-16 A	26-Apr-16 A		-						
PD-EC1-4-290	PD EC1-4 MJ Preparation	4	27-Apr-16 A	30-Apr-16 A								
PD-EC1-4-300	PD EC1-4 MJ concrete	1	21-May-16	21-May-16	-540		•					
EC1-5		6	27-Apr-16 A	26-May-16	-541							
PD-EC1-5-280	PD EC1-5 Removal of top slab Formwork	4	27-Apr-16 A	30-Apr-16 A				-				
PD-EC1-5-290	PD EC1-5 MJ Preparation	4	21-May-16	25-May-16	-441		•					
PD-EC1-5-300	PD EC1-5 MJ concrete	1	26-May-16	26-May-16	-541		L-1_					
EC1-6		13	01-May-16 A	21-May-16	-532							
PD-EC1-6-280	PD EC1-6 Removal of top slab Formwork	4	01-May-16 A	04-May-16 A								
PD-EC1-6-290	PD EC1-6 MJ Preparation	4	05-May-16 A	09-May-16 A			.					
PD-EC1-6-300	PD EC1-6 MJ concrete	1	21-May-16	21-May-16	-532		•					
EC1-7		12	05-May-16 A	26-May-16	-534	-						
PD-EC1-7-280	PD EC1-7 Removal of top slab Formwork	4	05-May-16 A	08-May-16 A		•						
PD-EC1-7-290	PD EC1-7 MJ Preparation	4	20-May-16 A	25-May-16	-435		-					
PD-EC1-7-300	PD EC1-7 MJ concrete	1	26-May-16	26-May-16	-534		╘					
EC1-8		12	09-May-16 A	01-Jun-16	-535			-				
PD-EC1-8-280	PD EC1-8 Removal of top slab Formwork	4	09-May-16 A	12-May-16 A		-	•					
PD-EC1-8-290	PD EC1-8 MJ Preparation	4	27-May-16	31-May-16	-435							
PD-EC1-8-300	PD EC1-8 MJ concrete	1	01-Jun-16	01-Jun-16	-535			┥┥┥				
Backfilling & Re	clamation	32	21-May-16	21-Jun-16	-541				┢┿┿╸			
PD-EC1-0100-02	PD EC1-1 Backfill and Compaction	4	21-May-16	24-May-16	-541		•					
PD-EC1-0100-03	PD EC1-2 Backfill and Compaction	4	25-May-16	28-May-16	-541		L-jeg					
	1											
 Remaining Lev Actual Level of 		54th_8 Monthly F			1May201	∘ µASK	Tilter: Three	e Moi	nth Roll	ing.		
Actual Level of Actual Work	Effort Summary		Page 20	of 21								
Remaining Wo	rk										1	Primavera System

ity ID	Activity Name	Original		Finish	Total	 101		2016	 le d	A
		Duration			Float	/lay 54		Jun 55	Jul 56	Aug 57
PD-EC1-0100-04	PD EC1-3 Backfill and Compaction	4	29-May-16	01-Jun-16	-541	-				
PD-EC1-0100-05	PD EC1-4 Backfill and Compaction	4	02-Jun-16	05-Jun-16	-541	L	┊╞╡╏╏		-	
PD-EC1-0100-06	PD EC1-5 Backfill and Compaction	4	06-Jun-16	09-Jun-16	-541					
PD-EC1-0100-07	PD EC1-6 Backfill and Compaction	4	10-Jun-16	13-Jun-16	-541		-			
PD-EC1-0100-08	PD EC1-7 Backfill and Compaction	4	14-Jun-16	17-Jun-16	-541		4	╞	-	
PD-EC1-0100-09	PD EC1-8 Outfall Backfill and Compaction	4	18-Jun-16	21-Jun-16	-541	 	- 1			
Vorks Area V	WA2 (Tung Chung)	1434	21-May-12 A	28-Feb-17	0					
Zone A		1434	21-May-12 A	28-Feb-17	0					
A1880	Maintenance of Engineer's Accommodation	1434	21-May-12 A	28-Feb-17	0					
Vorks Area T	rko Fill Bank	1254	25-Sep-12 A	30-Nov-16	0					
WA-TKO-1040	Operate and Maintain Public Fill Sorting Facilities in Zone A, B1 & B2	1254	25-Sep-12 A	30-Nov-16	0					<u> </u>
WA-TKO-1040	Operate and Maintain Public Fill Sorting Facilities in Zone A, B1 & B2	1254	25-Sep-12 A	30-Nov-16	0					

EIA Ref.	EM&A Log	Environmental Mitigation Measures	Location	Implementation
	Ref			Status
Air Quality	<u>.</u>	•		
S5.5.6.1 of	A1	The contractor shall follow the procedures and requirements given in the Air Pollution	All construction sites	V
HKBCFEIA		Control (Construction Dust) Regulation		
S5.5.6.2 of HKBCFEIA	A2	Proper watering of exposed spoil should be undertaken throughout the construction phase:	All construction sites	V
and S4.8.1 of		Any excavated or stockpile of dusty material should be covered entirely by		
TKCLKLEIA		impervious sheeting or sprayed with water to maintain the entire surface wet and		
		then removed or backfilled or reinstated where practicable within 24 hours of the		
		excavation or unloading;		
		• Any dusty materials remaining after a stockpile is removed should be wetted with water and cleared from the surface of roads;		
		• A stockpile of dusty material should not be extend beyond the pedestrian barriers, fencing or traffic cones.		
		• Where practicable, vehicle washing facilities with high pressure water jet should be		
		provided at every discernible or designated vehicle exit point. The area where		
		vehicle washing takes place and the road section between the washing facilities		
		and the exit point should be paved with concrete, bituminous materials or		
		hardcores;		
		• When there are open excavation and reinstatement works, hoarding of not less		
		than 2.4m high should be provided as far as practicable along the site boundary		

Monthly EM&A Report for May 2016

EIA Ref.	EM&A Log	Environmental Mitigation Measures	Location	Implementation
	Ref			Status
		with provision for public crossing. Good site practice shall also be adopted by the Contractor to ensure the conditions of the hoardings are properly maintained throughout the construction period;		
		• The portion of any road leading only to construction site that is within 30m of a vehicle entrance or exit should be kept clear of dusty materials;		
		 Surfaces where any pneumatic or power-driven drilling, cutting, polishing or other mechanical breaking operation takes place should be sprayed with water or a dust suppression chemical continuously; 		
		 Any area that involves demolition activities should be sprayed with water or a dust suppression chemical immediately prior to, during and immediately after the activities so as to maintain the entire surface wet; 		
		 Where a scaffolding is erected around the perimeter of a building under construction, effective dust screens, sheeting or netting should be provided to enclose the scaffolding from the ground floor level of the building, or a canopy should be provided from the first floor level up to the highest level of the scaffolding; 		
		 Any skip hoist for material transport should be totally enclosed by impervious sheeting; 		
		• Every stock of more than 20 bags of cement or dry pulverised fuel ash (PFA) should be covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides;		
		Cement or dry PFA delivered in bulk should be stored in a closed silo fitted with an		

Monthly EM&A Report for May 2016

EIA Ref.	EM&A Log	Environmental Mitigation Measures	Location	Implementation
	Ref			Status
		audible high level alarm which is interlocked with the material filling line and no overfilling is allowed;		
		 All unpaved roads/exposed area shall be watered which results in dust suppression by forming moist cohesive films among the discrete grains of road surface material. No burning of debris or other materials on the works areas is allowed; Water spray shall be used during the handling of fill material at the site and at active 		
		 Open dropping heights for excavated materials shall be controlled to a maximum 		
		 height of 2m to minimise the fugitive dust arising from unloading; During transportation by truck, materials shall not be loaded to a level higher than 		
		 During transportation by truck, materials shall not be loaded to a level higher than the side and tail boards, and shall be dampened or covered before transport. Materials having the potential to create dust shall not be loaded to a level higher 		
		than the side and tail boards, and shall be covered by a clean tarpaulin. The tarpaulin shall be properly secured and shall extend at least 300mm over the edges		
		of the side and tail boards;		
		Loading, unloading, transfer, handling or storage of bulk cement or dry PFA should be carried out in a totally enclosed system or facility, and any vent or exhaust		
		should be fitted with an effective fabric filter or equivalent air pollution control system; and		
		• Exposed earth should be properly treated by compaction, turfing, hydroseeding, vegetation planting or sealing with latex, vinyl, bitumen, shotcrete or other suitable		

Monthly EM&A Report for May 2016

EIA Ref.	EM&A Log	Environmental Mitigation Measures	Location	Implementation
	Ref			Status
		surface stabiliser within six months after the last construction activity on the		
		construction site or part of the construction site where the exposed earth lies.		
S5.5.6.3 of	A3	The Contractor should undertake proper watering on all exposed spoil and associated	All construction sites	V
HKBCFEIA		work areas (with at least 8 times per day) throughout the construction phase.		
and S4.8.1 of				
TKCLKLEIA				
S5.5.6.4 of	A4	Implement regular dust monitoring under EM&A programme during the construction	Selected	V
HKBCFEIA		stage.	representative dust	
and S4.11 of			monitoring station	
TKCLKLEIA				
S5.5.7.1 of	A5	The following mitigation measures should be adopted to prevent fugitive dust emissions	All construction sites	N/A
HKBCFEIA		for concrete batching plant:		
		• Loading, unloading, handling, transfer or storage of any dusty materials should be		
		carried out in totally enclosed system;		
		All dust-laden air or waste gas generated by the process operations should be		
		properly extracted and vented to fabric filtering system to meet the emission limits		
		for TSP;		
		• Vents for all silos and cement/ pulverised fuel ash (PFA) weighing scale should be		
		fitted with fabric filtering system;		
		The materials which may generate airborne dusty emissions should be wetted by		
		water spray system;		

Monthly EM&A Report for May 2016

EIA Ref.	EM&A Log	Environmental Mitigation Measures	Location	Implementation
	Ref			Status
		All receiving hoppers should be enclosed on three sides up to 3m above unloading point;		
		All conveyor transfer points should be totally enclosed;		
		All access and route roads within the premises should be paved and wetted; and		
		Vehicle cleaning facilities should be provided and used by all concrete trucks		
		before leaving the premises to wash off any dust on the wheels and/or body.		
S5.5.2.7 of	A6	The following mitigation measures should be adopted to prevent	All construction sites	N/A
HKBCFEIA		fugitive dust emissions at barging point:		(Construction in
		All road surface within the barging facilities will be paved;		process)
		Dust enclosures will be provided for the loading ramp;		
		Vehicles will be required to pass through designated wheels wash facilities; and		
		Continuous water spray at the loading points.		
Construction	Noise (Air bor	ne)		I
S6.4.10 of	N1	Use of good site practices to limit noise emissions by considering the following:	All construction sites	V
HKBCFEIA		only well-maintained plant should be operated on-site and plant should be		
		serviced regularly during the construction programme;		
		• machines and plant (such as trucks, cranes) that may be in intermittent use should		
		be shut down between work periods or should be throttled down to a minimum;		
		• plant known to emit noise strongly in one direction, where possible, be orientated		

Monthly EM&A Report for May 2016

EIA Ref.	EM&A Log	Environmental Mitigation Measures	Location	Implementation
	Ref			Status
		so that the noise is directed away from nearby NSRs;		
		silencers or mufflers on construction equipment should be properly fitted and		
		maintained during the construction works;		
		• mobile plant should be sited as far away from NSRs as possible and practicable;		
		• material stockpiles, mobile container site officer and other structures should be		
		effectively utilised, where practicable, to screen noise from on-site construction		
		activities.		
S6.4.11 of	N2	Install temporary hoarding located on the site boundaries between noisy construction	All construction sites	V
HKBCFEIA		activities and NSRs. The conditions of the hoardings shall be properly maintained		
		throughout the construction period.		
S6.4.12 of	N3	Install movable noise barriers (typically density @14kg/m ²), acoustic mat or full	For plant items listed	N/A
HKBCFEIA		enclosure close to noisy plants including air compressor, generators, saw.	in Appendix 6D of the	
			EIA report at all	
			construction sites	
S6.4.13 of	N4	Select "Quiet plants" which comply with the BS 5228 Part 1 or TM standards.	For plant items listed	V
HKBCFEIA			in Appendix 6D of the	
			EIA report at all	
			construction sites	
S6.4.14 of	N5	Sequencing operation of construction plants where practicable.	All construction sites	V
HKBCFEIA			where practicable	
S5.1 of	N6	Implement a noise monitoring under EM&A programme.	Selected	V

Monthly EM&A Report for May 2016

EIA Ref.	EM&A Log	Environmental Mitigation Measures	Location	Implementation
	Ref			Status
TMCLKLEIA			representative noise	
			monitoring station	
Waste Manag	jement (Consti	ruction Waste)		
S12.6 of	WM1	The Contractor shall identify a coordinator for the management of waste.	All construction sites	V
TMCLKLEIA			All construction sites	
S12.6 of	WM2	The Contractor shall apply for and obtain the appropriate licenses for the disposal of	All construction sites	V
TMCLKLEIA		public fill, chemical waste and effluent discharges.	All construction sites	
S12.6 of	WM3	EM&A of waste handling, storage, transportation, disposal procedures and		V
TMCLKLEIA		documentation through the site audit programme shall be undertaken.	All construction sites	
S8.3.8 of	WM4	Construction and Demolition Material		V
HKBCFEIA		The following mitigation measures should be implemented in handling the waste:		
and S12.6 of		Maintain temporary stockpiles and reuse excavated fill material for backfilling and		
TMCLKLEIA		reinstatement;		
		Carry out on-site sorting;	All construction sites	
		Make provisions in the Contract documents to allow and promote the use of	All construction sites	
		recycled aggregates where appropriate;		
		Adopt 'Selective Demolition' technique to demolish the existing structures and		
		facilities with a view to recovering broken concrete effectively for recycling purpose,		
		where possible;		

Monthly EM&A Report for May 2016

EIA Ref.	EM&A Log	Environmental Mitigation Measures	Location	Implementation
	Ref			Status
		 Implement a trip-ticket system for each works contract to ensure that the disposal of C&D materials are properly documented and verified; Implement an enhanced Waste Management Plan similar to ETWBTC (Works) No. 19/2005 – "Environmental Management on Construction Sites" to encourage on-site sorting of C&D materials and to minimize their generation during the course of construction; In addition, disposal of the C&D materials onto any sensitive locations such as agricultural lands, etc. should be avoided. The Contractor shall propose the final 		
		 disposal sites to the Project Proponent and get its approval before implementation; and The surplus surcharge should be transferred to a fill bank. 		
S8.3.9- S8.3.11 of HKBCFEIA and S12.6 of TMCLKLEIA	WM5	 <u>C&D Waste</u> Standard formwork or pre-fabrication should be used as far as practicable in order to minimise the arising of C&D materials. The use of more durable formwork or plastic facing for the construction works should be considered. Use of wooden hoardings should not be used, as in other projects. Metal hoarding and falsework should be used to enhance the possibility of recycling. The purchasing of construction materials will be carefully planned in order to avoid over ordering and wastage. The Contractor should recycle as much of the C&D materials as possible on-site. Public fill and C&D waste should be segregated and stored in different containers 	All construction sites	V

Monthly EM&A Report for May 2016

EIA Ref.	EM&A Log	Environmental Mitigation Measures	Location	Implementation
	Ref			Status
		or skips to enhance reuse or recycling of materials and their proper disposal.		
		Where practicable, concrete and masonry can be crushed and used as fill. Steel		
		reinforcement bar can be used by scrap steel mills. Different areas of the sites		
		should be considered for such segregation and storage.		
S8.2.12-	WM6	Chemical Waste	All construction sites	V
S8.3.15 of		Chemical waste that is produced, as defined by Schedule 1 of the Waste Disposal		
HKBCFEIA		(Chemical Waste) (General) Regulation, should be handled in accordance with the		
and S12.6 of		Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes.		
TMCLKLEIA		Containers used for the storage of chemical wastes should be suitable for the		
		substance they are holding, resistant to corrosion, maintained in a good condition,		
		and securely closed; have a capacity of less than 450 liters unless the specification		
		has been approved by the EPD; and display a label in English and Chinese in		
		accordance with instructions prescribed in Schedule 2 of the regulation.		
		• The storage area for chemical wastes should be clearly labelled and used solely for		
		the storage of chemical waste; enclosed on at least 3 sides; have an impermeable		
		floor and bunding of sufficient capacity to accommodate 110% of the volume of the		
		largest container or 20 % of the total volume of waste stored in that area, whichever		
		is the greatest; have adequate ventilation; covered to prevent rainfall entering; and		
		arranged so that incompatible materials are adequately separated.		
		• Disposal of chemical waste should be via a licensed waste collector; be to a facility		
		licensed to receive chemical waste, such as the Chemical Waste Treatment Centre		

Monthly EM&A Report for May 2016

EIA Ref.	EM&A Log	Environmental Mitigation Measures	Location	Implementation
	Ref			Status
		which also offers a chemical waste collection service and can supply the necessary		
		storage containers; or be to a reuser of the waste, under approval from the EPD.		
S8.3.16 of	WM7	Sewage	All construction sites	V
HKBCFEIA		Adequate numbers of portable toilets should be provided for the workers. The		
and S12.6 of		portable toilets should be maintained in a state, which will not deter the workers		
TMCLKLEIA		from utilizing these portable toilets. Night soil should be collected by licensed		
		collectors regularly.		
S8.3.17 of	WM8	General Refuse	All construction sites	V
HKBCFEIA and S12.6 of TMCLKLEIA	EIA 6 of EIA	• The site and surroundings shall be kept tidy and litter free. General refuse generated on-site should be stored in enclosed bins or compaction units separately from construction and chemical wastes.		
		• A reputable waste collector should be employed by the Contractor to remove general refuse from the site, separately from construction and chemical wastes, on a daily basis to minimize odour, pest and litter impacts. Burning of refuse on construction sites is prohibited by law.		
		 Aluminium cans are often recovered from the waste stream by individual collectors if they are segregated and made easily accessible. Separate labelled bins for their deposit should be provided if feasible. Office wastes can be reduced through the recycling of paper if volumes are large enough to warrant collection. Participation in a local collection scheme should be 		

Monthly EM&A Report for May 2016

EIA Ref.	EM&A Log	Environmental Mitigation Measures	Location	Implementation
	Ref			Status
		 considered by the Contractor. In addition, waste separation facilities for paper, aluminum cans, plastic bottles etc., should be provided. Training should be provided to workers about the concepts of site cleanliness and appropriate waste management procedure, including reduction, reuse and recycling of wastes. Sufficient dustbins shall be provided for storage of waste as required under the Public Cleansing and Prevention of Nuisances By-laws. In addition, general refuse shall be cleared daily and shall be disposed of to the nearest licensed landfill or refuse transfer station. All waste containers shall be in a secure area on hardstanding. 		
Water Quality	(Construction	Phase)		
	W1	Mitigation during the marine works to reduce impacts to within acceptable levels have been recommended and will comprise a series of measures that restrict the method and sequencing of backfilling, as well as protection measures. Details of the measures are provided below:	During filling	V

Monthly EM&A Report for May 2016

EIA Ref.	EM&A Log	Environmental Mitigation Measures	Location	Implementation
	Ref			Status
EIA Ref.		 Environmental Mitigation Measures Reclamation filling for the Project shall not proceed until at least 200m of leading seawall at the reclamation area formed above +2.2mPD, unless otherwise agreement was obtained from EPD, except for the 300m gaps for marine access. All underwater filling works shall be carried out behind seawalls to avoid dispersion of suspended solids outside the Project limit; Except for the filling of the cellular structures, not more than 15% public fill shall be used for reclamation filling below +2.5mPD during construction of the seawall; After the seawall is completed except for the 300m marine access as indicated in the EPs, not more than 30% public fill shall be used for reclamation filling below +2.5mPD, unless otherwise agreement from EPD was obtained; Upon completion of 200m leading seawall, no more than a total of 60 filling barge trips per day shall be made with a cumulative maximum daily filling rate of 60,000 m3 for HKBCF and TMCLKL southern landfall reclamation during the filling operation; and Upon completion of the whole section of seawall except for the 300m marine access as indicated in the EPs, no more than a total of 190 filling barge trips per day shall be made with a cumulative maximum daily filling rate of 60,000 m3 for HKBCF and TMCLKL southern landfall reclamation during the filling operation; and 	Location	-
		 remaining filling operations for HKBCF and TMCLKL southern landfall reclamation. Floating type perimeter silt curtains shall be around the HKBCF site before the commencement of marine works. Staggered layers of silt curtain shall be provided 		

Monthly EM&A Report for May 2016

EIA Ref.	EM&A Log	Environmental Mitigation Measures	Location	Implementation
	Ref			Status
		 to prevent sediment loss at navigation accesses. The length of each staggered layers shall be at least 200m; Single layer silt curtain to be applied around the North-east airport water intake; The silt-curtains should be maintained in good condition to ensure the sediment plume generated from filling be confined effectively within the site boundary; The filling works shall be scheduled to spread the works evenly over a working day; Cellular structure shall be used for seawall construction; A layer of geotextile shall be placed on top of the seabed before any filling activities take place inside the cellular structures to form the seawall; The conveyor belts shall be fitted with windboards and conveyor release points shall be covered with curtain to prevent any spillage of filling materials onto the surrounding waters; and An additional layer of silt curtain shall be installed near the active stone column installation points. A layer of geotextile with stone blanket on top shall be placed on the seabed prior to stone column installation works. 		
S9.11.1.3 of HKBCFEIA and S6.10 of	W2	Land Works General construction activities on land should also be governed by standard good working practice. Specific measures to be written into the works contracts should include:	All land-based construction sites	V

Monthly EM&A Report for May 2016

EIA Ref.	EM&A Log	Environmental Mitigation Measures	Location	Implementation
	Ref			Status
TMCLKLEIA		 wastewater from temporary site facilities should be controlled to prevent direct discharge to surface or marine waters; sewage effluent and discharges from on-site kitchen facilities shall be directed to Government sewer in accordance with the requirements of the WPCO or collected for disposal offsite. The use of soakaways shall be avoided; storm drainage shall be directed to storm drains via adequately designed sand/silt removal facilities such as sand traps, silt traps and sediment basins. Channels, earth bunds or sand bag barriers should be provided on site to properly direct stormwater to such silt removal facilities. Catchpits and perimeter channels should be constructed in advance of site formation works and earthworks; silt removal facilities, channels and manholes shall be maintained and any deposited silt and grit shall be removed regularly, including specifically at the onset of and after each rainstorm; temporary access roads should be surfaced with crushed stone or gravel; rainwater pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities; measures should be taken to prevent the washout of construction materials, soil, silt or debris into any drainage system; 		
		open stockpiles of construction materials (e.g. aggregates and sand) on site		

Monthly EM&A Report for May 2016

EIA Ref.	EM&A Log	Environmental Mitigation Measures	Location	Implementation
	Ref			Status
		 should be covered with tarpaulin or similar fabric during rainstorms; manholes (including any newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage system, and to prevent storm run-off from getting into foul sewers; discharges of surface run-off into foul sewers must always be prevented in order not to unduly overload the foul sewerage system; 		
		 all vehicles and plant should be cleaned before they leave the construction site to ensure that no earth, mud or debris is deposited by them on roads. A wheel washing bay should be provided at every site exit; wheel wash overflow shall be directed to silt removal facilities before being discharged to the storm drain; 		
		• the section of construction road between the wheel washing bay and the public road should be surfaced with crushed stone or coarse gravel;		
		 wastewater generated from concreting, plastering, internal decoration, cleaning work and other similar activities, shall be screened to remove large objects; 		
		 vehicle and plant servicing areas, vehicle wash bays and lubrication facilities shall be located under roofed areas. The drainage in these covered areas shall be connected to foul sewers via a petrol interceptor in accordance with the requirements of the WPCO or collected for offsite disposal; 		

Monthly EM&A Report for May 2016

EIA Ref.	EM&A Log	Environmental Mitigation Measures	Location	Implementation
	Ref			Status
		the contractors shall prepare an oil / chemical cleanup plan and ensure that		
		leakages or spillages are contained and cleaned up immediately;		
		 waste oil should be collected and stored for recycling or disposal, in accordance with the Waste Disposal Ordinance; 		
		• all fuel tanks and chemical storage areas should be provided with locks and be		
		sited on sealed areas. The storage areas should be surrounded by bunds with a		
		capacity equal to 110% of the storage capacity of the largest tank; and		
		surface run-off from bunded areas should pass through oil/grease traps prior to		
		discharge to the storm water system		
S9.14 of	W3	Implement a water quality monitoring programme	At identified	V
HKBCFEIA			monitoring location	
and S6.10 of				
TMCLKLEIA				
S6.10 of	W4	All construction works shall be subject to routine audit to ensure implementation of all	All construction site	V
TMCLKLEIA		EIA recommendations and good working practice.	areas	
Ecology (Con	struction Phas	e)		
S10.7 of	E1	Install silt curtain during the construction	Seawall, reclamation	V
HKBCFEIA		Limit works fronts	area	
and S8.14 of				
TMCLKLEIA		Construct seawall prior to reclamation filling where practicable		

Monthly EM&A Report for May 2016

EIA Ref.	EM&A Log	Environmental Mitigation Measures	Location	Implementation
	Ref			Status
		Good site practices		
		Strict enforcement of no marine dumping		
		Site runoff control		
		Spill response plan		
S10.7 of	E2	Watering to reduce dust generation; prevention of siltation of freshwater habitats;	Land-based works	V
HKBCFEIA		Site runoff should be desilted, to reduce the potential for suspended sediments,	areas	
		organics and other contaminants to enter streams and standing freshwater.		
S10.7 of	E3	Good site practices, including strictly following the permitted works hours, using	Land-based works	V
HKBCFEIA		quieter machines where practicable, and avoiding excessive lightings during night	areas	
and S8.14 of		time.		
TMCLKLEIA				
S10.7 of	E4	Dolphin Exclusion Zone	Marine works	V
HKBCFEIA		Dolphin watching plan		
and S8.14 of				
TMCLKLEIA				
S10.7 of	E5	Decouple compressors and other equipment on working vessels	Marine works	V
HKBCFEIA		Proposal on design and implementation of acoustic decoupling measures applied		
and S8.14 of		during reclamation works		
TMCLKLEIA		Avoidance of percussive piling		
S10.7 of	E6	Control vessel speed	Marine traffic	V

Monthly EM&A Report for May 2016

EIA Ref.	EM&A Log	Environmental Mitigation Measures	Location	Implementation
	Ref			Status
HKBCFEIA		Skipper training		
and S8.14 of		Predefined and regular routes for working vessels; avoid Brothers Islands		
TMCLKLEIA				
S10.10 of	E7	Vessel based dolphin monitoring	Northeast and	V
HKBCFEIA			Northwest	
and S8.14 of			Lantau	
TMCLKLEIA				
Fisheries				
S11.7 of	F1	Reduce re-suspension of sediments	Seawall, reclamation	V
HKBCFEIA		Limit works fronts	area	
		Good site practices		
		Strict enforcement of no marine dumping		
		Spill response plan		
S11.7 of	F2	Install silt-grease trap in the drainage system collecting surface runoff	Reclamation area	V
HKBCFEIA				
Landscape &	Visual (Constr	uction Phase)		
S14.3.3. 3 of	LV1	Mitigate Landscape Impacts	All construction site	N/A
HKBCFEIA			areas	
and S10.9 of		G1/CM4 Grass-hydroseed or sheeting bare soil surface and stock pile areas.		
TMCLKLEIA		G9 Reserve of loose natural granite rocks for re-use. Provide new coastline to		
		adopt "natural-look" by means of using armour rocks in the form of natural		

Monthly EM&A Report for May 2016

EIA Ref.	EM&A Log	Environmental Mitigation Measures	Location	Implementation
	Ref			Status
		rock materials and planting strip area accommodating screen buffer to		
		enhance "natural-look" of new coastline.		
S10.9 of	LV2	Mitigate Landscape Impacts	All construction site	V
TMCLKLEIA		CM7 Ensure no run-off into water body adjacent to the Project Area.	areas	
S14.3.3. 3 of	LV4	Mitigate Visual Impacts	All construction site	V
HKBCFEIA		V1 Minimize time for construction activities during construction period.	areas	
S10.9 of	LV5	Mitigate Visual Impacts	All construction site	V
TMCLKLEIA		CM6 Control night-time lighting and glare by hooding all lights.	areas	
EM&A		·		
S15.2.2 of	EM1	An Independent Environmental Checker needs to be employed as per the EM&A	All construction site	V
HKBCFEIA		Manual.	areas	
S15.5 - S15.6	EM2	An Environmental Team needs to be employed as per the EM&A Manual.	All construction site	V
of HKBCFEIA		Prepare a systematic Environmental Management Plan to ensure effective	areas	
		implementation of the mitigation measures.		
		An environmental impact monitoring needs to be implementing by the		
		Environmental Team to ensure all the requirements given in the EM&A Manual are		
		fully complied with.		

Legend: V = implemented;

x = not implemented;

N/A = not applicable

Appendix D - Summary of Action and Limit Levels

Location	Action Level	Limit Level
AMS2	374 μg/m ³	500 μg/m³
AMS3B*	368 μg/m ³	500 μg/m³
AMS6	360 μg/m ³	500 μg/m ³
AMS7	370 μg/m ³	500 μg/m ³

Table 1 – Action and Limit Levels for 1-hour TSP

Remarks: * Action Level set out at AMS3 Ho Yu College is adopted.

Location	Action Level	Limit Level
AMS2	176 μg/m³	260 μg/m ³
AMS3B*	167 μg/m³	260 μg/m ³
AMS6	173 μg/m³	260 μg/m ³
AMS7	183 μg/m ³	260 μg/m ³

Remarks: * Action Level set out at AMS3 Ho Yu College is adopted.

Table 3 – Action and Limit Levels for Construction Noise (0700-1900 hrs of normal weekdavs)

Location	Action Level	Limit Level
NMS2	When one documented	75 dB(A)
	complaint, related to 0700 -	
	1900 hours on normal	
NMS3B	weekdays, is received	*65 / 70 dB(A)
	from any one of the sensitive	
	receivers	

*Daytime noise Limit Level of 70 dB(A) applies to education institutions, while 65dB(A) applies during school examination period.

Parameters	Action	Limit
DO in mg L ⁻¹	Surface and Middle	Surface and Middle
(Surface, Middle & Bottom)	5.0	4 .2 (except 5 mg/L for FCZ)
	Bottom	Bottom
	4.7	3.6
SS in mg L ⁻¹	23.5 and 120% of upstream	34.4 and 130% of upstream
(depth-averaged)	control station's SS at the	control station's SS at the same
	same tide of the same day	tide of the same day and
		10mg/L for WSD Seawater
		intakes
Turbidity in NTU	27.5 and 120% of upstream	47.0 and 130% of upstream
(depth-averaged)	control station's turbidity at	control station's turbidity at the
	the same tide of the same	same tide of the same day
	day	

Table 4 – Action and Limit Levels for Water Quality

Notes:

- 1. "depth-averaged" is calculated by taking the arithmetic means of reading of all three depths.
- 2. For DO, non-compliance of the water quality limits occurs when monitoring result is lower than the limits.
- 3. For turbidity, SS, non-compliance of the water quality limits occurs when monitoring result is higher than the limits.

Table 5(a) Action and Limit Levels for Chinese White Dolphin Monitoring - Approach to Define Action Level (AL) and Limit Level (LL):

	North Lantau Social Cluster			
	NEL	NWL		
Action Level	(STG < 70% of baseline) &	(STG < 70% of baseline) &		
	(ANI < 70% of baseline)	(ANI < 70% of baseline)		
Limit Level	[(STG < 40% of baseline) & (ANI < 40% of baseline)] AND			
	[(STG < 40% of baseline) & (A	NI < 40% of baseline)]		

For North Lantau Social Cluster, action level will be trigger if either NEL **or** NWL fall below the criteria; limit level will be triggered if both NEL **and** NWL fall below the criteria.

Table 5(b) Derived Value of Action Level (AL) and Limit Level (LL) for Chinese White Dolphin Monitoring

	North Lantau Social Cluster			
	NEL	NWL		
Action Level	(STG < 4.2) &	(STG < 6.9) &		
	(ANI < 15.5)	(ANI < 31.3)		
Limit Level	[(STG < 2.4) & (ANI <8.9)] AND			
	[(STG < 3.9)& (ANI < 17.9)]			

Station	Tung Chung Deve	elopment Pier (A	MS2) Operator:	Leung Yiu Ting	
Cal. Date:	23-Mar-16		Next Due Date:	23-May-16	
Equipment No.:	ent No.: A-001-78T		Serial No.	3383	
			Ambient Condition		
Temperat	ure, Ta (K)	291	Pressure, Pa (mmHg)	758.4	

	Orifice Transfer Standard Information					
Serial No:	988	Slope, mc	1.97831	Intercept, bc	0.01264	
Last Calibration Date:	Last Calibration Date: 29-May-15 mc x Qstd + bc = [DH x (Pa/760) x (298/Ta)] ^{1/2}				1997	
Next Calibration Date:	410					

	Calibration of	of TSP Sampler		and the second second	
	Orfice		HVS Flow Recorder		
DH (orifice), in. of water	[DH x (Pa/760) x (298/Ta)] ^{1/2}	Qstd (m ³ /min) X - axis	Flow Recorder Reading (CFM)	Continuous Flow Recorde Reading IC (CFM) Y-axis	
7.7	2.81	1.41	48.0	48.52	
6.6	2.60	1.31	44.0	44.48	
4.8	2.21	1.11	36.0	36.39	
3.9	2.00	1.00	30.0	30.33	
2.5	1.60	0.80	22.0	22.24	
efficient < 0.990, c	heck and recalibrate.				
	Cot Doint	Colouistion			
ald Calibration Cur	ve, take Qstd = 1.30m ³ /min	Calculation			
su campiation our					
	"Y" value according to				
	"Y" value according to mw x Qstd + bw = IC	x [(Pa/760) x (298/1	[a)] ^{1/2}		
	in. of water 7.7 6.6 4.8 3.9 2.5 ssion of Y on X 43.7258 fficient* =	DH (orifice), in. of water [DH x (Pa/760) x (298/Ta)] ^{1/2} 7.7 2.81 6.6 2.60 4.8 2.21 3.9 2.00 2.5 1.60	DH (orifice), in. of water [DH x (Pa/760) x (298/Ta)] ^{1/2} Qstd (m ³ /min) X axis 7.7 2.81 1.41 6.6 2.60 1.31 4.8 2.21 1.11 3.9 2.00 1.00 2.5 1.60 0.80 ession of Y on X 43.7258 Intercept, bw = fficient* = 0.9979	DH (orifice), in. of water $[DH \times (Pa/760) \times (298/Ta)]^{1/2}$ Qstd (m ³ /min) X axis Flow Recorder Reading (CFM) 7.7 2.81 1.41 48.0 6.6 2.60 1.31 44.0 4.8 2.21 1.11 36.0 3.9 2.00 1.00 30.0 2.5 1.60 0.80 22.0	

Remarks:

QC Reviewer:

han

Signature:

23/3/16 Date:

D:\HVS Calibration Certificate (Existing)

Station	Tung Chung Deve	lopment Pier (A	MS2) Operator:	Leung Yiu Ting	_
Cal. Date:	18-May-16		Next Due Date:	18-Jul-16	_
Equipment No.:	A-001-78T	Serial No.		3383	
			Ambient Condition		
Temperature, Ta (K) 299 Pressure,			Pressure, Pa (mmHg)	757.8	

	(Drifice Transfer Sta	andard Information		
Serial No:	988	Slope, mc	1.97831	Intercept, bc	0.01264
Last Calibration Date:	29-May-15		mc x Qstd + bc = [[OH x (Pa/760) x (298/Ta)] ^{1/2}	
Next Calibration Date:	29-May-16	Qstd = {[DH x (Pa/760) x (298/Ta)] ^{1/2} -bc} / mc			

		Calibration o	of TSP Sampler		
		Orfice	HVS Flow Recorder		
Resistance Plate No.	DH (orifice), in. of water		Qstd (m ³ /min) X - axis	Flow Recorder Reading (CFM)	Continuous Flow Recorder Reading IC (CFM) Y-axis
18	7.9 2.80		1.41	48.0	47.85
13	6.7	2.58	1.30	42.0	41.87
10	4.9	2.21	1.11	34.0	33.89
7	3.8	1.94	0.98	28.0	27.91
5	2.5	1.58	0.79	22.0	21.93
Slope , mw = Correlation Coe		0.9936	Intercept, bw =	-12.1	1393
Slope , mw = Correlation Coe	41.9392 efficient* =	check and recalibrate.	-	-12.	1393
Slope , mw = Correlation Coe If Correlation Co	41.9392 efficient* = 	check and recalibrate.	Intercept, bw = Calculation	-12.	1393
Slope , mw = Correlation Coe If Correlation Co	41.9392 efficient* = 	check and recalibrate.	-	-12.	1393
Slope , mw = Correlation Coe If Correlation Co From the TSP F	41.9392 efficient* = pefficient < 0.990, of ield Calibration Cur	check and recalibrate.	-	-12.	1393
Slope , mw = Correlation Coe If Correlation Co From the TSP F	41.9392 efficient* = pefficient < 0.990, of ield Calibration Cur	check and recalibrate. Set Point rve, take Qstd = 1.30m ³ /min "Y" value according to	Calculation		1393
Slope , mw = Correlation Coe If Correlation Co From the TSP F	41.9392 efficient* = pefficient < 0.990, of ield Calibration Cur	check and recalibrate. Set Point ve, take Qstd = 1.30m ³ /min	Calculation		1393
Slope , mw = Correlation Coe If Correlation Coe From the TSP F From the Regree	41.9392 efficient* = coefficient < 0.990, of ield Calibration Cur ssion Equation, the	check and recalibrate. Set Point rve, take Qstd = 1.30m ³ /min "Y" value according to	Calculation x [(Pa/760) x (298/7		42.51

Remarks:			
QC Reviewer: _	KY Shim	Signature:	Date: 18/5//6
			D:\HVS Calibration Certificate (Existing

Site Boundary of Site Office (WA2) (AMS3B)		(AMS3B) Operator:	Leung Yiu Ting	- 0
29-Apr-16	Next Due Date:	29-Jun-16		
A-001-79T	-	Serial No.	3384	-
		Ambient Condition		
re, Ta (K)	303.0	Pressure, Pa (mmHg)	756.9	
	29-Apr-16 A-001-79T	29-Apr-16 A-001-79T re, Ta (K) 303.0	29-Apr-16 Next Due Date: A-001-79T Serial No. Ambient Condition Image: Condition	29-Apr-16 Next Due Date: 29-Jun-16 A-001-79T Serial No. 3384 Ambient Condition re, Ta (K) 303.0 Pressure, Pa (mmHg) 756.9

		Driffice I ransfer St	tandard information			
Serial No:	988	Slope, mc	1.97831	Intercept, bc	0.01264	
Last Calibration Date:	29-May-15	mc x Qstd + bc = [DH x (Pa/760) x (298/Ta)] ^{1/2}				
Next Calibration Date:	29-May-16	Qstd = {[DH x (Pa/760) x (298/Ta)] ^{1/2} -bc} / mc				

		Calibration of	of TSP Sampler			
	C	Orfice		HVS Flow Recorder		
Resistance Plate No.	DH (orifice), in. of water	[DH x (Pa/760) x (298/Ta)] ^{1/2}	Qstd (m ³ /min) X - axis	Flow Recorder Reading (CFM)	Continuous Flow Recorder Reading IC (CFM) Y-axis	
18	7.2	2.66	1.34	48.0	47.51	
13	6.2	2.46	1.24	42.0	41.57	
10	4.7	2.15	1.08	34.0	33.65	
7	3.2	1.77	0.89	24.0	23.75	
5	2.0	1.40	0.70	14.0	13.86	
Slope , mw = Correlation Coe		0.9995	Intercept, bw = _	-22.9	9024	
Slope , mw = Correlation Coe	52.4202	heck and recalibrate.	_	-22.9	9024	
Slope , mw = Correlation Coe *If Correlation Co	52.4202 • fficient* = pefficient < 0.990, c	heck and recalibrate.	Intercept, bw = Calculation	-22.5	9024	
Slope , mw = Correlation Coe 'If Correlation Co From the TSP Fi	52.4202 efficient* = pefficient < 0.990, c ield Calibration Cur	heck and recalibrate. Set Point ve, take Qstd = 1.30m ³ /min	_	-22.9	9024	
Slope , mw = Correlation Coe *If Correlation Co From the TSP Fi	52.4202 efficient* = pefficient < 0.990, c ield Calibration Cur	heck and recalibrate.	_	-22.5	9024	
Slope , mw = Correlation Coe *If Correlation Co From the TSP Fi	52.4202 efficient* = pefficient < 0.990, c ield Calibration Cur	heck and recalibrate. Set Point ve, take Qstd = 1.30m ³ /min	Calculation		9024	

Remarks:			
QC Reviewer:	YT Leung	Signature:	Date: <u>Apr - 16</u>

D:\HVS Calibration Certificate (Existing)\

Station	Hong Kong SkyC	ity Marriott Hotel	(AMS7) Operator:	Leung yiu ting	
Cal. Date:	29-Apr-16		Next Due Date:	29-Jun-16	
Equipment No.:	A-001-80T	-	Serial No.	3385	
			Ambient Condition		
Temperat	ure, Ta (K)	303.0	Pressure, Pa (mmHg)	756.9	
			· · · · · · · · · · · · · · · · · · ·		

Orifice Transfer Standard Information							
Serial No:	988	Slope, mc	1.97831	Intercept, bc	0.01264		
Last Calibration Date:	29-May-15	mc x Qstd + bc = [DH x (Pa/760) x (298/Ta)] ^{1/2}					
Next Calibration Date:	29-May-16	Qstd = {[DH x (Pa/760) x (298/Ta)] ^{1/2} -bc} / mc					

		Calibration of	of TSP Sampler			
		Orfice		HVS Flow Recorder		
Resistance Plate No.	DH (orifice), in. of water	[DH x (Pa/760) x (298/Ta)] ^{1/2}	Qstd (m ³ /min) X · axis	Flow Recorder Reading (CFM)	Continuous Flow Recorder Reading IC (CFM) Y-axis	
18	7.4	2.69	1.35	48.0	47.51	
13	6.6	2.54	1.28	44.0	43.55	
10	5.5	2.32	1.17	38.0	37.61	
7	3.2	1.77	0.89	23.0	22.76	
5	2.3	1.50	0.75	15.0	14.85	
By Linear Regre Slope , mw = Correlation Coe	ession of Y on X 54.0244 fficient* =	0.9998	Intercept, bw =	-25.5	5358	
Slope , mw = Correlation Coe	54.0244 fficient* =	0.9998 check and recalibrate.	Intercept, bw =	-25.	5358	
Slope , mw = Correlation Coe	54.0244 fficient* =	heck and recalibrate.	Intercept, bw = Calculation	-25.	5358	
Slope , mw = Correlation Coe	54.0244 fficient* = pefficient < 0.990, c	heck and recalibrate.	-	-25.5	5358	
Slope , mw = Correlation Coe If Correlation Co From the TSP Fig	54.0244 fficient* = efficient < 0.990, c	check and recalibrate.	-	-25.	5358	
Slope , mw = Correlation Coe If Correlation Co From the TSP Fig	54.0244 fficient* = efficient < 0.990, c	check and recalibrate. Set Point ve, take Qstd = 1.30m ³ /min	Calculation		5358	

Remarks:				
QC Reviewer:	Leurg	Signature:	6	Date: <u></u>

D:\HVS Calibration Certificate (Existing



1 /

127 2 12

TISCH ENVIRONMENTAL, INC. 145 SOUTH MIAMI AVE VILLAGE OF CLEVES, OH 45002 513.467.9000 877.263.7610 TOLL FREE 513.467.9009 FAX

	ORIFICE	TRANSFER STA	NDARD CERT	IFICATION	WORKSHEET	TE-5025A
Date - M Operator =======	ay 29, 201	5 Rootsmeter Orifice I.1	S/N 0	438320 0988 ===========	Ta (K) - Pa (mm)	- 755.65
PLATE OR Run # 1 2 3 4 5	VOLUME START (m3) NA NA NA NA NA	VOLUME STOP (m3) NA NA NA NA NA	DIFF VOLUME (m3) 1.00 1.00 1.00 1.00 1.00 1.00	DIFF TIME (min) 1.3980 0.9910 0.8790 0.8380 0.6890	METER DIFF Hg (mm) 3.2 6.3 7.8 8.6 12.6	ORFICE DIFF H2O (in.) 2.00 4.00 5.00 5.50 8.00

DATA TABULATION

Vstd	(x axis) Qstd	(y axis)		Va	(x axis) Qa	(y axis)
0.9934 0.9893 0.9872 0.9862 0.9809	0.7106 0.9983 1.1231 1.1769 1.4237	1.4125 1.9976 2.2334 2.3424 2.8251		0.9957 0.9917 0.9896 0.9886 0.9833	0.7123 1.0007 1.1258 1.1797 1.4271	0.8866 1.2539 1.4019 1.4703 1.7732
Qstd slop intercept coefficie	(b) = nt (r) =	1.97831 0.01264 0.99985	1 e n	Qa slope intercept coefficie	(b) =	1.23878 0.00793 0.99985
Y UNIS =	SUKT [H2O (P	a/760) (298/1	[a)]	y axis =	SQRT [H20 (T	a/Pa)]

CALCULATIONS

Vstd = Diff. Vol[(Pa-Diff. Hg)/760](298/Ta) Qstd = Vstd/Time

Va = Diff Vol [(Pa-Diff Hg)/Pa] Qa = Va/Time

For subsequent flow rate calculations:

Qstd = $1/m\{ [SQRT(H2O(Pa/760)(298/Ta))] - b \}$ Qa = $1/m\{ [SQRT(H2O(Ta/Pa)] - b \}$

Type:	Laser Dust Monitor
Manufacturer/Brand:	SIBATA
Model No.:	LD-3
Equipment No.:	A.005.07a
Sensitivity Adjustment Scale Setting:	557 CPM

Operator:

Mike Shek (MSKM)

Standard Equipment

Equipment:	Rupprecht & Patashnick TEOM [®]					
Venue:	Cyberport (Pui Ying Secondary School)					
Model No.:	Series 140	DOAB				
Serial No:	Control:	140AB219899803				
	Sensor:	1200C143659803	Ko:	12500		
Last Calibration Date*:	7 May 201	6	_			

*Remarks: Recommended interval for hardware calibration is 1 year

Calibration Result

Sensitivity Adjustment Scale Setting (Before Calibration): Sensitivity Adjustment Scale Setting (After Calibration):

557	CPM
557	CPM

Hour	Date (dd-mm-yy)	Time		a contraction	bient dition	Concentration ¹ (mg/m ³)	Total Count ²	Count/ Minute ³	
					Temp (°C)	R.H. (%)	Y-axis		X-axis
1	07-05-16	12:15	-	13:15	28.1	77	0.04530	1812	30.20
2	07-05-16	13:15	-	14:15	28.2	76	0.04659	1863	31.05
3	07-05-16	14:15	-	15:15	28.4	78	0.04560	1824	30.40
4	07-05-16	15:15	-	16:15	28.5	77	0.04434	1774	29.57

Note: 1. Monitoring data was measured by Rupprecht & Patashnick TEOM®

2. Total Count was logged by Laser Dust Monitor

3. Count/minute was calculated by (Total Count/60)

By Linear Regression of Y or X

Slope (K-factor):	0.0015	
Correlation coefficient:	0.9969	
Validity of Calibration Record:	7 May 2017	
valuity of Galibration Record.	I Way LOTT	

R	en	na	rk	S:	

QC Reviewer:	YW Fung	Signature: _	M	Date:	09 May 2016

Type:	Laser Dust Monitor
Manufacturer/Brand:	SIBATA
Model No.:	LD-3
Equipment No.:	A.005.08a
Sensitivity Adjustment Scale Setting:	702 CPM

Operator:

Mike Shek (MSKM)

Standard Equipment

Equipment:	Rupprecht & Patashnick TEOM [®]					
Venue:	Cyberport (Pui Ying Secondary School)					
Model No.:	Series 1400AB					
Serial No:	Control: 140AB219899803					
	Sensor:	1200C143659803	Ko:	12500		
Last Calibration Date*:	7 May 201	6				

*Remarks: Recommended interval for hardware calibration is 1 year

Calibration Result

Sensitivity Adjustment Scale Setting (Before Calibration): Sensitivity Adjustment Scale Setting (After Calibration):

702	CPM
702	CPM

Hour	Date	Time		Amb		Concentration ¹	Total	Count/	
	(dd-mm-yy)				Cond Temp (°C)	R.H. (%)	(mg/m ³) Y-axis	Count ²	Minute ³ X-axis
1	07-05-16	12:30	-	13:30	28.2	77	0.04611	1727	28.78
2	07-05-16	13:30	-	14:30	28.2	77	0.04678	1758	29.30
3	07-05-16	14:30	-	15:30	28.4	78	0.04574	1717	28.62
4	07-05-16	15:30	-	16:30	28.5	77	0.04353	1634	27.23

Note: 1. Monitoring data was measured by Rupprecht & Patashnick TEOM®

2. Total Count was logged by Laser Dust Monitor

3. Count/minute was calculated by (Total Count/60)

By Linear Regression of Y or X		
Slope (K-factor):	0.0016	
Correlation coefficient:	0.9977	

Validity of Calibration Record: 7 May 2017

Remarks:					
QC Reviewer:	YW Fung	Signature:	4/	Date:	09 May 2016

Type:	Laser Dust Monitor
Manufacturer/Brand:	SIBATA
Model No.:	LD-3
Equipment No.:	A.005.09a
Sensitivity Adjustment Scale Setting:	797 CPM

Operator:

Mike Shek (MSKM)

Standard Equipment

Equipment:	Rupprecht & Patashnick TEOM [®]						
Venue:	Cyberport	Cyberport (Pui Ying Secondary School)					
Model No.:	Series 1400AB						
Serial No:	Control:	140AB219899803					
	Sensor:	1200C143659803	K _o :	12500			
Last Calibration Date*:	7 May 201	6					

*Remarks: Recommended interval for hardware calibration is 1 year

Calibration Result

Sensitivity Adjustment Scale Setting (Before Calibration): Sensitivity Adjustment Scale Setting (After Calibration):

797	CPM
797	CPM

Hour	Date (dd-mm-yy)	Time		Ambient Condition		Concentration ¹ (mg/m ³)	Total Count ²	Count/ Minute ³	
					Temp (°C)	R.H. (%)	Y-axis		X-axis
1	07-05-16	11:45	-	12:45	28.2	77	0.04623	1847	30.78
2	07-05-16	12:45	-	13:45	28.2	78	0.04708	1885	31.42
3	07-05-16	13:45	-	14:45	28.3	76	0.04591	1836	30.60
4	07-05-16	14:45	-	15:45	28.4	77	0.04333	1726	28.77

Note: 1. Monitoring data was measured by Rupprecht & Patashnick TEOM®

2. Total Count was logged by Laser Dust Monitor

3. Count/minute was calculated by (Total Count/60)

By Linear Regression of Y or X		
Slope (K-factor):	0.0015	
Correlation coefficient:	0.9964	
Validity of Calibration Record:	7 May 2017	

R	em	nar	ks:

QC Reviewer:	YW Fung	S

C Signature:

Date: 09 May 2016

Type:	Laser Dust Monitor
Manufacturer/Brand:	SIBATA
Model No.:	LD-3
Equipment No.:	A.005.10a
Sensitivity Adjustment Scale Setting:	753 CPM

Operator:

Mike Shek (MSKM)

Standard Equipment

Equipment:	Rupprecht	& Patashnick TEOM®				
Venue:	Cyberport (Pui Ying Secondary School)					
Model No.:	Series 1400AB					
Serial No:	Control:	140AB219899803				
	Sensor:	1200C143659803	Ko:	12500		
Last Calibration Date*:	7 May 201	6	_			

*Remarks: Recommended interval for hardware calibration is 1 year

Calibration Result

Sensitivity Adjustment Scale Setting (Before Calibration): Sensitivity Adjustment Scale Setting (After Calibration): 753 CPM 753 CPM

Hour	Date (dd-mm-yy)	Time		Ambient Condition		Concentration ¹ (mg/m ³)	Total Count ²	Count/ Minute ³	
					Temp (°C)	R.H. (%)	Y-axis		X-axis
1	08-05-16	10:00	-	11:00	28.3	76	0.04945	1975	32.92
2	08-05-16	11:00	-	12:00	28.3	77	0.05116	2049	34.15
3	08-05-16	12:00	-	13:00	28.4	76	0.04767	1912	31.87
4	08-05-16	13:00	-	14:00	28.3	76	0.04593	1833	30.55

Note: 1. Monitoring data was measured by Rupprecht & Patashnick TEOM®

2. Total Count was logged by Laser Dust Monitor

3. Count/minute was calculated by (Total Count/60)

0015
9975

Validity of Calibration Record: 8 Ma

8 May	2017	

Re	m	2	rl	10	
L/G		a		20	٠

QC Reviewer:	YW Fung	Signature:	4/	Date:	09 May 2016

Type:	Laser Dust Monitor
Manufacturer/Brand:	SIBATA
Model No.:	LD-3
Equipment No.:	A.005.11a
Sensitivity Adjustment Scale Setting:	799 CPM

Operator:

Mike Shek (MSKM)

Standard Equipment

Equipment:	Rupprecht & Patashnick TEOM [®]							
Venue:	Cyberport (Pui Ying Secondary School)							
Model No.:	Series 140	0AB						
Serial No:	Control:	140AB219899803			•			
	Sensor:	1200C143659803	Ko:	12500				
Last Calibration Date*:	7 May 201	6						

*Remarks: Recommended interval for hardware calibration is 1 year

Calibration Result

Sensitivity Adjustment Scale Setting (Before Calibration): Sensitivity Adjustment Scale Setting (After Calibration):

799	CPM
799	CPM

Hour	Date (dd-mm-yy)	Time			bient dition	Concentration ¹ (mg/m ³)	Total Count ²	Count/ Minute ³	
					Temp (°C)	R.H. (%)	Y-axis		X-axis
1	08-05-16	09:30	-	10:30	28.3	77	0.04959	1893	33.05
2	08-05-16	10:30	-	11:30	28.4	77	0.05173	2071	34.52
3	08-05-16	11:30	-	12:30	28.3	76	0.04817	1922	32.03
4	08-05-16	12:30	-	13:30	28.3	77	0.04562	1828	30.47

Note: 1. Monitoring data was measured by Rupprecht & Patashnick TEOM®

2. Total Count was logged by Laser Dust Monitor

3. Count/minute was calculated by (Total Count/60)

Validity of Calibration Record: 8

3	May	2017	

Remarks:

QC	Reviewer:	YW Fung	
		1	

Signature:

Date: 09 May 2016

Laser Dust Monitor
SIBATA
LD-3B
A.005.13a
643 CPM

Operator:

Mike Shek (MSKM)

Standard Equipment

Equipment:	Rupprecht & Patashnick TEOM [®]						
Venue:	Cyberport (Pui Ying Secondary School)						
Model No.:	Series 1400	DAB					
Serial No:	Control:	140AB219899803					
	Sensor:	1200C143659803	K₀:	12500			
Last Calibration Date*:	7 May 2016	3					

*Remarks: Recommended interval for hardware calibration is 1 year

Calibration Result

Sensitivity Adjustment Scale Setting (Before Calibration): Sensitivity Adjustment Scale Setting (After Calibration): 643 CPM 643 CPM

Hour	Date (dd-mm-yy)	Time		Amb Cond	bient dition	Concentration ¹ (mg/m ³)	Total Count ²	Count/ Minute ³	
					Temp (°C)	R.H. (%)	Y-axis		X-axis
1	08-05-16	09:45	-	10:45	28.3	76	0.04923	1977	32.95
2	08-05-16	10:45	-	11:45	28.3	77	0.05086	2034	33.90
3	08-05-16	11:45	-	12:45	28.4	77	0.04834	1936	32.27
4	08-05-16	12:45	-	13:45	28.4	76	0.04617	1850	30.83

Note: 1. Monitoring data was measured by Rupprecht & Patashnick TEOM®

2. Total Count was logged by Laser Dust Monitor

3. Count/minute was calculated by (Total Count/60)

By Linear Regression of Y or X Slope (K-factor): 0.0015 Correlation coefficient: 0.9981

Validity of Calibration Record: 8 Ma

May	201	1	

Remarks:

QC Reviewer:	YW Fung

Signature:

Date: 09 May 2016

Туре:	Laser Dust Monitor
Manufacturer/Brand:	SIBATA
Model No.:	LD-3B
Equipment No.:	A.005.14a
Sensitivity Adjustment Scale Setting:	786 CPM

Operator:

Mike Shek (MSKM)

Standard Equipment

Equipment:	Rupprecht & Patashnick TEOM [®]						
Venue:	Cyberport (Pui Ying Secondary School)						
Model No.:	Series 1400AB						
Serial No:	Control:	140AB219899803					
	Sensor:	1200C143659803	Ko:	12500			
Last Calibration Date*:	7 May 2016						

*Remarks: Recommended interval for hardware calibration is 1 year

Calibration Result

Sensitivity Adjustment Scale Setting (Before Calibration): Sensitivity Adjustment Scale Setting (After Calibration):

786 CPM 786 CPM

Hour	Date (dd-mm-yy)	Time		Amb Cond		Concentration ¹ (mg/m ³)	Total Count ²	Count/ Minute ³	
					Temp (°C)	R.H. (%)	Y-axis		X-axis
1	08-05-16	13:45	-	14:45	28.4	77	0.04652	1994	33.23
2	08-05-16	14:45	-	15:45	28.5	77	0.04837	2071	34.52
3	08-05-16	15:45	-	16:45	28.4	77	0.05162	2205	36.75
4	08-05-16	16:45	-	17:45	28.4	77	0.04983	2135	35.59

Note: 1. Monitoring data was measured by Rupprecht & Patashnick TEOM®

8 May 2017

2. Total Count was logged by Laser Dust Monitor

3. Count/minute was calculated by (Total Count/60)

By Linear Regression of Y or X		
Slope (K-factor):	0.0014	
Correlation coefficient:	0.9987	
Validity of Calibration Record:	8 May 2017	

Remarks:					
QC Reviewer:	YW Fung	Signature:	η	Date:	09 May 2016

Type:	Laser Dust Monitor
Manufacturer/Brand:	SIBATA
Model No.:	LD-3B
Equipment No.:	A.005.16a
Sensitivity Adjustment Scale Setting:	521 CPM

Operator:

Mike Shek (MSKM)

Standard Equipment

Equipment:	Rupprecht & Patashnick TEOM [®]							
Venue:	Cyberport (Pui Ying Secondary School)							
Model No.:	Series 140	Series 1400AB						
Serial No:	Control: 140AB219899803							
	Sensor:	1200C143659803	K _o :	12500				
Last Calibration Date*:	7 May 2015							

*Remarks: Recommended interval for hardware calibration is 1 year

Calibration Result

Sensitivity Adjustment Scale Setting (Before Calibration): Sensitivity Adjustment Scale Setting (After Calibration):

521	CPM
521	CPM

Hour	Date (dd-mm-yy)	Time			dition	Concentration ¹ (mg/m ³)	Total Count ²	Count/ Minute ³	
					Temp (°C)	R.H. (%)	Y-axis		X-axis
1	18-07-15	09:30	-	10:30	29.8	75	0.05032	2014	33.57
2	18-07-15	10:45	-	11:45	30.1	76	0.05117	2047	34.12
3	18-07-15	12:15	-	13:15	30.4	77	0.05363	2141	35.68
4	18-07-15	13:40	-	14:40	30.5	78	0.05465	2179	36.32

Note: 1. Monitoring data was measured by Rupprecht & Patashnick TEOM®

2. Total Count was logged by Laser Dust Monitor

3. Count/minute was calculated by (Total Count/60)

By Linear Regression of Y or X Slope (K-factor): 0.0015 Correlation coefficient: 0.9978

Validity of Calibration Record:

18 July 2016

Remarks:

QC	Reviewer:	YW Fui

ng Signature:

Date: 20 July 2015



The second seco

Tel : (852) 2873 6860 Fax : (852) 2555 7533



CERTIFICATE OF CALIBRATION

Certificate No.:	15CA1203 03		Page:	1	of 2	
Item tested						
Description:	Acoustical Calibra	ator (Class 1)				
Manufacturer:	Rion Co., Ltd.	,				
Type/Model No.:	NC-73					
Serial/Equipment No.:	10307223	N. 4 32)				
Adaptors used:	-					
Item submitted by						
Curstomer:	AECOM ASIA CC	LTD.				
Address of Customer:	-					
Request No .:	2 					
Date of receipt:	03-Dec-2015					
Date of test:	03-Dec-2015					
Reference equipment	used in the calib	oration				
Description:	Model:	Serial No.	Expiry Date:	т	raceable to):
Lab standard microphone	B&K 4180	2341427	15-Apr-2016	5	SCL	
Preamplifier	B&K 2673	2239857	22-Apr-2016	C	EPREI	
Measuring amplifier	B&K 2610	2346941	22-Apr-2016	C	EPREI	
Signal generator	DS 360	61227	16-Apr-2016	C	EPREI	
Digital multi-meter	34401A	US36087050	17-Apr-2016	C	EPREI	
Audio analyzer	8903B	GB41300350	17-Apr-2016	C	EPREI	
Universal counter	53132A	MY40003662	16-Apr-2016	C	EPREI	

Ambient conditions

Temperature:	22 ± 1 °C
Relative humidity:	50 ± 10 %
Air pressure:	1010 ± 5 hPa

Test specifications

- The Sound Calibrator has been calibrated in accordance with the requirements as specified in IEC 60942 1997 Annex B and the lab calibration procedure SMTP004-CA-156.
- 2, The calibrator was tested with its axis vertical facing downwards at the specific frequency using insert voltage technique.
- The results are rounded to the nearest 0.01 dB and 0.1 Hz and have not been corrected for variations from a reference pressure of 1013.25 hectoPascals as the maker's information indicates that the instrument is insensitive to pressure changes.

Test results

This is to certify that the sound calibrator conforms to the requirements of annex B of IEC 60942: 1997 for the conditions under which the test was performed. This does not imply that the sound calibrator meets IEC 60942 under any other conditions.

Details of the performed measurements are presented on page 2 of this certificate.



Date: 04-Dec-2015



Comments: The results reported in bis certificate refer to the conditon of the instrument on the date of calibration and carry no implication regarding the long-term stability of the instrument.

© Soils & Materials Engineering Co., Ltd.

Approved Signatory:

Form No.CARP156-1/Issue 1/Rev.D/01/03/2007

Company Chop:

Hong Kong Accreditation Service (HKAS) has accredited this laboratory (Reg. No. 028 - CAL) under the Hong Kong Laboratory Accreditation Scheme (HOKLAS) for specific calibration activities as listed in the HOKLAS Directory of Accredited Laboratories. The results shown in this certificate were determined by this laboratory in accordance with its terms of accreditation. Such terms of accreditation stipulate that the results shall be traceable to the International System of Units (S.I.) or recognised measurement standards. This certificate shall not be reproduced except in full.



综合試驗有限公司 SOILS & MATERIALS ENGINEERING CO., LTD.

G/F., 9/F., 12/F., 13/F. & 20/F., Leader Centre, 37 Wong Chuk Hang Road, Aberdeen, Hong Kong. 香港黃竹坑道37號利達中心地下,9樓,12樓,13樓及20樓 E-mail: smec@cigismec.com Website: www.cigismec.com

Tel : (852) 2873 6860 Fax : (852) 2555 7533



CERTIFICATE OF CALIBRATION

Certificate No.:	15CA0703 02-02		Page	1	of	2
Item tested						
Description:	Sound Level Meter (T	ype 1)	Microphone			
Manufacturer:	B&K		B&K			
Type/Model No.:	2238	,	4188			
Serial/Equipment No.:	2800927	,	2701214			
Adaptors used:	-	,				
Item submitted by	N.009.06					
Customer Name:	AECOM ASIA CO., L	TD.				
Address of Customer:						
Request No.:	-					
Date of receipt:	03-Jul-2015					
Date of test:	04-Jul-2015					
		ion				
Date of test: Reference equipment Description:		ion Serial No.	Expiry Date:		Traceable	e to:
Reference equipment	used in the calibrat		Expiry Date: 19-Jun-2016		Traceable CIGISMEC	
Reference equipment Description: Multi function sound calibrator	used in the calibrat	Serial No.	19-Jun-2016			
Reference equipment Description: Multi function sound calibrator Signal generator	used in the calibrat Model: B&K 4226	Serial No. 2288444			CIGISMEC	
Reference equipment	used in the calibrat Model: B&K 4226 DS 360	Serial No. 2288444 33873	19-Jun-2016 16-Apr-2016		CIGISMEC CEPREI	
Reference equipment Description: Multi function sound calibrator Signal generator Signal generator Ambient conditions	used in the calibrat Model: B&K 4226 DS 360	Serial No. 2288444 33873	19-Jun-2016 16-Apr-2016		CIGISMEC CEPREI	
Reference equipment Description: Multi function sound calibrator Signal generator Signal generator	used in the calibrat Model: B&K 4226 DS 360 DS 360	Serial No. 2288444 33873	19-Jun-2016 16-Apr-2016		CIGISMEC CEPREI	

Test specifications

- 1, The Sound Level Meter has been calibrated in accordance with the requirements as specified in BS 7580: Part 1: 1997 and the lab calibration procedure SMTP004-CA-152.
- 2, The electrical tests were performed using an electrical signal substituted for the microphone which was removed and replaced by an equivalent capacitance within a tolerance of +20%.
- 3. The acoustic calibration was performed using an B&K 4226 sound calibrator and corrections was applied for the difference between the free-field and pressure responsess of the Sound Level Meter.

Test results

This is to certify that the Sound Level Meter conforms to BS 7580: Part 1: 1997 for the conditions under which the test was performed.

Details of the performed measurements are presented on page 2 of this certificate.

Actual Measurement data are documented on worksheets.

Approved Signatory: 06-Jul-2015 Company Chop: Date: Huang Jian Min/Feng Jun Qi

Comments: The results reported in this certificate refer to the condition of the instrument on the date of calibration and carry no implication regarding the long-term stability of the instrument.

© Soils & Materials Engineering Co., Ltd.

Form No.CARP152-1/Issue 1/Rev.C/01/02/2007

Hong Kong Accreditation Service (HKAS) has accredited this laboratory (Reg. No. 028 - CAL) under the Hong Kong Laboratory Accreditation Scheme (HOKLAS) for specific calibration activities as listed in the HOKLAS Directory of Accredited Laboratories. The results shown in this certificate were determined by this laboratory in accordance with its terms of accreditation. Such terms of accreditation stipulate that the results shall be traceable to the International System of Units (S.I.) or recognised measurement standards. This certificate shall not be reproduced except in full.



The second seco

Tel : (852) 2873 6860 Fax : (852) 2555 7533



CERTIFICATE OF CALIBRATION

Certificate No.:	16CA0304 02		Page	1 of 2
Item tested				
Description: Manufacturer: Type/Model No.: Serial/Equipment No.: Adaptors used:	Sound Level Mete B & K 2250-L 2681366 - (/	er (Type 1) √-○₡(.⊙r)	Microphone B & K 4950 2879980 -	Preamp B & K ZC0032 19428
Item submitted by				
Customer Name: Address of Customer: Request No.: Date of receipt:	AECOM ASIA CO - - 04-Mar-2016	LIMITED		
Date of test:	05-Mar-2016			
Reference equipment	used in the calib	ration		
Description: Multi function sound calibrator Signal generator Signal generator	Model: B&K 4226 DS 360 DS 360	Serial No. 2288444 33873 61227	Expiry Date: 19-Jun-2016 16-Apr-2016 16-Apr-2016	Traceable to: CIGISMEC CEPREI CEPREI
Ambient conditions				
Temperature: Relative humidity: Air pressure:	21 ± 1 °C 60 ± 10 % 1010 ± 5 hPa			
Test specifications				
 The Sound Level Mei and the lab calibratio The electrical tests w 	n procedure SMTP00	04-CA-152.		ified in BS 7580: Part 1: 19

- 2, The electrical tests were performed using an electrical signal substituted for the microphone which was removed and replaced by an equivalent capacitance within a tolerance of ±20%.
- The acoustic calibration was performed using an B&K 4226 sound calibrator and corrections was applied for the difference between the free-field and pressure responsess of the Sound Level Meter.

Test results

This is to certify that the Sound Level Meter conforms to BS 7580: Part 1: 1997 for the conditions under which the test was performed.

Details of the performed measurements are presented on page 2 of this certificate

Actual Measurement data are documented on worksheets.

4 Date: Huang Jian Min/Feng Jun Qi



results reported in the certificate refer to the condition of the instrument on the date of calibrati

08-Mar-2016

Comments: The results reported in this certificate refer to the condition of the instrument on the date of calibration and carry no implication regarding the long-term stability of the instrument.

© Soils & Materials Engineering Co., Ltd.

Approved Signatory:

Form No.CARP152-1/Issue 1/Rev.C/01/02/2007

Company Chop:

Hong Kong Accreditation Service (HKAS) has accredited this laboratory (Reg. No. 028 - CAL) under the Hong Kong Laboratory Accreditation Scheme (HOKLAS) for specific calibration activities as listed in the HOKLAS Directory of Accredited Laboratories. The results shown in this certificate were determined by this laboratory in accordance with its terms of accreditation. Such terms of accreditation stipulate that the results shall be traceable to the International System of Units (S.I.) or recognised measurement standards. This certificate shall not be reproduced except in full.

Work Order:	HK1616643	
Sub-batch:	0	
Client:	AECOM ASIA COMPANY LIMITED	
Date of Issue:	29/04/2016	
Description:	Multifunctional Meter	
Brand Name:	YSI	
Model No.:	6820 V2	
Serial No.:	12A101545	
Equipment No.:	W.026.35	
Date of Calibration:	28 April, 2016	Date of next Calibration:



28 July, 2016

Parameters:

Conductivity Method Ref: APHA (21th edition), 2510B

Expected Reading (uS/cm)	Displayed Reading (uS/cm)	Tolerance (%)
146.9	140.5	-4.4
6667	6750	+1.2
12890	12680	-1.6
58670	58320	-0.6
	Tolerance Limit (%)	±10.0

Dissolved Oxygen Method Ref: APHA (21st edition), 45000: G

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
3.43	3.40	-0.03
5.50	5.46	-0.04
7.75	7.73	-0.02
	Tolerance Limit (mg/L)	±0.20

Temperature

Method Ref: Section 6 of International Accreditation New Zealand Technical

Reading of Ref. thermometer (°C)	Displayed Reading (°C)	Tolerance (°C)	
11.0	10.94	-0.1	
22.0	21.97	-0.0	
37.5	37.44	-0.1	
	Tolerance Limit (°C)	±2.0	

Remark: "Displayed Reading" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

Mr Fung Lim Chee, Richard General Manager -Greater China & Hong Kong

ALS Technichem (HK) Pty Ltd

Work Order:	HK1616643	
Sub-Batch:	0	
Client:	AECOM ASIA COMPANY LIMITED	
Date of Issue:	29/04/2016	
Description:	Multifunctional Meter	
Brand Name:	YSI	
Model No.:	6820 V2	
Serial No.:	12A101545	
Equipment No.:	W.026.35	
Date of Calibration:	28 April, 2016	Date of next Calibration:



28 July, 2016

Parameters:

Salinity

Method Ref: APHA (21st edition), 2520B

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)
0	0.00	
10	10.05	+0.5
20	19.94	-0.3
30	29.90	-0.3
	Tolerance Limit (%)	±10.0

Turbidity

Method Ref: APHA (21st edition), 2130B

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
0	0.0	
4	4.1	+2.5
10	9.9	-1.0
20	20.2	+1.0
50	50.2	+0.4
100	100.4	+0.4
	Tolerance Limit (%)	±10.0

pH Value

Method Ref: APHA (21st edition), 4500H:B

Expected Reading (pH Unit)	Displayed Reading (pH Unit)	Tolerance (pH unit)
1.0	1.00	
4.0	4.02	+0.02
7.0	6.99	-0.01
10.0	10.03	+0.03
	Tolerance Limit (pH Unit)	±0.20

Remark: "Displayed Reading" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

C.M.

Mr Fung Lim Chee, Richard General Manager -Greater China & Hong Kong

ALS Technichem (HK) Pty Ltd ALS Environmental

Work Order:	HK1616644	
Sub-batch:	0	
Client:	AECOM ASIA COMPANY LIMITED	
Date of Issue:	29/04/2016	
Description:	Multifunctional Meter	
Brand Name:	YSI	
Model No.:	6820 V2	
Serial No.:	12D100972	
Equipment No.:	W.026.36	
Date of Calibration:	28 April, 2016	Date of ne

ALS

Date of next Calibration: 28

28 July, 2016

Parameters:

Conductivity

Method Ref: APHA (21th edition), 2510B

E	xpected Reading (uS/cm)	Displayed Reading (uS/cm)	Tolerance (%)
	146.9	142.0	-3.3
	6667	6780	+1.7
	12890	12640	-1.9
	58670	58790	+0.2
		Tolerance Limit (%)	±10.0

Dissolved Oxygen Method Ref: APHA (21st edition), 4500O: G

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
3.43	3.45	+0.02
5.50	5.51	+0.01
7.75	7.76	+0.01
	Tolerance Limit (mg/L)	±0.20

Temperature

Method Ref: Section 6 of International Accreditation New Zealand Technical

Reading of Ref. thermometer (°C)	Displayed Reading (°C)	Tolerance (°C)
11.0	10.95	-0.1
22.0	22.02	+0.0
37.5	37.53	+0.0
	Tolerance Limit (°C)	±2.0

Remark: "Displayed Reading" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

Mr Fung Lim Cheer Rîchard General Manager -Greater China & Hong Kong

ALS Technichem (HK) Pty Ltd

Work Order:	HK1616644	
Sub-Batch:	0	
Client:	AECOM ASIA COMPANY LIMITED	
Date of Issue:	29/04/2016	
Description:	Multifunctional Meter	
Brand Name:	YSI	
Model No.:	6820 V2	
Serial No.:	12D100972	
Equipment No.:	W.026.36	
Date of Calibration:	28 April, 2016	Date of next Calibration:



28 July, 2016

Parameters:

Salinity

Method Ref: APHA (21st edition), 2520B

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)
0	0.00	
10	10.05	+0.5
20	20.02	+0.1
30	29.94	-0.2
	Tolerance Limit (%)	±10.0

Turbidity

Method Ref: APHA (21st edition), 2130B

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
0	0.0	
4	3.9	-2.5
10	9.8	-2.0
20	19.7	-1.5
50	50.5	+1.0
100	99.7	-0.3
	Tolerance Limit (%)	±10.0

pH Value

Method Ref: APHA (21st edition), 4500H:BExpected Reading (pH Unit)Displayed Reading (pH Unit)Tolerance (pH unit)4.04.01+0.017.07.03+0.0310.010.01+0.01Tolerance Limit (pH Unit)±0.20

Remark: "Displayed Reading" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

Mr Fung Lim Chee, Richard General Manager Greater China & Hong Kong

ALS Technichem (HK) Pty Ltd ALS Environmental

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
01-May	02-Ma	y 03-May	04-May	05-May	06-May	07-May
	Mid-Ebb 09:5	2	Mid-Ebb 11:16		Mid-Ebb 12:37	
	Mid-Flood 15:0	3	Mid-Flood 17:10		Mid-Flood 19:03	
					24-hour TSP	
					1-hour TSP	
					Noise	
08-May	09-Ma	y 10-May	11-May	12-May	13-May	14-May
oo may	00 110	,		12 1103	To may	
	Mid-Flood 08:0	1	Mid-Flood 09:22	24-hour TSP	Mid-Flood 11:07	
	Mid-Ebb 14:5	0	Mid-Ebb 16:25		Mid-Ebb 18:17	
				Noise		
				Dolphin monitoring	Dolphin monitoring	
15-May	16-Ma	y 17-May	18-May	19-May	20-May	21-May
	Mid-Ebb 10:0	8	Mid-Ebb 11:19		Mid-Ebb 12:21	
	Mid-Flood 15:4		Mid-Flood 17:31		Mid-Flood 18:56	
	10.4	0	17.51		10.00	
			24-hour TSP			
			1-hour TSP			
			Noise			
22-May	23-Ma	y 24-May	25-May	26-May	27-May	28-May
ZZ-IVIAY	23-1018	y 24-iviay	Zo-iviay	20-1VIAy	27-May	28-11/1ay
	Mid-Flood 07:1	2 24-hour TSP	Mid-Flood 08:17		Mid-Flood* 09:35	
	Mid-Ebb 13:5		Mid-Ebb 15:06		Mid-Ebb* 16:32	
		Noise				
	Dolphin monitoring	Dolphin monitoring	Dolphin monitoring			
29-May	30-Ma					
	Mid-Ebb 08:1 Mid-Flood 13:1					
	13.1					
	24-hour TSP					
	1-hour TSP					
	Noise					

Hong Kong Boundary Crossing Facilities – Reclamation Works Impact Monitoring Schedule for May 2016

*The Impact Water Quality Monitoring originally scheduled on 27 May 2016 was cancelled due to Tropical Cyclone Warning Signal No.3 was hoisted on 27 May 2016. The schedule is subject to change due to unforeseeable circumstances (e.g. adverse weather, etc)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			01-Ju	n 02-Jun	03-Jun	04-Jun
			Mid-Ebb 10:0	5	Mid-Ebb 11:35	24-hour TSP
			Mid-Flood 15:5	6	Mid-Flood 18:04	1-hour TSP
05-Jun	06-Jun	07-Jun	08-JI	n 09-Jun	10-Jun	11-Jun
	Mid-Flood 06:58 Mid-Ebb 13:51 Dolphin monitoring		Mid-Flood 08:2 Mid-Ebb 15:2 24-hour TSP 1-hour TSP Noise		Mid-Flood 09:50 Mid-Ebb 16:51	
12-Jun	13-Jun	14-Jun	15-Jı	n 16-Jun	17-Jun	18-Jun
	Mid-Ebb 08:12 Mid-Flood 13:31		Mid-Ebb 10:0 Mid-Flood 16:7		Mid-Ebb 11:22 Mid-Flood 18:03	
19-Jun	20-Jun	21-Jun	22-Ju	n 23-Jun	24-Jun	25-Jun
	Mid-Flood 06:10 Mid-Ebb 13:03 Dolphin monitoring 24-hour TSP 1-hour TSP Noise	Dolphin monitoring	Mid-Flood 07:: Mid-Ebb 14:'	5	Mid-Flood 08:44 Mid-Ebb 15:33	24-hour TSP 1-hour TSP
26-Jun	27-Jun	28-Jun	29-Ji	n 30-Jun		
	Mid-Flood 11:34 Mid-Ebb 17:58		Mid-Ebb 08:3 Mid-Flood 14:2			

Hong Kong Boundary Crossing Facilities – Reclamation Works Tentative Impact Monitoring Schedule for June 2016

The schedule is subject to change due to unforeseeable circumstances (e.g. adverse weather, etc)

Appendix G Impact Air Quality Monitoring Results

1-hour TSP Monitoring Results at Station AMS2 - Tung Chung Development Pier

		Weather	averaged Wind	Time	Conc.	Action Level	Limit Level
Date	Session	Condition	Speed (m/s)*	(hh:mm)	(µg/m³)	(µg/m³)	(µg/m ³)
06-May-16	1st Hour	Fine	0.01	09:45	79	374	500
06-May-16	2nd Hour	Fine	2.69	10:45	79	374	500
06-May-16	3rd Hour	Fine	1.24	11:45	78	374	500
12-May-16	1st Hour	Sunny	1.79	10:33	76	374	500
12-May-16	2nd Hour	Sunny	1.37	11:33	76	374	500
12-May-16	3rd Hour	Sunny	1.11	12:33	75	374	500
18-May-16	1st Hour	Sunny	0.88	11:36	83	374	500
18-May-16	2nd Hour	Sunny	1.04	12:36	85	374	500
18-May-16	3rd Hour	Sunny	1.90	13:36	82	374	500
24-May-16	1st Hour	Sunny	0.24	10:00	71	374	500
24-May-16	2nd Hour	Sunny	0.01	11:00	72	374	500
24-May-16	3rd Hour	Sunny	0.07	12:00	73	374	500
30-May-16	1st Hour	Sunny	0.81	10:12	77	374	500
30-May-16	2nd Hour	Sunny	0.60	11:12	81	374	500
30-May-16	3rd Hour	Sunny	1.16	12:12	79	374	500
				Average	78		
				Min	71		
				Max	85		

1-hour TSP Monitoring Results at Station AMS3B - Site Boundary of Site Office (WA2)

		Weather	averaged Wind	Time	Conc.	Action Level	Limit Level
Date	Session	Condition	Speed (m/s)*	(hh:mm)	(µg/m³)	(µg/m³) ^	(µg/m³)
06-May-16	1st Hour	Fine	1.24	11:13	80	368	500
06-May-16	2nd Hour	Fine	2.36	12:13	78	368	500
06-May-16	3rd Hour	Fine	1.05	13:13	81	368	500
12-May-16	1st Hour	Sunny	1.79	10:47	76	368	500
12-May-16	2nd Hour	Sunny	1.37	11:47	75	368	500
12-May-16	3rd Hour	Sunny	1.11	12:47	75	368	500
18-May-16	1st Hour	Sunny	0.88	11:58	83	368	500
18-May-16	2nd Hour	Sunny	1.04	12:58	84	368	500
18-May-16	3rd Hour	Sunny	1.90	13:58	85	368	500
24-May-16	1st Hour	Sunny	0.24	10:15	73	368	500
24-May-16	2nd Hour	Sunny	0.01	11:15	72	368	500
24-May-16	3rd Hour	Sunny	0.07	12:15	74	368	500
30-May-16	1st Hour	Sunny	0.81	10:23	76	368	500
30-May-16	2nd Hour	Sunny	0.60	11:23	75	368	500
30-May-16	3rd Hour	Sunny	1.16	12:23	79	368	500
				Average	78		
				Min	72		
				Max	85		

Remarks:

^ Action Level set out at AMS3 Ho Yu College is adopted.

1-hour TSP Monitoring Results at Station AMS7 - Hong Kong SkyCity Marriott Hotel

Date	Session	Weather Condition	averaged Wind Speed (m/s)*	Time (hh:mm)	Conc. (µg/m ³)	Action Level (µg/m ³)	Limit Level (µg/m ³)
				, , , , , , , , , , , , , , , , , , ,			
06-May-16	1st Hour	Fine	2.69	10:18	81	370	500
06-May-16	2nd Hour	Sunny	1.24	11:18	79	370	500
06-May-16	3rd Hour	Sunny	2.36	12:18	79	370	500
12-May-16	1st Hour	Sunny	1.33	10:05	75	370	500
12-May-16	2nd Hour	Sunny	1.79	11:05	75	370	500
12-May-16	3rd Hour	Sunny	1.37	12:05	75	370	500
18-May-16	1st Hour	Sunny	0.88	11:46	82	370	500
18-May-16	2nd Hour	Sunny	1.04	12:46	84	370	500
18-May-16	3rd Hour	Sunny	1.90	13:46	84	370	500
24-May-16	1st Hour	Sunny	0.38	09:50	70	370	500
24-May-16	2nd Hour	Sunny	0.24	10:50	72	370	500
24-May-16	3rd Hour	Sunny	0.01	11:50	73	370	500
30-May-16	1st Hour	Sunny	0.81	10:03	78	370	500
30-May-16	2nd Hour	Sunny	0.60	11:03	77	370	500
30-May-16	3rd Hour	Sunny	1.16	12:03	80	370	500
				Average	78		
				Min	70		
				Max	84		

Appendix G Impact Air Quality Monitoring Results

24-hour TSP Monitoring Results at Station AMS2 - Tung Chung Development Pier

Start	Start	End	End	Weather	Air	Atmospheric	Flow Rate	e (m ³ /min.)	Av. flow	Total vol.	Filter W	eight (g)	Particulate	Elaps	e Time	Sampling	Conc.	Actino Level	Limit Level
Date	Time	Date	Time	Condition	Temp. (°C)	Pressure(hPa)	Initial	Final	(m ³ /min)	(m ³)	Initial	Final	weight(g)	Initial	Final	Time(hrs.)	(µq/m ³)	$(\mu q/m^3)$	(µg/m ³)
05-May-16	16:00	06-May-16	16:00	Fine	28.4	1009.9	1.33	1.33	1.33	1909.4	2.7977	2.8383	0.0406	6360.04	6384.04	24.00	21	176	260
11-May-16	16:00	12-May-16	16:00	Sunny	25.1	1009.8	1.33	1.33	1.33	1909.4	2.8158	2.9184	0.1026	6384.04	6408.04	24.00	54	176	260
17-May-16	16:00	18-May-16	16:00	Sunny	24.5	1012.0	1.33	1.33	1.33	1909.4	2.8083	2.9253	0.1170	6408.04	6432.04	24.00	61	176	260
23-May-16	16:00	24-May-16	16:00	Sunny	27.5	1007.9	1.33	1.33	1.33	1909.4	2.8043	2.9150	0.1107	6432.04	6456.04	24.00	58	176	260
30-May-16	09:00	31-May-16	09:00	Sunny	29.8	1008.8	1.33	1.33	1.33	1909.4	2.8010	2.8339	0.0329	6456.04	6480.04	24.00	17	176	260
																Average	42		
																Min	17][
																Max	61]	

24-hour TSP Monitoring Results at Station AMS3B - Site Boundary of Site Office (WA2)

Start	Start	End	End	Weather	Air	Atmospheric	Flow Rate	e (m ³ /min.)	Av. flow	Total vol.	Filter W	eight (g)	Particulate	Elaps	e Time	Sampling	Conc.	Actino Level	Limit Level
Date	Time	Date	Time	Condition	Temp. (°C)	Pressure(hPa)	Initial	Final	(m ³ /min)	(m ³)	Initial	Final	weight(g)	Initial	Final	Time(hrs.)	(µq/m ³)	(µg/m ³)	(µg/m ³)
05-May-16	16:00	06-May-16	16:00	Fine	28.4	1009.9	1.34	1.34	1.34	1923.8	2.8037	2.8445	0.0408	7135.38	7159.38	24.00	21	167	260
11-May-16	16:00	12-May-16	16:00	Sunny	25.1	1009.8	1.34	1.34	1.34	1923.8	2.8180	2.9025	0.0845	7159.38	7183.38	24.00	44	167	260
17-May-16	16:00	18-May-16	16:00	Sunny	24.5	1012.0	1.34	1.34	1.34	1923.8	2.8047	2.9267	0.1220	7183.38	7207.38	24.00	63	167	260
24-May-16 *	13:30	25-May-16*	13:30	Sunny	28.0	1007.8	1.34	1.34	1.34	1923.8	2.8042	2.8766	0.0724	7207.38	7231.38	24.00	38	167	260
30-May-16	09:00	31-May-16	09:00	Sunny	29.8	1008.8	1.34	1.34	1.34	1923.8	2.8207	2.8608	0.0401	7231.38	7255.38	24.00	21	167	260
																Average	37		
																Min	21		
																Max	63		

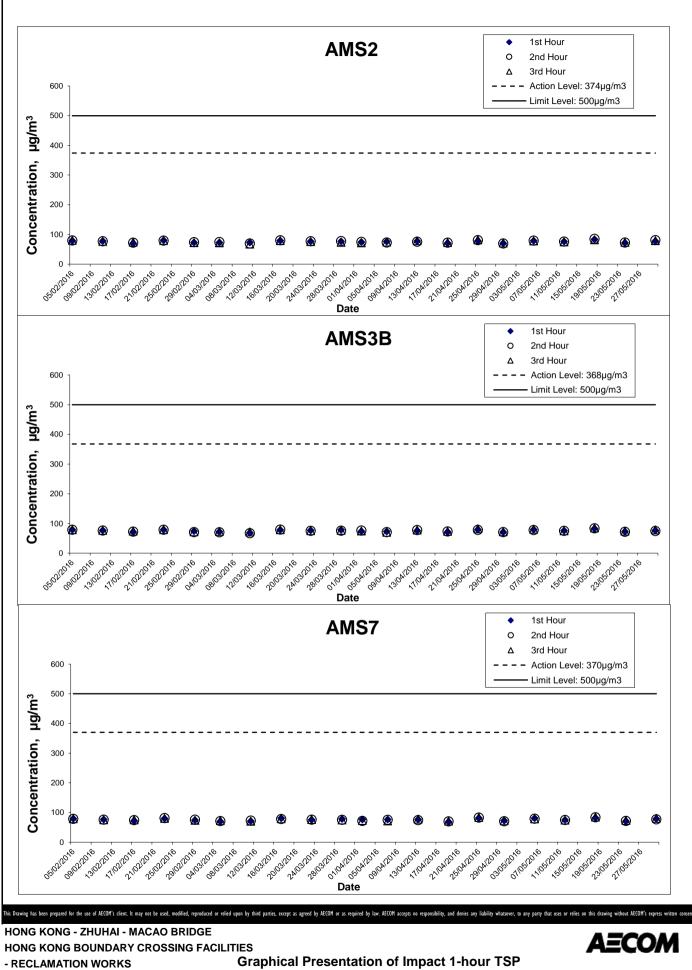
^ Action Level set out at AMS3 Ho Yu College is adopted.

* Due to electricity failure, the 24-hour TSP Monitoring at Station AMS3B - Site Boundary of Site Office (WA2) was rescheduled from 23 May 2016 - 24 May 2016 to 24 May 2016 - 25 May 2016.

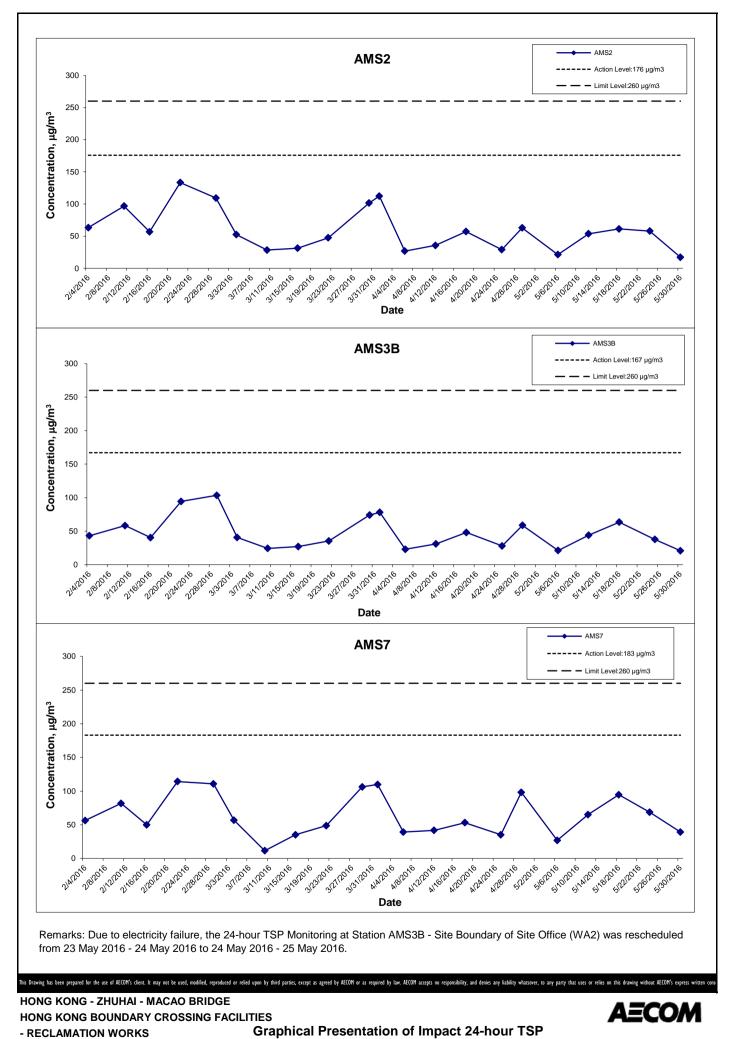
24-hour TSP Monitoring Results at Station AMS7 - Hong Kong SkyCity Marriott Hotel

Start	Start	End	End	Weather	Air	Atmospheric	Flow Rate	e (m ³ /min.)	Av. flow	Total vol.	Filter W	eight (g)	Particulate	Elaps	e Time	Sampling	Conc.	Actino Level	Limit Level
Date	Time	Date	Time	Condition	Temp. (°C)	Pressure(hPa)	Initial	Final	(m ³ /min)	(m ³)	Initial	Final	weight(g)	Initial	Final	Time(hrs.)	(µq/m ³)	$(\mu q/m^3)$	(µg/m ³)
05-May-16	16:00	06-May-16	16:00	Fine	28.4	1009.9	1.30	1.30	1.30	1869.1	2.8081	2.8584	0.0503	6075.91	6099.91	24.00	27	183	260
11-May-16	16:00	12-May-16	16:00	Sunny	25.1	1009.8	1.30	1.30	1.30	1869.1	2.8050	2.9268	0.1218	6099.91	6123.91	24.00	65	183	260
17-May-16	16:00	18-May-16	16:00	Sunny	24.5	1012.0	1.30	1.30	1.30	1869.1	2.7981	2.9749	0.1768	6123.91	6147.91	24.00	95	183	260
23-May-16	16:00	24-May-16	16:00	Sunny	28.0	1007.8	1.30	1.30	1.30	1869.1	2.8028	2.9312	0.1284	6147.91	6171.91	24.00	69	183	260
30-May-16	09:00	31-May-16	09:00	Sunny	29.8	1008.8	1.30	1.30	1.30	1869.1	2.8053	2.8787	0.0734	6171.91	6195.91	24.00	39	183	260
																Avorago	50	1	

Average	59
Min	27
Max	95



Monitoring Results



Monitoring Results

Contract No. HY/2010/02 Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities – Reclamation Works

APPENDIX H Meteorological Data for Monitoring Periods on Monitoring Dates in May 2016

WIND DATA

Date	Time	Averaged Wind Speed (m/s)	Averaged Wind Direction (degrees)
05/05/2016	15:39:23	0.00	79
05/05/2016	16:39:23	0.10	341
05/05/2016	17:39:23	0.46	120
05/05/2016	18:39:23	0.74	348
05/05/2016	19:39:23	0.08	236
05/05/2016	20:39:23	0.88	255
05/05/2016	21:39:23	0.04	248
05/05/2016	22:39:23	0.35	91
05/05/2016	23:39:23	1.09	335
05/06/2016	00:39:23	1.73	342
05/06/2016	01:39:23	0.84	338
05/06/2016	02:39:23	0.00	27
05/06/2016	03:39:23	0.00	38
05/06/2016	04:39:23	0.01	353
05/06/2016	05:39:23	0.10	136
05/06/2016	06:39:23	0.04	9
05/06/2016	07:39:23	0.94	59
05/06/2016	08:39:23	0.77	307
05/06/2016	09:39:23	0.01	329
05/06/2016	10:39:23	2.69	331
05/06/2016	11:51:15	1.24	44
05/06/2016	12:51:15	2.36	296
05/06/2016	13:51:15	1.05	110
05/06/2016	14:51:15	0.15	39
05/06/2016	15:51:15	0.00	99
05/06/2016	16:51:15	0.00	292
05/06/2016	17:51:15	0.17	91
05/11/2016	15:51:15	0.03	318
05/11/2016	16:51:15	0.76	100
05/11/2016	17:51:15	0.03	159
05/11/2016	18:51:15	1.83	120
05/11/2016	19:51:15	1.33	88
05/11/2016	20:51:15	4.00	112
05/11/2016	21:51:15	2.03	114
05/11/2016	22:51:15	1.40	152
05/11/2016	23:51:15	6.17	144
05/12/2016	00:51:15	4.39	143
05/12/2016	01:51:15	1.27	111
05/12/2016	02:51:15	1.38	124
05/12/2016	03:51:15	1.05	137
05/12/2016	04:51:15	1.68	144
05/12/2016	05:51:15	2.04	140
05/12/2016	06:51:15	3.52	112
05/12/2016	07:51:15	3.45	105
05/12/2016	08:51:15	1.34	86
05/12/2016	09:51:15	1.33	146
05/12/2016	10:43:19	1.79	123
05/12/2016	11:43:19	1.37	129
05/12/2016	12:43:19	1.11	123
05/12/2016	13:43:19	0.04	142
05/12/2016	14:43:19	0.91	143
05/12/2016	15:43:19	1.19	169
05/12/2016	16:43:19	1.15	72
05/12/2016	17:43:19	0.94	94
05/17/2016	15:43:19	0.41	131
05/17/2016	16:43:19	1.90	135
05/17/2016	17:43:19	0.49	72
05/17/2016	18:43:19	0.49	110
05/17/2016	19:43:19	2.15	168
05/17/2016	20:43:19	1.27	127
05/17/2016	20:43:19	2.32	127
05/17/2016	21:43:19	1.62	179
05/17/2016	23:43:19	0.10	253
05/18/2016	00:43:19	3.69	255 141
05/18/2016	01:43:19	1.33	130
05/18/2016	01:43:19	0.15	130
05/18/2016	02:43:19	0.15	130
05/18/2016	03:43:19	0.36	96
05/18/2016	04:43:19	2.03	164
05/18/2016	05:43:19	2.03	164 129
05/18/2016	06:43:19	1.72	129
05/18/2016	07:43:19	1.72	131
05/18/2016	09:43:19	0.03	22
	10:43:19	4.17	175
05/18/2016			
05/18/2016	11:43:19	0.88	139
05/18/2016	12:43:19	1.04	129
05/18/2016	13:37:40	1.90	121
05/18/2016	13:40:56	2.45	93
05/18/2016	14:40:56	3.76	123
05/18/2016	15:40:56	3.44	151
05/18/2016	16:40:56	2.17	131
05/18/2016	17:40:56	1.76	99
05/23/2016	15:40:56	0.03	306
05/23/2016	16:40:56	0.04	336
05/23/2016	17:40:56	1.06	139
05/23/2016	18:40:56	0.04	345
05/23/2016	19:40:56	0.15	113
05/23/2016	20:40:56	0.08	112
		0.07	88
05/23/2016	21:40:56	0.07	00

Contract No. HY/2010/02 Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities – Reclamation Works

APPENDIX H Meteorological Data for Monitoring Periods on Monitoring Dates in May 2016

WIND DATA

WIND DATA			
Date	Time	Averaged Wind Speed (m/s)	Averaged Wind Direction (degrees)
05/23/2016	23:40:56	0.11	351
05/24/2016	00:40:56	0.04	69
05/24/2016	01:40:56	0.01	299
05/24/2016	02:40:56	0.00	18
05/24/2016	03:40:56	0.01	322
05/24/2016	04:40:56	0.01	322
05/24/2016	05:40:56	0.03	287
05/24/2016	06:40:56	0.06	287
05/24/2016	07:40:56	0.03	124
05/24/2016	08:40:56	0.15	127
05/24/2016	09:40:56	0.38	132
05/24/2016	10:40:56	0.24	36
05/24/2016	11:40:56	0.01	80
05/24/2016	12:40:56	0.07	90
05/24/2016	13:40:56	0.53	79
05/24/2016	14:40:56	0.41	106
05/24/2016	15:40:56	0.03	137
05/24/2016	16:40:56	0.01	117
05/24/2016	17:40:56	0.01	70
05/24/2016	18:40:56	0.06	9
05/24/2016	19:40:56	0.11	119
05/24/2016	20:40:56	0.15	109
05/24/2016	21:40:56	0.10	77
05/24/2016	22:40:56	0.13	83
05/24/2016	23:40:56	0.10	9
05/25/2016	00:40:56	0.03	329
05/25/2016	01:40:56	0.01	325
05/25/2016	02:40:56	0.01	123
05/25/2016	03:40:56	0.00	29
05/25/2016	04:40:56	0.01	283
05/25/2016	05:40:56	0.25	306
05/25/2016	06:40:56	0.06	286
05/25/2016	07:40:56	1.41	130
05/25/2016	08:40:56	0.81	141
05/25/2016	09:40:56	1.72	140
05/25/2016	10:40:56	3.12	138
05/25/2016	11:40:56	2.32	324
05/25/2016	12:40:56	0.00	49
05/25/2016	13:40:56	1.04	22
05/25/2016	14:40:56	1.52	142
05/30/2016	08:40:56	0.29	132
05/30/2016	09:40:56	0.81	325
05/30/2016	10:40:56	0.60	14
05/30/2016	11:44:56	1.93	318
05/30/2016	12:44:56	3.02	337
05/30/2016	13:44:56	1.13	170
05/30/2016	14:44:56	1.64	15
05/30/2016	15:44:56	0.04	300
05/30/2016	16:44:56	0.13	60
05/30/2016	17:44:56	0.78	9
05/30/2016	18:44:56	0.73	8
05/30/2016	19:44:56	0.18	339
05/30/2016	20:44:56	0.10	38
05/30/2016	21:44:56	0.07	352
05/30/2016	22:44:56	0.03	80
05/30/2016	23:44:56	0.04	323
05/31/2016	00:44:56	0.14	332
05/31/2016	01:44:56	0.39	22
05/31/2016	02:44:56	0.01	343
05/31/2016	02.44.56	0.49	333
	03:44:56		
05/31/2016	04:44:56	0.01	346
05/31/2016 05/31/2016	04:44:56 05:44:56	0.00	346
05/31/2016 05/31/2016 05/31/2016	04:44:56 05:44:56 06:44:56	0.00 0.03	346 352
05/31/2016 05/31/2016 05/31/2016 05/31/2016	04:44:56 05:44:56 06:44:56 07:44:56	0.00 0.03 0.01	346 352 308
05/31/2016 05/31/2016 05/31/2016 05/31/2016 05/31/2016	04:44:56 05:44:56 06:44:56 07:44:56 08:44:56	0.00 0.03 0.01 0.00	346 352 308 33
05/31/2016 05/31/2016 05/31/2016 05/31/2016	04:44:56 05:44:56 06:44:56 07:44:56	0.00 0.03 0.01	346 352 308

Appendix I Impact Daytime Construction Noise Monitoring Results

		Nois	se Level for 30	0-min, dB(A) [#]	-				
Date	Weather Condition	Time	L90	L10	Leq	Averaged Wind Speed (m/s)	Baseline Noise Level, dB(A)	Limit Level, dB(A)	Exceedance (Y/N)
6-May-16	Fine	10:40	62	69	67	<5m/s	62.9	75	Ν
12-May-16	Sunny	10:24	64	68	66	<5m/s	62.9	75	N
18-May-16	Sunny	10:35	64	70	67	<5m/s	62.9	75	Ν
24-May-16	Sunny	10:35	63	68	66	<5m/s	62.9	75	Ν
30-May-16	Sunny	10:40	61	66	64	<5m/s	62.9	75	Ν
		Min	61	66	64				
		Max	64	70	67				
		Average			66				

Daytime Noise Monitoring Results at Station NMS2 - Seaview Crescent Tower 1

Daytime Noise Monitoring Results at Station NMS3B - Site Boundary of Site Office (WA2)

		Nois	se Level for 30)-min, dB(A) [#]	-				
Date	Weather Condition	Time	L90	L10	Leq	Averaged Wind Speed (m/s)	Baseline Noise Level, dB(A) ^	Limit Level, dB(A)**	Exceedance (Y/N)
6-May-16	Fine	11:25	61	69	65	<5m/s	66.3	70	Ν
12-May-16	Fine	14:06	64	68	67	<5m/s	66.3	70	Ν
18-May-16	Sunny	11:25	66	72	69	<5m/s	66.3	70	Ν
24-May-16	Sunny	11:20	64	67	65	<5m/s	66.3	70	Ν
30-May-16	Sunny	11:25	61	68	66	<5m/s	66.3	70	Ν
		Min	61	67	65				
		Max	66	72	69				
		Average			67				

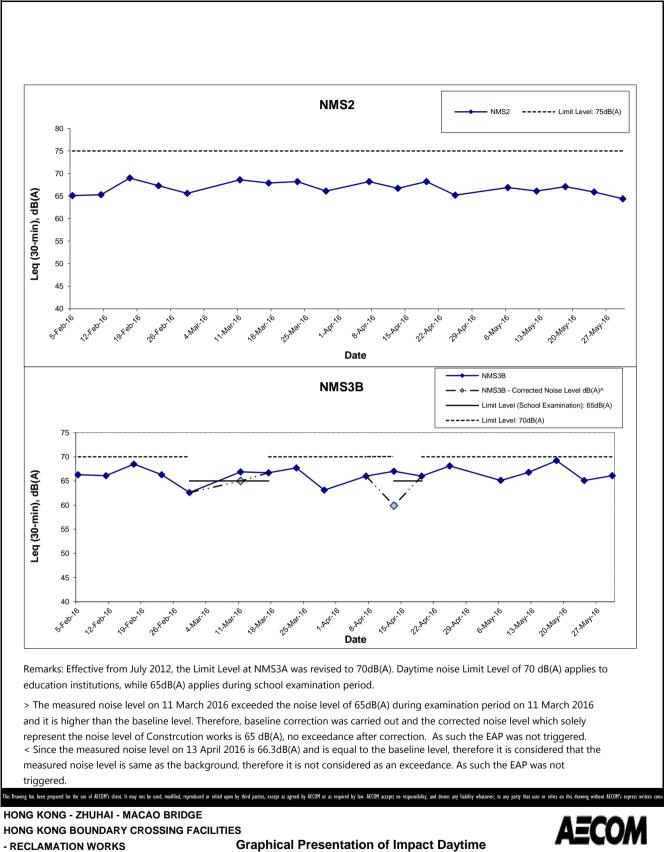
Remark:

 $^{\#}$ A correction of +3dB(A) was made to the free field measurement.

* Façade measurement.

^ Averaged baseline noise level recorded at NMS3 Ho Yu College is adopted.

** Limit Level of 70dB(A) applies to education institutes while 65dB(A) applies during school examination period.



Graphical Presentation of Impact Daytime Construction Noise Monitoring Results

Appendix I

Project No.: 60249820 Date: June 2016

Water Quality Monitoring Results at CS(Mf)3 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	Н	Salini	ity (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Т	Furbidity(NT	J)	Suspe	nded Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
2-May-16	Sunny	Moderate	10:16		Surface	1.0	23.0 23.1	23.0	8.2 8.2	8.2	22.0 21.9	22.0	84.0 85.4	84.7	6.4 6.5	6.4		3.2 3.0	3.1		5.1 4.5	4.8	
				6.7	Middle	3.4	22.6 22.6	22.6	8.2 8.2	8.2	24.5 24.8	24.6	84.0 84.6	84.3	6.3 6.3	6.3	6.4	4.7 4.5	4.6	4.4	5.3 4.2	4.8	4.7
					Bottom	5.7	22.6 22.5	22.6	8.2 8.1	8.1	26.1 25.9	26.0	84.6 86.2	85.4	6.3 6.4	6.4	6.4	5.3 5.6	5.5		4.9	4.6	
4-May-16	Sunny	Moderate	11:56		Surface	1.0	24.3 24.4	24.4	8.1 8.1	8.1	19.7 19.5	19.6	86.1 85.6	85.9	6.5 6.5	6.5		3.0 2.8	2.9		3.0 4.0	3.5	
				6.8	Middle	3.4	23.8	23.7	8.1 8.1	8.1	20.0	19.5	85.5 84.1	84.8	6.3 6.5	6.4	6.5	3.2 3.1	3.2	3.2	4.5	4.4	4.3
					Bottom	5.8	23.4 24.0	23.7	8.1 8.1	8.1	21.1	22.1	85.3 84.6	85.0	6.5 6.4	6.5	6.5	3.4 3.4	3.4		4.2	5.1	
6-May-16	Sunny	Moderate	13:12		Surface	1.0	24.9 25.3	25.1	8.1 8.0	8.0	18.8 18.7	18.7	83.2 83.4	83.3	6.2 6.2	6.2		4.2 4.1	4.2		3.6 4.0	3.8	
				6.4	Middle	3.2	24.7 24.3	24.5	8.0 8.0	8.0	19.1 21.6	20.3	82.6 83.1	82.9	6.1 6.2	6.1	6.2	4.2	4.3	4.3	4.8	4.5	4.6
					Bottom	5.4	24.4 24.3	24.4	8.0 8.0	8.0	22.3	22.0	80.6 80.4	80.5	6.0 6.0	6.0	6.0	4.5	4.5		5.7	5.6	
9-May-16	Sunny	Moderate	14:13		Surface	1.0	25.9 25.7	25.8	8.0 8.1	8.1	17.8 17.9	17.9	78.7 77.6	78.2	5.8 5.7	5.8		6.3 6.6	6.5		3.8 4.9	4.4	
				6.6	Middle	3.3	25.3 25.3	25.3	8.1 8.1	8.1	18.3	18.4	78.1	77.6	5.8 5.7	5.8	5.8	9.0 9.5	9.3	8.7	4.0	4.2	4.7
					Bottom	5.6	25.0 25.2	25.1	8.0 8.0	8.0	21.0 21.0	21.0	77.1	77.7	5.7 5.7	5.7	5.7	10.7	10.3		5.2	5.6	
11-May-16	Sunny	Moderate	15:49		Surface	1.0	26.2 26.3	26.3	8.1 8.1	8.1	13.6 13.0	13.3	77.7 85.0	81.4	5.8 6.3	6.1		3.4 3.5	3.5		4.4	4.5	
				6.5	Middle	3.3	25.9 26.1	26.0	8.1 8.1	8.1	14.0 13.9	13.9	77.4 78.8	78.1	5.8 5.9	5.9	6.0	3.7 3.7	3.7	3.6	4.8 5.0	4.9	4.5
					Bottom	5.5	25.1 26.0	25.6	8.0 8.0	8.0	16.8 17.7	17.3	77.2 78.5	77.9	5.8 5.8	5.8	5.8	3.7 3.7	3.7		4.1 4.0	4.1	
13-May-16	Sunny	Moderate	17:46		Surface	1.0	25.1 25.1	25.1	8.3 8.3	8.3	20.0 20.1	20.1	83.7 83.1	83.4	6.2 6.1	6.1	0.1	3.3 3.4	3.4		4.2 3.9	4.1	
				6.5	Middle	3.3	25.0 25.1	25.0	8.3 8.3	8.3	20.3 20.1	20.2	83.0 83.4	83.2	6.1 6.1	6.1	6.1	3.5 3.3	3.4	3.4	3.6 3.2	3.4	3.9
					Bottom	5.5	24.8 24.9	24.8	8.2 8.2	8.2	22.8 22.0	22.4	82.8 83.1	83.0	6.0 6.1	6.1	6.1	3.3 3.3	3.3		3.4 4.7	4.1	
16-May-16	Sunny	Moderate	09:56		Surface	1.0	25.4 25.4	25.4	8.3 8.3	8.3	14.5 14.7	14.6	86.9 86.9	86.9	6.4 6.5	6.4	6.4	4.5 4.7	4.6		6.8 6.5	6.7	
				6.8	Middle	3.4	24.8 24.9	24.8	8.1 8.1	8.1	23.6 21.6	22.6	86.3 84.6	85.5	6.3 6.4	6.4	0.4	4.7 4.4	4.6	4.6	6.9 7.5	7.2	6.9
					Bottom	5.8	25.0 24.8	24.9	8.1 8.1	8.1	25.7 25.9	25.8	81.5 85.6	83.6	5.9 6.1	6.0	6.0	4.7 4.5	4.6		6.1 7.5	6.8	
18-May-16	Sunny	Moderate	11:08		Surface	1.0	25.1 25.1	25.1	8.5 8.5	8.5	25.8 25.8	25.8	116.5 115.1	115.8	8.3 8.2	8.3	8.3	3.4 3.5	3.5		7.3 7.0	7.2	
				6.4	Middle	3.2	25.0 25.0	25.0	8.5 8.5	8.5	25.8 25.9	25.9	115.2 114.0	114.6	8.2 8.1	8.2	0.0	3.6 3.6	3.6	3.6	6.9 7.7	7.3	7.1
					Bottom	5.4	24.9 24.8	24.9	8.5 8.5	8.5	27.0 26.9	27.0	107.5 104.4	106.0	7.7 7.4	7.5	7.5	3.8 3.7	3.8		6.9 6.7	6.8	
20-May-16	Rainy	Moderate	12:51		Surface	1.0	25.2 25.3	25.2	8.4 8.4	8.4	23.9 23.9	23.9	93.3 93.9	93.6	6.7 6.7	6.7	6.7	7.3 7.6	7.5		4.7 5.0	4.9	
				6.5	Middle	3.3	25.1 25.1	25.1	8.3 8.3	8.3	26.8 26.8	26.8	92.7 93.0	92.9	6.6 6.6	6.6	0.7	8.1 7.8	8.0	8.5	3.9 4.7	4.3	4.4
					Bottom	5.5	25.1 25.1	25.1	8.3 8.3	8.3	26.9 26.8	26.9	93.5 93.1	93.3	6.6 6.6	6.6	6.6	10.2 9.7	10.0		4.2 3.6	3.9	

* DA: Depth-Averaged

Water Quality Monitoring Results at CS(Mf)3 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samplin	ng	Temper	ature (°C)	F	эΗ	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ved Oxyger	i (mg/L)	Т	urbidity(NTL	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth (r	m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-May-16	Sunny	Moderate	13:23		Surface	1.0	26.7 26.7	26.7	8.3 8.3	8.3	17.7 17.6	17.7	88.0 87.5	87.8	6.4 6.4	6.4	6.4	6.2 6.9	6.6		2.5 3.7	3.1	
				6.5	Middle	3.3	26.5 26.2	26.3	8.3 8.3	8.3	18.3 18.6	18.4	87.4 86.1	86.8	6.4 6.3	6.3	0.4	7.5 7.3	7.4	7.2	3.3 3.5	3.4	3.4
					Bottom	5.5	25.7 26.1	25.9	8.2 8.2	8.2	25.4 25.2	25.3	84.9 86.3	85.6	6.0 6.1	6.0	6.0	7.4 7.7	7.6		4.0 3.4	3.7	
25-May-16	Sunny	Moderate	14:28		Surface	1.0	27.5 27.4	27.5	8.3 8.3	8.3	17.4 17.7	17.5	93.8 94.2	94.0	6.7 6.8	6.7	6.7	8.1 8.1	8.1		6.1 5.9	6.0	
				6.3	Middle	3.2	26.8 26.9	26.9	8.3 8.3	8.3	19.0 19.1	19.0	94.5 91.9	93.2	6.7 6.6	6.7	0.7	8.3 8.2	8.3	8.3	5.1 7.0	6.1	6.7
					Bottom	5.3	26.7 26.5	26.6	8.2 8.2	8.2	21.5 23.1	22.3	89.7 91.7	90.7	6.4 6.5	6.5	6.5	8.5 8.4	8.5		8.1 8.1	8.1	
27-May-16 ***	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	-		-		-	-	-		-	-	-		-	-	-	-	-	-
					Bottom	-	-	-		-	-	-	-	-	-	-	-	-	-		-	-	
30-May-16	Sunny	Moderate	13:22		Surface	1.0	28.4 28.2	28.3	8.3 8.3	8.3	11.5 11.7	11.6	96.6 95.5	96.1	7.1 7.0	7.0	7.0	6.7 6.8	6.8		3.1 3.1	3.1	
				6.8	Middle	3.4	28.0 28.2	28.1	8.2 8.2	8.2	12.2 11.6	11.9	94.5 95.5	95.0	6.9 7.0	7.0	7.0	6.9 6.9	6.9	6.9	3.5 2.9	3.2	3.1
					Bottom	5.8	28.0 27.8	27.9	8.2 8.1	8.1	13.8 16.1	15.0	95.1 95.5	95.3	6.9 6.9	6.9	6.9	7.0 7.0	7.0		2.8 3.4	3.1	

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

Remarks:

* DA: Depth-Averaged

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

Water Quality Monitoring Results at CS(Mf)3 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	н	Salini	ity (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Т	Furbidity(NT	J)	Suspe	nded Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
2-May-16	Sunny	Moderate	14:19		Surface	1.0	23.4 23.1	23.3	8.2 8.2	8.2	14.7 15.1	14.9	90.4 85.4	87.9	7.1 6.7	6.9		3.1 2.8	3.0		5.2 5.6	5.4	
				6.6	Middle	3.3	22.7 22.6	22.6	8.2 8.2	8.2	16.5 16.9	16.7	84.6 83.4	84.0	6.6 6.5	6.6	6.8	3.1 3.5	3.3	3.4	4.6 4.5	4.6	4.9
					Bottom	5.6	22.5 22.5	22.5	8.2 8.2	8.2	19.6 18.9	19.3	86.5 84.9	85.7	6.7 6.6	6.6	6.6	3.9 3.7	3.8		4.8	4.6	
4-May-16	Sunny	Moderate	17:11		Surface	1.0	24.0 24.0	24.0	8.2 8.2	8.2	19.1 18.3	18.7	81.9 81.9	81.9	6.2 6.2	6.2		3.3	3.3		3.1 4.3	3.7	
				7.0	Middle	3.5	23.8 23.8	23.8	8.2 8.1	8.2	19.9 20.1	20.0	81.7 81.6	81.7	6.2 6.1	6.1	6.2	3.5 3.4	3.5	3.5	2.2	2.8	3.2
					Bottom	6.0	23.8 23.7	23.8	8.1 8.1	8.1	20.3	20.8	81.5 81.6	81.6	6.1 6.1	6.1	6.1	3.7 3.6	3.7		3.6 2.7	3.2	
6-May-16	Sunny	Moderate	19:07		Surface	1.0	25.2 25.4	25.3	8.1 8.1	8.1	17.5 16.1	16.8	79.4 79.6	79.5	5.9 6.0	5.9		5.3 5.3	5.3		8.5 8.8	8.7	
				6.6	Middle	3.3	25.2 25.0	25.1	8.1 8.0	8.1	18.0	18.3	79.1 79.2	79.2	5.9 5.9	5.9	5.9	5.4 5.6	5.5	5.5	9.2 9.6	9.4	9.2
					Bottom	5.6	24.9 25.1	25.0	8.0 8.0	8.0	19.0 19.0	19.0	79.0	78.9	5.9 5.8	5.9	5.9	5.7 5.7	5.7		9.5 9.5	9.5	
9-May-16	Sunny	Moderate	08:16		Surface	1.0	25.3 25.3	25.3	8.0 8.0	8.0	10.5 11.2	10.8	78.3 78.9	78.6	6.1 5.9	6.0		12.1 12.8	12.5		10.0 10.1	10.1	
				6.7	Middle	3.4	25.0 25.0	25.0	8.0 8.0	8.0	13.5 13.4	13.5	79.1 77.2	78.2	5.8 5.9	5.9	6.0	13.6	13.5	13.8	10.4	10.2	10.0
					Bottom	5.7	25.0 25.0	25.0	8.0 8.0	8.0	13.1 13.2	13.1	77.2	79.2	5.9 5.9	5.9	5.9	15.5 15.3	15.4		9.8	9.7	
11-May-16	Sunny	Moderate	09:41		Surface	1.0	25.3 25.6	25.4	8.0 8.0	8.0	14.2 14.2	14.2	76.7 81.7	79.2	5.8 6.0	5.9	5.0	5.6 5.6	5.6		3.5 3.3	3.4	
				6.4	Middle	3.2	25.1 25.1	25.1	7.9 7.9	7.9	19.0 19.3	19.1	75.8 78.4	77.1	5.7 5.9	5.8	5.9	5.7 5.7	5.7	5.7	3.9 4.0	4.0	3.6
					Bottom	5.4	25.2 25.1	25.2	7.9 7.9	7.9	19.4 19.5	19.4	75.8 77.9	76.9	5.6 5.8	5.7	5.7	5.7 5.6	5.7		3.4 3.5	3.5	
13-May-16	Sunny	Moderate	11:58		Surface	1.0	25.4 25.4	25.4	8.1 8.0	8.1	17.1 17.2	17.1	79.3 81.6	80.5	6.3 6.4	6.3	6.2	3.0 2.9	3.0		3.8 4.2	4.0	
				6.4	Middle	3.2	24.9 25.1	25.0	8.0 8.0	8.0	21.3 20.8	21.0	78.6 79.9	79.3	6.1 6.2	6.1	0.2	3.3 3.2	3.3	3.2	3.7 5.3	4.5	4.2
					Bottom	5.4	24.8 24.9	24.8	8.0 8.0	8.0	23.8 23.1	23.4	77.2 75.8	76.5	6.1 6.0	6.1	6.1	3.2 3.4	3.3		4.1 4.3	4.2	
16-May-16	Sunny	Moderate	16:00		Surface	1.0	26.1 25.7	25.9	8.4 8.4	8.4	15.3 15.5	15.4	93.3 91.1	92.2	6.9 6.5	6.7	6.7	4.2 4.1	4.2		5.4 5.5	5.5	
				6.9	Middle	3.5	25.5 25.9	25.7	8.3 8.4	8.3	20.5 20.4	20.5	88.6 87.6	88.1	6.6 6.5	6.6	0.7	4.2 4.2	4.2	4.2	6.0 7.0	6.5	6.0
					Bottom	5.9	24.6 24.8	24.7	8.2 8.2	8.2	26.1 26.0	26.1	85.5 88.1	86.8	6.2 6.3	6.3	6.3	4.3 4.3	4.3		6.4 5.7	6.1	
18-May-16	Sunny	Moderate	17:32		Surface	1.0	25.3 25.4	25.3	8.5 8.5	8.5	22.7 22.5	22.6	115.1 113.9	114.5	8.2 8.2	8.2	8.2	3.2 3.2	3.2		3.5 4.1	3.8	
				6.5	Middle	3.3	25.2 25.1	25.2	8.5 8.5	8.5	22.6 23.0	22.8	111.7 114.3	113.0	8.1 8.2	8.1		3.3 3.2	3.3	3.3	5.6 5.9	5.8	5.1
					Bottom	5.5	25.2 25.2	25.2	8.5 8.5	8.5	24.5 25.5	25.0	111.5 110.9	111.2	8.1 8.0	8.0	8.0	3.3 3.4	3.4		5.7 5.7	5.7	<u> </u>
20-May-16	Cloudy	Moderate	18:24		Surface	1.0	25.4 25.4	25.4	8.3 8.3	8.3	21.3 21.1	21.2	88.9 88.9	88.9	6.5 6.5	6.5	6.4	3.6 3.7	3.7		3.7 4.7	4.2	l
				6.5	Middle	3.3	25.3 25.3	25.3	8.3 8.3	8.3	22.2 22.7	22.4	88.3 87.1	87.7	6.4 6.3	6.3	-	4.2 4.4	4.3	4.2	4.6 5.3	5.0	4.7
					Bottom	5.5	25.3 25.3	25.3	8.2 8.2	8.2	23.0 23.4	23.2	88.2 87.1	87.7	6.4 6.3	6.3	6.3	4.4 4.7	4.6		4.8 5.0	4.9	

Remarks:

* DA: Depth-Averaged

Water Quality Monitoring Results at CS(Mf)3 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Sampli	ing	Temper	ature (°C)	F	Н	Salinit	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	ı (mg/L)	Т	urbidity(NTL	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-May-16	Sunny	Moderate	07:39		Surface	1.0	25.8 25.9	25.8	8.3 8.3	8.3	22.6 22.4	22.5	85.5 92.7	89.1	6.1 6.6	6.4	6.2	7.6 7.0	7.3		4.7 5.8	5.3	
				6.5	Middle	3.3	25.6 25.6	25.6	8.3 8.3	8.3	25.0 25.0	25.0	82.9 86.7	84.8	5.9 6.2	6.0	0.2	7.7 7.5	7.6	8.6	5.3 5.8	5.6	5.5
					Bottom	5.5	25.5 25.6	25.6	8.3 8.3	8.3	25.3 25.4	25.3	83.5 83.8	83.7	5.9 6.0	6.0	6.0	10.6 11.2	10.9		5.0 6.3	5.7	
25-May-16	Sunny	Moderate	08:39		Surface	1.0	26.8 26.4	26.6	8.3 8.2	8.3	20.5 22.8	21.6	85.5 85.7	85.6	6.1 6.1	6.1	6.1	9.2 9.3	9.3		13.5 13.9	13.7	
				6.5	Middle	3.3	26.1 26.1	26.1	8.2 8.2	8.2	24.7 24.6	24.6	84.9 84.9	84.9	6.0 6.0	6.0	0.1	9.6 9.5	9.6	9.6	8.7 10.5	9.6	10.6
					Bottom	5.5	26.5 26.1	26.3	8.2 8.2	8.2	24.5 24.8	24.7	82.8 82.3	82.6	5.8 5.8	5.8	5.8	9.8 9.8	9.8		9.2 8.0	8.6	
27-May-16 ***	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
				-	Middle	-		-		-		-		-	-	-		-	-	-	-	-	-
					Bottom	-	-	-		-	-	-		-	-	-	-	-	-		-	-	
30-May-16	Sunny	Moderate	08:06		Surface	1.0	28.3 28.2	28.3	8.3 8.3	8.3	11.7 11.7	11.7	95.9 94.7	95.3	7.0 6.9	7.0	7.0	7.1 7.1	7.1		2.4 2.0	2.2	
				6.7	Middle	3.4	28.2 27.9	28.0	8.3 8.3	8.3	11.7 12.0	11.9	94.7 94.2	94.5	6.8 6.9	6.9	7.0	7.3 7.1	7.2	7.2	2.5 2.8	2.7	2.4
					Bottom	5.7	27.7 28.0	27.8	8.2 8.2	8.2	16.5 15.0	15.7	93.6 92.4	93.0	6.7 6.8	6.8	6.8	7.3 7.4	7.4		2.6 2.1	2.4	

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

Remarks:

* DA: Depth-Averaged

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

Water Quality Monitoring Results at CS4 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	ţ	ъН	Salini	ity (ppt)	DO Satu	ration (%)	Dissolv	ved Oxygen	(mg/L)	۲	Turbidity(NT	U)	Suspe	nded Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
2-May-16	Sunny	Moderate	10:39		Surface	1.0	23.0 22.9	23.0	8.2 8.2	8.2	21.8 20.9	21.4	83.9 82.3	83.1	6.4 6.3	6.3	6.2	4.8 4.7	4.8		6.4 6.2	6.3	
				16.3	Middle	8.2	22.5 22.5	22.5	8.2 8.2	8.2	25.8 25.4	25.6	81.9 81.7	81.8	6.1 6.1	6.1	0.2	5.7 5.5	5.6	5.8	9.0 8.1	8.6	8.1
					Bottom	15.3	22.5 22.5	22.5	8.2 8.2	8.2	25.7 26.2	26.0	82.6 81.7	82.2	6.2 6.1	6.1	6.1	7.0 7.2	7.1		9.6 9.0	9.3	
4-May-16	Sunny	Moderate	12:14		Surface	1.0	24.1 24.3	24.2	8.1 8.2	8.2	19.5 19.4	19.4	82.5 81.2	81.9	6.4 6.3	6.3		2.6 2.6	2.6		2.4 4.3	3.4	
				16.4	Middle	8.2	23.2 23.4	23.3	8.2 8.1	8.1	21.0 19.2	20.1	81.7 82.2	82.0	6.2 6.3	6.2	6.3	2.8 2.8	2.8	2.8	3.3 3.6	3.5	3.7
					Bottom	15.4	23.3 23.5	23.4	8.0 8.1	8.1	23.5 23.4	23.5	81.1 82.2	81.7	6.3 6.1	6.2	6.2	3.1 3.0	3.1		4.2 4.0	4.1	
6-May-16	Sunny	Moderate	13:33		Surface	1.0	25.4 25.6	25.5	8.1 8.1	8.1	18.5 18.4	18.5	82.1 81.5	81.8	6.1 6.1	6.1		3.2 3.1	3.2		4.3 4.6	4.5	
				15.8	Middle	7.9	25.1 24.8	25.0	8.1 8.1	8.1	18.6 19.9	19.3	81.4 80.8	81.1	6.0 6.0	6.0	6.1	3.3 3.4	3.4	3.4	4.3 3.3	3.8	4.1
					Bottom	14.8	24.2 24.3	24.3	8.0 8.1	8.1	22.5 21.0	21.8	79.6 80.8	80.2	5.9 6.0	5.9	5.9	3.6 3.5	3.6		3.8 4.2	4.0	
9-May-16	Sunny	Moderate	13:54		Surface	1.0	25.7 25.7	25.7	8.1 8.1	8.1	17.8 17.9	17.9	78.5 79.6	79.1	5.8 5.9	5.8	5.0	9.9 9.5	9.7		4.8 4.7	4.8	
				16.1	Middle	8.1	25.0 25.0	25.0	8.1 8.1	8.1	21.6 21.6	21.6	78.7 78.7	78.7	5.8 5.8	5.8	5.8	11.8 11.4	11.6	11.6	5.6 4.2	4.9	4.8
					Bottom	15.1	25.1 25.0	25.0	8.1 8.1	8.1	21.7 21.9	21.8	78.8 78.4	78.6	5.8 5.7	5.7	5.7	13.3 13.6	13.5		4.6 4.9	4.8	
11-May-16	Sunny	Moderate	15:28		Surface	1.0	26.3 26.3	26.3	8.1 8.1	8.1	13.6 13.6	13.6	76.0 76.7	76.4	5.7 5.7	5.7	5.7	4.6 4.6	4.6		4.7 3.9	4.3	
				16.2	Middle	8.1	24.8 24.6	24.7	8.0 8.1	8.1	23.2 24.1	23.7	76.7 76.1	76.4	5.6 5.6	5.6	5.7	4.4 4.5	4.5	4.6	3.8 3.6	3.7	4.1
					Bottom	15.2	24.6 24.7	24.7	8.0 7.9	8.0	24.1 23.4	23.7	75.0 72.8	73.9	5.5 5.3	5.4	5.4	4.7 4.5	4.6		4.1 4.3	4.2	
13-May-16	Sunny	Moderate	17:21		Surface	1.0	25.0 25.1	25.0	8.3 8.3	8.3	20.1 20.1	20.1	83.7 83.5	83.6	6.2 6.2	6.2	6.1	4.7 4.7	4.7		3.8 3.7	3.8	
				16.3	Middle	8.2	24.7 24.7	24.7	8.2 8.2	8.2	23.2 24.6	23.9	83.0 83.2	83.1	6.0 6.0	6.0	0.1	5.3 5.1	5.2	5.0	4.2 2.9	3.6	3.9
					Bottom	15.3	24.6 24.8	24.7	8.2 8.2	8.2	24.7 24.6	24.6	82.6 82.8	82.7	6.0 6.0	6.0	6.0	5.1 5.2	5.2		4.6 3.8	4.2	
16-May-16	Sunny	Moderate	10:21		Surface	1.0	25.4 25.4	25.4	8.3 8.3	8.3	14.0 14.1	14.0	86.8 83.1	85.0	6.6 6.3	6.4	6.4	4.6 4.5	4.6		6.1 5.5	5.8	
				16.1	Middle	8.1	25.2 25.0	25.1	8.3 8.2	8.3	15.7 16.0	15.8	86.4 84.2	85.3	6.2 6.4	6.3	0.4	4.7 4.8	4.8	4.8	6.5 5.5	6.0	6.3
					Bottom	15.1	24.8 24.8	24.8	8.1 8.1	8.1	25.8 25.8	25.8	81.4 85.5	83.5	6.2 6.1	6.1	6.1	4.9 4.9	4.9		5.9 8.4	7.2	
18-May-16	Sunny	Moderate	11:29		Surface	1.0	25.0 25.0	25.0	8.5 8.5	8.5	25.8 25.8	25.8	117.9 115.8	116.9	8.4 8.3	8.3	8.3	3.1 3.1	3.1		6.6 6.0	6.3	
				15.7	Middle	7.9	24.9 25.0	24.9	8.5 8.5	8.5	25.9 25.9	25.9	115.2 115.7	115.5	8.2 8.3	8.2	0.0	3.3 3.2	3.3	3.3	6.4 7.4	6.9	6.8
					Bottom	14.7	24.9 24.9	24.9	8.5 8.5	8.5	26.2 26.9	26.5	115.3 113.5	114.4	8.2 8.1	8.2	8.2	3.3 3.4	3.4		6.4 7.7	7.1	
20-May-16	Rainy	Moderate	13:12		Surface	1.0	25.3 25.3	25.3	8.4 8.4	8.4	23.9 23.9	23.9	95.3 95.0	95.2	6.8 6.8	6.8	6.7	6.3 6.2	6.3		3.5 3.0	3.3	
				16.6	Middle	8.3	25.1 25.1	25.1	8.3 8.3	8.3	26.9 26.8	26.9	94.1 92.4	93.3	6.7 6.6	6.6	0.7	7.3 7.9	7.6	7.4	4.3 4.3	4.3	4.0
					Bottom	15.6	25.1 25.2	25.1	8.3 8.3	8.3	26.9 26.8	26.9	93.2 94.9	94.1	6.6 6.7	6.7	6.7	8.5 8.3	8.4		4.1 4.7	4.4	

Remarks:

* DA: Depth-Averaged

Water Quality Monitoring Results at CS4 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampling	3	Tempera	ature (°C)	F	ъН	Salini	ity (ppt)	DO Satu	ration (%)	Dissolv	ved Oxyger	ı (mg/L)	Т	urbidity(NTL	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth (m	ı)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-May-16	Sunny	Moderate	13:02		Surface 1	1.0	26.7 26.8	26.8	8.3 8.3	8.3	17.7 17.4	17.6	87.7 87.8	87.8	6.4 6.4	6.4	6.2	5.8 6.2	6.0		2.6 2.5	2.6	
				16.3	Middle 8	8.2	25.7 25.6	25.7	8.2 8.2	8.2	25.4 25.5	25.4	83.5 83.9	83.7	5.9 5.9	5.9	0.2	11.0 10.5	10.8	9.6	2.0 2.1	2.1	2.6
					Bottom 1	5.3	25.7 25.6	25.7	8.2 8.2	8.2	25.6 25.9	25.7	84.7 84.7	84.7	6.0 6.0	6.0	6.0	12.3 11.6	12.0		2.8 3.4	3.1]
25-May-16	Sunny	Moderate	14:06		Surface 1	1.0	27.5 27.5	27.5	8.3 8.3	8.3	17.6 17.7	17.7	96.7 94.7	95.7	6.9 6.8	6.8	6.8	8.4 8.3	8.4		5.6 6.9	6.3	
				15.5	Middle 7	7.8	27.3 26.9	27.1	8.3 8.3	8.3	18.8 19.1	18.9	93.2 94.8	94.0	6.6 6.7	6.7	0.0	8.5 8.7	8.6	8.6	5.8 6.4	6.1	5.5
					Bottom 1	4.5	26.8 26.5	26.7	8.3 8.2	8.3	21.7 22.8	22.2	90.5 92.7	91.6	6.5 6.6	6.6	6.6	8.7 8.7	8.7		5.1 3.3	4.2	
27-May-16 ***	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
				-	Middle	-	-	-	-	-	-	-		-	-	-		-	-	-	-	-	-
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
30-May-16	Sunny	Moderate	13:00		Surface 1	1.0	28.3 28.3	28.3	8.3 8.3	8.3	11.7 11.5	11.6	95.4 96.4	95.9	7.0 7.0	7.0	7.0	6.6 6.7	6.7		3.3 2.9	3.1	
				15.9	Middle 8	8.0	28.1 28.1	28.1	8.3 8.3	8.3	11.6 12.1	11.8	95.7 94.4	95.1	7.0 6.9	7.0	7.0	6.8 6.7	6.8	6.8	3.4 4.2	3.8	3.2
					Bottom 1	4.9	27.7 28.0	27.8	8.2 8.2	8.2	16.4 13.9	15.2	95.0 95.2	95.1	6.8 6.9	6.9	6.9	6.9 6.9	6.9		3.0 2.2	2.6	

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

Remarks:

* DA: Depth-Averaged

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

Water Quality Monitoring Results at CS4 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	i (mg/L)	٦	Furbidity(NT	J)	Suspe	ended Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
2-May-16	Sunny	Moderate	13:59		Surface	1.0	23.1 23.2	23.1	8.2 8.2	8.2	16.1 17.0	16.6	85.0 85.2	85.1	6.6 6.6	6.6	6.5	3.6 3.2	3.4		3.9 3.8	3.9	
				16.4	Middle	8.2	22.5 22.5	22.5	8.2 8.2	8.2	21.4 20.4	20.9	83.8 83.4	83.6	6.4 6.4	6.4	0.0	4.7 4.9	4.8	4.2	3.7 3.4	3.6	3.5
					Bottom	15.4	22.5 22.5	22.5	8.2 8.2	8.2	20.7 21.8	21.3	85.1 85.3	85.2	6.5 6.5	6.5	6.5	4.3 4.6	4.5		3.1 2.9	3.0	
4-May-16	Sunny	Moderate	16:50		Surface	1.0	24.0 24.0	24.0	8.1 8.1	8.1	19.9 19.9	19.9	86.6 88.6	87.6	6.5 6.7	6.6		3.2 3.1	3.2		3.7 4.0	3.9	
				16.5	Middle	8.3	23.9 23.9	23.9	8.1 8.1	8.1	20.1 20.0	20.1	83.3 84.9	84.1	6.2 6.4	6.3	6.5	3.5 3.4	3.5	3.4	2.9 3.6	3.3	3.6
					Bottom	15.5	23.8 24.0	23.9	8.1 8.1	8.1	21.0 20.2	20.6	82.8 82.4	82.6	6.2 6.2	6.2	6.2	3.6 3.6	3.6		4.2	3.7	
6-May-16	Sunny	Moderate	18:46		Surface	1.0	25.3 25.2	25.3	8.0 8.0	8.0	18.2 17.4	17.8	83.7 83.7	83.7	6.2 6.2	6.2		5.2 5.2	5.2		7.3 7.6	7.5	
				15.9	Middle	8.0	25.0 25.1	25.1	8.0 8.0	8.0	18.7 18.7	18.7	82.1 79.3	80.7	6.1 5.9	6.0	6.1	5.3 5.3	5.3	5.3	7.8	7.8	8.1
					Bottom	14.9	24.8 25.0	24.9	8.0 7.9	8.0	19.4 19.2	19.3	79.5 78.2	78.9	5.9 5.8	5.9	5.9	5.4 5.5	5.5		9.5 8.7	9.1	
9-May-16	Sunny	Moderate	08:35		Surface	1.0	25.3 25.3	25.3	8.1 8.0	8.0	9.2 10.6	9.9	76.4 77.5	77.0	6.0 6.0	6.0	6.0	10.3 10.8	10.6		4.8 4.9	4.9	
				16.3	Middle	8.2	25.0 24.9	25.0	8.0 8.0	8.0	10.1 12.1	11.1	75.9 76.6	76.3	5.9 5.9	5.9	6.0	11.2 11.4	11.3	11.8	5.4 5.0	5.2	5.6
					Bottom	15.3	25.0 25.0	25.0	8.0 8.0	8.0	11.2 12.1	11.6	77.5 76.8	77.2	6.0 5.9	6.0	6.0	13.5 13.7	13.6		6.1 7.2	6.7	
11-May-16	Sunny	Moderate	10:03		Surface	1.0	25.6 25.6	25.6	8.1 8.0	8.0	12.8 13.3	13.0	75.8 75.2	75.5	5.8 5.7	5.7	5.6	7.5 7.5	7.5		4.6 3.8	4.2	
				16.8	Middle	8.4	24.8 24.9	24.8	8.0 8.0	8.0	22.9 22.2	22.6	75.5 74.6	75.1	5.5 5.4	5.4	0.0	7.6 7.7	7.7	7.7	3.8 4.3	4.1	4.2
					Bottom	15.8	24.8 25.2	25.0	7.9 7.9	7.9	22.5 23.1	22.8	74.0 73.8	73.9	5.4 5.4	5.4	5.4	7.8 7.8	7.8		4.1 4.3	4.2	
13-May-16	Sunny	Moderate	12:20		Surface	1.0	25.4 25.3	25.4	8.2 8.2	8.2	17.3 17.6	17.5	79.6 76.8	78.2	5.9 5.7	5.8	5.7	4.4 4.4	4.4		3.7 3.1	3.4	
				17.3	Middle	8.7	24.6 24.6	24.6	8.1 8.1	8.1	24.6 24.3	24.4	78.0 75.7	76.9	5.7 5.5	5.6	0.1	4.6 4.5	4.6	4.5	4.0 4.3	4.2	4.0
					Bottom	16.3	24.6 24.6	24.6	8.1 8.1	8.1	24.6 24.6	24.6	74.5 75.5	75.0	5.4 5.5	5.4	5.4	4.5 4.5	4.5		4.2 4.5	4.4	
16-May-16	Sunny	Moderate	15:37		Surface	1.0	25.9 26.0	26.0	8.4 8.4	8.4	15.4 15.3	15.3	94.2 91.4	92.8	7.0 6.8	6.9	6.8	4.4 4.3	4.4		6.3 5.2	5.8	
				16.3	Middle	8.2	25.9 25.6	25.7	8.4 8.4	8.4	17.5 15.4	16.4	92.2 88.7	90.5	6.6 6.7	6.6		4.5 4.5	4.5	4.5	4.9 4.6	4.8	5.3
					Bottom	15.3	24.8 24.8	24.8	8.2 8.2	8.2	24.1 26.0	25.1	88.7 89.3	89.0	6.5 6.5	6.5	6.5	4.6 4.7	4.7		5.8 4.9	5.4	
18-May-16	Sunny	Moderate	17:13		Surface	1.0	25.4 25.3	25.3	8.5 8.5	8.5	22.5 22.6	22.6	112.6 109.6	111.1	8.1 7.9	8.0	7.9	4.5 4.4	4.5		5.1 5.1	5.1	1
				15.9	Middle	8.0	25.2 24.9	25.0	8.5 8.5	8.5	22.6 26.3	24.5	110.0 105.1	107.6	7.8 7.6	7.7		4.6 4.5	4.6	4.6	5.7 6.2	6.0	5.5
00.14	01	Mad	40.01		Bottom	14.9	24.8 25.1	25.0	8.5 <u>8.5</u>	8.5	28.2 26.9	27.5	101.9 103.1	102.5	7.3 7.3	7.3	7.3	4.8 4.7	4.8		5.1 5.5	5.3	<u> </u>
20-May-16	Cloudy	Moderate	18:04		Surface	1.0	25.4 25.4	25.4	8.3 8.3	8.3	21.3 21.4	21.3	88.2 88.6	88.4	6.4 6.4	6.4	6.4	4.2 4.0	4.1		4.1 3.4	3.8	1
				16.3	Middle	8.2	25.3 25.3	25.3	8.2 8.2	8.2	22.7 22.5	22.6	87.3 86.8	87.1	6.3 6.3	6.3		5.4 5.7	5.6	5.5	4.1	4.1	4.0
					Bottom	15.3	25.3 25.3	25.3	8.2 8.2	8.2	23.3 23.5	23.4	86.6 87.9	87.3	6.2 6.3	6.3	6.3	6.6 6.9	6.8		3.2 4.8	4.0	

* DA: Depth-Averaged

Water Quality Monitoring Results at CS4 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samplin	ng	Tempera	ature (°C)	p	Н	Salinit	ty (ppt)	DO Satu	ration (%)	Dissolv	ved Oxyger	i (mg/L)	Т	urbidity(NTL	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth (n	m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-May-16	Sunny	Moderate	07:58		Surface	1.0	25.8 25.9	25.9	8.3 8.3	8.3	22.3 21.8	22.0	82.3 82.6	82.5	5.9 5.9	5.9	5.9	6.1 5.9	6.0		5.1 5.4	5.3	
				16.6	Middle	8.3	25.5 25.5	25.5	8.3 8.3	8.3	25.4 25.4	25.4	81.6 81.2	81.4	5.8 5.8	5.8	5.9	7.8 8.5	8.2	7.4	5.2 4.5	4.9	5.3
					Bottom	15.6	25.6 25.5	25.5	8.3 8.2	8.3	25.4 25.6	25.5	82.0 81.4	81.7	5.8 5.8	5.8	5.8	8.0 8.2	8.1		5.4 6.2	5.8	
25-May-16	Sunny	Moderate	09:00		Surface	1.0	26.4 26.4	26.4	8.3 8.3	8.3	21.8 21.7	21.8	81.2 81.4	81.3	5.8 5.8	5.8	5.8	10.2 10.2	10.2		9.6 10.3	10.0	
				15.7	Middle	7.9	26.1 26.1	26.1	8.2 8.2	8.2	24.5 24.5	24.5	82.0 81.6	81.8	5.8 5.8	5.8	0.0	10.5 10.4	10.5	10.5	7.8 8.0	7.9	8.7
					Bottom	14.7	26.3 26.2	26.2	8.2 8.2	8.2	24.6 24.6	24.6	81.0 80.6	80.8	5.7 5.7	5.7	5.7	10.8 10.7	10.8		7.4 9.2	8.3	
27-May-16 ***	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	<u>-</u>
					Bottom	-		-		-	-	-		-		-	-	-	-		-	-	
30-May-16	Sunny	Moderate	08:27		Surface	1.0	28.3 28.2	28.2	8.3 8.3	8.3	11.6 11.8	11.7	96.2 94.2	95.2	7.0 6.9	7.0	7.0	6.9 6.8	6.9		4.1 3.7	3.9	
				15.8	Middle	7.9	28.2 27.8	28.0	8.3 8.2	8.2	11.7 11.9	11.8	95.5 93.4	94.5	7.0 6.9	6.9	7.0	7.2 7.0	7.1	7.1	2.0 2.9	2.5	3.4
					Bottom	14.8	27.8 27.9	27.8	8.1 8.1	8.1	16.4 15.2	15.8	94.3 95.4	94.9	6.8 6.9	6.8	6.8	7.2 7.3	7.3		3.6 4.0	3.8	

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

Remarks:

* DA: Depth-Averaged

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

Water Quality Monitoring Results at CS(Mf)5 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Т	urbidity(NT	U)	Suspe	nded Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
2-May-16	Sunny	Moderate	09:37		Surface	1.0	23.0 22.4	22.7	8.4 8.4	8.4	25.3 26.3	25.8	84.7 82.8	83.8	6.3 6.2	6.2	6.2	2.7 2.7	2.7		3.6 3.5	3.6	
				12.4	Middle	6.2	22.1 22.1	22.1	8.3 8.3	8.3	29.7 29.7	29.7	82.6 82.8	82.7	6.1 6.1	6.1	0.2	2.8 2.8	2.8	2.8	3.2 4.0	3.6	3.7
					Bottom	11.4	22.0 22.1	22.1	8.3 8.3	8.3	30.8 30.7	30.8	82.3 82.4	82.4	6.0 6.0	6.0	6.0	2.8 2.9	2.9		5.1 2.9	4.0	
4-May-16	Sunny	Moderate	10:52		Surface	1.0	23.6 23.6	23.6	8.4 8.5	8.5	21.5 20.8	21.1	89.4 88.2	88.8	6.7 6.6	6.7		2.7 2.6	2.7		4.0 3.6	3.8	
				13.6	Middle	6.8	22.8 22.7	22.8	8.3 8.3	8.3	28.3 30.0	29.1	87.0 88.9	88.0	6.4 6.5	6.4	6.6	2.8	2.9	2.8	4.1 4.3	4.2	4.2
					Bottom	12.6	22.8 23.0	22.9	8.3 8.3	8.3	30.0 29.8	29.9	90.3 88.1	89.2	6.5 6.4	6.5	6.5	2.8 2.7	2.8		4.5 4.9	4.7	
6-May-16	Sunny	Moderate	12:26		Surface	1.0	24.5 24.5	24.5	8.4 8.4	8.4	22.4 22.5	22.5	82.7 82.9	82.8	6.0 6.1	6.1		7.7 7.7	7.7		3.5 3.0	3.3	
				12.7	Middle	6.4	24.0 24.0	24.0	8.3 8.3	8.3	25.2 25.2	25.2	82.7 82.6	82.7	6.0 6.0	6.0	6.1	7.6	7.5	7.6	3.1 3.1	3.1	3.6
					Bottom	11.7	24.1 23.9	24.0	8.3 8.3	8.3	25.2 25.5	25.4	82.0 81.8	81.9	6.0 6.0	6.0	6.0	7.5 7.7	7.6		4.3 4.5	4.4	
9-May-16	Sunny	Moderate	14:49		Surface	1.0	25.8 25.5	25.7	8.4 8.4	8.4	19.0 19.6	19.3	81.4 85.5	83.5	6.0 6.2	6.1	6.1	8.6 8.8	8.7		5.0 5.4	5.2	
				12.5	Middle	6.3	24.8 24.9	24.8	8.3 8.3	8.3	22.7 22.2	22.5	80.3 83.2	81.8	5.8 6.1	6.0	6.1	8.6 8.8	8.7	8.8	5.2 4.4	4.8	5.0
					Bottom	11.5	24.5 24.7	24.6	8.3 8.3	8.3	25.6 25.6	25.6	83.1 80.0	81.6	6.1 5.8	5.9	5.9	8.8 8.9	8.9		5.6 4.3	5.0	
11-May-16	Sunny	Moderate	16:01		Surface	1.0	26.3 26.3	26.3	8.4 8.4	8.4	15.4 15.4	15.4	84.5 82.1	83.3	6.2 6.1	6.1	6.0	4.0 4.1	4.1		3.0 3.8	3.4	
				13.1	Middle	6.6	23.8 24.0	23.9	8.2 8.2	8.2	25.0 24.9	24.9	80.0 83.8	81.9	5.8 6.1	5.9	0.0	4.2 4.2	4.2	4.2	3.2 3.6	3.4	3.4
					Bottom	12.1	24.1 23.6	23.8	8.2 8.1	8.2	29.4 29.4	29.4	79.4 82.9	81.2	5.7 6.1	5.9	5.9	4.4 4.3	4.4		3.1 3.8	3.5	
13-May-16	Sunny	Moderate	18:39		Surface	1.0	25.2 25.2	25.2	8.3 8.3	8.3	20.9 20.7	20.8	89.3 89.2	89.3	6.5 6.5	6.5	6.5	2.7 2.5	2.6		5.8 6.4	6.1	
				13.4	Middle	6.7	25.0 25.1	25.0	8.2 8.3	8.2	21.6 20.7	21.2	87.1 87.4	87.3	6.4 6.3	6.4	0.5	2.8 2.8	2.8	2.8	7.5 6.6	7.1	7.0
					Bottom	12.4	24.9 25.1	25.0	8.2 8.3	8.2	23.7 21.1	22.4	85.3 85.9	85.6	6.3 6.2	6.2	6.2	2.9 2.9	2.9		8.2 7.5	7.9	
16-May-16	Sunny	Moderate	09:36		Surface	1.0	25.2 25.3	25.3	8.5 8.5	8.5	17.4 17.4	17.4	89.9 90.3	90.1	6.7 6.7	6.7	6.5	2.8 2.7	2.8		3.8 2.4	3.1	
				12.2	Middle	6.1	24.4 24.4	24.4	8.3 8.3	8.3	30.8 30.4	30.6	87.4 89.0	88.2	6.1 6.2	6.2	0.0	2.7 2.8	2.8	2.8	3.6 2.7	3.2	3.2
					Bottom	11.2	24.2 24.4	24.3	8.2 8.3	8.2	32.9 32.7	32.8	88.9 87.8	88.4	6.2 6.2	6.2	6.2	2.8 2.7	2.8		3.7 3.0	3.4	
18-May-16	Sunny	Moderate	10:44		Surface	1.0	24.7 24.5	24.6	8.5 8.5	8.5	29.3 29.4	29.4	97.7 96.7	97.2	6.8 6.7	6.8	6.8	4.3 4.3	4.3		7.6 7.6	7.6	
				12.5	Middle	6.3	24.5 24.5	24.5	8.4 8.4	8.4	30.3 30.8	30.6	96.4 94.5	95.5	6.8 6.6	6.7		4.3 4.3	4.3	4.3	9.4 9.1	9.3	8.6
					Bottom	11.5	24.5 24.6	24.5	8.4 8.4	8.4	31.9 31.9	31.9	94.4 94.2	94.3	6.6 6.6	6.6	6.6	4.4 4.4	4.4		8.6 9.1	8.9	
20-May-16	Rainy	Moderate	12:06		Surface	1.0	24.9 24.9	24.9	8.4 8.4	8.4	29.2 29.0	29.1	91.5 91.7	91.6	6.4 6.4	6.4	6.4	9.6 9.6	9.6		8.4 8.6	8.5	1
				12.7	Middle	6.4	24.9 24.9	24.9	8.4 8.4	8.4	29.5 29.5	29.5	91.6 91.4	91.5	6.4 6.4	6.4		10.8 10.9	10.9	10.4	8.9 8.8	8.9	8.7
					Bottom	11.7	24.9 24.9	24.9	8.4 8.4	8.4	29.7 30.6	30.2	91.4 91.2	91.3	6.4 6.4	6.4	6.4	10.4 10.8	10.6		8.3 8.9	8.6	

* DA: Depth-Averaged

Water Quality Monitoring Results at CS(Mf)5 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampli	ing	Tempera	ature (°C)	F	н	Salinit	ty (ppt)	DO Satu	ration (%)	Dissolv	ved Oxyger	ı (mg/L)	Т	urbidity(NTL	J)	Suspe	ended Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth ((m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-May-16	Sunny	Moderate	13:56		Surface	1.0	26.4 26.5	26.5	8.4 8.4	8.4	21.8 21.7	21.7	87.4 85.7	86.6	6.1 6.1	6.1	6.1	6.8 6.7	6.8		5.3 5.0	5.2	
				11.9	Middle	6.0	25.6 25.6	25.6	8.3 8.3	8.3	26.0 26.1	26.0	84.5 87.1	85.8	5.9 6.1	6.0	0.1	6.6 6.5	6.6	6.7	5.4 6.2	5.8	5.9
					Bottom	10.9	25.7 25.6	25.6	8.3 8.3	8.3	27.1 27.3	27.2	82.9 84.7	83.8	5.9 6.0	5.9	5.9	6.6 6.6	6.6		6.2 7.2	6.7	
25-May-16	Sunny	Moderate	15:04		Surface	1.0	27.1 27.1	27.1	8.5 8.4	8.5	20.1 20.1	20.1	90.6 88.2	89.4	6.4 6.2	6.3	6.3	4.4 4.6	4.5		7.6 8.3	8.0	
				12.8	Middle	6.4	26.0 26.1	26.0	8.4 8.4	8.4	25.9 25.2	25.6	90.1 87.6	88.9	6.3 6.1	6.2	0.5	4.6 4.7	4.7	4.6	7.6 6.6	7.1	7.3
					Bottom	11.8	26.2 26.1	26.1	8.4 8.4	8.4	27.4 27.1	27.2	84.5 84.8	84.7	5.9 5.9	5.9	5.9	4.7 4.6	4.7		6.6 7.2	6.9	
27-May-16 ***	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
				-	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Bottom	-		-		-		-		-	-	-	-	-	-		-	-	
30-May-16	Sunny	Moderate	13:21		Surface	1.0	27.7 27.9	27.8	8.4 8.4	8.4	17.2 17.8	17.5	87.5 88.0	87.8	6.3 6.3	6.3	6.2	2.4 2.4	2.4		2.1 2.8	2.5	
				12.8	Middle	6.4	27.1 27.0	27.0	8.3 8.3	8.3	23.6 21.7	22.7	86.1 86.7	86.4	6.1 6.0	6.0	0.2	2.4 2.3	2.4	2.4	2.9 3.3	3.1	3.2
					Bottom	11.8	27.0 26.9	27.0	8.3 8.2	8.2	28.5 28.8	28.6	85.4 85.8	85.6	5.9 6.0	5.9	5.9	2.4 2.5	2.5		4.1 3.9	4.0	

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

Remarks:

* DA: Depth-Averaged

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

Water Quality Monitoring Results at CS(Mf)5 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Г	Furbidity(NT	J)	Suspe	nded Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
2-May-16	Sunny	Moderate	14:51		Surface	1.0	22.9 22.7	22.8	8.4 8.4	8.4	24.5 25.0	24.7	86.5 85.8	86.2	6.5 6.4	6.4	6.4	3.1 3.0	3.1		6.4 6.2	6.3	
				12.8	Middle	6.4	22.3 22.4	22.4	8.4 8.4	8.4	27.2 27.2	27.2	85.3 86.3	85.8	6.3 6.3	6.3	6.4	3.2 3.3	3.3	3.2	6.6 7.0	6.8	7.3
					Bottom	11.8	22.1	22.2	8.4 8.4	8.4	30.5 30.4	30.4	85.2 84.8	85.0	6.3 6.2	6.3	6.3	3.3 3.3	3.3		9.0	8.9	
4-May-16	Sunny	Moderate	17:23		Surface	1.0	24.3 24.2	24.2	8.4 8.4	8.4	20.7	20.7	86.7 85.9	86.3	6.5 6.4	6.4		3.4 3.4	3.4		2.2	2.7	
				13.5	Middle	6.8	23.0 23.0	23.0	8.3 8.4	8.3	27.2 26.9	27.0	83.1 82.7	82.9	6.1 6.1	6.1	6.3	4.0	4.1	3.8	3.2 4.3	3.8	3.3
					Bottom	12.5	23.2 23.0	23.1	8.3 8.3	8.3	27.2	27.2	85.3 83.4	84.4	6.2 6.1	6.2	6.2	3.8 4.1	4.0		3.3 3.4	3.4	
6-May-16	Sunny	Moderate	19:01		Surface	1.0	24.5 24.8	24.6	8.4 8.4	8.4	23.2 23.1	23.1	82.8 83.5	83.2	6.1 6.1	6.1		6.6 6.5	6.6		5.6 6.4	6.0	
				12.9	Middle	6.5	23.9 23.9	23.9	8.4 8.3	8.4	25.9 25.9	25.9	81.6 81.2	81.4	5.9 5.9	5.9	6.0	6.7 6.6	6.7	6.7	5.5 4.8	5.2	5.5
					Bottom	11.9	23.6 23.8	23.7	8.3 8.3	8.3	28.0 27.5	27.8	81.8 81.5	81.7	5.9 5.9	5.9	5.9	6.8 6.9	6.9		5.1	5.4	
9-May-16	Sunny	Moderate	07:49		Surface	1.0	24.9 24.5	24.7	8.4 8.4	8.4	22.4 23.6	23.0	81.4 81.2	81.3	5.9 5.9	5.9		8.5 8.3	8.4		5.7 5.8	5.8	
				12.4	Middle	6.2	23.9 23.8	23.9	8.3 8.3	8.3	28.9 29.0	29.0	79.9 79.8	79.9	5.7 5.7	5.7	5.8	8.6 8.8	8.7	8.6	5.6 6.2	5.9	5.9
					Bottom	11.4	24.1 23.8	24.0	8.3 8.3	8.3	28.9 29.2	29.1	79.7 79.6	79.7	5.7 5.7	5.7	5.7	8.7 8.8	8.8		6.7 5.5	6.1	
11-May-16	Sunny	Moderate	08:59		Surface	1.0	25.5 25.5	25.5	8.4 8.3	8.4	16.3 16.4	16.3	80.2 80.4	80.3	6.0 6.0	6.0	5.8	4.1 4.0	4.1		3.8 4.2	4.0	
				13.3	Middle	6.7	23.6 24.3	24.0	8.2 8.2	8.2	29.3 27.8	28.5	77.9 78.6	78.3	5.6 5.6	5.6	5.8	4.2 4.2	4.2	4.2	4.1 4.5	4.3	4.1
					Bottom	12.3	23.6 23.5	23.6	8.1 8.1	8.1	31.7 31.8	31.7	77.6 77.6	77.6	5.5 5.5	5.5	5.5	4.4 4.2	4.3		4.7 3.5	4.1	
13-May-16	Sunny	Moderate	10:45		Surface	1.0	25.0 25.0	25.0	8.3 8.3	8.3	20.7 21.1	20.9	83.7 83.7	83.7	6.0 6.1	6.1	6.1	3.1 3.2	3.2		3.6 3.7	3.7	
				13.5	Middle	6.8	24.8 24.9	24.9	8.2 8.2	8.2	23.3 23.3	23.3	82.1 80.5	81.3	6.0 5.9	6.0	0.1	3.3 3.4	3.4	3.4	4.2 4.3	4.3	4.7
					Bottom	12.5	24.9 25.1	25.0	8.2 8.3	8.2	24.9 23.6	24.3	80.8 79.9	80.4	5.8 5.8	5.8	5.8	3.5 3.6	3.6		5.7 6.4	6.1	
16-May-16	Sunny	Moderate	15:53		Surface	1.0	26.0 26.0	26.0	8.6 8.6	8.6	17.1 17.1	17.1	95.6 98.9	97.3	6.8 7.3	7.1	6.9	3.1 3.3	3.2		5.3 5.4	5.4	
				12.8	Middle	6.4	24.2 24.5	24.3	8.4 8.4	8.4	30.6 30.0	30.3	92.6 93.8	93.2	6.7 6.6	6.6	0.3	3.3 3.1	3.2	3.2	4.4 5.4	4.9	5.7
					Bottom	11.8	24.2 24.2	24.2	8.4 8.4	8.4	30.9 31.6	31.3	89.5 89.2	89.4	6.3 6.3	6.3	6.3	3.3 3.3	3.3		5.9 7.4	6.7	
18-May-16	Sunny	Moderate	17:08		Surface	1.0	24.8 24.8	24.8	8.5 8.5	8.5	28.5 28.5	28.5	99.8 96.0	97.9	7.0 6.8	6.9	6.8	4.7 4.7	4.7		5.9 6.5	6.2	
				13.3	Middle	6.7	24.5 24.5	24.5	8.5 8.5	8.5	29.7 29.8	29.8	93.9 98.1	96.0	6.6 6.9	6.7	0.0	4.8 4.7	4.8	4.8	6.0 6.0	6.0	6.2
					Bottom	12.3	24.5 24.6	24.5	8.5 8.5	8.5	30.6 30.6	30.6	91.0 94.3	92.7	6.4 6.6	6.5	6.5	5.0 4.9	5.0		5.8 6.9	6.4	
20-May-16	Cloudy	Moderate	19:04		Surface	1.0	25.2 25.2	25.2	8.5 8.5	8.5	26.3 26.4	26.3	94.7 95.2	95.0	6.7 6.8	6.7	6.7	4.5 4.8	4.7		3.6 3.7	3.7	
				12.7	Middle	6.4	25.1 25.0	25.0	8.4 8.4	8.4	28.1 28.6	28.4	94.0 94.3	94.2	6.6 6.6	6.6		4.8 4.8	4.8	4.8	4.3 4.1	4.2	4.1
					Bottom	11.7	25.0 25.0	25.0	8.4 8.4	8.4	30.2 30.2	30.2	93.4 93.1	93.3	6.6 6.5	6.5	6.5	4.8 4.7	4.8		4.0 4.7	4.4	

* DA: Depth-Averaged

Water Quality Monitoring Results at CS(Mf)5 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Sampli	ing	Tempera	ature (°C)	p	Н	Salinit	ty (ppt)	DO Satu	ration (%)	Dissolv	ved Oxygen	(mg/L)	Т	urbidity(NTL	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth ((m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-May-16	Sunny	Moderate	06:58		Surface	1.0	25.3 25.3	25.3	8.4 8.4	8.4	28.4 27.7	28.1	82.2 82.0	82.1	5.8 5.8	5.8	5.8	5.3 5.2	5.3		5.3 4.9	5.1	
				12.8	Middle	6.4	25.2 25.2	25.2	8.3 8.3	8.3	30.6 30.6	30.6	81.9 81.4	81.7	5.7 5.6	5.7	5.6	5.5 5.5	5.5	5.5	3.6 3.0	3.3	4.0
					Bottom	11.8	25.2 25.2	25.2	8.3 8.3	8.3	30.6 30.7	30.6	81.7 81.4	81.6	5.7 5.6	5.6	5.6	5.5 5.6	5.6		3.7 3.5	3.6	
25-May-16	Sunny	Moderate	07:41		Surface	1.0	26.2 26.0	26.1	8.4 8.4	8.4	24.0 24.5	24.2	83.0 82.6	82.8	5.9 5.8	5.9	5.8	3.0 3.0	3.0		4.0 4.4	4.2	
				13.0	Middle	6.5	25.6 25.6	25.6	8.3 8.3	8.3	30.3 30.3	30.3	82.2 82.1	82.2	5.7 5.6	5.6	5.0	3.0 3.1	3.1	3.1	4.4 4.2	4.3	4.9
					Bottom	12.0	25.7 25.6	25.7	8.3 8.3	8.3	30.3 30.4	30.4	81.7 81.6	81.7	5.6 5.6	5.6	5.6	3.3 3.2	3.3		5.2 6.9	6.1	
27-May-16 ***	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	-	-	-		-	-	-	-	-		-	-	-	-	-	-	-	<u>-</u>
					Bottom	-		-		-		-		-		-	-	-	-		-	-	
30-May-16	Sunny	Moderate	07:46		Surface	1.0	27.4 27.6	27.5	8.3 8.3	8.3	16.4 16.3	16.4	85.7 85.7	85.7	6.2 6.2	6.2	6.1	2.2 2.4	2.3		4.0 3.9	4.0	
				12.1	Middle	6.1	26.9 26.9	26.9	8.2 8.2	8.2	22.9 23.8	23.4	83.1 84.4	83.8	5.8 5.9	5.9	0.1	2.5 2.6	2.6	2.5	3.5 3.7	3.6	3.5
					Bottom	11.1	26.5 26.9	26.7	8.0 8.1	8.1	29.8 29.5	29.7	82.6 85.3	84.0	5.6 5.8	5.7	5.7	2.5 2.5	2.5		3.0 3.0	3.0	

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

Remarks:

* DA: Depth-Averaged

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

Water Quality Monitoring Results at CS6 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampl	ling	Tempera	ature (°C)	F	ъН	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	/ed Oxyger	(mg/L)	1	Turbidity(NT	J)	Suspe	ended Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
2-May-16	Sunny	Moderate	08:55		Surface	1.0	22.6 22.6	22.6	8.2 8.2	8.2	26.2 26.4	26.3	86.6 85.0	85.8	6.4 6.3	6.4	6.3	1.4 1.5	1.5		4.8 4.5	4.7	
				10.2	Middle	5.1	22.1 22.2	22.2	8.1 8.1	8.1	30.1 30.0	30.0	83.3 83.7	83.5	6.1 6.1	6.1	0.5	1.5 1.3	1.4	1.7	5.0 4.4	4.7	4.8
					Bottom	9.2	22.2 22.3	22.2	8.1 8.1	8.1	30.2 30.1	30.2	85.6 85.5	85.6	6.3 6.3	6.3	6.3	2.0 2.2	2.1		5.2 4.7	5.0	
4-May-16	Sunny	Moderate	09:50		Surface	1.0	23.5 23.5	23.5	8.1 8.2	8.2	21.1 21.4	21.3	88.2 88.2	88.2	6.6 6.6	6.6		2.2 2.1	2.2		2.5 2.3	2.4	
				11.3	Middle	5.7	23.0 23.1	23.0	8.1 8.1	8.1	24.3 23.9	24.1	87.6 87.7	87.7	6.5 6.5	6.5	6.6	2.3 2.3	2.3	2.3	2.3	2.2	2.6
					Bottom	10.3	22.9 23.5	23.2	8.0 8.1	8.1	28.9 28.2	28.6	87.2 87.7	87.5	6.3 6.3	6.3	6.3	2.4 2.5	2.5		3.2 3.2	3.2	
6-May-16	Sunny	Moderate	11:05		Surface	1.0	24.4 24.4	24.4	8.1 8.1	8.1	22.9 22.6	22.8	82.9 81.9	82.4	6.1 6.0	6.1		1.5 1.5	1.5		5.4 5.2	5.3	
				10.6	Middle	5.3	24.1 24.2	24.1	8.1 8.1	8.1	24.3 24.3	24.3	81.2 82.9	82.1	5.9 6.1	6.0	6.1	1.7 1.6	1.7	1.7	5.3 4.6	5.0	4.6
					Bottom	9.6	24.0 23.9	23.9	8.0 8.1	8.1	25.0 25.6	25.3	81.6 80.8	81.2	6.0 5.9	6.0	6.0	1.9 1.9	1.9		3.2 3.5	3.4	
9-May-16	Sunny	Moderate	15:33		Surface	1.0	25.8 25.1	25.5	8.0 8.1	8.0	18.4 16.2	17.3	82.7 78.8	80.8	6.1 5.9	6.0	5.9	5.5 5.7	5.6		4.6 5.2	4.9	
				10.1	Middle	5.1	24.4 24.4	24.4	8.0 8.0	8.0	25.5 23.2	24.4	80.0 78.9	79.5	5.8 5.8	5.8	5.9	6.4 5.9	6.2	5.9	5.0 4.2	4.6	4.6
					Bottom	9.1	24.3 24.7	24.5	8.0 8.0	8.0	26.2 24.4	25.3	81.2 80.6	80.9	5.9 5.8	5.8	5.8	5.7 6.0	5.9		4.5 4.1	4.3	
11-May-16	Sunny	Moderate	17:07		Surface	1.0	25.7 25.1	25.4	8.1 8.2	8.1	14.1 14.2	14.1	78.0 75.2	76.6	5.8 5.8	5.8	5.7	3.4 3.5	3.5		4.2 4.6	4.4	
				10.0	Middle	5.0	24.3 24.3	24.3	8.1 8.1	8.1	17.0 17.4	17.2	75.4 77.8	76.6	5.6 5.6	5.6	5.7	3.6 3.6	3.6	3.6	4.9 4.1	4.5	4.2
					Bottom	9.0	24.0 24.0	24.0	8.1 8.0	8.1	17.9 19.6	18.8	75.8 80.5	78.2	5.6 5.8	5.7	5.7	3.6 3.5	3.6		3.8 3.8	3.8	
13-May-16	Sunny	Moderate	19:12		Surface	1.0	25.3 25.3	25.3	8.3 8.3	8.3	20.1 20.0	20.1	87.6 86.8	87.2	6.4 6.4	6.4	6.3	2.5 2.6	2.6		4.2 3.5	3.9	
				9.9	Middle	5.0	25.1 25.1	25.1	8.3 8.3	8.3	21.6 21.0	21.3	82.0 84.8	83.4	6.0 6.2	6.1	0.0	2.7 2.6	2.7	2.7	4.1 3.3	3.7	3.8
					Bottom	8.9	24.5 24.5	24.5	8.2 8.3	8.3	24.7 24.7	24.7	80.3 81.2	80.8	5.8 5.9	5.9	5.9	2.7 2.6	2.7		4.4 3.2	3.8	
16-May-16	Sunny	Moderate	08:41		Surface	1.0	25.3 25.3	25.3	8.4 8.4	8.4	19.3 20.5	19.9	94.7 94.9	94.8	7.0 7.0	7.0	6.9	2.1 2.1	2.1		7.6 7.5	7.6	
				10.7	Middle	5.4	25.1 25.0	25.1	8.3 8.3	8.3	22.1 22.5	22.3	93.5 94.2	93.9	6.8 6.9	6.8	0.0	2.2 2.1	2.2	2.2	7.7 7.2	7.5	7.4
					Bottom	9.7	24.9 24.9	24.9	8.3 8.3	8.3	25.9 27.0	26.4	93.8 94.1	94.0	6.7 6.7	6.7	6.7	2.3 2.3	2.3		6.4 7.5	7.0	
18-May-16	Sunny	Moderate	09:49		Surface	1.0	24.9 24.9	24.9	8.5 8.5	8.5	28.2 28.2	28.2	118.9 119.0	119.0	8.4 8.4	8.4	8.4	2.1 2.2	2.2		5.7 5.3	5.5	
				10.6	Middle	5.3	24.7 24.8	24.8	8.4 8.4	8.4	28.5 28.3	28.4	117.3 117.3	117.3	8.3 8.3	8.3	-	2.2 2.2	2.2	2.2	6.7 6.8	6.8	6.2
					Bottom	9.6	24.7 24.7	24.7	8.4 8.4	8.4	28.7 28.8	28.7	116.7 116.6	116.7	8.2 8.2	8.2	8.2	2.3 2.3	2.3		7.1 5.7	6.4	
20-May-16	Rainy	Moderate	11:27		Surface	1.0	25.1 25.2	25.2	8.4 8.4	8.4	25.6 25.5	25.6	98.9 99.3	99.1	7.1 7.1	7.1	7.1	4.1 4.2	4.2		6.0 6.3	6.2	_
				10.1	Middle	5.1	25.0 25.0	25.0	8.4 8.4	8.4	27.7 27.9	27.8	98.5 98.5	98.5	7.0 7.0	7.0		4.1 4.1	4.1	4.1	6.4 6.6	6.5	6.2
					Bottom	9.1	25.0 25.0	25.0	8.4 8.4	8.4	27.9 28.0	27.9	98.8 98.7	98.8	7.0 7.0	7.0	7.0	4.2 4.0	4.1		6.3 5.5	5.9	

* DA: Depth-Averaged

Water Quality Monitoring Results at CS6 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampling	g	Tempera	ature (°C)	F	ъН	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ved Oxyger	ı (mg/L)	Т	urbidity(NTL	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth (m	ı)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-May-16	Sunny	Moderate	14:38		Surface 1	1.0	26.0 26.1	26.1	8.3 8.3	8.3	22.9 22.8	22.8	86.2 88.4	87.3	6.1 6.3	6.2	6.1	6.2 5.9	6.1		3.0 2.4	2.7	
				10.1	Middle 5	5.1	25.4 25.4	25.4	8.3 8.3	8.3	27.5 27.6	27.6	83.9 86.1	85.0	5.9 6.0	6.0	0.1	7.7 7.3	7.5	7.1	2.8 4.3	3.6	3.7
					Bottom	9.1	25.4 25.4	25.4	8.2 8.3	8.3	28.1 28.1	28.1	84.0 87.5	85.8	5.9 6.1	6.0	6.0	7.4 7.8	7.6		4.1 5.5	4.8	
25-May-16	Sunny	Moderate	15:34		Surface 1	1.0	26.5 27.2	26.9	8.4 8.4	8.4	23.6 20.2	21.9	83.7 83.4	83.6	5.9 5.9	5.9	5.9	9.4 9.2	9.3		6.9 7.4	7.2	
				10.8	Middle 5	5.4	26.0 26.0	26.0	8.3 8.3	8.3	25.9 25.0	25.5	83.4 83.4	83.4	5.9 5.9	5.9	0.0	9.7 9.6	9.7	9.6	6.8 8.1	7.5	7.5
					Bottom	9.8	25.9 25.9	25.9	8.3 8.3	8.3	27.2 26.9	27.1	82.0 81.3	81.7	5.7 5.7	5.7	5.7	9.8 9.9	9.9		7.8 7.9	7.9	
27-May-16 ***	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
				-	Middle	-	-	-	-	-		-		-	-	-		-	-	-	-	-	-
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
30-May-16	Sunny	Moderate	14:31		Surface 1	1.0	28.1 28.0	28.1	8.3 8.3	8.3	14.7 15.2	14.9	97.9 98.3	98.1	7.1 7.1	7.1	7.1	6.5 6.5	6.5		2.8 3.7	3.3	
				11.0	Middle 5	5.5	28.1 27.8	27.9	8.3 8.3	8.3	14.9 16.1	15.5	97.5 95.6	96.6	7.0 6.9	7.0	7.1	6.6 6.6	6.6	6.6	3.7 2.5	3.1	3.1
					Bottom 1	10.0	27.5 27.8	27.6	8.2 8.3	8.2	18.2 16.4	17.3	96.2 96.7	96.5	6.9 6.9	6.9	6.9	6.7 6.7	6.7		2.9 2.8	2.9	

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

Remarks:

* DA: Depth-Averaged

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

Water Quality Monitoring Results at CS6 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	T	Furbidity(NT	U)	Suspe	nded Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
2-May-16	Sunny	Moderate	15:34		Surface	1.0	22.6 22.8	22.7	8.2 8.2	8.2	23.3 24.0	23.6	83.9 83.2	83.6	6.3 6.5	6.4		2.2 2.2	2.2		5.1 5.3	5.2	
				10.1	Middle	5.1	22.3 22.3	22.3	8.1 8.2	8.2	28.0 28.7	28.4	83.1 82.4	82.8	6.1 6.4	6.2	6.3	2.4	2.4	2.2	4.8	4.6	5.0
					Bottom	9.1	22.3 22.3	22.3	8.2 8.1	8.1	28.5	28.7	84.5 89.4	87.0	6.5 6.6	6.5	6.5	2.2	2.1		5.1 5.2	5.2	
4-May-16	Sunny	Moderate	18:21		Surface	1.0	23.9 23.9	23.9	8.2 8.1	8.2	19.1 21.7	20.4	88.6 87.1	87.9	6.7 6.6	6.7		2.3 2.4	2.4		3.0 2.3	2.7	
				11.5	Middle	5.8	23.8 23.9	23.8	8.1 8.2	8.1	22.0	20.6	87.7 87.3	87.5	6.5 6.7	6.6	6.7	2.6 2.5	2.6	2.6	4.8	4.6	3.8
					Bottom	10.5	23.8 23.9	23.9	8.1 8.2	8.1	22.6	21.8	87.3 87.2	87.3	6.5 6.5	6.5	6.5	2.8 2.7	2.8		3.7 4.7	4.2	
6-May-16	Sunny	Moderate	20:24		Surface	1.0	24.9 24.9	24.9	8.1 8.1	8.1	20.9	20.9	84.5 84.2	84.4	6.2 6.2	6.2		2.5 2.4	2.5		5.9 4.6	5.3	<u>+</u>
				10.7	Middle	5.4	24.9 24.4 24.7	24.5	8.1 8.1	8.1	20.9 22.9 21.9	22.4	83.3 84.1	83.7	6.1 6.2	6.2	6.2	2.7	2.7	2.7	4.4	5.3	6.0
					Bottom	9.7	24.1 24.5	24.3	8.0 8.1	8.1	24.4 23.2	23.8	82.9 83.0	83.0	6.1 6.1	6.1	6.1	2.8 2.8	2.8		7.2	7.5	
9-May-16	Sunny	Moderate	06:58		Surface	1.0	24.4 24.4	24.4	8.1 8.1	8.1	25.1 25.2	25.2	80.1 79.3	79.7	5.8 5.7	5.8		1.5 1.6	1.6		5.1 4.5	4.8	
				10.2	Middle	5.1	24.1 24.1	24.1	8.1 8.1	8.1	26.8 27.0	26.9	79.5	79.4	5.7 5.7	5.7	5.8	1.9	1.9	1.8	5.0 4.4	4.7	4.9
					Bottom	9.2	24.1 24.1	24.1	8.0 8.0	8.0	27.4	27.4	79.0	79.2	5.7 5.7	5.7	5.7	1.8	1.8		4.8	5.3	
11-May-16	Sunny	Moderate	08:31		Surface	1.0	25.4 25.4	25.4	8.0 8.0	8.0	14.6 15.3	14.9	76.2 75.9	76.1	5.8 5.7	5.7		1.7	1.7		3.8 3.2	3.5	
				10.4	Middle	5.2	24.9 24.8	24.8	8.0 8.1	8.1	21.0 20.7	20.8	76.7 76.0	76.4	5.6 5.6	5.6	5.7	1.8	1.8	1.8	4.1 3.4	3.8	3.6
					Bottom	9.4	23.9 23.9	23.9	8.0 8.0	8.0	28.9 28.7	28.8	75.2 74.9	75.1	5.4 5.4	5.4	5.4	1.8 1.8	1.8		3.4 3.4	3.4	
13-May-16	Sunny	Moderate	10:27		Surface	1.0	25.3 25.1	25.2	8.0 8.0	8.0	17.9 18.1	18.0	84.5 79.2	81.9	6.3 5.9	6.1	5.0	2.3 2.3	2.3		4.6 4.7	4.7	1
				10.6	Middle	5.3	24.7 24.8	24.8	8.0 8.0	8.0	22.1 21.8	22.0	79.1 78.7	78.9	5.7 5.7	5.7	5.9	2.3 2.3	2.3	2.3	4.8 4.6	4.7	4.7
					Bottom	9.6	24.3 24.2	24.3	7.9 7.9	7.9	27.9 28.1	28.0	78.4 78.5	78.5	5.6 5.7	5.6	5.6	2.4 2.3	2.4		4.9 4.3	4.6	
16-May-16	Sunny	Moderate	17:07		Surface	1.0	25.5 25.5	25.5	8.5 8.5	8.5	20.1 19.4	19.7	108.4 109.0	108.7	7.9 8.0	7.9	7.0	2.3 2.3	2.3		4.1 4.6	4.4	
				10.7	Middle	5.4	25.4 25.4	25.4	8.5 8.4	8.4	21.4 21.2	21.3	107.7 108.3	108.0	7.9 7.9	7.9	7.9	2.3 2.4	2.4	2.4	3.8 3.1	3.5	4.1
					Bottom	9.7	25.4 25.5	25.5	8.5 8.4	8.5	21.5 21.2	21.3	105.4 106.6	106.0	7.7 7.8	7.7	7.7	2.4 2.4	2.4		4.6 4.0	4.3	
18-May-16	Sunny	Moderate	18:46		Surface	1.0	24.9 24.9	24.9	8.5 8.5	8.5	28.5 28.5	28.5	113.0 112.8	112.9	8.0 7.9	7.9	7.9	3.2 3.1	3.2		5.0 4.9	5.0	
				10.8	Middle	5.4	24.9 24.8	24.8	8.5 8.5	8.5	28.7 28.8	28.7	108.5 111.9	110.2	7.6 7.9	7.8	1.3	3.2 3.2	3.2	3.2	6.9 7.4	7.2	6.8
					Bottom	9.8	24.8 24.7	24.7	8.5 8.5	8.5	29.0 29.3	29.1	107.3 108.5	107.9	7.6 7.6	7.6	7.6	3.3 3.3	3.3		7.9 8.5	8.2	
20-May-16	Cloudy	Moderate	19:50		Surface	1.0	25.2 25.2	25.2	8.4 8.4	8.4	26.5 26.6	26.5	94.2 95.1	94.7	6.7 6.7	6.7	6.6	3.8 3.7	3.8		3.4 3.5	3.5	
				10.2	Middle	5.1	24.9 25.0	25.0	8.3 8.3	8.3	29.2 28.7	29.0	92.7 93.1	92.9	6.5 6.5	6.5	0.0	4.3 4.1	4.2	4.0	4.1 3.7	3.9	3.6
					Bottom	9.2	25.0 24.9	24.9	8.3 8.3	8.3	28.9 29.2	29.1	93.6 93.3	93.5	6.6 6.5	6.6	6.6	4.0 4.1	4.1		2.9 3.9	3.4	

* DA: Depth-Averaged

Water Quality Monitoring Results at CS6 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samplir	ng	Tempera	ature (°C)	p	Н	Salinit	y (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	(mg/L)	Т	urbidity(NTL	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth (I	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-May-16	Sunny	Moderate	06:20		Surface	1.0	25.2 25.2	25.2	8.3 8.3	8.3	29.7 29.7	29.7	84.8 85.0	84.9	5.9 5.9	5.9	5.9	5.3 5.7	5.5		7.2 7.7	7.5	
				9.9	Middle	5.0	25.2 25.2	25.2	8.3 8.3	8.3	29.9 29.9	29.9	84.5 84.8	84.7	5.9 5.9	5.9	5.9	5.7 5.9	5.8	5.6	7.9 7.2	7.6	7.2
					Bottom	8.9	25.2 25.2	25.2	8.3 8.3	8.3	29.9 29.9	29.9	84.6 85.1	84.9	5.9 5.9	5.9	5.9	5.7 5.5	5.6		6.2 6.6	6.4	
25-May-16	Sunny	Moderate	07:29		Surface	1.0	26.0 26.0	26.0	8.3 8.3	8.3	25.2 26.2	25.7	84.7 85.0	84.9	6.0 5.9	6.0	6.0	7.4 7.4	7.4		8.0 6.1	7.1	
				11.0	Middle	5.5	25.8 25.8	25.8	8.3 8.3	8.3	27.4 27.3	27.3	84.0 84.2	84.1	5.9 5.9	5.9	0.0	7.8 7.9	7.9	7.7	3.1 4.8	4.0	5.1
					Bottom	10.0	25.7 25.7	25.7	8.2 8.2	8.2	30.2 30.2	30.2	84.6 84.7	84.7	5.8 5.8	5.8	5.8	7.9 7.9	7.9		5.0 3.1	4.1	
27-May-16 ***	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	-		-		-		-		-	-	-	-	-	-	-	-	-	-
					Bottom	-		-		-	-	-		-	-	-	-	-	-		-	-	
30-May-16	Sunny	Moderate	06:43		Surface	1.0	27.8 27.6	27.7	8.4 8.4	8.4	12.8 15.2	14.0	91.9 92.0	92.0	6.7 6.5	6.6	6.6	6.2 6.2	6.2		3.1 3.3	3.2	
				10.9	Middle	5.5	27.4 27.5	27.4	8.3 8.3	8.3	19.1 15.7	17.4	91.0 90.9	91.0	6.6 6.6	6.6	0.0	6.3 6.2	6.3	6.3	2.2 2.2	2.2	2.8
					Bottom	9.9	27.5 27.5	27.5	8.3 8.3	8.3	19.2 19.4	19.3	91.1 90.8	91.0	6.5 6.5	6.5	6.5	6.4 6.4	6.4		2.7 3.0	2.9	

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

Remarks:

* DA: Depth-Averaged

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

Water Quality Monitoring Results at CSA - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampling		Temperature (°C		p	н	Salini	ty (ppt)	DO Satu	iration (%)	Dissol	ved Oxygen	(mg/L)	Turbidity(NTU)			Suspended Solids (mg/		
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
2-May-16 Sunny	Sunny	Moderate	08:41		Surface	1.0	22.6 22.4	22.5	8.1 8.1	8.1	24.7 25.4	25.1	85.1 85.3	85.2	6.4 6.4	6.4	6.3	1.3 1.3	1.3		3.3 2.7	3.0	
				35.2	Middle	17.6	22.2 22.2	22.2	8.1 8.0	8.1	30.3 30.3	30.3	84.7 85.1	84.9	6.2 6.2	6.2	0.3	1.5 1.6	1.6	1.5	2.6 3.2	2.9	3.2
					Bottom	34.2	22.2 22.1	22.2	8.1 8.0	8.1	30.2 30.5	30.3	86.1 85.8	86.0	6.3 6.3	6.3	6.3	1.5 1.5	1.5		3.2 4.1	3.7	
4-May-16	Sunny	Moderate	09:35		Surface	1.0	22.9 23.0	22.9	8.0 8.1	8.1	28.7 23.9	26.3	83.3 84.1	83.7	6.1 6.3	6.2		1.5 1.6	1.6		3.6 3.6	3.6	
				35.4	Middle	17.7	23.1 22.8	23.0	8.1 8.0	8.0	29.0 29.3	29.2	83.3 85.5	84.4	6.2 6.2	6.2	6.2	1.7	1.7	1.7	2.9 2.9	2.9	3.1
					Bottom	34.4	22.9 22.7	22.8	8.1 7.9	8.0	24.5 29.8	27.1	83.9 86.7	85.3	6.1 6.3	6.2	6.2	1.8	1.9		3.2	2.9	
6-May-16	Sunny	Moderate	10:53		Surface	1.0	24.7 24.7	24.7	8.1 8.1	8.1	21.2 21.2	21.2	83.8 83.1	83.5	6.2 6.1	6.1		1.1 1.2	1.2		3.2 3.8	3.5	
				34.8	Middle	17.4	24.1 24.2	24.2	8.1 8.1	8.1	24.3 23.3	23.8	81.3 81.6	81.5	6.0 6.0	6.0	6.1	1.2	1.3	1.3	4.6	4.4	4.5
					Bottom	33.8	23.9 24.0	24.0	8.1 8.1	8.1	25.5 25.1	25.3	81.9 81.0	81.5	6.0 5.9	5.9	5.9	1.3 1.3	1.3		5.0 6.3	5.7	
9-May-16	Sunny	Moderate	15:46		Surface	1.0	25.4 25.6	25.5	8.1 8.1	8.1	12.3 10.7	11.5	80.0 80.6	80.3	6.1 6.2	6.2		6.7 6.5	6.6		5.1 5.1	5.1	
				34.7	Middle	17.4	24.3 24.3	24.3	8.1 8.1	8.1	19.4 17.0	18.2	77.9 78.3	78.1	5.8 6.0	5.9	6.1	5.9 6.2	6.1	6.3	4.3 4.8	4.6	4.8
					Bottom	33.7	24.4 24.3	24.3	8.1 8.1	8.1	18.0 19.7	18.8	78.6 77.6	78.1	5.9 5.8	5.9	5.9	6.5 6.0	6.3		4.1 5.5	4.8	
11-May-16	Sunny	Moderate	17:16		Surface	1.0	25.5 25.8	25.6	8.2 8.1	8.2	16.1 16.3	16.2	75.8 76.1	76.0	6.0 5.9	5.9	5.0	3.5 3.4	3.5		3.9 3.8	3.9	
				33.9	Middle		23.9 23.9	23.9	8.2 8.2	8.2	19.7 19.7	19.7	74.6 74.4	74.5	5.8 5.7	5.7	5.8	3.5 3.4	3.5	3.5	4.3 5.1	4.7	4.6
					Bottom	32.9	23.5 23.6	23.6	8.2 8.1	8.2	23.7 23.6	23.6	74.6 74.2	74.4	5.8 5.6	5.7	5.7	3.5 3.3	3.4		5.4 5.2	5.3	
13-May-16	Sunny	Moderate	19:21	32.8	Surface	1.0	25.3 25.3	25.3	8.3 8.3	8.3	20.0 20.0	20.0	86.7 85.6	86.2	6.4 6.3	6.3	6.1	2.5 2.8	2.7		3.2 3.6	3.4	
					Middle 16.4	24.6 24.4		24.7	80.6 82.9	81.8	5.8 5.9	5.8		2.8 2.8	2.8	2.8	3.6 4.7	4.2	4.0				
					Bottom	31.8	24.0 24.3	24.1	8.2 8.2	8.2	28.6 29.3	29.0	78.2 79.7	79.0	5.7 5.8	5.7	5.7	2.8 2.7	2.8	1	4.3 4.2	4.3	
16-May-16	Sunny	Moderate	08:30		Surface	1.0	25.3 25.3	25.3	8.4 8.4	8.4	18.7 20.7	19.7	96.8 96.3	96.6	6.9 7.1	7.0	7.0	2.2 2.1	2.2	2.3	5.5 4.8	5.2	
				35.3	Middle	17.7	25.1 25.2	25.1	8.3 8.3	8.3	22.2 22.4	22.3	95.6 95.1	95.4	6.9 7.0	6.9	7.0	2.3 2.3	2.3		5.7 6.0	5.9	5.7
					Bottom	34.3	24.8 24.8	24.8	8.2 8.2	8.2	26.9 27.0	27.0	94.4 94.2	94.3	6.7 6.9	6.8	6.8	2.4 2.4	2.4		6.3 5.8	6.1	
18-May-16	Sunny	Moderate	09:35		Surface	1.0	25.0 24.9	25.0	8.4 8.4	8.4	28.0 28.2	28.1	122.7 121.8	122.3	8.7 8.6	8.6	8.6	2.2 2.2	2.2		5.8 5.5	5.7	
				34.8	Middle	17.4	24.7 24.9	24.8	8.4 8.4	8.4	28.5 28.1	28.3	120.5 119.8	120.2	8.5 8.5	8.5	0.0	2.3 2.2	2.3	2.3	5.6 6.0	5.8	5.8
					Bottom	33.8	24.7 24.8	24.8	8.4 8.4	8.4	28.7 28.5	28.6	119.9 119.5	119.7	8.5 8.4	8.5	8.5	2.4 2.3	2.4		6.2 5.7	6.0	
20-May-16	Rainy	Moderate	11:14		Surface	1.0	25.2 25.2	25.2	8.4 8.4	8.4	26.1 26.1	26.1	98.4 99.7	99.1	7.0 7.1	7.0	6.9	4.9 4.5	4.7		5.4 6.2	5.8	
				34.7	Middle	17.4	25.0 24.9	25.0	8.4 8.3	8.4	28.5 28.8	28.7	97.6 95.0	96.3	6.9 6.7	6.8	0.9	4.8 5.0	4.9	4.8	6.2 6.4	6.3	6.2
					Bottom	33.7	25.0 24.9	24.9	8.4 8.3	8.3	28.5 29.5	29.0	98.2 95.1	96.7	6.9 6.7	6.8	6.8	4.7 4.7	4.7		6.7 6.4	6.6	

Remarks:

* DA: Depth-Averaged

Water Quality Monitoring Results at CSA - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampling	Sampling		ature (°C)	pН		Salinity (ppt)		DO Satu	DO Saturation (%)		/ed Oxygen	(mg/L)	Т	urbidity(NT	J)	Suspended Solids (mg/L		
	Condition	Condition**	Time	Depth (m)	Depth (m	n)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-May-16	Sunny	Moderate	14:51		Surface	1.0	26.0 26.0	26.0	8.3 8.3	8.3	23.0 23.0	23.0	86.3 87.1	86.7	6.2 6.2	6.2	6.1	6.2 5.8	6.0		3.9 4.2	4.1	
				34.8	Middle 1	17.4	25.4 25.4	25.4	8.3 8.3	8.3	27.8 27.8	27.8	84.4 83.7	84.1	5.9 5.9	5.9	0.1	7.2 7.3	7.3	6.6	3.9 3.9	3.9	3.7
					Bottom 3	33.8	25.5 25.3	25.4	8.2 8.3	8.3	28.4 28.9	28.6	85.3 84.1	84.7	5.9 5.9	5.9	5.9	6.6 6.5	6.6		3.0 3.1	3.1	
25-May-16	Sunny	Moderate	15:46		Surface	1.0	26.7 26.9	26.8	8.4 8.4	8.4	21.3 20.7	21.0	87.8 87.7	87.8	6.2 6.2	6.2	6.2	8.5 8.4	8.5	8 8.7	7.6 6.8	7.2	
				35.3	Middle 1	17.7	26.1 26.4	26.2	8.3 8.3	8.3	24.7 22.8	23.8	87.8 87.1	87.5	6.1 6.2	6.1	0.2	8.8 8.7	8.8		6.2 6.6	6.4	6.9
					Bottom 3	34.3	26.6 26.3	26.5	8.3 8.3	8.3	25.8 26.5	26.2	86.7 85.9	86.3	6.2 6.1	6.1	6.1	8.9 8.9	8.9		6.2 8.1	7.2	
27-May-16 ***	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-	_	-	-		-	-	
				-	Middle	-	-	-		-		-	-	-	-	-		-	-	-	-	-	-
					Bottom	-	-	-		-		-		-		-	-	-	-		-	-	
30-May-16	Sunny	Moderate	14:43		Surface	1.0	28.0 28.1	28.0	8.3 8.3	8.3	14.1 14.4	14.2	97.6 96.7	97.2	7.1 7.0	7.0	6.9	6.5 6.5	6.5		6.2 5.6	5.9	
				35.6	Middle 1	17.8	27.7 27.7	27.7	8.3 8.3	8.3	16.1 15.7	15.9	93.6 96.0	94.8	6.7 6.9	6.8	0.9	6.6 6.6	6.6	6.6	6.1 5.9	6.0	7.0
					Bottom 3	34.6	27.4 27.6	27.5	8.2 8.2	8.2	19.2 18.2	18.7	95.3 96.5	95.9	6.8 6.9	6.8	6.8	6.7 6.6	6.7		9.5 8.6	9.1	

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

Remarks:

* DA: Depth-Averaged

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

Water Quality Monitoring Results at CSA - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Sampling		Tempera	ature (°C)	p	н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Т	urbidity(NT	U)	Suspended Solids (mg/			
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	
2-May-16 Sunny Mo	Moderate	15:49		Surface	1.0	22.7 22.8	22.8	8.3 8.3	8.3	12.0 12.5	12.3	83.3 83.8	83.6	6.7 6.7	6.7	6.6	2.1 2.0	2.1		2.4 2.4	2.4			
			35.5	Middle	17.8	22.2 22.2	22.2	8.2 8.2	8.2	15.5 16.9	16.2	81.9 81.2	81.6	6.5 6.4	6.5	0.0	1.9 1.9	1.9	2.0	3.4 3.9	3.7	3.2		
					Bottom	34.5	22.2 22.2	22.2	8.2 8.2	8.2	17.2 16.0	16.6	80.6 83.2	81.9	6.4 6.6	6.5	6.5	2.0 2.1	2.1		4.0 2.7	3.4		
4-May-16	Sunny	Moderate	18:32		Surface	1.0	24.0 24.0	24.0	8.2 8.2	8.2	18.9 19.7	19.3	85.1 86.4	85.8	6.7 6.8	6.8		2.8 2.7	2.8		2.7 2.5	2.6		
				35.6	Middle	17.8	23.8 23.7	23.7	8.2 8.2	8.2	18.3 19.9	19.1	85.8 84.7	85.3	6.7 6.6	6.7	6.8	3.0 3.1	3.1	3.1	3.7 3.1	3.4	3.0	
					Bottom	34.6	23.4 23.9	23.6	8.1 8.2	8.2	19.6 19.3	19.5	83.3 84.9	84.1	6.5 6.6	6.5	6.5	3.3 3.2	3.3		4.0 2.2	3.1		
6-May-16	Sunny	Moderate	20:34		Surface	1.0	25.0 25.0	25.0	8.1 8.1	8.1	20.7 19.4	20.1	83.6 83.7	83.7	6.2 6.2	6.2		3.1 3.1	3.1		6.8 7.3	7.1		
				34.9	Middle	17.5	24.9 24.9	24.9	8.1 8.1	8.1	21.0 19.9	20.5	83.4 83.2	83.3	6.1 6.2	6.1	6.2	3.3 3.2	3.3	3.3	8.1 7.7	7.9	7.0	
					Bottom	33.9	24.8 24.8	24.8	8.1 8.1	8.1	21.8 20.6	21.2	83.2 83.1	83.2	6.1 6.1	6.1	6.1	3.4 3.4	3.4		7.3 4.8	6.1		
9-May-16	Sunny	Moderate	06:45		Surface	1.0	24.4 24.4	24.4	8.0 8.0	8.0	25.2 25.2	25.2	80.1 81.0	80.6	5.8 5.9	5.8	5.8	2.5 2.3	2.4		5.0 4.6	4.8		
				35.0	Middle	17.5	23.8 23.8	23.8	8.0 8.0	8.0	28.9 28.6	28.8	82.2 80.2	81.2	5.9 5.8	5.8	5.6	2.5 2.3	2.4	2.4	5.7 5.3	5.5	5.0	
					Bottom	34.0	23.8 23.8	23.8	8.0 7.9	8.0	28.9 29.0	29.0	80.2 82.1	81.2	5.7 5.9	5.8	5.8	2.3 2.2	2.3		4.6 4.9	4.8		
11-May-16	Sunny	Moderate	08:22		Surface	1.0	25.4 25.4	25.4	8.1 8.0	8.0	15.5 15.9	15.7	77.2 76.9	77.1	5.8 5.8	5.8	5.7	1.7 1.8	1.8		4.1 4.7	4.4		
				34.5	34.5	Middle	17.3	23.8 23.9	23.8	8.0 8.0	8.0	29.4 28.8	29.1	76.8 75.9	76.4	5.5 5.4	5.5	0.1	1.8 1.8	1.8	1.8	4.4 4.1	4.3	4.5
					Bottom	33.5	23.8 23.8	23.8	7.9 8.0	7.9	29.4 29.1	29.3	76.9 75.3	76.1	5.5 5.4	5.4	5.4	1.8 1.8	1.8		4.5 4.8	4.7		
13-May-16	Sunny	Moderate	10:18		Surface	1.0	25.2 25.2	25.2	8.0 8.0	8.0	18.0 18.0	18.0	79.4 81.1	80.3	5.9 6.0	5.9	5.8	2.2 2.1	2.2	2.3	4.3 4.8	4.6		
				34.1	Middle	17.1	23.9 23.9	23.9	7.9 8.0	7.9	28.3 28.6	28.4	80.5 77.2	78.9	5.8 5.5	5.6		2.2 2.3	2.3		4.6 3.9	4.3	4.9	
					Bottom	33.1	23.9 23.8	23.9	7.9 7.9	7.9	29.3 29.1	29.2	76.4 77.8	77.1	5.5 5.6	5.5	5.5	2.4 2.3	2.4		5.5 5.8	5.7		
16-May-16	Sunny	Moderate	17:21		Surface	1.0	25.6 25.5	25.6	8.5 8.5	8.5	19.1 18.9	19.0	112.4 113.2	112.8	8.2 8.2	8.2	8.2	2.5 2.5	2.5	2.6	5.2 5.5	5.4		
				35.4	Middle	17.7	25.5 25.5	25.5	8.4 8.4	8.4	20.5 20.3	20.4	111.6 111.8	111.7	8.2 8.2	8.2	0.2	2.5 2.6	2.6		5.5 6.2	5.9	5.7	
					Bottom	34.4	25.5 25.5	25.5	8.4 8.4	8.4	20.9 21.7	21.3	111.9 111.5	111.7	8.1 8.1	8.1	8.1	2.6 2.6	2.6		5.5 6.2	5.9		
18-May-16	Sunny	Moderate	19:00		Surface	1.0	24.8 24.9	24.9	8.5 8.5	8.5	28.7 28.6	28.6	108.1 108.6	108.4	7.6 7.6	7.6	7.6	3.2 3.2	3.2		6.1 5.7	5.9		
				35.0	Middle	17.5	24.7 24.7	24.7	8.5 8.5	8.5	29.2 29.1	29.1	107.5 105.6	106.6	7.6 7.4	7.5		3.3 3.2	3.3	3.3	6.7 6.6	6.7	6.3	
					Bottom	34.0	24.7 24.6	24.6	8.5 8.5	8.5	29.4 29.5	29.4	105.5 104.4	105.0	7.4 7.4	7.4	7.4	3.4 3.3	3.4		6.8 5.8	6.3		
20-May-16	Cloudy	Moderate	20:04		Surface	1.0	25.1 25.2	25.2	8.4 8.4	8.4	26.5 26.5	26.5	93.0 93.2	93.1	6.6 6.6	6.6	6.5	4.2 4.1	4.2		5.0 3.2	4.1		
				35.0	Middle	17.5	24.9 24.9	24.9	8.4 8.4	8.4	29.4 29.4	29.4	91.5 91.6	91.6	6.4 6.4	6.4		4.4 4.8	4.6	4.4	3.5 5.2	4.4	4.3	
					Bottom	34.0	24.9 24.9	24.9	8.3 8.3	8.3	29.3 29.4	29.3	92.7 92.0	92.4	6.5 6.5	6.5	6.5	4.3 4.4	4.4		4.1 4.8	4.5		

* DA: Depth-Averaged

Water Quality Monitoring Results at CSA - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Sampli	ing	Tempera	ature (°C)	p	Н	Salinit	y (ppt)	DO Satu	ration (%)	Dissolv	ved Oxyger	n (mg/L)	Т	urbidity(NTL	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-May-16	Sunny	Moderate	06:07		Surface	1.0	25.2 25.2	25.2	8.3 8.3	8.3	29.7 29.7	29.7	96.6 91.2	93.9	6.7 6.3	6.5	6.2	5.6 5.2	5.4		6.4 6.1	6.3	
				35.0	Middle	17.5	25.2 25.2	25.2	8.3 8.3	8.3	30.2 30.0	30.1	85.5 85.5	85.5	5.9 5.9	5.9	0.2	5.5 5.9	5.7	5.6	5.7 5.5	5.6	6.9
					Bottom	34.0	25.2 25.2	25.2	8.3 8.3	8.3	30.2 30.0	30.1	88.0 86.1	87.1	6.1 6.0	6.1	6.1	5.7 5.6	5.7		8.1 9.7	8.9	
25-May-16	Sunny	Moderate	07:18		Surface	1.0	26.0 26.1	26.1	8.3 8.3	8.3	25.2 25.6	25.4	84.9 85.5	85.2	6.0 6.0	6.0	6.0	7.5 7.5	7.5		3.1 3.7	3.4	
				35.3	Middle	17.7	25.8 25.8	25.8	8.3 8.3	8.3	26.9 27.7	27.3	84.1 84.4	84.3	5.9 5.9	5.9	0.0	7.7 7.6	7.7	7.7	4.8 5.1	5.0	4.5
					Bottom	34.3	25.6 25.6	25.6	8.2 8.2	8.2	30.5 30.3	30.4	84.7 83.9	84.3	5.8 5.8	5.8	5.8	7.8 7.8	7.8		5.1 5.0	5.1	
27-May-16 ***	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	-		-		-		-	-	-		-		-	-	-	-	-	-
					Bottom	-		-	-	-	-	-	-	-		-	-	-	-		-	-	
30-May-16	Sunny	Moderate	06:31		Surface	1.0	27.6 27.6	27.6	8.4 8.4	8.4	15.1 15.1	15.1	90.7 90.6	90.7	6.6 6.6	6.6	6.5	6.4 6.4	6.4		2.8 3.7	3.3	
				35.5	Middle	17.8	27.4 27.4	27.4	8.4 8.3	8.4	19.4 19.4	19.4	90.0 90.4	90.2	6.4 6.4	6.4	0.5	6.5 6.6	6.6	6.6	2.3 4.3	3.3	3.4
					Bottom	34.5	27.3 27.4	27.4	8.4 8.3	8.4	19.7 19.9	19.8	89.8 90.1	90.0	6.4 6.4	6.4	6.4	6.7 6.7	6.7		3.1 3.9	3.5	

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

Remarks:

* DA: Depth-Averaged

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

Water Quality Monitoring Results at IS(Mf)6 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	F	H	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	(mg/L)	٦	Furbidity(NT	J)	Suspe	nded Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
2-May-16	Sunny	Moderate	10:46		Surface	1.0	23.4 23.4	23.4	8.4 8.4	8.4	24.6 24.6	24.6	95.6 95.3	95.5	7.1 7.0	7.1	7.1	3.2 3.2	3.2		5.0 4.9	5.0	
				3.1	Middle	-	-	-	-	-	-	-	-	-	-	-	7.1	-	-	3.2	-	-	5.1
					Bottom	2.1	23.4 23.4	23.4	8.4 8.4	8.4	24.6 24.6	24.6	95.3 94.9	95.1	7.0 7.0	7.0	7.0	3.1 3.1	3.1		4.1 6.3	5.2	
4-May-16	Sunny	Moderate	12:14		Surface	1.0	24.5 24.5	24.5	8.4 8.4	8.4	21.1 20.7	20.9	96.8 97.5	97.2	7.2 7.2	7.2	= 0	5.3 5.0	5.2		4.4 4.1	4.3	i
				3.3	Middle	-	-	-	-	-	-	-	-	-	-	-	7.2	-	-	5.8	-	-	4.0
					Bottom	2.3	24.0 24.2	24.1	8.4 8.4	8.4	22.3 22.2	22.3	95.8 97.4	96.6	7.1 7.2	7.2	7.2	6.5 6.2	6.4		3.8 3.3	3.6	
6-May-16	Sunny	Moderate	13:39		Surface	1.0	24.8 24.8	24.8	8.4 8.4	8.4	23.8 23.9	23.9	88.3 88.3	88.3	6.4 6.4	6.4		7.3 7.2	7.3		10.5 10.4	10.5	1
				3.3	Middle	-	-	-	-	-	-	-	-	-	-	-	6.4	-	-	7.3	-	-	11.2
					Bottom	2.3	24.8 24.8	24.8	8.4 8.4	8.4	23.8 23.9	23.8	88.3 88.2	88.3	6.4 6.4	6.4	6.4	7.4 7.2	7.3		11.3 12.2	11.8	
9-May-16	Sunny	Moderate	13:48		Surface	1.0	25.7 25.7	25.7	8.4 8.4	8.4	20.4 20.5	20.4	86.5 84.5	85.5	6.3 6.1	6.2		13.3 13.5	13.4		16.9 17.4	17.2	1
				3.3	Middle	-	-	-	-	-	-	-	-	-	-	-	6.2	-	-	13.3	-	-	17.5
					Bottom	2.3	25.7 25.7	25.7	8.4 8.4	8.4	20.5 20.4	20.5	85.5 89.0	87.3	6.2 6.5	6.3	6.3	13.2 13.2	13.2		17.6 18.0	17.8	
11-May-16	Sunny	Moderate	15:03		Surface	1.0	26.2 26.6	26.4	8.4 8.4	8.4	14.7 15.2	15.0	91.9 89.8	90.9	6.8 6.6	6.7	6.7	6.4 6.4	6.4		3.0 3.2	3.1	
				3.4	Middle	-	-	-	-	-	-	-	-	-	-	-	0.7	-	-	6.5	-	-	3.0
					Bottom	2.4	26.0 26.6	26.3	8.4 8.4	8.4	17.5 16.4	16.9	90.5 89.1	89.8	6.7 6.6	6.7	6.7	6.6 6.5	6.6		2.8 2.9	2.9	
13-May-16	Sunny	Moderate	17:35		Surface	1.0	25.5 25.5	25.5	8.3 8.3	8.3	19.8 19.7	19.8	99.0 98.8	98.9	7.3 7.2	7.2	7.2	4.4 4.5	4.5		8.5 8.6	8.6	
				3.3	Middle	-	-	-	-	-	-	-	-	-	-	-	1.2	-	-	4.7	-	-	8.1
					Bottom	2.3	25.5 25.4	25.5	8.3 8.4	8.4	19.8 19.7	19.8	94.7 95.9	95.3	6.9 7.0	7.0	7.0	4.7 4.8	4.8		7.4 7.8	7.6	
16-May-16	Sunny	Moderate	10:57		Surface	1.0	25.9 25.9	25.9	8.5 8.5	8.5	20.7 20.4	20.6	105.7 105.5	105.6	7.6 7.6	7.6	7.0	3.8 3.8	3.8		6.4 5.4	5.9	
				3.3	Middle	-	-	-	-	-	-	-	-	-	-	-	7.6	-	-	3.8	-	-	5.3
					Bottom	2.3	25.7 25.6	25.7	8.4 8.4	8.4	24.2 23.7	23.9	105.7 105.1	105.4	7.5 7.5	7.5	7.5	3.7 3.8	3.8		4.9 4.3	4.6	
18-May-16	Sunny	Moderate	11:50		Surface	1.0	25.1 25.1	25.1	8.6 8.6	8.6	26.6 26.6	26.6	116.0 115.9	116.0	8.2 8.2	8.2		5.3 5.5	5.4		6.1 6.8	6.5	
				3.5	Middle	-	-	-	-	-	-	-	-	-	-	-	8.2	-	-	5.5	-	-	7.7
					Bottom	2.5	25.1 25.1	25.1	8.6 8.6	8.6	26.6 26.6	26.6	115.9 116.0	116.0	8.2 8.2	8.2	8.2	5.6 5.4	5.5		8.4 9.4	8.9	
20-May-16	Rainy	Moderate	13:21		Surface	1.0	25.3 25.3	25.3	8.5 8.5	8.5	27.1 27.4	27.3	98.7 98.8	98.8	7.0 7.0	7.0	7.0	9.7 9.5	9.6		14.6 15.3	15.0	
				3.3	Middle	-	-	-	-	-	-	-	-	-	-	-	7.0	-	-	9.8	-	-	14.4
					Bottom	2.3	25.3 25.3	25.3	8.5 8.5	8.5	27.4 27.5	27.5	98.7 98.6	98.7	7.0 6.9	6.9	6.9	9.9 9.8	9.9		13.3 14.2	13.8	

* DA: Depth-Averaged

Water Quality Monitoring Results at IS(Mf)6 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	H	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ved Oxyger	(mg/L)	Т	urbidity(NTl	J)	Suspe	nded Solids	; (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-May-16	Sunny	Moderate	12:47		Surface	1.0	26.7 26.6	26.6	8.5 8.5	8.5	22.7 22.9	22.8	92.9 92.6	92.8	6.6 6.5	6.5	6.5	6.9 6.8	6.9		5.7 5.9	5.8	
				3.2	Middle	-	-	-		-		-		-	-	-	0.5	-	-	6.9	-	-	6.2
					Bottom	2.2	26.4 26.7	26.6	8.5 8.5	8.5	23.1 22.7	22.9	93.5 92.7	93.1	6.6 6.5	6.6	6.6	6.8 6.9	6.9		7.0 6.2	6.6	
25-May-16	Sunny	Moderate	14:03		Surface	1.0	27.5 27.6	27.6	8.5 8.5	8.5	20.6 20.4	20.5	103.1 108.3	105.7	7.3 7.6	7.4	7.4	6.2 5.8	6.0		7.3 7.1	7.2	
				3.3	Middle	-	-	-	• •	-		-		-	-	-	7.4	-	-	6.1	-	-	6.3
					Bottom	2.3	27.6 27.5	27.6	8.5 8.5	8.5	21.2 21.3	21.3	106.4 100.7	103.6	7.5 7.1	7.3	7.3	6.0 6.2	6.1		5.6 5.1	5.4	
27-May-16 ***	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
				-	Middle	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	<u>-</u>
					Bottom	-	-	-		-	-	-	-	-	-	-	-	-	-		-	-	
30-May-16	Sunny	Moderate	12:10		Surface	1.0	28.7 28.4	28.6	8.5 8.4	8.5	16.9 17.6	17.3	111.1 108.6	109.9	7.8 7.7	7.7	7.7	2.3 2.3	2.3		3.9 4.0	4.0	
				3.4	Middle	-	-	-		-	-	-	-	-	-	-	1.1	-	-	2.3	-	-	4.4
					Bottom	2.4	28.3 28.1	28.2	8.4 8.4	8.4	18.4 19.3	18.9	109.6 107.6	108.6	7.7 7.6	7.6	7.6	2.3 2.3	2.3		4.8 4.7	4.8	

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

Remarks:

* DA: Depth-Averaged

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

Water Quality Monitoring Results at IS(Mf)6 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	P	н	Salini	ity (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	(mg/L)	٦	Furbidity(NTl	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
2-May-16	Sunny	Moderate	13:48		Surface	1.0	23.3 23.2	23.3	8.4 8.4	8.4	24.7 24.8	24.7	94.4 94.2	94.3	7.0 7.0	7.0		4.1 4.4	4.3		6.3 7.2	6.8	
				3.1	Middle	-		-		-	-	-		-	-	-	7.0	-	-	4.3		-	6.6
					Bottom	2.1	23.2 23.2	23.2	8.4 8.4	8.4	25.1 25.0	25.0	94.2 94.1	94.2	7.0 7.0	7.0	7.0	4.2 4.2	4.2		6.1 6.7	6.4	
4-May-16	Sunny	Moderate	15:57		Surface	1.0	24.7 24.7	24.7	8.5 8.5	8.5	21.2 20.9	21.1	103.1 100.3	101.7	7.6 7.4	7.5	7.5	4.7 4.8	4.8		3.2 3.5	3.4	i
				3.3	Middle	-	-	-	-	-	-	-	-	-	-	-	7.5	-	-	5.0	-	-	3.6
					Bottom	2.3	24.3 24.5	24.4	8.4 8.5	8.5	23.4 22.4	22.9	98.9 101.2	100.1	7.2 7.4	7.3	7.3	5.0 5.2	5.1		3.3 4.0	3.7	
6-May-16	Sunny	Moderate	17:52		Surface	1.0	25.2 25.2	25.2	8.5 8.4	8.5	25.1 25.1	25.1	97.7 97.8	97.8	7.0 7.0	7.0	7.0	3.9 3.9	3.9		4.5 4.8	4.7	i
				3.2	Middle	-		-	-	-	-	-	-	-	-	-	7.0	-	-	3.9		-	4.4
					Bottom	2.2	25.2 25.1	25.2	8.4 8.5	8.5	25.1 25.2	25.1	97.8 98.2	98.0	7.0 7.0	7.0	7.0	4.0 3.8	3.9		4.4 3.6	4.0	
9-May-16	Sunny	Moderate	08:50		Surface	1.0	25.7 25.7	25.7	8.3 8.2	8.3	19.9 20.0	19.9	88.7 86.1	87.4	6.5 6.3	6.4		4.9 4.8	4.9		5.3 5.4	5.4	
				3.3	Middle	-	-	-	-	-	-	-	-	-	-	-	6.4	-	-	4.9	-	-	5.2
					Bottom	2.3	25.7 25.7	25.7	8.3 8.2	8.3	20.3 20.2	20.2	92.1 87.3	89.7	6.7 6.4	6.5	6.5	4.9 4.9	4.9		5.3 4.5	4.9	
11-May-16	Sunny	Moderate	09:59		Surface	1.0	25.7 25.6	25.6	8.1 8.1	8.1	15.4 15.4	15.4	81.7 82.0	81.9	6.1 6.1	6.1	6.4	4.4 4.7	4.6		4.3 3.9	4.1	
				3.4	Middle	-	-	-		-		-	-	-	-	-	6.1	-	-	4.7	-	-	3.9
					Bottom	2.4	25.6 25.7	25.7	8.1 8.1	8.1	16.5 16.3	16.4	81.9 81.5	81.7	6.1 6.1	6.1	6.1	4.7 4.6	4.7		3.7 3.4	3.6	
13-May-16	Sunny	Moderate	11:48		Surface	1.0	25.4 25.4	25.4	8.3 8.3	8.3	20.7 20.6	20.7	95.2 94.9	95.1	7.0 6.9	6.9	<u> </u>	5.2 5.2	5.2		7.3 7.1	7.2	
				3.4	Middle	-	-	-	-	-	-	-	-	-	-	-	6.9	-	-	5.3	-	-	6.6
					Bottom	2.4	25.4 25.4	25.4	8.3 8.3	8.3	20.6 20.7	20.7	94.4 94.4	94.4	6.9 6.9	6.9	6.9	5.4 5.3	5.4		6.0 5.7	5.9	
16-May-16	Sunny	Moderate	14:38		Surface	1.0	26.7 26.7	26.7	8.6 8.6	8.6	17.3 17.3	17.3	143.6 145.2	144.4	10.4 10.6	10.5	10.5	2.8 2.8	2.8		5.1 4.0	4.6	
				3.2	Middle	-	-	-	-	-	-	-	-	-	-	-	10.5	-	-	2.9	-	-	5.3
					Bottom	2.2	26.4 26.6	26.5	8.6 8.6	8.6	17.7 17.5	17.6	132.7 136.7	134.7	9.7 9.9	9.8	9.8	3.0 2.9	3.0		5.4 6.3	5.9	
18-May-16	Sunny	Moderate	16:02		Surface	1.0	25.4 25.4	25.4	8.7 8.7	8.7	26.0 26.1	26.1	129.1 126.4	127.8	9.1 9.0	9.0	0.0	3.9 3.9	3.9		6.8 5.4	6.1	
				3.4	Middle	-	-	-	-	-		-	-	-	-	-	9.0	-	-	4.0	-	-	6.3
					Bottom	2.4	25.4 25.4	25.4	8.7 8.7	8.7	26.1 26.1	26.1	122.6 127.4	125.0	8.7 9.0	8.9	8.9	4.1 3.9	4.0		6.6 6.3	6.5	
20-May-16	Cloudy	Moderate	17:50		Surface	1.0	25.4 25.4	25.4	8.5 8.5	8.5	27.5 27.5	27.5	100.5 99.8	100.2	7.1 7.0	7.0	7.0	7.3 7.3	7.3		7.2 7.1	7.2	
				3.3	Middle	-	-	-		-		-	-	-	-	-	7.0	-	-	7.3	-	-	7.4
					Bottom	2.3	25.4 25.4	25.4	8.5 8.5	8.5	27.6 27.7	27.7	100.2 99.0	99.6	7.0 6.9	7.0	7.0	7.4 7.2	7.3		7.1 8.0	7.6	

* DA: Depth-Averaged

Water Quality Monitoring Results at IS(Mf)6 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Sampli	ing	Tempera	ature (°C)	F	н	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ved Oxyger	i (mg/L)	Т	urbidity(NTL	J)	Suspe	ended Solids	; (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth ((m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-May-16	Sunny	Moderate	08:04		Surface	1.0	26.2 26.2	26.2	8.3 8.3	8.3	22.2 22.2	22.2	93.0 94.5	93.8	6.6 6.7	6.7	6.7	3.6 3.6	3.6		3.8 4.4	4.1	
				3.3	Middle		-	-	-	-	-	-	-	-	-	-	0.7	-	-	3.7	-	-	4.4
					Bottom	2.3	26.2 26.1	26.1	8.3 8.3	8.3	22.3 22.6	22.4	93.1 93.5	93.3	6.6 6.7	6.7	6.7	3.6 3.8	3.7		4.5 4.7	4.6	
25-May-16	Sunny	Moderate	08:42		Surface	1.0	26.9 26.8	26.9	8.3 8.3	8.3	20.4 20.5	20.5	92.9 93.0	93.0	6.6 6.6	6.6	6.6	3.7 3.7	3.7		3.3 5.1	4.2	
				3.4	Middle	-	-	-		-		-	-	-	-	-	0.0	-	-	3.7	-	-	6.2
					Bottom	2.4	26.9 26.9	26.9	8.3 8.3	8.3	20.4 20.4	20.4	92.9 93.0	93.0	6.6 6.6	6.6	6.6	3.7 3.7	3.7		7.8 8.3	8.1	
27-May-16 ***	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	<u>-</u>
					Bottom	-	-	-		-		-	-	-	-	-	-	-	-		-	-	
30-May-16	Sunny	Moderate	08:59		Surface	1.0	28.0 27.9	28.0	8.4 8.4	8.4	18.5 18.5	18.5	99.7 100.0	99.9	7.0 7.1	7.1	7.1	3.3 3.3	3.3		6.1 4.0	5.1	
				3.1	Middle	-	-	-	-	-	-	-	-	-	-	-	7.1	-	-	3.4	-	-	5.7
					Bottom	2.1	27.9 27.8	27.8	8.3 8.3	8.3	19.0 19.1	19.0	99.8 99.1	99.5	7.1 7.0	7.0	7.0	3.4 3.4	3.4		6.4 6.1	6.3	

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

Remarks:

* DA: Depth-Averaged

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

Water Quality Monitoring Results at IS(Mf)9 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	oling	Tempera	ature (°C)	p	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Г	Furbidity(NT	J)	Suspe	nded Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
2-May-16	Sunny	Moderate	10:29		Surface	1.0	23.4 23.4	23.4	8.4 8.4	8.4	24.8 24.8	24.8	102.0 100.7	101.4	7.5 7.4	7.5	7.5	1.9 1.9	1.9		4.9 4.7	4.8	
				3.7	Middle	-	-	-	-	-	-	-	-	-	-	-	7.5	-	-	1.9	-	-	4.7
					Bottom	2.7	23.4 23.4	23.4	8.4 8.4	8.4	24.8 24.9	24.9	101.4 99.0	100.2	7.5 7.3	7.4	7.4	1.8 1.8	1.8		4.4 4.8	4.6	
4-May-16	Sunny	Moderate	11:58		Surface	1.0	24.5 24.4	24.5	8.4 8.4	8.4	20.1 20.1	20.1	98.2 99.3	98.8	7.3 7.4	7.4		3.7 3.5	3.6		3.1 3.0	3.1	
				3.6	Middle	-		-	-	-	-	-	-	-	-	-	7.4	-	-	3.9	-	-	3.3
					Bottom	2.6	24.3 24.4	24.4	8.4 8.4	8.4	21.5 22.5	22.0	97.3 98.9	98.1	7.2 7.3	7.2	7.2	4.1 4.0	4.1		3.0 3.7	3.4	
6-May-16	Sunny	Moderate	13:26		Surface	1.0	24.8 24.8	24.8	8.4 8.4	8.4	23.8 23.8	23.8	89.4 90.4	89.9	6.5 6.5	6.5		7.6 7.9	7.8		8.4 8.8	8.6	
				3.6	Middle	-	-	-	-	-	-	-	-	-	-	-	6.5	-	-	7.8	-	-	8.6
					Bottom	2.6	24.8 24.8	24.8	8.4 8.4	8.4	23.8 23.8	23.8	91.3 89.8	90.6	6.6 6.5	6.6	6.6	7.8 7.7	7.8		8.5 8.6	8.6	
9-May-16	Sunny	Moderate	14:04		Surface	1.0	26.1 26.1	26.1	8.3 8.3	8.3	19.2 19.2	19.2	87.9 89.1	88.5	6.4 6.5	6.4		4.6 4.7	4.7		3.3 2.1	2.7	
				3.8	Middle	-	-	-	-	-	-	-	-	-	-	-	6.4	-	-	4.8	-	-	3.0
					Bottom	2.8	26.0 26.0	26.0	8.3 8.3	8.3	20.1 20.1	20.1	90.3 88.4	89.4	6.5 6.4	6.5	6.5	4.7 4.8	4.8		3.4 2.9	3.2	
11-May-16	Sunny	Moderate	15:20		Surface	1.0	26.3 26.3	26.3	8.3 8.3	8.3	15.3 15.0	15.2	90.2 92.6	91.4	6.7 6.8	6.7	6.7	5.0 5.0	5.0		5.8 6.0	5.9	
				3.3	Middle	-	-	-		-	-	-	-	-	-	-	6.7	-	-	5.0	-	-	5.8
					Bottom	2.3	26.2 26.3	26.2	8.3 8.3	8.3	16.1 16.5	16.3	89.5 91.0	90.3	6.6 6.8	6.7	6.7	5.0 5.0	5.0		5.9 5.4	5.7	
13-May-16	Sunny	Moderate	17:51		Surface	1.0	25.5 25.4	25.5	8.3 8.3	8.3	19.7 19.7	19.7	97.9 97.8	97.9	7.2 7.2	7.2	7.0	5.3 5.2	5.3		6.6 6.8	6.7	
				3.4	Middle	-	-	-	-	-	-	-	-	-		-	7.2	-	-	5.4	-	-	6.5
					Bottom	2.4	25.4 25.5	25.4	8.3 8.3	8.3	19.8 19.7	19.8	97.0 96.8	96.9	7.1 7.1	7.1	7.1	5.5 5.5	5.5		6.1 6.5	6.3	
16-May-16	Sunny	Moderate	10:43		Surface	1.0	25.8 25.9	25.8	8.5 8.5	8.5	19.8 21.0	20.4	109.5 110.6	110.1	8.0 8.0	8.0	8.0	2.6 2.6	2.6		3.3 3.2	3.3	
				3.7	Middle	-	-	-	-	-	-	-	-	-	-	-	0.0	-	-	2.7	-	-	3.3
					Bottom	2.7	25.9 25.9	25.9	8.5 8.5	8.5	22.5 22.4	22.4	110.1 108.8	109.5	7.9 7.8	7.8	7.8	2.6 2.7	2.7		3.2 3.3	3.3	
18-May-16	Sunny	Moderate	11:34		Surface	1.0	24.8 25.0	24.9	8.6 8.6	8.6	26.5 26.2	26.4	114.3 113.5	113.9	8.1 8.1	8.1	8.1	3.6 3.6	3.6		5.0 6.6	5.8	
				3.3	Middle	-	-	-	-	-	-	-	-	-		-	0.1	-	-	3.7	-	-	5.6
					Bottom	2.3	24.9 24.8	24.8	8.6 8.6	8.6	26.6 26.9	26.7	114.3 108.8	111.6	8.1 7.8	7.9	7.9	3.7 3.6	3.7		5.6 5.2	5.4	
20-May-16	Rainy	Moderate	13:06		Surface	1.0	25.5 25.5	25.5	8.5 8.5	8.5	27.9 27.8	27.9	106.7 106.8	106.8	7.5 7.5	7.5	7.5	7.3 7.4	7.4		6.4 6.6	6.5	
				3.7	Middle	-	-	-	-	-	-	-	-	-		-	1.5	-	-	7.4	-	-	6.1
					Bottom	2.7	25.4 25.5	25.4	8.5 8.5	8.5	27.9 27.9	27.9	106.6 106.6	106.6	7.5 7.5	7.5	7.5	7.5 7.2	7.4		6.0 5.3	5.7	1

Remarks:

* DA: Depth-Averaged

Water Quality Monitoring Results at IS(Mf)9 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	(mg/L)	Т	urbidity(NTl	J)	Suspe	nded Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-May-16	Sunny	Moderate	13:03		Surface	1.0	26.6 26.4	26.5	8.4 8.4	8.4	21.7 21.9	21.8	94.2 95.8	95.0	6.7 6.8	6.8	6.8	6.5 6.6	6.6		3.6 3.4	3.5	
				3.7	Middle	-	-	-		-		-		-	-	-	0.0	-	-	6.6	-	-	3.9
					Bottom	2.7	26.4 26.2	26.3	8.4 8.4	8.4	22.7 22.8	22.7	95.4 94.4	94.9	6.8 6.7	6.7	6.7	6.7 6.5	6.6		4.3 4.2	4.3	
25-May-16	Sunny	Moderate	14:21		Surface	1.0	27.2 27.1	27.1	8.5 8.5	8.5	20.3 20.4	20.3	102.4 99.5	101.0	7.3 7.1	7.2	7.2	6.5 6.4	6.5		10.6 11.9	11.3	
				3.4	Middle	-	-	-	• •	-		-		-	-	-	7.2	-	-	6.6	-	-	9.7
					Bottom	2.4	27.0 27.3	27.2	8.5 8.5	8.5	21.1 21.0	21.1	99.5 101.1	100.3	7.0 7.1	7.1	7.1	6.6 6.6	6.6		8.4 7.7	8.1	
27-May-16 ***	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
				-	Middle	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	<u>-</u>
					Bottom	-	-	-		-	-	-	-	-	-	-	-	-	-		-	-	
30-May-16	Sunny	Moderate	12:22		Surface	1.0	28.2 28.1	28.2	8.5 8.5	8.5	17.3 18.0	17.6	109.0 104.8	106.9	7.7 7.4	7.6	7.6	3.5 3.5	3.5		2.7 3.0	2.9	
				3.7	Middle	-	-	-		-	-	-	-	-	-	-	7.0	-	-	3.6	-	-	2.8
					Bottom	2.7	28.1 27.9	28.0	8.4 8.4	8.4	19.2 19.7	19.4	107.8 101.2	104.5	7.6 7.1	7.4	7.4	3.7 3.6	3.7		2.6 2.7	2.7	

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

Remarks:

* DA: Depth-Averaged

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

Water Quality Monitoring Results at IS(Mf)9 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	Н	Salini	ity (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	۲	urbidity(NT	U)	Suspe	nded Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
2-May-16	Sunny	Moderate	14:04		Surface	1.0	23.6 23.6	23.6	8.5 8.5	8.5	24.8 24.8	24.8	104.6 105.9	105.3	7.7 7.8	7.7	7.7	2.1 2.2	2.2		2.9 3.0	3.0	
				3.6	Middle	-	-	-	-	-	-	-	-	-	-	-	1.1	-	-	2.2	-	-	3.5
					Bottom	2.6	23.6 23.6	23.6	8.4 8.5	8.4	24.8 24.8	24.8	102.0 105.2	103.6	7.5 7.8	7.6	7.6	2.1 2.2	2.2		3.2 4.6	3.9	
4-May-16	Sunny	Moderate	16:14		Surface	1.0	24.9 24.8	24.8	8.5 8.5	8.5	21.2 21.1	21.2	105.7 103.4	104.6	7.8 7.6	7.7	7 7	5.8 5.5	5.7		4.8 4.4	4.6	
				3.6	Middle	-	-	-	-	-		-	-	-	-	-	7.7	-	-	6.0	-	-	4.4
					Bottom	2.6	24.6 24.7	24.6	8.5 8.5	8.5	21.9 21.7	21.8	101.5 104.4	103.0	7.5 7.7	7.6	7.6	6.0 6.5	6.3		4.2 4.0	4.1	
6-May-16	Sunny	Moderate	18:09		Surface	1.0	25.1 25.1	25.1	8.4 8.4	8.4	25.3 25.3	25.3	92.7 93.0	92.9	6.6 6.6	6.6	6.6	9.6 9.7	9.7		11.9 11.7	11.8	
				3.7	Middle	-	-	-	-	-		-	-	-	-	-	0.0	-	-	9.6	-	-	12.7
					Bottom	2.7	24.8 25.0	24.9	8.4 8.4	8.4	25.6 25.4	25.5	93.5 92.4	93.0	6.7 6.6	6.7	6.7	9.5 9.3	9.4		13.2 13.8	13.5	
9-May-16	Sunny	Moderate	08:36		Surface	1.0	25.6 25.6	25.6	8.2 8.2	8.2	19.3 19.3	19.3	84.5 87.0	85.8	6.2 6.4	6.3	6.3	5.4 5.4	5.4		6.1 5.1	5.6	
				3.8	Middle	-	-	-	-	-		-	-	-	-	-	0.3	-	-	5.4	-	-	6.1
					Bottom	2.8	25.5 25.6	25.6	8.2 8.2	8.2	20.7 20.8	20.7	90.3 85.7	88.0	6.6 6.2	6.4	6.4	5.4 5.3	5.4		5.9 7.0	6.5	
11-May-16	Sunny	Moderate	09:44		Surface	1.0	25.6 25.6	25.6	8.1 8.1	8.1	16.2 16.3	16.3	85.2 87.5	86.4	6.4 6.5	6.4	6.4	7.0 7.0	7.0		6.9 6.5	6.7	
				3.3	Middle	-	-	-	-	-	-	-	-	-	-	-	0.4	-	-	7.1	-	-	6.8
					Bottom	2.3	25.6 25.6	25.6	8.1 8.1	8.1	16.2 16.5	16.3	84.3 85.9	85.1	6.3 6.4	6.4	6.4	7.0 7.1	7.1		6.4 7.3	6.9	
13-May-16	Sunny	Moderate	11:31		Surface	1.0	25.3 25.3	25.3	8.3 8.3	8.3	20.2 20.2	20.2	90.8 91.9	91.4	6.7 6.7	6.7	6.7	4.2 4.3	4.3		6.3 6.3	6.3	
				3.5	Middle	-	-	-	-	-	-	-	-	-	-	-	0.7	-	-	4.5	-	-	5.8
					Bottom	2.5	25.3 25.3	25.3	8.3 8.3	8.3	20.3 20.5	20.4	90.3 90.1	90.2	6.6 6.6	6.6	6.6	4.5 4.6	4.6		5.3 5.2	5.3	
16-May-16	Sunny	Moderate	14:53		Surface	1.0	26.4 26.6	26.5	8.6 8.6	8.6	17.9 18.1	18.0	137.5 138.8	138.2	10.0 9.9	10.0	10.0	4.2 4.1	4.2		5.4 4.8	5.1	
				3.7	Middle	-	-	-	-	-	-	-	-	-	-	-	10.0	-	-	4.2	-	-	5.4
					Bottom	2.7	26.4 25.7	26.0	8.6 8.5	8.5	21.6 22.4	22.0	139.7 135.6	137.7	10.0 9.8	9.9	9.9	4.2 4.2	4.2		5.6 5.7	5.7	
18-May-16	Sunny	Moderate	16:19		Surface	1.0	25.0 25.1	25.1	8.7 8.7	8.7	26.9 26.6	26.7	105.9 111.5	108.7	7.5 7.9	7.7	7.7	5.8 5.8	5.8		8.7 9.2	9.0	
				3.3	Middle	-	-	-	-	-	-	-	-	-	-	-	1.1	-	-	5.9	-	-	9.2
					Bottom	2.3	25.0 25.1	25.0	8.7 8.7	8.7	27.1 26.7	26.9	103.4 108.2	105.8	7.3 7.7	7.5	7.5	5.8 5.9	5.9		9.1 9.4	9.3	
20-May-16	Cloudy	Moderate	18:10		Surface	1.0	25.5 25.5	25.5	8.5 8.5	8.5	28.0 28.0	28.0	100.1 100.3	100.2	7.0 7.0	7.0	7.0	13.5 13.3	13.4		18.0 17.0	17.5	
				3.7	Middle	-	-	-	-	-	-	-	-	-		-	7.0	-	-	13.4	-	-	19.2
					Bottom	2.7	25.5 25.5	25.5	8.5 8.5	8.5	28.0 28.0	28.0	100.2 99.6	99.9	7.0 7.0	7.0	7.0	13.3 13.2	13.3	1	20.1 21.4	20.8	

Remarks:

* DA: Depth-Averaged

Water Quality Monitoring Results at IS(Mf)9 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samplin	ng	Tempera	ature (°C)	F	ъН	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ved Oxyger	(mg/L)	Т	urbidity(NTL	J)	Suspe	nded Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth (r	m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-May-16	Sunny	Moderate	07:48		Surface	1.0	26.1 26.1	26.1	8.3 8.3	8.3	22.8 23.1	23.0	90.6 88.2	89.4	6.5 6.3	6.4	6.4	6.1 6.2	6.2		4.8 4.7	4.8	
				3.7	Middle	-		-	-	-	-	-		-	-	-	0.4	-	-	6.2	-	-	6.3
					Bottom	2.7	26.1 26.1	26.1	8.3 8.3	8.3	23.2 23.0	23.1	89.3 93.8	91.6	6.4 6.7	6.5	6.5	6.1 6.2	6.2		8.3 7.0	7.7	
25-May-16	Sunny	Moderate	08:27		Surface	1.0	26.8 26.8	26.8	8.3 8.3	8.3	20.1 20.0	20.0	92.3 96.5	94.4	6.6 6.9	6.7	6.7	4.0 4.0	4.0		4.7 4.4	4.6	
				3.1	Middle	-		-	-	-	-	-	-	-	-	-	0.1	-	-	4.1	-	-	5.3
					Bottom	2.1	26.8 26.6	26.7	8.3 8.3	8.3	21.0 21.5	21.3	91.1 93.2	92.2	6.5 6.7	6.6	6.6	4.1 4.1	4.1		5.9 5.8	5.9	
27-May-16 ***	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
				-	Middle	-		-	-	-	-	-		-	-	-	-	-	-	-	-	-	-
					Bottom	-		-	-	-	-	-	-	-	-	-	-	-	-		-	-	
30-May-16	Sunny	Moderate	08:43		Surface	1.0	27.8 27.7	27.7	8.3 8.3	8.3	18.2 19.0	18.6	94.3 93.8	94.1	6.7 6.6	6.7	6.7	4.7 4.7	4.7		6.5 7.4	7.0	
				3.7	Middle	-	-	-	-	-	-	-	-	-	-	-	0.7	-	-	4.8	-	-	6.8
					Bottom	2.7	27.5 27.5	27.5	8.3 8.3	8.3	21.6 21.2	21.4	94.5 94.4	94.5	6.6 6.6	6.6	6.6	4.7 4.8	4.8		6.7 6.5	6.6	

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

Remarks:

* DA: Depth-Averaged

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

Water Quality Monitoring Results at IS10 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	н	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ved Oxygen	(mg/L)	Т	urbidity(NT	J)	Suspe	nded Solids	; (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
2-May-16	Sunny	Moderate	09:51		Surface	1.0	23.2 23.2	23.2	8.1 8.2	8.1	20.9 20.9	20.9	87.8 88.1	88.0	6.7 6.7	6.7	6.7	2.2 2.3	2.3		5.7 6.4	6.1	
				10.6	Middle	5.3	22.9 23.0	23.0	8.1 8.1	8.1	22.1 22.2	22.1	87.9 88.8	88.4	6.7 6.7	6.7	0.7	2.1 2.2	2.2	2.3	5.0 6.8	5.9	6.0
					Bottom	9.6	23.1 22.9	23.0	8.1 8.1	8.1	22.4 23.1	22.7	88.6 89.0	88.8	6.7 6.7	6.7	6.7	2.4 2.1	2.3		5.9 6.2	6.1	
4-May-16	Sunny	Moderate	11:36		Surface	1.0	24.1 24.0	24.1	8.1 8.2	8.1	19.8 20.0	19.9	83.4 86.7	85.1	6.3 6.4	6.3	6.3	2.6 2.5	2.6		2.9 2.2	2.6	
				12.0	Middle	6.0	23.7 23.3	23.5	8.1 8.1	8.1	20.0 21.6	20.8	81.5 83.0	82.3	6.2 6.3	6.2	0.5	2.8 2.8	2.8	2.8	3.3 2.1	2.7	2.7
					Bottom	11.0	23.7 23.4	23.6	8.1 8.1	8.1	24.5 25.2	24.8	82.2 80.5	81.4	6.1 6.1	6.1	6.1	3.0 2.9	3.0		2.1 3.5	2.8	
6-May-16	Sunny	Moderate	12:44		Surface	1.0	24.8 25.0	24.9	8.0 8.0	8.0	20.6 19.8	20.2	85.1 85.0	85.1	6.3 6.3	6.3	6.3	4.3 4.2	4.3		5.5 5.9	5.7	
				11.4	Middle	5.7	24.8 24.7	24.7	8.0 8.0	8.0	20.5 21.6	21.0	84.5 84.4	84.5	6.2 6.2	6.2	0.0	4.5 4.4	4.5	4.5	5.3 6.5	5.9	6.2
					Bottom	10.4	24.7 24.7	24.7	7.9 8.0	8.0	22.1 21.5	21.8	83.5 83.9	83.7	6.1 6.2	6.2	6.2	4.8 4.7	4.8	I	6.7 7.5	7.1	
9-May-16	Sunny	Moderate	14:36		Surface	1.0	25.4 25.7	25.6	8.1 8.1	8.1	16.7 15.8	16.2	79.9 79.8	79.9	6.0 6.0	6.0	5.9	8.3 7.6	8.0		4.8 4.3	4.6	
				10.8	Middle	5.4	25.2 25.2	25.2	8.0 8.0	8.0	20.4 20.2	20.3	79.1 79.6	79.4	5.8 5.8	5.8	0.0	11.2 11.9	11.6	10.0	4.7 5.0	4.9	4.9
					Bottom	9.8	25.3 25.3	25.3	8.0 8.0	8.0	19.4 20.6	20.0	79.1 79.3	79.2	5.8 5.8	5.8	5.8	10.0 10.7	10.4		4.8 5.3	5.1	
11-May-16	Sunny	Moderate	16:11		Surface	1.0	27.1 26.9	27.0	8.1 8.1	8.1	12.4 12.8	12.6	78.0 76.5	77.3	5.8 5.7	5.7	5.7	5.1 5.1	5.1		3.4 2.3	2.9	
				10.5	Middle	5.3	25.3 25.0	25.1	8.1 8.1	8.1	17.7 17.5	17.6	74.7 75.6	75.2	5.6 5.7	5.6	•	5.4 5.6	5.5	5.4	5.5 5.4	5.5	4.6
					Bottom	9.5	24.1 24.4	24.2	7.9 8.0	8.0	27.8 26.6	27.2	75.9 76.7	76.3	5.4 5.5	5.5	5.5	5.5 5.5	5.5		5.7 4.8	5.3	
13-May-16	Sunny	Moderate	18:08		Surface	1.0	25.1 25.2	25.1	8.3 8.3	8.3	20.5 20.4	20.4	77.8 81.6	79.7	5.7 6.0	5.9	5.7	5.1 5.2	5.2		4.4 4.7	4.6	
				10.6	Middle	5.3	24.5 24.8	24.6	8.2 8.3	8.3	24.1 23.0	23.6	73.4 78.7	76.1	5.3 5.7	5.5	-	5.3 5.4	5.4	5.4	4.3 3.3	3.8	4.0
					Bottom	9.6	24.2 24.4	24.3	8.2 8.2	8.2	27.1 27.1	27.1	72.2 78.2	75.2	5.2 5.6	5.4	5.4	5.5 5.5	5.5		3.8 3.6	3.7	
16-May-16	Sunny	Moderate	09:35		Surface	1.0	25.4 25.4	25.4	8.3 8.3	8.3	14.2 14.2	14.2	88.5 84.5	86.5	6.7 6.4	6.5	6.3	4.7 4.8	4.8		5.2 4.9	5.1	
				10.8	Middle	5.4	24.9 25.1	25.0	8.2 8.2	8.2	20.3 20.2	20.3	86.0 82.6	84.3	6.1 6.1	6.1		4.9 4.9	4.9	5.0	6.9 6.1	6.5	6.0
					Bottom	9.8	24.9 24.8	24.8	8.1 <u>8.0</u>	8.1	25.2 26.8	26.0	83.3 81.4	82.4	6.0 6.2	6.1	6.1	5.1 5.2	5.2	 	5.6 7.0	6.3	
18-May-16	Sunny	Moderate	10:45		Surface	1.0	24.9 24.9	24.9	8.5 8.5	8.5	26.1 26.1	26.1	115.7 113.0	114.4	8.2 8.1	8.1	8.0	3.7 3.5	3.6		6.5 6.6	6.6	
				11.0	Middle	5.5	24.9 24.9	24.9	8.4 8.4	8.4	27.2	27.2	111.8 111.0	111.4	7.9	7.9		3.8 3.8	3.8	3.8	6.8 7.0	6.9	6.6
00.14	Dela	Madaaata	10.00		Bottom	10.0	24.9 24.9	24.9	8.5 <u>8.4</u>	8.4	27.3 27.4	27.4	102.6 104.8	103.7	7.3 7.4	7.4	7.4	3.9 4.0	4.0	 	6.4 6.3	6.4	
20-May-16	Rainy	Moderate	12:29		Surface	1.0	25.1 25.1	25.1	8.4 8.3	8.4	24.5 24.9	24.7	92.1 91.8	92.0	6.6 6.6	6.6	6.6	6.8 6.6	6.7		5.2 4.6	4.9	
				10.7	Middle	5.4	25.0 25.0	25.0	8.3 8.3	8.3	27.0 27.0	27.0	91.6 91.6	91.6	6.5 6.5	6.5		7.2 7.0	7.1	7.1	4.9 4.5	4.7	5.1
					Bottom	9.7	25.1 25.0	25.1	8.3 8.3	8.3	27.0 27.1	27.1	91.7 91.6	91.7	6.5 6.5	6.5	6.5	7.6 7.3	7.5		6.4 4.9	5.7	

Remarks:

* DA: Depth-Averaged

Water Quality Monitoring Results at IS10 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampling	g	Tempera	ature (°C)	p	Н	Salinit	y (ppt)	DO Satu	ration (%)	Dissolv	ved Oxyger	ı (mg/L)	Т	urbidity(NTl	J)	Susper	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth (m	n)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-May-16	Sunny	Moderate	13:45		Surface	1.0	27.0 26.8	26.9	8.3 8.3	8.3	17.1 17.1	17.1	88.1 86.8	87.5	6.4 6.3	6.3	6.2	6.8 6.8	6.8		3.6 2.1	2.9	
				10.7	Middle	5.4	25.8 26.3	26.1	8.2 8.3	8.2	25.0 24.5	24.7	85.2 85.4	85.3	6.0 6.2	6.1	0.2	7.8 8.2	8.0	7.9	3.2 2.6	2.9	2.8
					Bottom	9.7	26.6 25.8	26.2	8.2 8.1	8.2	25.0 25.4	25.2	86.6 85.1	85.9	6.0 6.0	6.0	6.0	9.0 8.9	9.0		2.9 2.0	2.5	1
25-May-16	Sunny	Moderate	14:46		Surface	1.0	27.4 27.5	27.5	8.4 8.4	8.4	17.7 17.7	17.7	94.4 94.9	94.7	6.8 6.7	6.7	6.7	8.3 8.2	8.3		4.9 5.1	5.0	
				10.7	Middle	5.4	26.9 27.0	27.0	8.3 8.3	8.3	19.4 17.9	18.7	93.5 93.4	93.5	6.6 6.6	6.6	0.1	8.6 8.5	8.6	8.5	4.2 5.3	4.8	5.6
					Bottom	9.7	26.6 26.4	26.5	8.2 8.2	8.2	22.7 23.3	23.0	90.6 91.5	91.1	6.5 6.6	6.5	6.5	8.7 8.7	8.7		6.7 7.3	7.0	
27-May-16 ***	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
				-	Middle	-	-	-		-		-	-	-		-		-	-	-	-	-	-
					Bottom	-	-	-		-	-	-	-	-		-	-	-	-		-	-	
30-May-16	Sunny	Moderate	13:38		Surface	1.0	28.2 28.1	28.1	8.2 8.2	8.2	12.4 12.4	12.4	95.7 94.5	95.1	7.0 6.9	6.9	6.9	6.8 6.9	6.9		3.6 4.2	3.9	
				10.7	Middle	5.4	27.9 28.1	28.0	8.2 8.2	8.2	13.2 12.7	12.9	93.4 94.7	94.1	6.8 6.9	6.9	0.9	6.9 6.9	6.9	6.9	3.2 4.4	3.8	3.6
					Bottom	9.7	27.9 27.8	27.9	8.2 8.2	8.2	14.5 15.6	15.1	95.2 94.2	94.7	6.9 6.8	6.8	6.8	7.0 7.0	7.0		3.4 2.6	3.0	1

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

Remarks:

* DA: Depth-Averaged

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

Water Quality Monitoring Results at IS10 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Т	urbidity(NT	U)	Suspe	nded Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
2-May-16	Sunny	Moderate	14:43		Surface	1.0	23.3 23.1	23.2	8.2 8.3	8.3	7.6 7.8	7.7	89.4 86.4	87.9	7.3 7.1	7.2	7.1	3.1 3.4	3.3		3.9 3.9	3.9	
				10.4	Middle	5.2	22.7 22.7	22.7	8.2 8.2	8.2	10.6 10.5	10.6	87.2 85.5	86.4	7.1 7.0	7.0	7.1	4.0 4.0	4.0	3.5	4.5 3.7	4.1	4.1
					Bottom	9.4	22.7 22.8	22.8	8.2 8.2	8.2	10.6 10.6	10.6	85.9 88.2	87.1	7.0 7.1	7.1	7.1	3.0 3.3	3.2		4.3 4.2	4.3	
4-May-16	Sunny	Moderate	17:29		Surface	1.0	24.2 24.2	24.2	8.2 8.2	8.2	19.1 20.0	19.6	83.5 83.7	83.6	6.5 6.4	6.5	0.5	3.1 3.1	3.1		4.3 3.6	4.0	
				12.1	Middle	6.1	23.8 23.9	23.9	8.2 8.1	8.2	18.2 19.9	19.1	83.3 83.3	83.3	6.5 6.4	6.4	6.5	3.2 3.3	3.3	3.3	3.2 4.4	3.8	4.1
					Bottom	11.1	23.8 23.8	23.8	8.1 8.1	8.1	19.9 19.3	19.6	83.0 83.0	83.0	6.3 6.4	6.4	6.4	3.5 3.4	3.5		4.0 4.8	4.4	
6-May-16	Sunny	Moderate	19:30		Surface	1.0	25.7 25.6	25.6	8.1 8.1	8.1	16.8 16.8	16.8	84.6 84.6	84.6	6.3 6.3	6.3		5.3 5.2	5.3		5.9 6.8	6.4	
				11.5	Middle	5.8	25.4 25.4	25.4	8.1 8.1	8.1	18.2 18.5	18.4	83.6 82.7	83.2	6.2 6.2	6.2	6.3	5.5 5.6	5.6	5.6	6.7 6.7	6.7	6.5
					Bottom	10.5	25.3 25.4	25.4	8.1 8.0	8.0	19.4 19.0	19.2	82.1 82.3	82.2	6.1 6.1	6.1	6.1	5.8 5.9	5.9		6.3 6.7	6.5	
9-May-16	Sunny	Moderate	07:51		Surface	1.0	25.1 25.3	25.2	8.1 8.1	8.1	7.3 6.8	7.1	78.0 78.2	78.1	6.2 6.2	6.2	6.2	9.5 10.1	9.8		12.2 12.5	12.4	
				10.6	Middle	5.3	24.8 24.8	24.8	8.1 8.1	8.1	9.8 10.2	10.0	76.8 79.2	78.0	6.0 6.2	6.1	6.2	14.3 13.9	14.1	13.0	11.5 12.5	12.0	12.3
					Bottom	9.6	24.8 24.8	24.8	8.1 8.1	8.1	9.9 10.2	10.1	77.4 80.4	78.9	6.1 6.3	6.2	6.2	15.5 14.8	15.2		11.9 12.9	12.4	
11-May-16	Sunny	Moderate	09:20		Surface	1.0	25.7 25.7	25.7	8.0 8.0	8.0	12.9 12.9	12.9	76.1 77.1	76.6	5.8 5.9	5.8	5.7	7.7 7.8	7.8		4.4 4.8	4.6	
				11.1	Middle	5.6	24.8 24.8	24.8	8.0 8.0	8.0	21.1 21.8	21.5	75.7 77.2	76.5	5.6 5.7	5.6	5.7	7.6 7.4	7.5	7.6	4.5 4.9	4.7	4.7
					Bottom	10.1	24.8 24.4	24.6	7.9 8.0	8.0	25.2 25.5	25.3	75.5 77.6	76.6	5.4 5.6	5.5	5.5	7.6 7.5	7.6		4.5 4.8	4.7	
13-May-16	Sunny	Moderate	11:38		Surface	1.0	25.3 25.2	25.2	8.1 8.1	8.1	17.8 17.0	17.4	81.0 78.5	79.8	5.9 5.8	5.9	5.8	3.4 3.4	3.4		3.5 3.0	3.3	
				11.8	Middle	5.9	24.5 24.5	24.5	8.1 8.0	8.0	22.5 23.2	22.9	77.4 79.7	78.6	5.6 5.8	5.7	5.0	5.5 5.4	5.5	4.8	2.8 4.2	3.5	3.5
					Bottom	10.8	24.5 24.2	24.3	8.0 8.0	8.0	26.6 26.9	26.8	76.7 78.1	77.4	5.6 5.7	5.7	5.7	5.5 5.5	5.5		3.3 3.9	3.6	
16-May-16	Sunny	Moderate	16:14		Surface	1.0	26.0 25.7	25.8	8.4 8.4	8.4	15.9 16.0	16.0	95.3 90.0	92.7	6.8 6.7	6.7	6.3	4.4 4.5	4.5		6.3 7.1	6.7	
				10.9	Middle	5.5	24.6 24.6	24.6	8.2 8.2	8.2	25.5 25.6	25.5	81.1 82.0	81.6	6.0 5.9	5.9	0.0	4.6 4.6	4.6	4.6	6.6 6.5	6.6	6.5
					Bottom	9.9	24.6 24.6	24.6	8.2 8.2	8.2	27.5 26.7	27.1	80.5 78.2	79.4	5.7 5.6	5.7	5.7	4.8 4.7	4.8		6.6 5.7	6.2	
18-May-16	Sunny	Moderate	17:53		Surface	1.0	25.4 25.4	25.4	8.6 8.6	8.6	23.6 23.6	23.6	129.1 132.4	130.8	9.3 9.4	9.3	9.3	4.3 4.4	4.4		4.1 4.1	4.1	
				11.0	Middle	5.5	25.3 25.2	25.3	8.6 8.6	8.6	24.8 25.1	25.0	127.8 129.6	128.7	9.2 9.2	9.2	0.0	4.5 4.4	4.5	4.6	4.6 5.1	4.9	4.7
					Bottom	10.0	25.2 25.3	25.3	8.6 8.6	8.6	26.2 25.8	26.0	127.5 127.2	127.4	9.1 9.1	9.1	9.1	4.7 4.8	4.8		5.0 5.2	5.1	
20-May-16	Cloudy	Moderate	18:47		Surface	1.0	25.5 25.4	25.5	8.3 8.3	8.3	21.4 21.9	21.6	93.1 92.9	93.0	6.8 6.7	6.7	6.7	5.5 5.3	5.4		4.0 3.6	3.8	
				10.5	Middle	5.3	25.2 25.2	25.2	8.3 8.3	8.3	25.2 25.6	25.4	92.5 92.5	92.5	6.6 6.6	6.6	0.7	5.5 5.7	5.6	6.2	3.5 3.1	3.3	3.7
					Bottom	9.5	25.2 25.2	25.2	8.3 8.3	8.3	26.2 26.1	26.1	92.2 92.2	92.2	6.5 6.6	6.5	6.5	7.3 7.8	7.6		4.2 4.0	4.1	

* DA: Depth-Averaged

Water Quality Monitoring Results at IS10 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samplin	ıg	Tempera	ature (°C)	F	н	Salini	y (ppt)	DO Satu	ration (%)	Dissolv	ved Oxyger	(mg/L)	Т	urbidity(NTl	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth (m	n)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-May-16	Sunny	Moderate	07:16		Surface	1.0	25.7 25.9	25.8	8.3 8.3	8.3	22.6 22.0	22.3	83.1 84.6	83.9	6.0 6.1	6.0	6.0	7.0 7.5	7.3		4.6 4.8	4.7	
				10.5	Middle	5.3	25.4 25.4	25.4	8.2 8.2	8.2	26.7 26.8	26.8	85.3 82.8	84.1	6.0 5.8	5.9	0.0	7.6 6.8	7.2	7.6	4.0 5.9	5.0	4.6
					Bottom	9.5	25.4 25.5	25.4	8.2 8.2	8.2	26.8 26.7	26.8	88.2 83.1	85.7	6.2 5.9	6.0	6.0	8.2 8.3	8.3		4.2 3.8	4.0	
25-May-16	Sunny	Moderate	08:18		Surface	1.0	26.4 26.5	26.5	8.3 8.3	8.3	21.9 21.5	21.7	84.5 83.7	84.1	6.0 5.9	5.9	5.9	10.4 10.3	10.4		6.9 6.0	6.5	
				10.7	Middle	5.4	26.0 26.1	26.1	8.2 8.2	8.2	25.1 24.9	25.0	82.1 81.4	81.8	5.9 5.8	5.8	5.5	10.5 10.5	10.5	10.6	8.3 7.5	7.9	7.3
					Bottom	9.7	26.3 26.3	26.3	8.2 8.2	8.2	25.7 25.9	25.8	82.3 81.1	81.7	5.8 5.7	5.7	5.7	10.8 10.7	10.8		7.0 8.1	7.6	
27-May-16 ***	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	<u>-</u>
					Bottom	-	-	-		-	-	-		-		-	•	-	-		-	-	
30-May-16	Sunny	Moderate	07:43		Surface	1.0	27.5 27.6	27.6	8.2 8.2	8.2	14.2 14.7	14.5	91.1 90.5	90.8	6.6 6.6	6.6	6.6	6.8 6.9	6.9		2.3 2.0	2.2	
				10.6	Middle	5.3	27.4 27.4	27.4	8.2 8.1	8.2	17.7 18.1	17.9	89.5 90.2	89.9	6.5 6.6	6.5	0.0	7.1 7.0	7.1	7.1	2.3 3.0	2.7	2.5
					Bottom	9.6	27.5 27.6	27.6	8.1 8.2	8.2	18.2 18.2	18.2	88.2 88.1	88.2	6.4 6.3	6.4	6.4	7.2 7.2	7.2		2.8 2.5	2.7	

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

Remarks:

* DA: Depth-Averaged

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

Water Quality Monitoring Results at IS(Mf)11 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Т	urbidity(NT	U)	Suspe	nded Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
2-May-16	Sunny	Moderate	09:40		Surface	1.0	23.0 23.1	23.0	8.2 8.2	8.2	21.5 21.4	21.5	84.4 84.3	84.4	6.4 6.4	6.4	6.0	2.2 2.3	2.3		4.5 5.5	5.0	
				10.4	Middle	5.2	22.4 22.5	22.4	8.1 8.1	8.1	26.8 26.8	26.8	82.8 82.6	82.7	6.2 6.1	6.1	6.3	2.6 3.0	2.8	2.5	5.0 6.1	5.6	5.3
					Bottom	9.4	22.5 22.3	22.4	8.1 8.1	8.1	27.0 27.4	27.2	84.1 83.5	83.8	6.2 6.2	6.2	6.2	2.4 2.6	2.5		4.6 6.0	5.3	ľ
4-May-16	Sunny	Moderate	11:22		Surface	1.0	24.0 24.1	24.0	8.2 8.1	8.2	19.3 19.9	19.6	86.6 86.0	86.3	6.6 6.4	6.5	0.4	2.4 2.3	2.4		2.6 3.3	3.0	
				12.0	Middle	6.0	23.5 23.2	23.3	8.1 8.2	8.1	23.8 21.6	22.7	80.8 83.8	82.3	6.1 6.4	6.2	6.4	2.5 2.6	2.6	2.6	3.5 3.8	3.7	3.4
					Bottom	11.0	22.9 23.4	23.1	8.1 8.0	8.1	27.5 24.0	25.7	83.2 82.5	82.9	6.2 6.1	6.1	6.1	2.8 2.7	2.8		2.8 4.3	3.6	
6-May-16	Sunny	Moderate	12:22		Surface	1.0	25.2 24.7	24.9	8.0 8.1	8.1	18.9 20.2	19.6	82.7 82.9	82.8	6.1 6.1	6.1	6.4	4.1 4.1	4.1		7.1 7.2	7.2	
				11.3	Middle	5.7	24.4 24.9	24.7	8.1 8.0	8.1	21.2 19.3	20.2	82.3 82.3	82.3	6.1 6.0	6.1	6.1	4.3 4.2	4.3	4.3	7.4 7.7	7.6	7.3
					Bottom	10.3	24.7 24.4	24.5	8.0 8.0	8.0	22.1 22.1	22.1	81.6 81.9	81.8	6.1 6.1	6.1	6.1	4.4 4.5	4.5		6.7 7.4	7.1	
9-May-16	Sunny	Moderate	14:48		Surface	1.0	26.0 26.0	26.0	8.0 8.0	8.0	16.0 15.9	15.9	82.9 81.8	82.4	6.2 6.2	6.2	6.1	7.4 7.8	7.6		3.6 3.7	3.7	
				10.3	Middle	5.2	25.0 25.0	25.0	8.0 8.0	8.0	20.4 22.0	21.2	79.6 81.6	80.6	6.0 6.0	6.0	0.1	9.0 8.8	8.9	8.7	4.6 4.7	4.7	3.9
					Bottom	9.3	25.0 24.8	24.9	8.0 7.9	8.0	23.0 23.0	23.0	80.2 83.2	81.7	5.9 6.1	6.0	6.0	9.6 9.3	9.5		3.7 3.1	3.4	
11-May-16	Sunny	Moderate	16:21		Surface	1.0	26.4 26.3	26.4	8.0 8.0	8.0	13.7 11.3	12.5	78.9 77.8	78.4	5.9 5.9	5.9	5.8	4.0 4.0	4.0		5.4 5.6	5.5	
				10.9	Middle	5.5	25.5 25.6	25.5	8.0 8.0	8.0	13.8 13.8	13.8	76.0 76.3	76.2	5.8 5.7	5.7	5.0	6.0 6.2	6.1	5.5	4.6 4.7	4.7	4.9
					Bottom	9.9	24.7 24.8	24.8	7.9 8.0	7.9	20.5 20.6	20.5	77.3 77.3	77.3	5.6 5.7	5.7	5.7	6.5 6.4	6.5		4.4 4.6	4.5	
13-May-16	Sunny	Moderate	18:19		Surface	1.0	25.1 25.1	25.1	8.3 8.3	8.3	20.7 20.7	20.7	83.3 80.9	82.1	6.0 5.9	6.0	6.0	5.0 4.9	5.0		4.8 4.5	4.7	
				10.8	Middle	5.4	24.5 24.5	24.5	8.3 8.3	8.3	23.5 23.8	23.7	81.6 80.2	80.9	6.0 5.8	5.9	0.0	7.1 7.2	7.2	6.5	4.9 5.2	5.1	5.3
					Bottom	9.8	24.5 24.3	24.4	8.2 8.2	8.2	25.9 26.2	26.1	78.0 79.3	78.7	5.7 5.8	5.7	5.7	7.3 7.0	7.2		6.4 5.7	6.1	
16-May-16	Sunny	Moderate	09:22		Surface	1.0	25.4 25.4	25.4	8.2 8.3	8.2	15.5 15.5	15.5	92.5 92.2	92.4	6.9 6.9	6.9	6.9	3.8 3.7	3.8		5.2 4.6	4.9	
				10.9	Middle	5.5	25.4 25.4	25.4	8.2 8.2	8.2	15.5 15.6	15.6	92.1 91.4	91.8	6.9 6.9	6.9		3.8 3.9	3.9	3.9	6.8 5.7	6.3	6.0
					Bottom	9.9	25.5 25.4	25.4	8.2 8.2	8.2	18.0 16.9	17.4	91.3 91.9	91.6	6.9 6.8	6.8	6.8	3.9 3.9	3.9		5.9 7.6	6.8	
18-May-16	Sunny	Moderate	10:35		Surface	1.0	24.9 24.8	24.9	8.4 8.4	8.4	27.7 27.7	27.7	108.9 109.0	109.0	7.7 7.7	7.7	7.7	4.5 4.4	4.5		7.4 7.2	7.3	
				10.9	Middle	5.5	24.8 24.7	24.8	8.4 8.4	8.4	27.8 27.9	27.8	108.4 108.7	108.6	7.7 7.7	7.7		4.5 4.6	4.6	4.6	7.4 7.2	7.3	7.8
					Bottom	9.9	24.8 24.8	24.8	8.4 8.4	8.4	27.8 28.0	27.9	106.4 107.4	106.9	7.5 7.6	7.6	7.6	4.7 4.7	4.7		9.2 8.6	8.9	
20-May-16	Rainy	Moderate	12:20		Surface	1.0	25.3 25.3	25.3	8.3 8.3	8.3	24.4 24.3	24.3	94.2 94.9	94.6	6.8 6.8	6.8	6.7	6.7 6.4	6.6		6.5 6.4	6.5	
				10.7	Middle	5.4	25.0 25.0	25.0	8.2 8.3	8.3	27.0 27.1	27.1	92.9 93.0	93.0	6.6 6.6	6.6		8.8 8.3	8.6	7.9	5.6 5.2	5.4	5.7
					Bottom	9.7	25.1 25.1	25.1	8.3 8.2	8.2	27.0 27.1	27.1	93.6 93.8	93.7	6.6 6.6	6.6	6.6	8.7 8.5	8.6		5.5 4.9	5.2	

* DA: Depth-Averaged

Water Quality Monitoring Results at IS(Mf)11 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samplir	ng	Tempera	ature (°C)	p	Н	Salinit	ty (ppt)	DO Satu	ration (%)	Dissolv	ved Oxygen	(mg/L)	Т	urbidity(NTL	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth (I	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-May-16	Sunny	Moderate	13:55		Surface	1.0	26.6 26.8	26.7	8.3 8.3	8.3	18.6 18.5	18.6	87.5 89.8	88.7	6.3 6.5	6.4	6.2	7.0 6.7	6.9		3.0 2.9	3.0	
				10.6	Middle	5.3	25.6 25.6	25.6	8.2 8.2	8.2	25.8 25.5	25.7	84.1 85.2	84.7	5.9 6.0	6.0	0.2	8.3 8.8	8.6	8.0	3.0 3.0	3.0	3.0
					Bottom	9.6	25.6 25.6	25.6	8.2 8.2	8.2	26.2 26.0	26.1	85.9 88.6	87.3	6.1 6.3	6.2	6.2	8.7 8.5	8.6		2.6 3.1	2.9	
25-May-16	Sunny	Moderate	14:56		Surface	1.0	27.7 27.2	27.5	8.4 8.4	8.4	17.6 19.2	18.4	95.4 96.0	95.7	6.7 6.8	6.7	6.7	9.2 9.2	9.2		5.8 6.6	6.2	
				10.6	Middle	5.3	26.3 26.7	26.5	8.3 8.4	8.3	22.7 21.0	21.8	93.3 92.5	92.9	6.6 6.6	6.6	0.7	9.5 9.3	9.4	9.4	6.6 5.1	5.9	5.5
					Bottom	9.6	26.9 26.2	26.6	8.4 8.3	8.3	22.8 25.0	23.9	89.2 92.0	90.6	6.3 6.6	6.4	6.4	9.6 9.7	9.7		4.4 4.3	4.4	
27-May-16 ***	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	-		-		-		-		-		-	-	-	-	-	-	-	-
					Bottom	-		-		-	-	-		-		-	-	-	-		-	-	
30-May-16	Sunny	Moderate	13:48		Surface	1.0	28.1 28.0	28.1	8.3 8.3	8.3	12.5 12.4	12.4	97.9 97.7	97.8	7.1 7.1	7.1	7.1	6.5 6.5	6.5		3.3 2.9	3.1	
				10.8	Middle	5.4	28.0 27.8	27.9	8.3 8.2	8.2	12.7 14.2	13.4	95.9 97.2	96.6	7.0 7.1	7.1	7.1	6.6 6.5	6.6	6.6	2.8 2.8	2.8	3.4
					Bottom	9.8	28.0 27.7	27.9	8.3 8.2	8.2	14.5 16.0	15.3	94.6 95.9	95.3	6.9 6.9	6.9	6.9	6.7 6.6	6.7		3.4 5.1	4.3	

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

Remarks:

* DA: Depth-Averaged

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

Water Quality Monitoring Results at IS(Mf)11 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	Н	Salini	ity (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	1	Furbidity(NT	U)	Suspe	nded Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
2-May-16	Sunny	Moderate	14:52		Surface	1.0	23.1 22.9	23.0	8.2 8.3	8.2	10.9 8.9	9.9	85.2 84.0	84.6	6.9 6.9	6.9		4.7 5.1	4.9		4.4 3.1	3.8	
				10.3	Middle	5.2	22.5 22.5	22.5	8.2 8.2	8.2	15.6 13.2	14.4	85.0 83.0	84.0	6.7 6.7	6.7	6.8	6.2 6.2	6.2	5.7	4.6 4.0	4.3	4.3
					Bottom	9.3	22.5 22.6	22.6	8.2 8.2	8.2	14.0 16.9	15.4	84.8 87.4	86.1	6.8 6.9	6.8	6.8	5.9 6.0	6.0		5.2	4.7	
4-May-16	Sunny	Moderate	17:37		Surface	1.0	24.6 24.5	24.6	8.1 8.1	8.1	20.7	20.2	87.2 89.4	88.3	6.8 6.8	6.8		2.4 2.3	2.4		2.8 4.0	3.4	
				12.1	Middle	6.1	24.4 24.5	24.5	8.1 8.1	8.1	19.4 18.7	19.0	88.5 86.5	87.5	6.8 6.7	6.8	6.8	2.5 2.6	2.6	2.6	3.5 3.6	3.6	4.0
					Bottom	11.1	24.3 24.3	24.3	8.0 8.1	8.1	19.4 21.1	20.2	86.6 88.9	87.8	6.6 6.7	6.6	6.6	2.8	2.8		5.0 5.0	5.1	
6-May-16	Sunny	Moderate	19:43		Surface	1.0	24.9 24.9 24.9	24.9	8.2 8.1	8.1	20.8	20.9	87.0 88.6	87.8	6.4 6.5	6.4		4.8 4.8	4.8		5.6 4.5	5.1	
				11.4	Middle	5.7	24.9 24.8 24.8	24.8	8.1 8.1	8.1	21.9 22.8	22.3	85.4 86.7	86.1	6.3 6.3	6.3	6.4	5.0 5.0	5.0	5.0	6.4 6.5	6.5	6.5
					Bottom	10.4	24.7 24.6	24.7	8.1 8.0	8.0	23.0	22.9	85.6 84.7	85.2	6.2 6.2	6.2	6.2	5.2 5.1	5.2		8.4 7.2	7.8	
9-May-16	Sunny	Moderate	07:42		Surface	1.0	25.4 25.3	25.3	8.0 8.0	8.0	8.1 7.9	8.0	77.5 76.6	77.1	6.1 6.0	6.1		8.7 8.9	8.8		3.9 4.6	4.3	
				10.4	Middle	5.2	25.1 25.1	25.1	8.0 8.0	8.0	9.5	9.5	76.1	76.4	5.9 6.0	6.0	6.1	14.5 14.5	14.5	12.5	4.1	4.3	4.7
					Bottom	9.4	25.1 25.0	25.1	8.0 8.0	8.0	9.5 10.9	10.2	76.6	76.9	6.0 6.0	6.0	6.0	14.4	14.1		6.2 5.0	5.6	
11-May-16	Sunny	Moderate	09:10		Surface	1.0	25.6 25.5	25.5	8.0 8.0	8.0	14.6 15.7	15.2	76.2 75.7	76.0	5.7 5.7	5.7		4.4	4.4		4.1	4.1	
				10.6	Middle	5.3	24.9 24.8	24.9	8.0 8.0	8.0	20.7 20.8	20.7	75.0 74.7	74.9	5.5 5.5	5.5	5.6	4.6 4.6	4.6	4.5	4.0	4.0	3.9
					Bottom	9.6	24.7 24.9	24.8	7.9 7.9	7.9	22.4 22.1	22.3	74.8 75.2	75.0	5.5 5.5	5.5	5.5	4.5 4.6	4.6		4.0	3.6	
13-May-16	Sunny	Moderate	11:26		Surface	1.0	25.2 25.1	25.2	8.1 8.0	8.0	19.3 19.2	19.3	80.0 85.2	82.6	5.9 6.1	6.0		4.2 4.4	4.3		3.0 3.7	3.4	
				12.4	Middle	6.2	24.6 24.5	24.6	8.0 8.0	8.0	22.4 22.6	22.5	81.4 79.3	80.4	6.0 5.7	5.9	6.0	4.6 4.5	4.6	4.5	9.8 9.5	9.7	8.0
					Bottom	11.4	24.1 24.3	24.2	7.9 8.0	7.9	27.3 27.2	27.2	80.0 77.0	78.5	5.9 5.6	5.8	5.8	4.5 4.5	4.5		11.0 10.6	10.8	
16-May-16	Sunny	Moderate	16:27		Surface	1.0	26.1 26.2	26.2	8.6 8.5	8.6	17.9 17.8	17.9	129.1 128.1	128.6	9.5 9.4	9.4	9.2	4.2 4.1	4.2		7.4 7.7	7.6	
				10.9	Middle	5.5	26.0 26.0	26.0	8.5 8.5	8.5	18.0 18.1	18.1	121.6 123.9	122.8	8.9 8.9	8.9	9.2	4.2 4.3	4.3	4.3	7.3 7.8	7.6	8.0
					Bottom	9.9	25.5 25.7	25.6	8.5 8.4	8.5	19.6 22.3	20.9	121.5 121.2	121.4	8.9 8.9	8.9	8.9	4.4 4.4	4.4		8.7 9.0	8.9	
18-May-16	Sunny	Moderate	18:05		Surface	1.0	25.0 25.0	25.0	8.6 8.5	8.5	27.4 27.4	27.4	114.2 113.9	114.1	8.1 8.1	8.1	8.0	5.4 5.4	5.4		5.6 5.6	5.6	
				10.9	Middle	5.5	25.0 25.0	25.0	8.5 8.6	8.5	27.6 27.8	27.7	112.9 112.3	112.6	8.0 7.9	7.9	0.0	5.6 5.5	5.6	5.6	5.1 5.6	5.4	5.9
					Bottom	9.9	25.0 24.8	24.9	8.6 8.5	8.5	27.7 28.7	28.2	109.6 109.2	109.4	7.8 7.7	7.7	7.7	5.7 5.8	5.8		6.0 7.2	6.6	
20-May-16	Cloudy	Moderate	18:59		Surface	1.0	25.1 25.2	25.2	8.3 8.3	8.3	26.3 25.7	26.0	93.0 93.4	93.2	6.6 6.7	6.6	6.6	6.3 6.0	6.2		6.0 4.9	5.5	
				10.8	Middle	5.4	25.0 25.0	25.0	8.3 8.3	8.3	27.6 27.8	27.7	92.2 93.2	92.7	6.5 6.6	6.5	0.0	7.2 7.3	7.3	7.1	5.6 5.2	5.4	5.4
					Bottom	9.8	25.0 25.0	25.0	8.3 8.3	8.3	27.8 27.7	27.7	94.1 92.7	93.4	6.6 6.5	6.6	6.6	7.5 7.8	7.7		5.1 5.7	5.4	

* DA: Depth-Averaged

Water Quality Monitoring Results at IS(Mf)11 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Sampli	ing	Tempera	ature (°C)	p	Н	Salinit	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	i (mg/L)	Т	urbidity(NTL	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth ((m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-May-16	Sunny	Moderate	07:07		Surface	1.0	25.9 25.9	25.9	8.3 8.3	8.3	21.6 21.6	21.6	84.2 84.3	84.3	6.1 6.1	6.1	6.0	5.7 6.1	5.9		4.6 3.8	4.2	
				10.7	Middle	5.4	25.3 25.3	25.3	8.2 8.2	8.2	27.8 27.8	27.8	82.7 82.4	82.6	5.8 5.8	5.8	6.0	5.7 5.9	5.8	6.4	4.6 3.6	4.1	3.9
					Bottom	9.7	25.5 25.4	25.4	8.2 8.2	8.2	27.7 27.8	27.8	83.4 83.7	83.6	5.8 5.9	5.9	5.9	7.7 7.4	7.6		3.5 3.2	3.4	
25-May-16	Sunny	Moderate	08:07		Surface	1.0	26.7 26.4	26.6	8.3 8.3	8.3	20.2 20.7	20.5	86.5 85.4	86.0	6.2 6.0	6.1	6.1	8.4 8.5	8.5		11.6 10.2	10.9	
				10.7	Middle	5.4	26.6 26.3	26.5	8.3 8.2	8.3	20.5 22.4	21.5	85.5 83.9	84.7	6.1 6.0	6.1	0.1	8.6 8.6	8.6	8.6	3.8 5.4	4.6	7.5
					Bottom	9.7	26.3 26.3	26.3	8.2 8.2	8.2	23.9 23.5	23.7	86.2 84.0	85.1	6.1 6.0	6.0	6.0	8.8 8.7	8.8		7.0 7.1	7.1	
27-May-16 ***	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<u>-</u>
					Bottom	-		-		-		-		-	-	-	-	-	-		-	-	
30-May-16	Sunny	Moderate	07:29		Surface	1.0	27.8 27.8	27.8	8.3 8.3	8.3	12.7 12.7	12.7	90.3 92.2	91.3	6.6 6.8	6.7	6.7	7.2 7.1	7.2		2.4 2.3	2.4	
				10.7	Middle	5.4	27.6 27.6	27.6	8.3 8.3	8.3	13.1 13.2	13.1	91.4 90.6	91.0	6.5 6.6	6.6	0.7	7.3 7.4	7.4	7.4	2.8 2.0	2.4	2.4
					Bottom	9.7	27.6 27.4	27.5	8.2 8.2	8.2	18.0 19.7	18.9	88.3 90.3	89.3	6.5 6.4	6.4	6.4	7.5 7.5	7.5		2.8 2.2	2.5	

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

Remarks:

* DA: Depth-Averaged

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

Water Quality Monitoring Results at IS(Mf)16 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Т	urbidity(NT	U)	Suspe	nded Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
2-May-16	Sunny	Moderate	10:07		Surface	1.0	23.0 22.8	22.9	8.4 8.4	8.4	25.1 26.0	25.6	89.4 88.8	89.1	6.6 6.6	6.6		3.3 3.3	3.3		4.4 4.5	4.5	
				6.3	Middle	3.2	22.5 22.5	22.5	8.3 8.4	8.4	27.2 27.1	27.2	88.4 87.9	88.2	6.5 6.5	6.5	6.6	3.3 3.3	3.3	3.3	5.0 3.9	4.5	4.5
					Bottom	5.3	22.6 22.3	22.4	8.3 8.3	8.3	28.5 28.8	28.7	88.6 89.7	89.2	6.5 6.6	6.6	6.6	3.3	3.3		4.8	4.4	
4-May-16	Sunny	Moderate	11:20		Surface	1.0	24.0 24.2	24.1	8.4 8.4	8.4	18.3 18.3	18.3	86.5 87.2	86.9	6.6 6.6	6.6		3.8 3.6	3.7		2.5 2.7	2.6	
				6.3	Middle	3.2	23.4 23.4	23.4	8.3 8.3	8.3	23.1 23.1	23.1	84.7 85.2	85.0	6.3 6.4	6.3	6.5	4.9 4.6	4.8	4.3	3.8 2.1	3.0	3.2
					Bottom	5.3	23.5 23.5	23.5	8.3 8.3	8.3	25.5 25.4	25.4	86.8 86.4	86.6	6.4 6.3	6.4	6.4	4.4	4.4		3.6 4.4	4.0	
6-May-16	Sunny	Moderate	13:01		Surface	1.0	24.6 24.8	24.7	8.4 8.4	8.4	23.7 23.9	23.8	88.5 90.6	89.6	6.4 6.5	6.5		5.4 5.5	5.5	-	2.8 3.6	3.2	
				6.1	Middle	3.1	24.0 24.4	24.2	8.3 8.3	8.3	25.7 24.8	25.2	87.5 89.9	88.7	6.4 6.5	6.4	6.5	5.3 5.5	5.4	5.4	2.5	3.1	4.0
					Bottom	5.1	24.2 24.4	24.3	8.3 8.3	8.3	27.1 26.4	26.7	87.1 89.1	88.1	6.3 6.5	6.4	6.4	5.4 5.4	5.4		4.8 6.3	5.6	
9-May-16	Sunny	Moderate	14:28		Surface	1.0	25.5 25.7	25.6	8.3 8.3	8.3	20.9 20.3	20.6	80.4 81.9	81.2	5.8 5.9	5.9	5.0	5.7 5.8	5.8		6.5 6.7	6.6	
				6.3	Middle	3.2	25.2 25.0	25.1	8.3 8.3	8.3	22.2 22.5	22.3	80.2 81.8	81.0	5.8 5.9	5.9	5.9	5.7 5.7	5.7	5.8	6.4 6.0	6.2	6.1
					Bottom	5.3	25.1 24.9	25.0	8.3 8.3	8.3	23.0 23.4	23.2	79.9 81.1	80.5	5.8 5.9	5.8	5.8	5.9 5.7	5.8		5.3 5.6	5.5	
11-May-16	Sunny	Moderate	15:40		Surface	1.0	26.2 26.0	26.1	8.2 8.2	8.2	15.7 15.9	15.8	90.6 82.6	86.6	6.6 6.1	6.3	6.3	4.6 4.5	4.6		4.5 4.2	4.4	
				7.0	Middle	3.5	25.5 24.8	25.1	8.2 8.2	8.2	17.8 18.5	18.1	86.9 81.0	84.0	6.4 6.1	6.2	0.5	4.7 4.7	4.7	4.7	4.7 4.8	4.8	4.3
					Bottom	6.0	24.2 24.5	24.4	8.1 8.1	8.1	25.6 25.6	25.6	86.0 81.0	83.5	6.4 5.8	6.1	6.1	4.8 4.7	4.8		3.8 3.8	3.8	
13-May-16	Sunny	Moderate	18:14		Surface	1.0	25.4 25.4	25.4	8.3 8.3	8.3	20.2 20.1	20.1	93.2 93.5	93.4	6.8 6.8	6.8	6.8	5.0 5.1	5.1		7.4 7.2	7.3	
				6.6	Middle	3.3	25.2 25.3	25.3	8.2 8.2	8.2	20.2 20.2	20.2	93.1 92.9	93.0	6.8 6.8	6.8	0.8	5.3 5.2	5.3	5.3	6.0 7.5	6.8	7.2
					Bottom	5.6	25.2 25.4	25.3	8.2 8.2	8.2	21.4 20.5	20.9	92.5 92.4	92.5	6.8 6.8	6.8	6.8	5.4 5.3	5.4		6.7 8.1	7.4	
16-May-16	Sunny	Moderate	10:16		Surface	1.0	25.7 25.6	25.6	8.4 8.4	8.4	20.6 19.7	20.2	98.6 100.8	99.7	7.2 7.4	7.3	7.1	3.2 3.3	3.3		4.2 4.6	4.4	
				6.1	Middle	3.1	25.0 25.2	25.1	8.3 8.3	8.3	24.9 23.0	24.0	99.2 95.7	97.5	6.9 6.7	6.8		3.2 3.4	3.3	3.4	3.4 3.7	3.6	4.0
					Bottom	5.1	25.0 24.4	24.7	8.3 8.2	8.2	29.4 30.0	29.7	95.3 92.9	94.1	6.8 6.7	6.8	6.8	3.4 3.5	3.5		3.9 3.9	3.9	
18-May-16	Sunny	Moderate	11:14		Surface	1.0	24.9 24.9	24.9	8.5 8.5	8.5	28.0 28.0	28.0	96.2 95.8	96.0	6.7 6.8	6.7	6.7	4.0 3.9	4.0		7.4 6.3	6.9	
				7.1	Middle	3.6	24.6 24.6	24.6	8.5 8.5	8.5	29.5 29.7	29.6	93.9 94.4	94.2	6.6 6.7	6.6		4.1 4.1	4.1	4.1	7.2 7.7	7.5	7.7
					Bottom	6.1	24.6 24.6	24.6	8.5 8.5	8.5	30.8 30.8	30.8	91.6 90.1	90.9	6.4 6.3	6.4	6.4	4.1 4.2	4.2		8.9 8.6	8.8	
20-May-16	Rainy	Moderate	12:40		Surface	1.0	25.2 25.2	25.2	8.5 8.5	8.5	25.8 25.6	25.7	95.8 95.7	95.8	6.8 6.8	6.8	6.7	6.7 6.5	6.6		4.3 4.5	4.4	
				6.2	Middle	3.1	25.1 25.2	25.1	8.4 8.4	8.4	28.2 27.3	27.7	93.7 95.3	94.5	6.6 6.7	6.6		6.6 6.7	6.7	6.7	4.9 5.1	5.0	5.0
					Bottom	5.2	25.1 25.0	25.0	8.4 8.4	8.4	28.6 28.9	28.7	95.1 93.4	94.3	6.7 6.6	6.6	6.6	6.8 6.8	6.8		4.9 6.3	5.6	

* DA: Depth-Averaged

Water Quality Monitoring Results at IS(Mf)16 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Temper	ature (°C)	p	н	Salinit	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	i (mg/L)	Т	urbidity(NTL	J)	Suspe	nded Solids	; (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-May-16	Sunny	Moderate	13:29		Surface	1.0	26.3 26.1	26.2	8.4 8.4	8.4	22.5 23.4	22.9	85.3 84.8	85.1	6.1 6.0	6.0	6.0	7.2 7.5	7.4		4.7 4.9	4.8	
				6.1	Middle	3.1	25.7 25.7	25.7	8.4 8.4	8.4	24.8 25.0	24.9	83.5 83.7	83.6	5.9 5.9	5.9	0.0	7.4 7.2	7.3	7.4	4.3 4.3	4.3	4.5
					Bottom	5.1	25.7 25.6	25.6	8.3 8.4	8.4	26.1 26.5	26.3	84.2 84.7	84.5	5.9 6.0	5.9	5.9	7.4 7.4	7.4		3.9 4.9	4.4	
25-May-16	Sunny	Moderate	14:42		Surface	1.0	27.4 27.1	27.2	8.5 8.5	8.5	21.2 21.3	21.2	104.6 94.8	99.7	7.4 6.6	7.0	6.8	7.0 7.0	7.0		8.0 7.8	7.9	
				7.1	Middle	3.6	26.2 26.3	26.2	8.4 8.4	8.4	24.4 24.3	24.4	95.8 92.3	94.1	6.7 6.5	6.6	0.0	7.0 7.0	7.0	7.1	12.2 11.8	12.0	11.1
					Bottom	6.1	26.0 26.2	26.1	8.4 8.4	8.4	27.4 27.5	27.5	91.3 88.6	90.0	6.4 6.2	6.3	6.3	7.2 7.1	7.2		13.7 13.2	13.5	
27-May-16 ***	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
				-	Middle	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Bottom	-	-	-		-	-	-		-	-	-	-	-	-		-	-	
30-May-16	Sunny	Moderate	12:46		Surface	1.0	27.9 28.0	28.0	8.4 8.4	8.4	17.2 17.2	17.2	95.4 93.8	94.6	6.8 6.7	6.7	6.7	5.2 5.1	5.2		3.1 2.9	3.0	
				6.2	Middle	3.1	27.6 27.7	27.7	8.4 8.4	8.4	17.6 17.6	17.6	93.2 95.1	94.2	6.5 6.7	6.6	0.7	5.3 5.3	5.3	5.3	2.7 3.2	3.0	3.1
					Bottom	5.2	27.7 27.4	27.6	8.3 8.3	8.3	23.3 23.9	23.6	94.0 91.0	92.5	6.6 6.5	6.5	6.5	5.3 5.3	5.3		3.0 3.7	3.4	

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

Remarks:

* DA: Depth-Averaged

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

Water Quality Monitoring Results at IS(Mf)16 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Т	Furbidity(NT	U)	Suspe	nded Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
2-May-16	Sunny	Moderate	14:28		Surface	1.0	23.6 23.5	23.5	8.5 8.5	8.5	24.9 24.9	24.9	96.6 95.1	95.9	7.1 7.0	7.1	7.0	2.4 2.3	2.4		3.3 3.5	3.4	
				6.3	Middle	3.2	22.9 23.1	23.0	8.4 8.4	8.4	26.4 26.1	26.2	93.1 93.0	93.1	6.8 6.8	6.8	7.0	2.4 2.3	2.4	2.4	2.8 3.8	3.3	3.2
					Bottom	5.3	22.4 22.5	22.5	8.4 8.4	8.4	28.5 28.4	28.4	92.8 92.0	92.4	6.8 6.8	6.8	6.8	2.4 2.2	2.3		3.8 2.2	3.0	
4-May-16	Sunny	Moderate	16:45		Surface	1.0	24.7 24.6	24.7	8.5 8.5	8.5	20.5 20.5	20.5	99.2 99.9	99.6	7.3 7.4	7.4	= 0	3.1 3.0	3.1		3.4 4.0	3.7	
				6.3	Middle	3.2	24.2 24.2	24.2	8.4 8.4	8.4	21.7 21.8	21.8	96.6 98.1	97.4	7.2 7.3	7.2	7.3	3.6 3.4	3.5	3.3	3.3 3.6	3.5	3.7
					Bottom	5.3	24.0 24.1	24.1	8.4 8.4	8.4	23.2 23.1	23.1	96.2 98.9	97.6	7.1 7.3	7.2	7.2	3.5 3.3	3.4		3.9 3.9	3.9	
6-May-16	Sunny	Moderate	18:30		Surface	1.0	25.0 24.9	24.9	8.4 8.4	8.4	23.7 23.9	23.8	90.0 89.4	89.7	6.5 6.5	6.5	0.5	6.3 6.4	6.4		5.0 6.2	5.6	
				6.1	Middle	3.1	24.7 24.8	24.8	8.4 8.4	8.4	24.4 24.4	24.4	89.1 89.7	89.4	6.4 6.5	6.5	6.5	6.6 6.3	6.5	6.6	5.8 5.0	5.4	5.7
					Bottom	5.1	24.8 24.9	24.8	8.4 8.4	8.4	25.0 24.7	24.8	88.9 89.4	89.2	6.4 6.4	6.4	6.4	6.8 7.0	6.9		5.9 6.1	6.0	
9-May-16	Sunny	Moderate	08:12		Surface	1.0	25.4 25.3	25.3	8.3 8.3	8.3	18.9 20.3	19.6	82.0 88.7	85.4	6.0 6.4	6.2	6.2	5.1 5.1	5.1		3.4 3.8	3.6	
				6.2	Middle	3.1	25.2 25.1	25.1	8.3 8.3	8.3	21.2 21.2	21.2	81.3 85.5	83.4	6.0 6.3	6.1	0.2	5.2 5.2	5.2	5.2	6.0 6.3	6.2	5.4
					Bottom	5.2	25.0 25.2	25.1	8.3 8.3	8.3	22.7 22.4	22.6	83.9 81.1	82.5	6.2 5.9	6.0	6.0	5.2 5.1	5.2		6.5 6.1	6.3	
11-May-16	Sunny	Moderate	09:26		Surface	1.0	25.6 25.6	25.6	8.2 8.2	8.2	14.6 14.5	14.6	80.7 97.2	89.0	5.9 7.1	6.5	6.4	4.7 4.7	4.7		3.6 4.3	4.0	
				7.0	Middle	3.5	25.4 25.2	25.3	8.2 8.1	8.2	17.7 18.3	18.0	89.6 79.8	84.7	6.7 5.9	6.3	0.4	5.0 4.8	4.9	4.9	3.7 3.7	3.7	3.6
					Bottom	6.0	25.4 25.2	25.3	8.1 8.1	8.1	21.2 21.2	21.2	78.8 83.7	81.3	5.9 6.3	6.1	6.1	5.0 5.0	5.0		3.3 3.0	3.2	
13-May-16	Sunny	Moderate	11:09		Surface	1.0	25.3 25.3	25.3	8.3 8.3	8.3	20.0 20.0	20.0	87.9 86.9	87.4	6.4 6.4	6.4	6.4	3.9 3.8	3.9		2.8 3.2	3.0	
				6.8	Middle	3.4	25.3 25.2	25.2	8.3 8.3	8.3	20.0 20.1	20.1	87.9 86.8	87.4	6.3 6.3	6.3	0.4	4.1 4.1	4.1	4.1	5.8 5.6	5.7	4.8
					Bottom	5.8	25.3 25.2	25.2	8.3 8.2	8.3	21.7 23.4	22.5	86.1 85.6	85.9	6.3 6.3	6.3	6.3	4.2 4.3	4.3		5.3 5.8	5.6	
16-May-16	Sunny	Moderate	15:20		Surface	1.0	26.2 26.0	26.1	8.7 8.6	8.6	17.3 17.4	17.4	107.1 103.7	105.4	7.6 7.6	7.6	7.5	6.1 6.1	6.1		9.4 10.0	9.7	
				6.4	Middle	3.2	24.9 25.2	25.0	8.5 8.5	8.5	23.1 23.6	23.3	102.6 100.1	101.4	7.5 7.2	7.4	1.0	6.1 6.2	6.2	6.2	8.6 8.8	8.7	9.7
					Bottom	5.4	24.5 24.6	24.6	8.5 8.5	8.5	27.7 27.2	27.4	92.6 89.5	91.1	6.6 6.5	6.5	6.5	6.2 6.2	6.2		10.4 10.8	10.6	
18-May-16	Sunny	Moderate	16:40		Surface	1.0	25.1 24.9	25.0	8.6 8.6	8.6	27.2 27.2	27.2	105.2 101.3	103.3	7.4 7.2	7.3	7.2	6.9 6.9	6.9		4.8 6.4	5.6	
				7.1	Middle	3.6	24.6 24.6	24.6	8.5 8.6	8.6	28.3 28.7	28.5	101.3 99.4	100.4	7.1 7.1	7.1		6.9 6.9	6.9	7.0	5.6 5.1	5.4	5.3
					Bottom	6.1	24.6 24.5	24.6	8.5 8.6	8.6	29.5 29.3	29.4	97.8 97.2	97.5	6.9 6.9	6.9	6.9	7.1 7.0	7.1		4.5 5.1	4.8	
20-May-16	Cloudy	Moderate	18:32		Surface	1.0	25.2 25.3	25.3	8.5 8.5	8.5	25.7 24.7	25.2	96.5 97.1	96.8	6.9 6.9	6.9	6.9	10.1 10.4	10.3		3.6 3.6	3.6	
				6.4	Middle	3.2	25.2 25.1	25.2	8.5 8.5	8.5	26.9 27.3	27.1	96.5 95.8	96.2	6.8 6.8	6.8	0.0	10.6 10.6	10.6	10.5	3.3 2.9	3.1	3.1
					Bottom	5.4	25.1 25.2	25.2	8.5 8.5	8.5	28.4 28.5	28.5	96.2 96.3	96.3	6.8 6.7	6.7	6.7	10.5 10.7	10.6		2.2 2.9	2.6	

* DA: Depth-Averaged

Water Quality Monitoring Results at IS(Mf)16 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Sampl	ing	Tempera	ature (°C)	p	Н	Salinit	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	i (mg/L)	Т	urbidity(NTL	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-May-16	Sunny	Moderate	07:25		Surface	1.0	25.7 25.8	25.8	8.3 8.4	8.4	23.8 23.6	23.7	83.5 85.9	84.7	6.0 6.1	6.0	6.0	4.6 4.6	4.6		4.4 4.9	4.7	
				6.2	Middle	3.1	25.6 25.6	25.6	8.3 8.3	8.3	25.0 26.1	25.6	86.8 83.5	85.2	6.2 5.9	6.0	6.0	4.7 4.5	4.6	4.6	4.5 5.5	5.0	4.9
					Bottom	5.2	25.6 25.5	25.6	8.3 8.3	8.3	26.4 26.5	26.5	84.3 90.6	87.5	5.9 6.4	6.2	6.2	4.5 4.6	4.6		4.5 5.5	5.0	
25-May-16	Sunny	Moderate	08:07		Surface	1.0	26.6 26.7	26.6	8.3 8.3	8.3	21.0 20.9	21.0	83.3 86.2	84.8	5.9 6.1	6.0	5.9	3.8 4.0	3.9		7.9 8.7	8.3	
				7.2	Middle	3.6	26.2 26.4	26.3	8.3 8.3	8.3	22.5 22.0	22.3	82.6 82.5	82.6	5.8 5.8	5.8	5.5	4.0 4.0	4.0	4.0	9.1 8.7	8.9	7.6
					Bottom	6.2	26.3 26.1	26.2	8.3 8.3	8.3	25.3 25.4	25.4	82.1 82.0	82.1	5.8 5.8	5.8	5.8	4.1 4.0	4.1		4.8 6.2	5.5	
27-May-16 ***	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Bottom	-	-	-		-		-		-	-	-	-	-	-		-	-	
30-May-16	Sunny	Moderate	08:19		Surface	1.0	28.0 28.0	28.0	8.3 8.3	8.3	15.5 15.7	15.6	99.6 96.9	98.3	7.2 7.0	7.1	7.0	3.6 3.6	3.6		5.0 5.4	5.2	
				6.2	Middle	3.1	27.9 27.8	27.8	8.3 8.3	8.3	17.1 17.2	17.2	97.2 93.1	95.2	6.9 6.7	6.8	7.0	3.7 3.6	3.7	3.7	4.8 5.1	5.0	5.5
					Bottom	5.2	27.3 27.7	27.5	8.2 8.2	8.2	21.8 21.3	21.6	92.4 96.4	94.4	6.5 6.7	6.6	6.6	3.7 3.9	3.8		6.7 5.7	6.2	

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

Remarks:

* DA: Depth-Averaged

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

Water Quality Monitoring Results at IS5 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ved Oxyger	(mg/L)	1	Turbidity(NTL	J)	Suspe	nded Solids	; (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
2-May-16	Sunny	Moderate	10:55		Surface	1.0	23.3 23.2	23.2	8.4 8.4	8.4	24.1 24.1	24.1	93.3 91.8	92.6	6.9 6.8	6.9	6.9	4.5 4.5	4.5		7.6 7.5	7.6	
				8.3	Middle	4.2	23.0 22.9	22.9	8.4 8.4	8.4	25.5 25.6	25.5	92.0 90.8	91.4	6.8 6.7	6.8	0.9	4.4 4.4	4.4	4.4	5.9 6.1	6.0	7.1
					Bottom	7.3	23.1 22.8	23.0	8.4 8.4	8.4	25.6 26.0	25.8	92.1 90.2	91.2	6.8 6.7	6.7	6.7	4.4 4.4	4.4		8.0 7.3	7.7	
4-May-16	Sunny	Moderate	12:25		Surface	1.0	24.0 24.2	24.1	8.5 8.5	8.5	21.0 21.2	21.1	87.8 90.9	89.4	6.6 6.8	6.7	6.6	6.2 6.4	6.3		3.4 3.6	3.5	
				8.3	Middle	4.2	23.1 23.5	23.3	8.4 8.4	8.4	26.5 24.5	25.5	85.3 88.2	86.8	6.3 6.5	6.4	0.0	8.3 8.9	8.6	7.8	3.5 3.3	3.4	3.6
					Bottom	7.3	23.6 23.0	23.3	8.4 8.4	8.4	26.0 28.0	27.0	88.8 86.0	87.4	6.5 6.3	6.4	6.4	8.9 8.0	8.5		3.5 4.0	3.8	
6-May-16	Sunny	Moderate	13:50		Surface	1.0	24.8 24.8	24.8	8.3 8.3	8.3	23.9 23.9	23.9	87.3 87.3	87.3	6.3 6.3	6.3	6.3	8.6 8.9	8.8		8.3 8.9	8.6	
				7.9	Middle	4.0	24.7 24.7	24.7	8.3 8.3	8.3	24.1 24.1	24.1	87.0 87.1	87.1	6.3 6.3	6.3	0.5	8.8 8.8	8.8	8.9	8.4 9.6	9.0	9.1
					Bottom	6.9	24.7 24.6	24.7	8.3 8.3	8.3	24.1 24.2	24.2	87.2 87.1	87.2	6.3 6.3	6.3	6.3	9.0 8.9	9.0		9.5 10.1	9.8	
9-May-16	Sunny	Moderate	13:36		Surface	1.0	25.6 25.6	25.6	8.5 8.5	8.5	20.1 19.9	20.0	83.8 85.2	84.5	6.1 6.2	6.2	6.2	11.1 11.2	11.2		15.0 15.3	15.2	
				8.6	Middle	4.3	25.5 25.5	25.5	8.5 8.5	8.5	20.1 20.3	20.2	84.7 83.7	84.2	6.2 6.1	6.2		11.4 11.2	11.3	11.3	15.3 15.1	15.2	15.6
					Bottom	7.6	25.4 25.3	25.4	8.5 8.5	8.5	20.4 20.3	20.4	83.6 84.5	84.1	6.1 6.2	6.1	6.1	11.6 11.2	11.4		16.5 16.2	16.4	
11-May-16	Sunny	Moderate	14:56		Surface	1.0	26.0 26.2	26.1	8.5 8.5	8.5	16.5 16.3	16.4	82.0 80.9	81.5	6.0 6.0	6.0	6.0	7.4 7.4	7.4		8.3 8.9	8.6	
				9.0	Middle	4.5	24.5 24.4	24.5	8.4 8.4	8.4	22.2 21.3	21.8	81.4 80.0	80.7	6.0 5.9	5.9		7.5 7.4	7.5	7.5	8.2 7.4	7.8	8.0
					Bottom	8.0	24.3 24.4	24.4	8.4 8.4	8.4	24.0 24.1	24.0	80.5 79.5	80.0	5.9 5.8	5.9	5.9	7.5 7.5	7.5		7.0 8.1	7.6	
13-May-16	Sunny	Moderate	17:26		Surface	1.0	25.5 25.5	25.5	8.4 8.4	8.4	20.2 20.0	20.1	97.0 97.1	97.1	7.1 7.1	7.1	7.1	6.3 6.2	6.3		8.2 8.5	8.4	
				8.6	Middle	4.3	25.5 25.4	25.5	8.4 8.4	8.4	20.3 20.2	20.3	96.5 95.6	96.1	7.0 7.0	7.0		6.6 6.7	6.7	6.6	8.4 9.0	8.7	9.1
					Bottom	7.6	25.5 25.5	25.5	8.4 8.4	8.4	20.2 20.2	20.2	94.5 94.9	94.7	6.9 6.9	6.9	6.9	6.8 6.8	6.8		9.7 10.6	10.2	
16-May-16	Sunny	Moderate	11:08		Surface	1.0	25.6 25.7 24.9	25.7	8.5 8.5 8.4	8.5	19.5 20.2 27.6	19.8	94.4 92.2 91.4	93.3	6.7 6.6	6.6	6.6	5.8 5.9 5.8	5.9		3.2 3.3 5.5	3.3	
				8.3	Middle	4.2	24.9 24.8 24.7	24.9	8.4 8.4	8.4	27.0 27.2 28.2	27.4	91.4 90.3 87.0	90.9	6.7 6.5 6.2	6.6		5.8 5.7	5.8	5.8	5.5 5.9 6.1	5.7	4.9
18-May-16	Sunny	Moderate	11:59		Bottom	7.3	24.7 24.6 25.0	24.7	8.4 8.6	8.4	28.2	28.2	89.2 103.3	88.1	6.3 7.3	6.3	6.3	5.8 5.4	5.8		5.5 8.0	5.8	<u> </u>
To-Iviay-To	Sunny	Moderate	11.59		Surface	1.0	24.9 24.7	24.9	8.6 8.5	8.6	20.0	26.9	105.5 106.4 104.5	104.9	7.3 7.4 7.4	7.4	7.4	5.4 5.5	5.4		7.0 9.1	7.5	
				9.1	Middle	4.6	24.7 24.7 24.6	24.7	8.5 8.5	8.5	29.2 29.3 30.4	29.2	104.3 102.3 100.1	103.4	7.4 7.2 7.1	7.3		5.5 5.5	5.5	5.5	7.8	8.5	7.9
20-May-16	Rainy	Moderate	13:31		Bottom	8.1	24.0 24.8 25.3	24.7	8.5 8.5	8.5	30.4 30.2 27.4	30.3	100.1 104.3 98.8	102.2	7.3	7.2	7.2	5.6 11.6	5.6		8.3 13.0	7.7	<u> </u>
20-iviay-10	ixaiiiy	Moderald	13.31		Surface	1.0	25.3 25.3 25.3	25.3	8.5 8.5	8.5	27.4 27.5 27.7	27.4	98.8 98.6	98.8	7.0 7.0 6.9	7.0	7.0	11.0 11.1 11.4	11.4		12.3 12.8	12.7	
				8.7	Middle	4.4	25.3 25.3 25.3	25.3	8.5 8.5	8.5	27.7	27.7	98.6 98.6	98.6	6.9 6.9	6.9		11.4 11.5 11.3	11.5	11.4	12.0	12.6	13.0
					Bottom	7.7	25.3	25.3	8.5 8.5	8.5	27.8	27.7	98.6	98.6	6.9	6.9	6.9	11.3	11.4		14.0	13.6	<u>i </u>

Remarks:

* DA: Depth-Averaged

Water Quality Monitoring Results at IS5 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampl	ing	Tempera	ature (°C)	F	н	Salinit	ty (ppt)	DO Satu	ration (%)	Dissolv	ved Oxyger	i (mg/L)	Т	urbidity(NTL	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-May-16	Sunny	Moderate	12:41		Surface	1.0	26.4 26.4	26.4	8.6 8.6	8.6	22.5 22.4	22.4	91.0 92.0	91.5	6.5 6.5	6.5	6.5	9.3 9.5	9.4		9.4 9.1	9.3	
				8.3	Middle	4.2	26.0 26.0	26.0	8.6 8.6	8.6	23.2 23.2	23.2	91.2 91.1	91.2	6.5 6.4	6.4	0.5	9.9 9.4	9.7	9.6	8.4 8.0	8.2	9.1
					Bottom	7.3	25.8 26.3	26.0	8.6 8.6	8.6	24.6 24.7	24.7	90.3 90.1	90.2	6.4 6.4	6.4	6.4	9.7 9.8	9.8		10.6 8.7	9.7	
25-May-16	Sunny	Moderate	13:57		Surface	1.0	27.4 27.5	27.5	8.6 8.6	8.6	21.0 20.8	20.9	99.6 105.9	102.8	7.0 7.4	7.2	7.2	5.8 6.0	5.9		9.3 10.0	9.7	
				9.1	Middle	4.6	26.2 26.8	26.5	8.5 8.6	8.5	22.8 22.2	22.5	97.2 105.0	101.1	6.8 7.4	7.1	1.2	5.8 6.0	5.9	6.0	11.4 11.2	11.3	11.1
					Bottom	8.1	26.5 26.2	26.3	8.5 8.5	8.5	25.6 26.1	25.8	99.1 94.5	96.8	7.0 6.7	6.9	6.9	6.2 6.0	6.1		11.3 13.0	12.2	
27-May-16 ***	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	<u>-</u>
					Bottom	-	-	-		-		-		-		-	-	-	-		-	-	
30-May-16	Sunny	Moderate	12:00		Surface	1.0	27.6 28.3	27.9	8.4 8.5	8.4	18.2 17.9	18.1	92.0 92.3	92.2	6.3 6.3	6.3	6.3	5.3 5.5	5.4		5.5 5.0	5.3	
				8.7	Middle	4.4	26.8 26.8	26.8	8.3 8.3	8.3	24.7 24.5	24.6	88.3 89.6	89.0	6.2 6.2	6.2	0.5	5.5 5.6	5.6	5.5	4.9 5.1	5.0	5.6
					Bottom	7.7	26.8 26.8	26.8	8.3 8.3	8.3	27.5 27.9	27.7	87.8 87.6	87.7	6.1 6.1	6.1	6.1	5.5 5.6	5.6		6.5 6.4	6.5	

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

Remarks:

* DA: Depth-Averaged

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

Water Quality Monitoring Results at IS5 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	n (mg/L)		Turbidity(NT	U)	Suspe	ended Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
2-May-16	Sunny	Moderate	13:41		Surface	1.0	23.2 23.2	23.2	8.4 8.4	8.4	24.1 24.0	24.1	92.8 93.2	93.0	6.9 6.9	6.9	6.9	4.5 4.4	4.5		9.2 9.2	9.2	
				8.5	Middle	4.3	22.9 23.0	23.0	8.4 8.4	8.4	25.3 25.3	25.3	92.9 92.6	92.8	6.9 6.9	6.9	0.9	4.5 4.5	4.5	4.5	9.9 10.6	10.3	9.8
					Bottom	7.5	23.0 22.8	22.9	8.4 8.4	8.4	25.8 26.2	26.0	91.8 91.7	91.8	6.8 6.8	6.8	6.8	4.6 4.5	4.6		9.8 9.8	9.8	
4-May-16	Sunny	Moderate	15:46		Surface	1.0	24.5 24.7	24.6	8.5 8.5	8.5	23.1 22.1	22.6	94.1 89.3	91.7	6.9 6.5	6.7	0.7	5.9 6.3	6.1		4.8 5.1	5.0	
				8.4	Middle	4.2	23.2 23.3	23.2	8.4 8.4	8.4	27.1 27.3	27.2	87.9 93.9	90.9	6.4 6.9	6.6	6.7	8.2 7.5	7.9	7.2	4.3 4.6	4.5	4.9
					Bottom	7.4	23.3 23.0	23.2	8.4 8.4	8.4	27.8 28.6	28.2	91.4 90.9	91.2	6.7 6.6	6.6	6.6	7.9 7.5	7.7		5.7 4.7	5.2	
6-May-16	Sunny	Moderate	17:41		Surface	1.0	25.0 25.0	25.0	8.5 8.5	8.5	25.5 25.5	25.5	93.0 93.2	93.1	6.7 6.7	6.7	0.7	11.4 11.3	11.4		10.6 10.7	10.7	
				8.8	Middle	4.4	24.9 24.9	24.9	8.5 8.5	8.5	25.5 25.6	25.6	92.7 92.4	92.6	6.6 6.6	6.6	6.7	11.4 11.1	11.3	11.3	11.2 10.8	11.0	10.9
					Bottom	7.8	24.9 24.8	24.8	8.5 8.5	8.5	25.6 25.6	25.6	92.8 94.0	93.4	6.7 6.7	6.7	6.7	11.2 11.2	11.2		11.0 10.9	11.0	
9-May-16	Sunny	Moderate	08:59		Surface	1.0	25.8 25.8	25.8	8.2 8.2	8.2	21.2 21.1	21.2	84.8 91.8	88.3	6.1 6.6	6.4	6.3	6.5 6.3	6.4		6.0 6.1	6.1	
				8.4	Middle	4.2	25.7 25.7	25.7	8.2 8.2	8.2	21.4 21.3	21.3	87.9 83.9	85.9	6.4 6.1	6.2	0.0	6.5 6.5	6.5	6.5	7.0 7.5	7.3	7.0
					Bottom	7.4	25.7 25.6	25.7	8.2 8.2	8.2	21.3 21.6	21.5	83.7 86.5	85.1	6.1 6.3	6.2	6.2	6.4 6.6	6.5		7.5 7.5	7.5	
11-May-16	Sunny	Moderate	10:04		Surface	1.0	25.8 25.6	25.7	8.1 8.1	8.1	16.1 16.1	16.1	90.0 81.7	85.9	6.6 6.0	6.3	6.3	4.5 4.4	4.5		4.4 4.5	4.5	
				9.1	Middle	4.6	25.5 25.5	25.5	8.1 8.1	8.1	17.8 17.4	17.6	80.8 86.2	83.5	6.0 6.4	6.2	0.0	4.6 4.6	4.6	4.6	4.4 5.5	5.0	4.7
					Bottom	8.1	25.5 25.4	25.5	8.1 8.1	8.1	19.7 19.6	19.7	80.8 83.6	82.2	6.0 6.2	6.1	6.1	4.6 4.7	4.7		4.3 5.0	4.7	
13-May-16	Sunny	Moderate	11:57		Surface	1.0	25.3 25.3	25.3	8.3 8.3	8.3	20.6 20.7	20.6	92.5 92.5	92.5	6.7 6.7	6.7	6.7	5.3 5.1	5.2		6.6 5.9	6.3	
				8.6	Middle	4.3	25.3 25.3	25.3	8.3 8.3	8.3	20.9 20.9	20.9	90.9 91.5	91.2	6.6 6.7	6.7		5.6 5.5	5.6	5.5	6.1 6.7	6.4	7.4
					Bottom	7.6	25.2 25.3	25.3	8.3 8.3	8.3	21.0 21.4	21.2	87.9 86.9	87.4	6.4 6.4	6.4	6.4	5.8 5.7	5.8		8.9 9.8	9.4	
16-May-16	Sunny	Moderate	14:30		Surface	1.0	26.1 26.0	26.1	8.6 8.6	8.6	19.5 19.4	19.5	110.0 111.9	111.0	7.9 8.1	8.0	7.7	4.2 4.3	4.3		4.4 5.4	4.9	_
				8.3	Middle	4.2	24.7 24.8	24.8	8.6 8.6	8.6	24.9 25.1	25.0	102.4 99.4	100.9	7.4 7.2	7.3		5.2 5.4	5.3	4.9	5.3 5.3	5.3	6.1
					Bottom	7.3	24.5 24.7	24.6	8.6 8.6	8.6	26.1 25.9	26.0	93.8 96.6	95.2	6.8 6.9	6.9	6.9	5.2 5.2	5.2		7.6 8.6	8.1	
18-May-16	Sunny	Moderate	15:54		Surface	1.0	25.5 25.5	25.5	8.7 8.7	8.7	25.0 24.7	24.9	120.3 122.6	121.5	8.6 8.7	8.6	8.6	5.4 5.4	5.4		8.4 8.3	8.4	4
				9.1	Middle	4.6	25.3 25.2	25.2	8.7 8.7	8.7	25.1 25.7	25.4	121.5 118.2	119.9	8.7 8.4	8.5		5.5 5.4	5.5	5.5	7.0	7.1	7.6
00.14	011	Madamata	47.40		Bottom	8.1	24.9 24.8	24.8	8.7 8.7	8.7	27.8 27.7	27.7	114.7 <u>117.9</u>	116.3	8.2 8.4	8.3	8.3	5.5 5.5	5.5		7.2 7.5	7.4	<u> </u>
20-May-16	Cloudy	Moderate	17:42		Surface	1.0	25.4 25.4	25.4	8.5 8.5	8.5	27.1 27.0	27.0	100.7 101.0	100.9	7.1	7.1	7.1	9.7 9.2	9.5		11.8 11.7	11.8	4
				8.5	Middle	4.3	25.4 25.4	25.4	8.5 8.5	8.5	27.2 27.1	27.2	100.5 100.8	100.7	7.1	7.1		9.9 9.5	9.7	9.6	10.4 10.9	10.7	11.0
					Bottom	7.5	25.4 25.4	25.4	8.5 8.5	8.5	27.2 27.3	27.3	100.6 100.3	100.5	7.1 7.1	7.1	7.1	9.6 9.8	9.7		10.9 10.0	10.5	

Remarks:

* DA: Depth-Averaged

Water Quality Monitoring Results at IS5 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samplin	ng	Tempera	ature (°C)	p	Н	Salinit	ty (ppt)	DO Satu	ration (%)	Dissolv	ved Oxygen	(mg/L)	Т	urbidity(NTl	J)	Susper	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth (r	m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-May-16	Sunny	Moderate	08:11		Surface	1.0	26.1 26.2	26.1	8.3 8.3	8.3	23.5 23.4	23.5	88.4 86.4	87.4	6.2 6.1	6.2	6.2	7.2 7.3	7.3		4.9 5.6	5.3	
				8.7	Middle	4.4	25.9 26.0	26.0	8.3 8.3	8.3	24.4 24.5	24.4	86.1 86.2	86.2	6.1 6.1	6.1	0.2	7.2 7.4	7.3	7.3	5.0 6.1	5.6	5.7
					Bottom	7.7	25.9 26.0	26.0	8.3 8.3	8.3	25.3 25.4	25.4	86.1 85.3	85.7	6.1 6.0	6.1	6.1	7.3 7.5	7.4		6.8 5.5	6.2	
25-May-16	Sunny	Moderate	08:49		Surface	1.0	26.9 26.9	26.9	8.3 8.3	8.3	20.8 20.9	20.8	92.5 93.7	93.1	6.6 6.6	6.6	6.6	4.0 4.0	4.0		4.9 5.6	5.3	
				9.0	Middle	4.5	26.7 26.6	26.6	8.3 8.3	8.3	21.1 23.2	22.2	92.2 91.9	92.1	6.5 6.5	6.5	0.0	4.1 4.0	4.1	4.1	5.2 5.1	5.2	5.2
					Bottom	8.0	26.7 26.5	26.6	8.3 8.3	8.3	24.0 24.2	24.1	90.8 89.9	90.4	6.5 6.3	6.4	6.4	4.2 4.1	4.2		5.1 5.0	5.1	
27-May-16 ***	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	
				-	Middle	-		-	-	-		-		-		-	-	-	-	-		-	-
					Bottom	-		-	-	-	-	-	-	-		-	-	-	-		-	-	
30-May-16	Sunny	Moderate	09:09		Surface	1.0	27.4 27.4	27.4	8.4 8.4	8.4	18.5 19.8	19.2	87.9 86.3	87.1	6.2 6.1	6.2	6.1	7.1 7.3	7.2		7.0 7.0	7.0	
				8.2	Middle	4.1	26.9 26.9	26.9	8.3 8.3	8.3	24.6 25.0	24.8	85.2 84.8	85.0	5.9 6.1	6.0	0.1	7.2 7.6	7.4	7.3	6.2 6.5	6.4	6.6
					Bottom	7.2	27.1 26.7	26.9	8.3 8.2	8.3	27.1 27.4	27.3	84.9 83.2	84.1	5.9 5.8	5.8	5.8	7.4 7.2	7.3		6.1 6.8	6.5	

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

Remarks:

* DA: Depth-Averaged

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

Water Quality Monitoring Results at IS7 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	н	Salini	ity (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	i (mg/L)	Г	Furbidity(NT	J)	Suspe	ended Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
2-May-16	Sunny	Moderate	10:37		Surface	1.0	23.5 23.4	23.5	8.4 8.4	8.4	24.8 24.8	24.8	103.4 103.3	103.4	7.6 7.6	7.6	7.0	1.9 1.9	1.9		2.8 3.1	3.0	
				3.2	Middle	-	-	-	-	-		-	-	-	-	-	7.6	-	-	1.9	-	-	3.7
					Bottom	2.2	23.4 23.4	23.4	8.4 8.4	8.4	24.8 24.8	24.8	103.3 103.1	103.2	7.6 7.6	7.6	7.6	1.9 1.9	1.9		4.2 4.3	4.3	1
4-May-16	Sunny	Moderate	12:05		Surface	1.0	24.4 24.4	24.4	8.4 8.4	8.4	20.8 20.1	20.4	98.6 98.8	98.7	7.3 7.4	7.3		3.0 3.3	3.2		3.9 3.4	3.7	
				3.4	Middle	-	-	-	-	-	-	-	-	-	-	-	7.3	-	-	3.7	-	-	3.4
					Bottom	2.4	24.2 24.3	24.2	8.4 8.4	8.4	23.1 23.3	23.2	98.5 98.6	98.6	7.3 7.2	7.2	7.2	4.2 4.0	4.1		3.5 2.6	3.1	
6-May-16	Sunny	Moderate	13:33		Surface	1.0	24.8 24.8	24.8	8.4 8.4	8.4	23.8 23.8	23.8	88.5 88.4	88.5	6.4 6.4	6.4		7.8	7.8		9.1 9.8	9.5	
				3.2	Middle	-	-	-	-	-	-	-	-	-	-	-	6.4	-	-	7.9	-	-	9.6
					Bottom	2.2	24.8 24.8	24.8	8.4 8.4	8.4	23.8 23.8	23.8	88.4 88.4	88.4	6.4 6.4	6.4	6.4	8.0 7.8	7.9		9.6 9.5	9.6	1
9-May-16	Sunny	Moderate	13:55		Surface	1.0	25.7 25.7	25.7	8.3 8.3	8.3	20.5 20.5	20.5	82.4 82.5	82.5	6.0 6.0	6.0		12.3 12.1	12.2		11.3 10.8	11.1	
				3.3	Middle	-	-	-	-	-	-	-	-	-	-	-	6.0	-	-	12.2	-	-	11.1
					Bottom	2.3	25.7 25.7	25.7	8.3 8.3	8.3	20.5 20.6	20.6	82.3 82.4	82.4	6.0 6.0	6.0	6.0	12.1 12.2	12.2		11.1 11.1	11.1	1
11-May-16	Sunny	Moderate	15:10		Surface	1.0	26.0 25.9	25.9	8.3 8.3	8.3	16.4 17.6	17.0	83.9 84.8	84.4	6.2 6.2	6.2	<u> </u>	6.5 6.4	6.5		2.8 2.8	2.8	
				3.3	Middle	-	-	-		-		-	-	-	-	-	6.2	-	-	6.6	-	-	3.1
					Bottom	2.3	25.9 26.0	25.9	8.3 8.3	8.3	17.7 17.4	17.5	84.2 83.7	84.0	6.2 6.2	6.2	6.2	6.6 6.5	6.6		2.7 3.8	3.3	
13-May-16	Sunny	Moderate	17:45		Surface	1.0	25.4 25.4	25.4	8.3 8.3	8.3	19.6 19.5	19.6	95.2 95.0	95.1	7.0 7.0	7.0	7.0	5.4 5.3	5.4		7.1 7.5	7.3	
				3.3	Middle	-	-	-	-	-		-		-	-	-	7.0	-	-	5.6	-	-	7.2
					Bottom	2.3	25.4 25.3	25.3	8.3 8.3	8.3	19.5 20.4	20.0	93.8 93.7	93.8	6.9 6.9	6.9	6.9	5.6 5.7	5.7		7.0 7.2	7.1	
16-May-16	Sunny	Moderate	10:50		Surface	1.0	25.9 25.8	25.9	8.5 8.5	8.5	20.2 20.4	20.3	111.7 111.5	111.6	8.1 8.1	8.1	8.1	2.4 2.4	2.4		3.9 3.5	3.7	
				3.2	Middle	-	-	-	-	-		-		-	-	-	8.1	-	-	2.5	-	-	3.8
					Bottom	2.2	25.9 25.9	25.9	8.5 8.5	8.5	22.1 22.2	22.1	111.7 111.0	111.4	8.0 8.0	8.0	8.0	2.5 2.5	2.5		4.4 3.3	3.9	
18-May-16	Sunny	Moderate	11:44		Surface	1.0	25.0 25.1	25.1	8.6 8.6	8.6	26.6 26.6	26.6	111.7 113.3	112.5	7.9 8.0	8.0	8.0	5.4 5.4	5.4		7.3 6.8	7.1	
				3.3	Middle	-	-	-		-		-		-	-	-	8.0	-	-	5.4	-	-	7.6
					Bottom	2.3	25.1 25.0	25.0	8.6 8.6	8.6	26.8 26.9	26.8	103.0 111.1	107.1	7.3 7.9	7.6	7.6	5.4 5.4	5.4		8.4 7.7	8.1	
20-May-16	Rainy	Moderate	13:13		Surface	1.0	25.3 25.3	25.3	8.5 8.5	8.5	26.5 26.9	26.7	98.7 98.6	98.7	7.0 7.0	7.0	7.0	10.6 10.6	10.6		14.9 14.7	14.8	
				3.4	Middle	-	-	-	-	-	-	-	-	-	-	-	7.0	-	-	10.5	-	-	14.9
					Bottom	2.4	25.3 25.3	25.3	8.5 8.5	8.5	27.3 27.3	27.3	98.6 98.6	98.6	6.9 6.9	6.9	6.9	10.5 10.1	10.3		14.8 15.1	15.0	1

Remarks:

* DA: Depth-Averaged

Water Quality Monitoring Results at IS7 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampli	ing	Tempera	ature (°C)	p	Η	Salinit	y (ppt)	DO Satu	ration (%)	Dissolv	ved Oxyger	(mg/L)	Т	urbidity(NTL	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth ((m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-May-16	Sunny	Moderate	12:54		Surface	1.0	27.2 27.2	27.2	8.4 8.4	8.4	21.9 22.0	21.9	95.6 95.9	95.8	6.7 6.7	6.7	6.7	4.6 4.7	4.7		5.9 5.4	5.7	
				3.3	Middle	-		-		-		-		-	-	-	0.7	-	-	4.7		-	5.3
					Bottom	2.3	27.1 26.8	27.0	8.4 8.4	8.4	22.3 22.7	22.5	95.5 94.8	95.2	6.7 6.7	6.7	6.7	4.7 4.6	4.7		4.4 5.1	4.8	
25-May-16	Sunny	Moderate	14:11		Surface	1.0	27.6 27.7	27.6	8.5 8.5	8.5	20.6 20.7	20.6	115.9 118.0	117.0	8.1 8.2	8.2	8.2	5.7 5.6	5.7		8.0 7.4	7.7	
				3.5	Middle	-	-	-		-	-	-	-	-	-	-	0.2	-	-	5.8	-	-	6.6
					Bottom	2.5	27.7 28.0	27.8	8.5 8.5	8.5	21.3 21.2	21.3	115.4 116.1	115.8	8.1 8.2	8.1	8.1	5.7 5.8	5.8		5.4 5.3	5.4	
27-May-16 ***	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	
				-	Middle	-		-		-		-		-	-	-	-	-	-	-		-	-
					Bottom	-		-		-	-	-	-	-	-	-	-	-	-			-	
30-May-16	Sunny	Moderate	12:15		Surface	1.0	28.6 28.6	28.6	8.5 8.5	8.5	17.2 17.1	17.1	111.4 110.1	110.8	7.8 7.8	7.8	7.8	2.2 2.2	2.2		2.6 2.9	2.8	
				3.3	Middle	-		-		-	-	-		-	-	-	7.0	-	-	2.3		-	3.1
					Bottom	2.3	28.5 28.1	28.3	8.4 8.4	8.4	18.4 18.2	18.3	110.1 108.5	109.3	7.7 7.7	7.7	7.7	2.3 2.3	2.3		3.8 2.9	3.4	

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

Remarks:

* DA: Depth-Averaged

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

Water Quality Monitoring Results at IS7 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	(mg/L)		Furbidity(NT	J)	Suspe	ended Solid	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
2-May-16	Sunny	Moderate	13:56		Surface	1.0	23.3 23.2	23.3	8.4 8.4	8.4	24.7 24.8	24.7	93.9 93.5	93.7	7.0 6.9	6.9	6.9	3.9 3.8	3.9		4.1 2.4	3.3	
				3.4	Middle	-	-	-	-	-	-	-		-	-	-	0.0	-	-	3.9	-	-	3.7
					Bottom	2.4	23.1 23.2	23.2	8.4 8.4	8.4	25.3 24.9	25.1	93.3 93.5	93.4	6.9 6.9	6.9	6.9	3.9 3.9	3.9		4.1 4.1	4.1	
4-May-16	Sunny	Moderate	16:07		Surface	1.0	24.9 24.6	24.7	8.5 8.5	8.5	20.9 21.0	20.9	101.7 97.5	99.6	7.5 7.2	7.3	7.3	6.0 6.6	6.3		3.9 4.1	4.0	
				3.4	Middle	-	-	-	-	-	-	-	-	-	-	-	7.5	-	-	6.8	-	-	3.9
					Bottom	2.4	24.3 24.2	24.3	8.4 8.4	8.4	22.1 22.8	22.5	98.6 96.0	97.3	7.3 7.1	7.2	7.2	7.4 7.1	7.3		4.1 3.3	3.7	
6-May-16	Sunny	Moderate	17:58		Surface	1.0	25.2 25.2	25.2	8.4 8.4	8.4	25.1 25.0	25.1	96.4 97.5	97.0	6.9 7.0	6.9	6.9	4.4 4.2	4.3		3.5 2.7	3.1	
				3.3	Middle	-	-	-	-	-	-	-	-	-	-	-	0.9	-	-	4.3	-	-	3.8
					Bottom	2.3	25.0 25.1	25.1	8.4 8.4	8.4	25.3 25.2	25.3	96.0 96.7	96.4	6.9 6.9	6.9	6.9	4.3 4.1	4.2		4.9 3.8	4.4	
9-May-16	Sunny	Moderate	08:44		Surface	1.0	25.6 25.6	25.6	8.2 8.2	8.2	19.2 19.2	19.2	81.3 81.6	81.5	6.0 6.0	6.0	6.0	5.3 5.3	5.3		3.5 4.7	4.1	
				3.2	Middle	-		-		-		-		-	-	-	0.0	-	-	5.3	-	-	5.2
					Bottom	2.2	25.5 25.5	25.5	8.2 8.2	8.2	20.4 20.6	20.5	80.8 81.4	81.1	5.9 5.9	5.9	5.9	5.2 5.3	5.3		6.2 6.4	6.3	
11-May-16	Sunny	Moderate	09:53		Surface	1.0	25.7 25.8	25.8	8.2 8.2	8.2	14.8 15.4	15.1	97.1 91.7	94.4	7.2 6.9	7.0	7.0	4.5 4.6	4.6		5.2 5.2	5.2	
				3.3	Middle	-	• •	-		-		-		-	-	-	7.0	-	-	4.6	-	-	4.8
					Bottom	2.3	25.6 25.9	25.8	8.2 8.2	8.2	16.1 14.9	15.5	93.8 89.3	91.6	7.0 6.7	6.8	6.8	4.5 4.6	4.6		4.3 4.5	4.4	
13-May-16	Sunny	Moderate	11:40		Surface	1.0	25.3 25.3	25.3	8.3 8.3	8.3	20.4 20.7	20.6	90.1 89.9	90.0	6.6 6.6	6.6	6.6	4.2 4.1	4.2		5.6 4.4	5.0	
				3.4	Middle	-		-		-		-		-	-	-	0.0	-	-	4.3	-	-	6.1
					Bottom	2.4	25.3 25.4	25.4	8.3 8.3	8.3	20.2 20.0	20.1	90.0 89.8	89.9	6.6 6.6	6.6	6.6	4.3 4.3	4.3		7.2 7.0	7.1	
16-May-16	Sunny	Moderate	14:43		Surface	1.0	26.6 26.5	26.6	8.6 8.6	8.6	17.6 17.7	17.7	147.8 143.5	145.7	10.7 10.5	10.6	10.6	3.0 3.0	3.0		5.0 5.2	5.1	
				3.3	Middle	-	-	-	-	-	-	-	-	-	-	-	10.0	-	-	3.0	-	-	5.0
					Bottom	2.3	26.3 25.9	26.1	8.6 8.6	8.6	18.9 18.9	18.9	145.6 142.0	143.8	10.6 10.4	10.5	10.5	3.0 2.9	3.0		5.3 4.3	4.8	
18-May-16	Sunny	Moderate	16:08		Surface	1.0	25.4 25.4	25.4	8.7 8.7	8.7	26.1 26.1	26.1	132.2 131.9	132.1	9.4 9.3	9.3	9.3	3.8 3.8	3.8		5.7 5.4	5.6	
				3.5	Middle	-	-	-	-	-	-	-	-	-	-	-	0.0	-	-	3.9	-	-	6.1
					Bottom	2.5	25.4 25.4	25.4	8.7 8.7	8.7	26.1 26.2	26.1	132.1 131.8	132.0	9.4 9.3	9.3	9.3	3.8 3.9	3.9		6.5 6.6	6.6	
20-May-16	Cloudy	Moderate	18:00		Surface	1.0	25.4 25.4	25.4	8.5 8.5	8.5	27.6 27.6	27.6	101.2 101.0	101.1	7.1 7.1	7.1	7.1	7.1 7.1	7.1		8.4 8.2	8.3	
				3.3	Middle	-	-	-	-	-	-	-	-	-	-	-	7.1	-	-	7.2	-	-	8.4
					Bottom	2.3	25.4 25.3	25.4	8.5 8.5	8.5	27.7 27.8	27.8	101.1 100.8	101.0	7.1 7.1	7.1	7.1	7.1 7.2	7.2		8.3 8.7	8.5	

Remarks:

* DA: Depth-Averaged

Water Quality Monitoring Results at IS7 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samplin	ng	Tempera	ature (°C)	F	ъН	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ved Oxyger	(mg/L)	Т	urbidity(NTL	J)	Suspe	nded Solids	; (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth (r	m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-May-16	Sunny	Moderate	07:54		Surface	1.0	26.1 26.1	26.1	8.3 8.3	8.3	23.1 23.1	23.1	85.5 85.3	85.4	6.1 6.1	6.1	6.1	6.5 6.4	6.5		7.3 7.8	7.6	
				3.4	Middle	-		-	-	-	-	-		-	-	-	0.1	-	-	6.5	-	-	7.4
					Bottom	2.4	26.0 26.1	26.1	8.3 8.3	8.3	23.6 23.2	23.4	84.8 85.4	85.1	6.0 6.1	6.0	6.0	6.5 6.4	6.5		6.9 7.4	7.2	
25-May-16	Sunny	Moderate	08:36		Surface	1.0	26.9 26.9	26.9	8.3 8.3	8.3	20.3 20.4	20.3	94.6 95.7	95.2	6.7 6.8	6.8	6.8	4.1 4.1	4.1		8.2 7.9	8.1	
				3.4	Middle	-		-	-	-	-	-	-	-	-	-	0.0	-	-	4.2	-	-	6.5
					Bottom	2.4	26.8 26.9	26.9	8.3 8.3	8.3	20.4 20.3	20.4	94.8 94.1	94.5	6.8 6.7	6.7	6.7	4.3 4.2	4.3		5.7 4.0	4.9	
27-May-16 ***	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
				-	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<u>-</u>
					Bottom	-		-	-	-	-	-	-	-	-	-	-	-	-		-	-	
30-May-16	Sunny	Moderate	08:49		Surface	1.0	27.9 27.9	27.9	8.4 8.4	8.4	17.5 17.5	17.5	95.0 96.6	95.8	6.8 6.9	6.8	6.8	3.5 3.5	3.5		6.0 5.8	5.9	
				3.1	Middle	-	-	-	-	-	-	-	-	-	-	-	0.0	-	-	3.6	-	-	5.8
					Bottom	2.1	27.4 27.8	27.6	8.3 8.3	8.3	21.0 21.3	21.2	95.5 96.3	95.9	6.7 6.7	6.7	6.7	3.6 3.5	3.6		5.7 5.6	5.7	

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

Remarks:

* DA: Depth-Averaged

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

Water Quality Monitoring Results at IS8 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	(mg/L)		Turbidity(NT	U)	Suspe	ended Solid	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
2-May-16	Sunny	Moderate	10:13		Surface	1.0	23.4 23.3	23.3	8.4 8.4	8.4	24.9 24.9	24.9	98.1 96.6	97.4	7.2 7.2	7.2	7.2	2.3 2.4	2.4		4.1 3.0	3.6	
				4.0	Middle	-	-	-	-	-	-	-	-	-	-	-	1.2	-	-	2.5	-	-	3.3
					Bottom	3.0	23.2 23.1	23.2	8.4 8.4	8.4	25.4 25.6	25.5	97.2 96.5	96.9	7.2 7.1	7.2	7.2	2.5 2.4	2.5		3.7 2.1	2.9	
4-May-16	Sunny	Moderate	11:31		Surface	1.0	24.3 24.4	24.3	8.4 8.4	8.4	21.1 21.0	21.0	98.0 98.4	98.2	7.3 7.3	7.3	7.0	3.7 3.4	3.6		3.2 4.1	3.7	
				3.8	Middle	-	-	-		-	-	-	-	-	-	-	7.3	-	-	3.8	-	-	4.0
					Bottom	2.8	24.4 24.3	24.3	8.3 8.3	8.3	21.9 23.7	22.8	98.2 98.1	98.2	7.2 7.2	7.2	7.2	3.7 4.1	3.9		4.8 3.7	4.3	1
6-May-16	Sunny	Moderate	13:07		Surface	1.0	24.3 24.6	24.4	8.3 8.4	8.4	24.3 23.6	23.9	86.9 87.0	87.0	6.3 6.3	6.3		6.7 6.7	6.7		5.4 5.9	5.7	1
				4.1	Middle	-	-	-	-	-	-	-	-	-	-	-	6.3	-	-	6.7	-	-	6.0
					Bottom	3.1	24.4 24.1	24.3	8.3 8.3	8.3	25.4 25.7	25.6	86.3 86.4	86.4	6.2 6.3	6.3	6.3	6.6 6.8	6.7		6.6 6.0	6.3	1
9-May-16	Sunny	Moderate	14:20		Surface	1.0	26.1 26.1	26.1	8.3 8.3	8.3	19.2 19.2	19.2	84.4 83.3	83.9	6.1 6.1	6.1		7.6 7.7	7.7		4.5 3.8	4.2	
				4.3	Middle	-	-	-	-	-	-	-	-	-	-	-	6.1	-	-	7.7	-	-	4.0
					Bottom	3.3	25.5 26.0	25.7	8.2 8.3	8.3	21.1 21.0	21.0	82.6 83.8	83.2	6.0 6.0	6.0	6.0	7.6 7.7	7.7		3.4 4.0	3.7	1
11-May-16	Sunny	Moderate	15:32		Surface	1.0	26.3 26.4	26.3	8.2 8.2	8.2	15.0 14.8	14.9	84.8 85.1	85.0	6.3 6.3	6.3		5.1 4.8	5.0		5.0 5.2	5.1	
				3.4	Middle	-	-	-	-	-	-	-	-	-	-	-	6.3	-	-	5.0	-	-	5.1
					Bottom	2.4	26.4 26.3	26.3	8.2 8.2	8.2	15.8 15.9	15.9	84.8 84.9	84.9	6.3 6.3	6.3	6.3	5.1 4.9	5.0		5.3 4.6	5.0	1
13-May-16	Sunny	Moderate	18:06		Surface	1.0	25.5 25.5	25.5	8.3 8.3	8.3	19.9 19.8	19.9	97.0 97.1	97.1	7.1 7.1	7.1		5.0 5.1	5.1		6.5 6.3	6.4	1
				3.7	Middle	-	-	-	-	-	-	-	-	-	-	-	7.1	-	-	5.2	-	-	6.3
					Bottom	2.7	25.4 25.5	25.5	8.3 8.3	8.3	20.1 19.9	20.0	96.2 96.5	96.4	7.0 7.1	7.1	7.1	5.2 5.3	5.3		5.5 6.7	6.1	1
16-May-16	Sunny	Moderate	10:26		Surface	1.0	25.9 25.9	25.9	8.5 8.5	8.5	19.6 19.6	19.6	110.7 113.1	111.9	8.1 8.2	8.1		2.9 2.8	2.9		3.9 4.2	4.1	1
				4.0	Middle	-	-	-	-	-	-	-	-	-	-	-	8.1	-	-	2.9	-	-	4.1
					Bottom	3.0	25.9 26.0	26.0	8.4 8.4	8.4	21.5 21.7	21.6	112.0 107.8	109.9	8.1 7.7	7.9	7.9	2.9 2.9	2.9		4.5 3.5	4.0	-
18-May-16	Sunny	Moderate	11:21		Surface	1.0	24.7 24.8	24.8	8.5 8.5	8.5	27.8 27.2	27.5	100.7 103.0	101.9	7.1 7.3	7.2		4.0	4.0		5.5 5.9	5.7	1
				3.3	Middle	-	-	-	-	-	-	-	-	-	-	-	7.2	-	-	4.1	-	-	6.1
					Bottom	2.3	24.8 24.8	24.8	8.5 8.5	8.5	27.4 27.6	27.5	100.9 100.4	100.7	7.2 7.1	7.1	7.1	4.1 4.2	4.2		6.4 6.3	6.4	1
20-May-16	Rainy	Moderate	12:47		Surface	1.0	25.4 25.4	25.4	8.4 8.5	8.4	27.9 27.9	27.9	104.6 104.8	104.7	7.3 7.3	7.3		7.4	7.5		7.4 8.0	7.7	1
				3.8	Middle	-	-	-	-	-	-	-	-	-	-	-	7.3	-	-	7.7	-	-	7.8
					Bottom	2.8	25.4 25.4	25.4	8.4 8.4	8.4	28.0 28.0	28.0	103.6 104.7	104.2	7.3	7.3	7.3	7.7	7.9		8.3 7.4	7.9	1

Remarks:

* DA: Depth-Averaged

Water Quality Monitoring Results at IS8 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampl	ling	Tempera	ature (°C)	p	H	Salinit	y (ppt)	DO Satu	ration (%)	Dissolv	ed Oxygen	(mg/L)	Т	urbidity(NTL	I)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-May-16	Sunny	Moderate	13:18		Surface	1.0	26.6 26.5	26.5	8.4 8.4	8.4	21.9 21.9	21.9	99.6 99.6	99.6	7.1 7.1	7.1	7.1	5.4 5.2	5.3		5.2 5.3	5.3	
				3.9	Middle	-	-	-	-	-	-	-	-	-		-	7.1	-	-	5.4	-	-	5.4
					Bottom	2.9	26.5 26.4	26.5	8.4 8.4	8.4	23.4 23.8	23.6	100.0 99.8	99.9	7.1 7.0	7.0	7.0	5.4 5.6	5.5		5.3 5.4	5.4	
25-May-16	Sunny	Moderate	14:33		Surface	1.0	27.4 27.2	27.3	8.5 8.5	8.5	20.4 20.5	20.5	108.1 103.9	106.0	7.6 7.4	7.5	7.5	5.8 5.8	5.8		7.5 7.5	7.5	
				3.4	Middle	-	-	-		-	-	-	-	-	-	-	7.0	-	-	5.9	-	-	7.8
					Bottom	2.4	27.5 27.0	27.2	8.5 8.5	8.5	20.3 21.1	20.7	106.0 102.6	104.3	7.5 7.3	7.4	7.4	5.8 6.0	5.9		7.5 8.6	8.1	
27-May-16 ***	-	-	-		Surface	-	-	-	-	-	-	-	-	-		-	_	-	-		-	-	
				-	Middle	-		-		-		-		-		-	-	-	-	-	-	-	-
					Bottom	-		-		-	-	-	-	-		-	-	-	-		-	-	
30-May-16	Sunny	Moderate	12:38		Surface	1.0	28.1 28.0	28.1	8.4 8.4	8.4	16.8 16.8	16.8	101.3 101.5	101.4	7.2 7.2	7.2	7.2	5.6 5.5	5.6		3.2 3.0	3.1	
				4.1	Middle	-	-	-	-	-	-	-	-	-	-	-	1.2	-	-	5.6	-	-	3.5
					Bottom	3.1	28.1 28.0	28.0	8.4 8.4	8.4	19.2 20.4	19.8	101.0 102.5	101.8	7.1 7.2	7.1	7.1	5.6 5.6	5.6		3.5 4.3	3.9	

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

Remarks:

* DA: Depth-Averaged

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

Water Quality Monitoring Results at IS8 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	Η	Salini	ity (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	ı (mg/L)	1	Furbidity(NT	J)	Suspe	ended Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
2-May-16	Sunny	Moderate	14:20		Surface	1.0	23.4 23.4	23.4	8.5 8.5	8.5	24.9 25.0	24.9	100.9 101.3	101.1	7.4 7.5	7.5	7.5	3.2 3.1	3.2		3.0 3.7	3.4	
				4.3	Middle	-	-	-	-	-	-	-	-	-	-	-	7.5	-	-	3.2	-	-	3.3
					Bottom	3.3	23.4 23.4	23.4	8.5 8.4	8.5	25.2 26.1	25.7	101.3 102.6	102.0	7.5 7.5	7.5	7.5	3.0 3.2	3.1		2.9 3.4	3.2	
4-May-16	Sunny	Moderate	16:31		Surface	1.0	24.7 24.8	24.8	8.5 8.5	8.5	21.0 20.9	21.0	100.3 100.5	100.4	7.4 7.4	7.4	7.4	8.1 7.4	7.8		7.2 7.1	7.2	
				3.8	Middle	-	-	-	-	-	-	-	-	-	-	-	7.4	-	-	8.0	-	-	7.2
					Bottom	2.8	24.2 24.0	24.1	8.4 8.4	8.4	23.5 23.5	23.5	99.4 100.2	99.8	7.3 7.4	7.3	7.3	7.9 8.3	8.1		7.4 6.7	7.1	
6-May-16	Sunny	Moderate	18:23		Surface	1.0	25.0 24.9	24.9	8.4 8.4	8.4	23.4 24.0	23.7	90.1 89.9	90.0	6.5 6.5	6.5	6.5	4.3 4.2	4.3		5.2 5.6	5.4	
				4.2	Middle	-	-	-	-	-	-	-	-	-	-	-	0.5	-	-	4.3	-	-	5.5
					Bottom	3.2	24.9 24.8	24.8	8.4 8.4	8.4	24.4 24.5	24.5	89.8 89.5	89.7	6.5 6.5	6.5	6.5	4.3 4.2	4.3		6.0 5.2	5.6	
9-May-16	Sunny	Moderate	08:19		Surface	1.0	25.4 25.4	25.4	8.3 8.3	8.3	19.9 19.9	19.9	83.4 87.1	85.3	6.1 6.4	6.2	6.2	8.7 8.7	8.7		4.8 4.6	4.7	
				4.1	Middle	-	-	-	-	-	-	-	-	-	-	-	0.2	-	-	8.8	-	-	6.1
					Bottom	3.1	25.4 25.4	25.4	8.3 8.3	8.3	20.2 20.2	20.2	84.8 92.3	88.6	6.2 6.8	6.5	6.5	8.8 8.7	8.8		7.8 7.1	7.5	
11-May-16	Sunny	Moderate	09:32		Surface	1.0	25.7 25.7	25.7	8.2 8.2	8.2	14.6 14.5	14.6	92.7 88.2	90.5	7.0 6.6	6.8	6.8	5.0 5.0	5.0		3.0 3.7	3.4	
				3.3	Middle	-	-	-	-	-	-	-		-	-	-	0.0	-	-	5.1	-	-	4.6
					Bottom	2.3	25.6 25.7	25.7	8.2 8.2	8.2	14.7 14.4	14.5	90.0 86.7	88.4	6.8 6.5	6.6	6.6	5.1 5.0	5.1		6.2 5.3	5.8	
13-May-16	Sunny	Moderate	11:17		Surface	1.0	25.3 25.3	25.3	8.3 8.3	8.3	19.7 19.7	19.7	88.5 88.1	88.3	6.5 6.5	6.5	6.5	4.4 4.3	4.4		5.4 5.8	5.6	
				3.7	Middle	-	-	-	-	-	-	-		-	-	-	0.0	-	-	4.5	-	-	5.1
					Bottom	2.7	25.3 25.3	25.3	8.3 8.3	8.3	19.7 19.7	19.7	87.3 87.3	87.3	6.4 6.4	6.4	6.4	4.5 4.5	4.5		4.4 4.5	4.5	
16-May-16	Sunny	Moderate	15:12		Surface	1.0	26.3 26.3	26.3	8.6 8.6	8.6	18.0 18.0	18.0	136.6 136.8	136.7	10.0 10.0	10.0	10.0	8.6 8.8	8.7		9.0 9.3	9.2	
				4.0	Middle	-	-	-	-	-	-	-	-	-	-	-	10.0	-	-	8.7	-	-	9.4
					Bottom	3.0	26.3 26.1	26.2	8.5 8.5	8.5	19.5 20.6	20.1	137.2 138.2	137.7	9.9 10.0	10.0	10.0	8.6 8.8	8.7		8.8 10.3	9.6	
18-May-16	Sunny	Moderate	16:31		Surface	1.0	24.9 24.9	24.9	8.6 8.6	8.6	27.8 27.8	27.8	107.9 108.0	108.0	7.6 7.6	7.6	76	6.4 6.4	6.4		9.9 10.7	10.3	
				3.4	Middle	-	-	-	-	-	-	-	-	-	-	-	7.6	-	-	6.5	-	-	10.4
					Bottom	2.4	25.0 24.9	24.9	8.6 8.6	8.6	27.7 28.0	27.9	107.7 107.3	107.5	7.6 7.6	7.6	7.6	6.4 6.5	6.5		10.1 10.7	10.4	
20-May-16	Cloudy	Moderate	18:24		Surface	1.0	25.3 25.3	25.3	8.5 8.5	8.5	28.2 28.2	28.2	96.5 96.5	96.5	6.8 6.8	6.8	6.8	18.4 18.8	18.6		18.2 18.4	18.3	
				4.1	Middle	-	-	-	-	-	-	-	-	-	-	-	0.0	-	-	18.7	-	-	18.9
					Bottom	3.1	25.3 25.2	25.3	8.5 8.5	8.5	28.3 28.3	28.3	96.5 96.6	96.6	6.8 6.8	6.8	6.8	18.5 18.9	18.7		19.2 19.7	19.5	1

Remarks:

* DA: Depth-Averaged

Water Quality Monitoring Results at IS8 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Sampl	ing	Tempera	ature (°C)	p	ĥ	Salinit	y (ppt)	DO Satu	ration (%)	Dissolv	ved Oxyger	ı (mg/L)	Т	urbidity(NTL	J)	Suspe	nded Solids	. (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-May-16	Sunny	Moderate	07:33		Surface	1.0	25.9 25.9	25.9	8.3 8.4	8.4	22.1 22.1	22.1	86.2 88.6	87.4	6.2 6.4	6.3	6.3	4.6 4.5	4.6		4.5 3.4	4.0	
				4.0	Middle	-	-	-	-	-	-	-	-	-	-	-	0.5	-	-	4.7	-	-	4.3
					Bottom	3.0	25.9 25.8	25.8	8.3 8.3	8.3	23.8 23.9	23.8	87.0 91.5	89.3	6.2 6.5	6.4	6.4	4.6 4.7	4.7		3.7 5.2	4.5	
25-May-16	Sunny	Moderate	08:14		Surface	1.0	26.7 26.7	26.7	8.3 8.3	8.3	20.4 20.3	20.3	93.0 96.9	95.0	6.6 6.9	6.8	6.8	4.2 4.3	4.3		6.2 6.4	6.3	
				3.2	Middle	-	-	-		-	-	-	-	-	-	-	0.0	-	-	4.3	-	-	6.2
					Bottom	2.2	26.7 26.6	26.7	8.3 8.3	8.3	20.3 20.3	20.3	90.6 94.4	92.5	6.5 6.8	6.6	6.6	4.2 4.3	4.3		5.8 6.3	6.1	
27-May-16 ***	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
				-	Middle	-	-	-		-		-		-		-		-	-	-	-	-	-
					Bottom	-	-	-		-	-	-	-	-		-	-	-	-		-	-	
30-May-16	Sunny	Moderate	08:26		Surface	1.0	27.9 28.0	27.9	8.3 8.3	8.3	17.4 17.4	17.4	102.3 100.9	101.6	7.3 7.2	7.2	7.2	8.1 8.3	8.2		6.2 5.7	6.0	
				3.8	Middle	-	-	-		-	-	-		-	-	-	1.2	-	-	8.2	-	-	6.0
					Bottom	2.8	27.7 27.8	27.8	8.2 8.3	8.3	19.6 19.3	19.4	97.1 102.0	99.6	6.9 7.2	7.0	7.0	8.2 8.2	8.2		5.1 6.8	6.0	

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

Remarks:

* DA: Depth-Averaged

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

Water Quality Monitoring Results at IS17 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	/ed Oxygen	(mg/L)	Т	urbidity(NT	U)	Suspe	nded Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
2-May-16	Sunny	Moderate	09:59		Surface	1.0	22.7 23.0	22.8	8.4 8.4	8.4	22.8 22.6	22.7	85.6 90.1	87.9	6.4 6.6	6.5	6.5	4.4 4.4	4.4		5.3 5.1	5.2	
				10.4	Middle	5.2	22.3 22.3	22.3	8.3 8.3	8.3	28.1 28.4	28.3	84.6 86.6	85.6	6.3 6.5	6.4	0.5	4.4 4.4	4.4	4.4	4.2 3.9	4.1	4.7
					Bottom	9.4	22.5 22.3	22.4	8.3 8.3	8.3	29.3 29.1	29.2	84.4 85.5	85.0	6.2 6.3	6.3	6.3	4.5 4.3	4.4		4.0 5.3	4.7	
4-May-16	Sunny	Moderate	11:11		Surface	1.0	23.7 24.0	23.8	8.4 8.5	8.4	18.9 18.6	18.7	83.6 83.9	83.8	6.4 6.4	6.4		4.5 4.4	4.5		3.8 2.9	3.4	
				11.1	Middle	5.6	23.1 23.1	23.1	8.3 8.3	8.3	25.4 25.8	25.6	82.6 81.2	81.9	6.1 6.0	6.1	6.3	5.6 6.1	5.9	5.7	3.0 4.8	3.9	4.1
					Bottom	10.1	23.2 22.9	23.0	8.3 8.3	8.3	27.0 27.9	27.5	83.7 81.2	82.5	6.1 5.9	6.0	6.0	6.6 6.9	6.8		4.2	5.1	
6-May-16	Sunny	Moderate	12:54		Surface	1.0	24.6 24.6	24.6	8.4 8.4	8.4	21.8 22.4	22.1	83.9 84.4	84.2	6.2 6.2	6.2		8.7 8.6	8.7		6.9 7.4	7.2	
				10.4	Middle	5.2	24.1 24.3	24.2	8.4 8.4	8.4	23.8 23.6	23.7	83.9 83.3	83.6	6.2 6.1	6.1	6.2	8.7 8.6	8.7	8.7	7.3	7.3	8.2
					Bottom	9.4	23.8 24.3	24.1	8.4 8.4	8.4	26.6 26.1	26.4	84.1 83.3	83.7	6.1 6.0	6.1	6.1	8.8 8.8	8.8		10.1 10.2	10.2	
9-May-16	Sunny	Moderate	14:33		Surface	1.0	25.6 25.6	25.6	8.3 8.3	8.3	20.7 20.9	20.8	80.9 84.1	82.5	5.9 6.1	6.0		6.1 6.3	6.2		5.1 4.1	4.6	i
				10.9	Middle	5.5	25.1 24.8	25.0	8.3 8.3	8.3	22.4 22.9	22.7	82.0 79.9	81.0	6.0 5.8	5.9	6.0	6.3 6.4	6.4	6.3	5.8 7.4	6.6	5.9
					Bottom	9.9	24.4 24.8	24.6	8.2 8.2	8.2	26.2 26.1	26.2	81.9 79.8	80.9	6.0 5.7	5.8	5.8	6.2 6.3	6.3		7.4 5.7	6.6	
11-May-16	Sunny	Moderate	15:45		Surface	1.0	26.3 26.4	26.4	8.3 8.3	8.3	15.5 15.4	15.5	82.5 81.5	82.0	6.1 6.0	6.0	6.0	5.4 5.3	5.4		3.9 4.6	4.3	
				11.1	Middle	5.6	24.5 25.1	24.8	8.2 8.2	8.2	23.2 22.8	23.0	81.2 82.4	81.8	5.9 6.0	5.9	6.0	5.5 5.4	5.5	5.5	3.8 4.6	4.2	4.4
					Bottom	10.1	24.1 24.4	24.3	8.1 8.1	8.1	26.0 26.0	26.0	80.5 79.8	80.2	5.8 5.8	5.8	5.8	5.5 5.6	5.6		4.9 4.3	4.6	
13-May-16	Sunny	Moderate	18:20		Surface	1.0	25.3 25.3	25.3	8.3 8.3	8.3	20.4 20.5	20.4	94.7 94.5	94.6	6.9 6.9	6.9	6.9	3.4 3.3	3.4		7.3 6.1	6.7	
				11.2	Middle	5.6	25.2 25.3	25.3	8.2 8.3	8.3	21.1 20.5	20.8	94.3 93.4	93.9	6.9 6.8	6.9	0.9	3.6 3.7	3.7	3.6	7.4 7.2	7.3	7.5
					Bottom	10.2	25.3 25.2	25.2	8.2 8.2	8.2	21.4 21.4	21.4	92.0 92.2	92.1	6.7 6.7	6.7	6.7	3.8 3.8	3.8		8.7 8.1	8.4	
16-May-16	Sunny	Moderate	10:07		Surface	1.0	25.5 25.4	25.4	8.5 8.5	8.5	15.9 16.3	16.1	88.8 91.6	90.2	6.7 6.7	6.7	6.5	3.2 3.2	3.2		4.7 4.3	4.5	
				10.9	Middle	5.5	24.6 24.6	24.6	8.3 8.3	8.3	30.2 29.8	30.0	89.8 87.1	88.5	6.4 6.1	6.3	0.5	3.3 3.2	3.3	3.3	5.4 5.6	5.5	5.2
					Bottom	9.9	24.4 24.4	24.4	8.2 8.2	8.2	31.7 31.8	31.7	86.8 89.4	88.1	6.1 6.3	6.2	6.2	3.2 3.3	3.3		5.0 6.2	5.6	
18-May-16	Sunny	Moderate	11:08		Surface	1.0	24.7 24.7	24.7	8.5 8.5	8.5	29.5 29.5	29.5	96.9 97.8	97.4	6.8 6.9	6.8	6.8	5.2 5.2	5.2		10.0 10.0	10.0	
				11.0	Middle	5.5	24.6 24.6	24.6	8.5 8.5	8.5	29.8 29.9	29.9	96.1 96.6	96.4	6.7 6.8	6.8	0.0	5.5 5.3	5.4	5.4	10.0 11.1	10.6	10.0
					Bottom	10.0	24.6 24.6	24.6	8.5 8.5	8.5	30.1 30.0	30.1	93.7 94.7	94.2	6.6 6.7	6.6	6.6	5.5 5.4	5.5		9.6 9.2	9.4	
20-May-16	Rainy	Moderate	12:34		Surface	1.0	25.2 25.2	25.2	8.4 8.4	8.4	26.1 26.7	26.4	94.9 94.8	94.9	6.7 6.7	6.7	6.7	8.5 8.5	8.5		5.8 5.6	5.7	
				10.0	Middle	5.0	25.0 25.0	25.0	8.4 8.4	8.4	28.7 28.8	28.8	94.1 94.4	94.3	6.6 6.6	6.6	0.7	8.6 8.7	8.7	8.7	5.9 4.7	5.3	5.4
					Bottom	9.0	25.0 24.9	25.0	8.4 8.3	8.4	29.0 29.3	29.2	93.2 93.5	93.4	6.5 6.6	6.6	6.6	8.8 8.9	8.9		4.9 5.7	5.3	

* DA: Depth-Averaged

Water Quality Monitoring Results at IS17 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampling	g	Tempera	ature (°C)	F	Η	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ved Oxyger	ı (mg/L)	Т	urbidity(NTL	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth (m	ı)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-May-16	Sunny	Moderate	13:35		Surface 1	1.0	26.2 26.0	26.1	8.4 8.4	8.4	22.7 23.0	22.9	84.2 83.9	84.1	6.0 6.0	6.0	6.0	7.3 7.1	7.2		5.1 5.5	5.3	
				10.3	Middle 5	5.2	25.6 25.7	25.6	8.4 8.4	8.4	25.3 25.3	25.3	82.9 83.0	83.0	5.9 5.9	5.9	0.0	7.5 7.2	7.4	7.3	6.5 5.4	6.0	5.6
					Bottom	9.3	25.4 25.8	25.6	8.3 8.3	8.3	28.2 28.0	28.1	83.5 83.4	83.5	5.8 5.8	5.8	5.8	7.4 7.4	7.4		5.6 5.2	5.4	1
25-May-16	Sunny	Moderate	14:49		Surface 1	1.0	27.2 26.7	27.0	8.4 8.4	8.4	20.5 20.8	20.6	89.9 87.3	88.6	6.4 6.1	6.2	6.1	5.1 4.9	5.0		6.3 5.0	5.7	
				11.1	Middle 5	5.6	26.2 26.0	26.1	8.4 8.4	8.4	24.8 24.9	24.8	85.3 85.0	85.2	6.1 5.9	6.0	0.1	5.0 5.2	5.1	5.1	12.9 14.3	13.6	10.9
					Bottom 1	10.1	25.9 25.9	25.9	8.4 8.4	8.4	27.2 27.3	27.3	83.4 83.0	83.2	5.9 5.8	5.9	5.9	5.2 5.0	5.1		14.1 12.8	13.5	
27-May-16 ***	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
				-	Middle	-	-	-	-	-	-	-		-	-	-		-	-	-	-	-	-
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
30-May-16	Sunny	Moderate	12:52		Surface 1	1.0	28.0 28.1	28.1	8.4 8.4	8.4	16.8 16.9	16.9	93.9 92.7	93.3	6.7 6.6	6.7	6.5	2.5 2.5	2.5		4.0 3.7	3.9	
				10.8	Middle 5	5.4	27.6 27.3	27.4	8.4 8.4	8.4	19.8 20.7	20.3	90.5 87.9	89.2	6.3 6.1	6.2	0.5	2.5 2.4	2.5	2.5	4.0 2.6	3.3	3.7
					Bottom	9.8	26.9 27.0	26.9	8.2 8.2	8.2	27.8 27.5	27.7	85.8 89.5	87.7	6.0 6.2	6.1	6.1	2.5 2.6	2.6		4.2 3.5	3.9	

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

Remarks:

* DA: Depth-Averaged

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

Water Quality Monitoring Results at IS17 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Т	urbidity(NT	U)	Suspe	nded Solids	, (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
2-May-16	Sunny	Moderate	14:34		Surface	1.0	23.3 23.3	23.3	8.5 8.5	8.5	22.9 23.0	22.9	90.7 90.1	90.4	6.8 6.7	6.8	6.7	3.4 3.6	3.5		4.1 2.1	3.1	
				10.8	Middle	5.4	22.7 22.7	22.7	8.4 8.4	8.4	25.7 25.6	25.7	90.3 89.6	90.0	6.6 6.6	6.6	0.7	3.5 3.5	3.5	3.5	4.2 5.1	4.7	3.8
					Bottom	9.8	22.9 22.4	22.6	8.4 8.4	8.4	28.5 29.0	28.8	88.8 87.8	88.3	6.6 6.5	6.6	6.6	3.6 3.5	3.6		3.9 3.2	3.6	
4-May-16	Sunny	Moderate	16:57		Surface	1.0	24.8 25.0	24.9	8.5 8.4	8.5	20.4 20.3	20.4	97.8 102.0	99.9	7.2 7.5	7.4	7.2	3.3 3.2	3.3		3.0 3.8	3.4	
				10.8	Middle	5.4	23.7 23.8	23.8	8.4 8.4	8.4	23.9 23.5	23.7	93.7 93.3	93.5	6.9 6.9	6.9	1.2	3.9 3.9	3.9	3.9	4.3 4.0	4.2	3.5
					Bottom	9.8	23.6 23.6	23.6	8.4 8.4	8.4	25.3 25.2	25.2	97.7 95.1	96.4	7.2 7.0	7.1	7.1	4.4 4.3	4.4		2.6 2.9	2.8	
6-May-16	Sunny	Moderate	18:35		Surface	1.0	24.8 24.8	24.8	8.4 8.4	8.4	21.1 21.9	21.5	87.8 84.1	86.0	6.4 6.2	6.3	6.3	9.2 9.3	9.3		4.6 3.9	4.3	
				10.8	Middle	5.4	24.5 24.4	24.5	8.4 8.3	8.4	24.5 24.8	24.7	86.7 84.0	85.4	6.3 6.1	6.2	0.3	9.7 9.6	9.7	9.6	6.5 5.7	6.1	5.5
					Bottom	9.8	24.2 24.3	24.2	8.3 8.3	8.3	26.2 26.2	26.2	86.7 84.0	85.4	6.3 6.1	6.2	6.2	9.5 9.9	9.7		6.4 5.7	6.1	
9-May-16	Sunny	Moderate	08:05		Surface	1.0	25.4 25.3	25.3	8.4 8.4	8.4	20.4 20.5	20.4	81.9 87.2	84.6	6.0 6.3	6.1	6.1	5.5 5.5	5.5		4.3 5.1	4.7	
				10.1	Middle	5.1	24.9 24.7	24.8	8.4 8.4	8.4	22.0 23.7	22.8	81.7 84.5	83.1	6.0 6.1	6.0	0.1	5.5 5.4	5.5	5.5	5.5 5.0	5.3	4.9
					Bottom	9.1	24.4 24.9	24.7	8.3 8.3	8.3	26.9 26.0	26.4	83.8 81.5	82.7	6.1 5.8	6.0	6.0	5.5 5.6	5.6		4.8 4.4	4.6	
11-May-16	Sunny	Moderate	09:18		Surface	1.0	25.8 25.9	25.8	8.4 8.3	8.3	14.1 14.1	14.1	90.4 81.0	85.7	6.5 6.1	6.3	6.3	4.2 4.1	4.2		3.0 3.5	3.3	
				11.1	Middle	5.6	24.9 24.7	24.8	8.3 8.2	8.3	18.4 18.3	18.4	86.7 79.6	83.2	6.5 6.0	6.2	0.0	4.2 4.3	4.3	4.3	4.6 5.1	4.9	4.0
					Bottom	10.1	24.3 24.2	24.2	8.1 8.2	8.1	27.7 27.5	27.6	79.5 83.2	81.4	5.7 6.3	6.0	6.0	4.4 4.5	4.5		4.0 3.6	3.8	
13-May-16	Sunny	Moderate	11:03		Surface	1.0	25.3 25.3	25.3	8.3 8.3	8.3	20.0 20.2	20.1	91.3 92.9	92.1	6.9 6.8	6.9	6.8	3.2 3.3	3.3		4.9 4.6	4.8	
				11.3	Middle	5.7	25.3 25.2	25.2	8.3 8.3	8.3	20.2 20.5	20.3	91.2 90.1	90.7	6.7 6.6	6.6		3.3 3.3	3.3	3.4	3.7 5.2	4.5	4.6
					Bottom	10.3	25.2 25.3	25.2	8.3 8.3	8.3	21.7 21.6	21.6	88.7 89.5	89.1	6.5 6.6	6.5	6.5	3.5 3.4	3.5		4.4 4.7	4.6	
16-May-16	Sunny	Moderate	15:27		Surface	1.0	26.3 26.0	26.2	8.6 8.6	8.6	17.9 19.5	18.7	103.4 101.3	102.4	7.6 7.4	7.5	7.3	4.1 4.2	4.2		8.5 8.4	8.5	
				10.8	Middle	5.4	24.5 24.5	24.5	8.4 8.5	8.5	26.5 25.8	26.1	100.6	100.7	7.1 7.1	7.1		4.3 4.4	4.4	4.3	8.7 7.2	8.0	8.3
			10.10		Bottom	9.8	24.4 24.5	24.5	8.4 8.4	8.4	30.3 29.9	30.1	94.4 96.4	95.4	6.8 7.0	6.9	6.9	4.1 4.2	4.2		7.7 9.3	8.5	
18-May-16	Sunny	Moderate	16:46		Surface	1.0	25.2 25.4	25.3	8.6 8.6	8.6	26.8 26.4	26.6	110.0 110.0	110.0	7.8	7.8	7.6	4.2 4.3	4.3		6.4 5.4	5.9	
				11.1	Middle	5.6	24.6 24.6	24.6	8.5 8.5	8.5	29.5 29.3	29.4	109.9 98.1	104.0	7.7 6.9	7.3		4.3 4.3	4.3	4.3	5.4 5.3	5.4	5.5
00.14	011	Madavat	10.00		Bottom	10.1	24.6 24.5	24.6	8.5 8.5	8.5	29.7 29.7	29.7	104.6 95.5	100.1	7.4 6.7	7.0	7.0	4.3 4.4	4.4		5.4 5.2	5.3	
20-May-16	Cloudy	Moderate	18:39		Surface	1.0	25.3 25.2	25.2	8.5 8.5	8.5	25.3 25.5	25.4	93.4 93.9	93.7	6.7 6.7	6.7	6.7	9.2 9.6	9.4		3.5 2.7	3.1	
				10.6	Middle	5.3	25.1 25.1	25.1	8.5 8.5	8.5	28.5 28.0	28.3	93.8 93.1	93.5	6.6 6.6	6.6		9.5 9.6	9.6	9.6	3.9 3.4	3.7	3.5
					Bottom	9.6	25.0 25.1	25.1	8.4 8.4	8.4	29.1 28.9	29.0	93.5 92.8	93.2	6.6 6.5	6.5	6.5	9.8 9.6	9.7		4.1 3.0	3.6	

* DA: Depth-Averaged

Water Quality Monitoring Results at IS17 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Sampli	ing	Tempera	ature (°C)	p	Н	Salinit	y (ppt)	DO Satu	ration (%)	Dissolv	ved Oxyger	i (mg/L)	Т	urbidity(NTL	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth ((m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-May-16	Sunny	Moderate	07:18		Surface	1.0	25.9 25.9	25.9	8.4 8.4	8.4	22.2 22.0	22.1	85.1 85.9	85.5	6.1 6.2	6.1	6.1	4.6 4.6	4.6		4.2 5.0	4.6	
				10.7	Middle	5.4	25.6 25.6	25.6	8.4 8.4	8.4	26.9 27.1	27.0	85.4 84.4	84.9	6.0 5.9	6.0	0.1	4.6 4.5	4.6	4.6	4.2 3.6	3.9	4.0
					Bottom	9.7	25.6 25.3	25.4	8.3 8.3	8.3	29.2 29.3	29.2	84.8 87.4	86.1	5.9 6.1	6.0	6.0	4.5 4.5	4.5		3.3 3.7	3.5	
25-May-16	Sunny	Moderate	07:59		Surface	1.0	26.8 26.9	26.9	8.4 8.3	8.4	20.6 20.4	20.5	87.1 86.6	86.9	6.1 6.2	6.2	6.1	3.4 3.5	3.5		6.9 7.0	7.0	
				10.5	Middle	5.3	26.1 25.9	26.0	8.3 8.3	8.3	25.5 26.4	25.9	86.0 84.0	85.0	6.0 5.8	5.9	0.1	3.4 3.6	3.5	3.5	8.1 6.3	7.2	7.2
					Bottom	9.5	25.7 26.1	25.9	8.3 8.3	8.3	29.1 28.9	29.0	84.3 82.8	83.6	5.9 5.8	5.9	5.9	3.6 3.6	3.6		8.3 6.7	7.5	
27-May-16 ***	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	-		-		-	-	-		-		-		-	-	-	-	-	-
					Bottom	-		-		-	-	-		-		-	-	-	-		-	-	
30-May-16	Sunny	Moderate	08:10		Surface	1.0	27.9 27.6	27.7	8.4 8.3	8.3	14.6 14.9	14.8	86.4 84.8	85.6	6.3 6.1	6.2	6.1	3.0 3.1	3.1		2.5 2.9	2.7	
				10.5	Middle	5.3	27.0 27.1	27.0	8.2 8.2	8.2	21.4 21.4	21.4	83.7 83.3	83.5	5.9 5.9	5.9	0.1	4.1 4.1	4.1	3.8	2.9 3.1	3.0	3.2
					Bottom	9.5	27.1 26.8	26.9	8.1 8.1	8.1	27.2 27.8	27.5	82.8 83.2	83.0	5.8 5.9	5.8	5.8	4.2 4.3	4.3		4.5 3.4	4.0	

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

Remarks:

* DA: Depth-Averaged

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

Water Quality Monitoring Results at SR3 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	ъН	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	/ed Oxyger	(mg/L)	Т	urbidity(NTl	J)	Suspe	ended Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
2-May-16	Sunny	Moderate	-		Surface	-	-	-		-	-	-	-	-	-	-	7.1	-	-		-	-	
				1.4	Middle	0.7	23.3 23.3	23.3	8.4 8.4	8.4	23.9 24.0	24.0	95.4 95.1	95.3	7.1 7.1	7.1	7.1	3.2 3.2	3.2	3.2	5.1 5.3	5.2	5.2
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	ļ
4-May-16	Sunny	Moderate	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	i
				1.4	Middle	0.7	24.5 24.5	24.5	8.4 8.4	8.4	20.8 20.8	20.8	101.4 101.3	101.4	7.5 7.5	7.5	7.5	3.3 3.5	3.4	3.4	7.7 8.2	8.0	8.0
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	ļ
6-May-16	Sunny	Moderate	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				1.4	Middle	0.7	24.8 24.8	24.8	8.3 8.3	8.3	23.9 23.9	23.9	88.0 87.9	88.0	6.4 6.4	6.4	6.4	7.5 7.6	7.6	7.6	10.8 9.7	10.3	10.3
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	ļ
9-May-16	Sunny	Moderate	-		Surface	-	-	-	-	-	-	-	-	-	-	-			-		-	-	
				1.6	Middle	0.8	25.7 25.7	25.7	8.6 8.6	8.6	18.8 19.2	19.0	91.1 89.3	90.2	6.7 6.5	6.6	6.6	11.5 11.6	11.6	11.6	13.8 13.0	13.4	13.4
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	ļ
11-May-16	Sunny	Moderate	-		Surface	-	-	-	-	-	-	-	-	-	-	-			-		-	-	
				1.6	Middle	0.8	26.4 26.4	26.4	8.5 8.5	8.5	15.7 15.6	15.7	91.9 92.9	92.4	6.8 6.9	6.8	6.8	7.1 7.1	7.1	7.1	8.7 8.7	8.7	8.7
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	ļ
13-May-16	Sunny	Moderate	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				1.4	Middle	0.7	25.6 25.6	25.6	8.4 8.4	8.4	19.1 18.9	19.0	100.3 100.0	100.2	7.4 7.3	7.4	7.4	6.7 6.6	6.7	6.7	10.0 8.2	9.1	9.1
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	ļ
16-May-16	Sunny	Moderate	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				1.4	Middle	0.7	26.0 26.0	26.0	8.5 8.5	8.5	19.1 19.5	19.3	107.3 106.3	106.8	7.8 7.7	7.8	7.8	4.2	4.2	4.2	5.7 6.6	6.2	6.2
					Bottom	-	- 20.0	-	-	-	-	-	-	-	-	-	-	-	-		-	-	ļ
18-May-16	Sunny	Moderate	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				1.6	Middle	0.8	- 25.1 25.1	25.1	- 8.6 8.6	8.6	- 26.5 26.5	26.5	- 117.2	117.1	8.3	8.3	8.3	- 5.3 5.4	5.4	5.4	7.7	7.4	7.4
					Bottom	-	- 25.1	-	-	-	- 26.5	-	116.9 -	-	8.3	-	-	- 5.4	-		7.1	-	
20-May-16	Rainy	Moderate	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				1.2	Middle	0.6	25.3	25.3	8.5	8.5	27.3	27.3	98.9	98.9	7.0	7.0	7.0	9.7	9.9	9.9	14.7	14.4	14.4
					Bottom	-	- 25.3	-	8.5	-	27.3	-	98.9	-	7.0	-	-	10.1	-		- 14.0	-	ļ
							-	I	-	I	-		-		-			-					

Remarks:

* DA: Depth-Averaged

Water Quality Monitoring Results at SR3 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ved Oxygen	(mg/L)	Т	urbidity(NT	J)	Suspe	ended Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-May-16	Sunny	Moderate	-		Surface	-	-	-	-	-	-	-	-	-	-	-	6.7	-	-		-	-	
				1.4	Middle	0.7	26.7 26.8	26.8	8.7 8.6	8.6	21.3 21.0	21.2	95.5 94.2	94.9	6.8 6.7	6.7	0.7	6.7 6.6	6.7	6.7	8.9 7.0	8.0	8.0
					Bottom	I	-	-	-	-	-	-	-	-		-	-	-	-		-	-	
25-May-16	Sunny	Moderate	-		Surface	-	-	-	-	-	-	-	-	-	-	-	7.3	-	-		-	-	
				1.6	Middle	0.8	27.5 27.6	27.5	8.6 8.5	8.6	20.3 20.0	20.1	106.3 101.3	103.8	7.5 7.2	7.3	7.5	5.8 6.0	5.9	5.9	11.6 12.5	12.1	12.1
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
27-May-16 ***	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Bottom	•	-	-	-	-	-	-	-	-		-	-	-	-		-	-	
30-May-16	Sunny	Moderate	-		Surface	-	-	-	-	-	-	-	-	-	-	-	7.5	-	-		-	-	
				1.4	Middle	0.7	28.2 28.2	28.2	8.5 8.5	8.5	17.8 17.9	17.8	105.0 107.8	106.4	7.4 7.6	7.5	1.5	2.5 2.7	2.6	2.6	6.0 6.0	6.0	6.0
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level. CS4 and CS(Mf)3 are considered as upstream contol stations of mid-ebb tide. The averaged turbidity and suspended solid values of these stations will be used for determination of Action and Limit Levels.

Remarks:

* DA: Depth-Averaged

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

Water Quality Monitoring Results at SR3 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	ł	ъН	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ed Oxyger	(mg/L)	T T	urbidity(NT	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
2-May-16	Sunny	Moderate	-		Surface	-	-	-	-	-	-	-	-	-	-	-	7.0	-	-		-	-	
				1.6	Middle	0.8	23.4 23.2	23.3	8.4 8.4	8.4	23.9 24.0	23.9	95.0 94.4	94.7	7.1 7.0	7.0	7.0	2.8 2.8	2.8	2.8	9.7 8.6	9.2	9.2
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
4-May-16	Sunny	Moderate	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				1.6	Middle	0.8	24.6 24.5	24.5	8.5 8.5	8.5	23.0 22.9	22.9	97.0 98.4	97.7	7.1 7.2	7.1	7.1	3.4 3.6	3.5	3.5	4.5 5.4	5.0	5.0
					Bottom	-	-	-		-	-	-	-	-		-	-	-	-		-	-	
6-May-16	Sunny	Moderate	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				1.6	Middle	0.8	25.0 25.0	25.0	8.5 8.5	8.5	24.9 25.0	25.0	93.9 94.0	94.0	6.7 6.7	6.7	6.7	5.5 5.7	5.6	5.6	7.6 7.4	7.5	7.5
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
9-May-16	Sunny	Moderate	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				1.6	Middle	0.8	25.8 25.8	25.8	8.2 8.2	8.2	21.1 21.2	21.1	82.8 82.8	82.8	6.0 6.0	6.0	6.0	6.1 6.2	6.2	6.2	8.2 7.5	7.9	7.9
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
11-May-16	Sunny	Moderate	-		Surface	-	-	-	-	-	-	-	-	-	-	-	<u> </u>	-	-		-	-	
				1.6	Middle	0.8	25.8 25.8	25.8	8.1 8.1	8.1	15.9 15.9	15.9	81.1 81.1	81.1	6.0 6.0	6.0	6.0	4.5 4.4	4.5	4.5	6.7 6.8	6.8	6.8
					Bottom	-	-	-		-	-	-	-	-	-	-	-	-	-		-	-	
13-May-16	Sunny	Moderate	-		Surface	-	-	-	-	-	-	-	-	-	-	-	6.7	-	-		-	-	
				1.6	Middle	0.8	25.4 25.3	25.4	8.3 8.3	8.3	20.4 20.4	20.4	92.5 91.9	92.2	6.8 6.7	6.7	0.7	4.7 4.6	4.7	4.7	7.9 8.4	8.2	8.2
					Bottom	•	-	-	-	-	-	-	-	-		-	-	-	-		-	-	
16-May-16	Sunny	Moderate	-		Surface	-	-	-	-	-	-	-	-	-	-	-	9.6	-	-		-	-	
				1.6	Middle	0.8	26.5 26.5	26.5	8.6 8.5	8.6	17.1 16.9	17.0	131.1 130.5	130.8	9.6 9.6	9.6	5.0	3.1 3.1	3.1	3.1	6.7 6.6	6.7	6.7
					Bottom	1	-	-		-	-	-	-	-		-	•	-	-		-	-	
18-May-16	Sunny	Moderate	-		Surface	-	-	-	-	-	-	-	-	-	-	-	8.3	-	-		-	-	
				1.6	Middle	0.8	25.6 25.6	25.6	8.6 8.6	8.6	23.2 23.5	23.4	115.7 115.8	115.8	8.3 8.3	8.3	0.5	5.6 5.4	5.5	5.5	7.5 6.3	6.9	6.9
					Bottom	-	-	-		-	-	-	-	-		-	-	-	-		-	-	
20-May-16	Cloudy	Moderate	-		Surface	-	-	-	-	-	-	-	-	-	-	-	7.0	-	-		-	-	
				1.4	Middle	0.7	25.4 25.4	25.4	8.5 8.5	8.5	26.7 26.7	26.7	99.2 100.2	99.7	7.0 7.1	7.0	7.0	8.0 8.2	8.1	8.1	12.2 11.5	11.9	11.9
					Bottom	-	-	-	-	-	-	-	-	-		-	-	-	-		-	-	

Remarks:

* DA: Depth-Averaged

Water Quality Monitoring Results at SR3 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	F	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ved Oxyger	n (mg/L)	Т	urbidity(NTL	J)	Suspe	ended Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-May-16	Sunny	Moderate	-		Surface	-	-	-	-	-	-	-	-	-	-	-	<u> </u>	-	-		-	-	
				1.4	Middle	0.7	26.2 26.1	26.2	8.3 8.3	8.3	23.5 23.5	23.5	87.6 86.9	87.3	6.2 6.2	6.2	6.2	4.5 4.5	4.5	4.5	5.8 4.6	5.2	5.2
					Bottom	-	-	-		-		-		-	-	-	-	-	-		-	-	
25-May-16	Sunny	Moderate	-		Surface	-	-	-	-	-	-	-	-	-	-	-	6.8	-	-		-	-	
				1.8	Middle	0.9	26.9 26.9	26.9	8.4 8.3	8.4	20.7 20.7	20.7	96.4 96.0	96.2	6.9 6.8	6.8	0.0	4.0 4.0	4.0	4.0	7.7 9.4	8.6	8.6
					Bottom	-	-	-		-	-	-	-	-	-	-	-	-	-		-	-	
27-May-16 ***	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	-	-	-		-		-		-	-	-		-	-	-	-	-	-
					Bottom	-	-	-		-		-		-	-	-	-	-	-		-	-	
30-May-16	Sunny	Moderate	-		Surface	-	-	-	-	-	-	-	-	-	-	-	6.8	-	-		-	-	
				1.6	Middle	0.8	27.9 27.8	27.8	8.4 8.4	8.4	18.5 18.7	18.6	96.6 95.5	96.1	6.8 6.8	6.8	0.0	3.7 3.7	3.7	3.7	5.5 6.7	6.1	6.1
					Bottom	-	-	-		-	-	-	-	-	-	-	-	-	-		-	-	

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level. CS6, CSA and CS(Mf)5 are considered as upstream contol stations of mid-flood tide. The averaged turbidity and suspended solid values of these stations will be used for determination of Action and Limit Levels.

Remarks:

* DA: Depth-Averaged

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

Water Quality Monitoring Results at SR4(N) - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	þ	н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	(mg/L)	Г	Furbidity(NT	J)	Suspe	nded Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
2-May-16	Sunny	Moderate	10:19		Surface	1.0	23.4 23.5	23.4	8.4 8.4	8.4	24.8 24.8	24.8	100.2 101.3	100.8	7.4 7.5	7.4	7.4	2.2 2.0	2.1		3.8 4.2	4.0	
				3.7	Middle	-	-	-	-	-	-	-	-	-	-	-	7.4	-	-	2.2	-	-	4.1
					Bottom	2.7	23.4 23.2	23.3	8.4 8.4	8.4	24.8 25.0	24.9	100.6 99.5	100.1	7.4 7.4	7.4	7.4	2.1 2.2	2.2		3.7 4.5	4.1	
4-May-16	Sunny	Moderate	11:44		Surface	1.0	24.3 24.5	24.4	8.4 8.4	8.4	20.2 20.2	20.2	99.7 100.8	100.3	7.4 7.5	7.5		3.1 3.3	3.2		4.4	4.1	
				3.7	Middle	-	-	-	-	-	-	-	-	-	-	-	7.5	-	-	3.6	-	-	4.4
					Bottom	2.7	24.2 24.2	24.2	8.4 8.4	8.4	23.1 22.0	22.5	101.0 100.0	100.5	7.4 7.4	7.4	7.4	4.1 3.8	4.0		4.9 4.2	4.6	
6-May-16	Sunny	Moderate	13:14		Surface	1.0	24.9 24.7	24.8	8.3 8.3	8.3	23.5 24.1	23.8	88.8 89.7	89.3	6.4 6.5	6.5		6.4 6.3	6.4		2.6 3.1	2.9	
				3.6	Middle	-	-	-	-	-	-	-	-	-	-	-	6.5	-	-	6.4	-	-	4.2
					Bottom	2.6	24.1 24.5	24.3	8.3 8.3	8.3	25.7 25.1	25.4	87.8 89.0	88.4	6.4 6.4	6.4	6.4	6.3 6.2	6.3		4.7 6.3	5.5	
9-May-16	Sunny	Moderate	14:13		Surface	1.0	26.0 26.0	26.0	8.3 8.3	8.3	19.3 19.3	19.3	87.3 88.5	87.9	6.4 6.4	6.4		6.2 6.4	6.3		3.7 4.0	3.9	i
				3.7	Middle	-	-	-	-	-	-	-	-	-	-	-	6.4	-	-	6.4	-	-	4.7
					Bottom	2.7	25.9 25.8	25.8	8.3 8.3	8.3	20.4 20.3	20.4	87.6 89.9	88.8	6.4 6.5	6.4	6.4	6.5 6.5	6.5		4.9 5.8	5.4	
11-May-16	Sunny	Moderate	15:25		Surface	1.0	26.4 26.2	26.3	8.2 8.3	8.3	14.8 14.9	14.9	91.1 93.8	92.5	6.8 7.0	6.9	6.9	4.9 4.8	4.9		3.7 4.1	3.9	
				3.2	Middle	-	-	-	-	-	-	-	-	-	-	-	0.9	-	-	4.9	-	-	4.1
					Bottom	2.2	26.1 26.5	26.3	8.3 8.2	8.3	15.1 14.8	15.0	92.1 90.0	91.1	6.9 6.7	6.8	6.8	4.9 4.9	4.9		4.9 3.6	4.3	
13-May-16	Sunny	Moderate	17:57		Surface	1.0	25.4 25.5	25.5	8.3 8.3	8.3	20.0 19.8	19.9	97.5 96.7	97.1	7.1 7.1	7.1	7.1	5.3 5.2	5.3		6.0 5.6	5.8	
				3.8	Middle	-	-	-		-	-	-	-	-	-	-	7.1	-	-	5.4	-	-	5.7
					Bottom	2.8	25.4 25.4	25.4	8.3 8.3	8.3	20.4 19.8	20.1	95.3 95.8	95.6	7.0 7.0	7.0	7.0	5.4 5.4	5.4		5.5 5.4	5.5	
16-May-16	Sunny	Moderate	10:33		Surface	1.0	25.9 25.9	25.9	8.5 8.5	8.5	19.8 19.8	19.8	114.4 115.3	114.9	8.3 8.4	8.3	8.3	2.6 2.5	2.6		3.0 2.6	2.8	
				3.6	Middle	-	-	-	-	-	-	-	-	-	-	-	0.5	-	-	2.6	-	-	3.2
					Bottom	2.6	26.0 26.0	26.0	8.5 8.5	8.5	22.0 21.5	21.7	114.4 115.1	114.8	8.2 8.3	8.2	8.2	2.6 2.5	2.6		3.6 3.6	3.6	
18-May-16	Sunny	Moderate	11:28		Surface	1.0	24.9 24.9	24.9	8.6 8.6	8.6	26.5 26.7	26.6	114.3 114.5	114.4	8.1 8.1	8.1	8.1	3.4 3.4	3.4		5.6 5.6	5.6	
				3.3	Middle	-	-	-	-	-		-		-	-	-	0.1	-	-	3.4	-	-	5.5
					Bottom	2.3	24.8 25.0	24.9	8.6 8.6	8.6	27.0 26.5	26.8	112.9 114.5	113.7	8.0 8.1	8.1	8.1	3.4 3.4	3.4		5.7 5.1	5.4	
20-May-16	Rainy	Moderate	12:55		Surface	1.0	25.4 25.5	25.5	8.5 8.5	8.5	27.9 27.8	27.9	106.5 106.7	106.6	7.5 7.5	7.5	7.5	6.4 6.6	6.5		6.4 6.6	6.5	
				3.7	Middle	-	-	-	-	-	-	-	-	-	-	-	1.5	-	-	6.6	-	-	6.4
					Bottom	2.7	25.4 25.4	25.4	8.5 8.5	8.5	27.9 27.9	27.9	106.5 106.3	106.4	7.5 7.4	7.4	7.4	6.7 6.6	6.7		6.2 6.2	6.2	

* DA: Depth-Averaged

Water Quality Monitoring Results at SR4(N) - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampli	ing	Tempera	ature (°C)	F	эΗ	Salinit	ty (ppt)	DO Satu	ration (%)	Dissolv	ved Oxyger	(mg/L)	Т	urbidity(NT	J)	Suspe	nded Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth ((m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-May-16	Sunny	Moderate	13:12		Surface	1.0	26.5 26.5	26.5	8.4 8.4	8.4	22.1 22.1	22.1	98.0 96.4	97.2	7.0 6.8	6.9	6.9	5.6 5.9	5.8		5.1 4.8	5.0	
				3.9	Middle	-		-		-		-		-		-	0.5	-	-	5.8	-	-	5.5
					Bottom	2.9	26.3 26.5	26.4	8.4 8.4	8.4	23.4 23.4	23.4	95.9 97.7	96.8	6.8 6.9	6.8	6.8	5.8 5.8	5.8		5.9 5.9	5.9	
25-May-16	Sunny	Moderate	14:25		Surface	1.0	27.4 27.1	27.3	8.5 8.5	8.5	20.3 20.4	20.3	100.7 105.3	103.0	7.1 7.5	7.3	7.3	6.0 5.8	5.9		7.9 6.2	7.1	
				3.3	Middle	-		-	-	-	-	-	-	-	-	-	7.0	-	-	6.0	-	-	8.8
					Bottom	2.3	27.5 27.0	27.2	8.5 8.5	8.5	20.9 21.4	21.1	105.2 95.8	100.5	7.4 6.8	7.1	7.1	5.9 6.0	6.0		10.5 10.4	10.5	
27-May-16 ***	-	-	-		Surface	-		-		-		-		-		-	-	-	-		-	-	
				-	Middle	-		-		-	-	-	-	-	-	-		-	-	=	-	-	-
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
30-May-16	Sunny	Moderate	12:32		Surface	1.0	28.2 28.2	28.2	8.4 8.4	8.4	17.2 17.0	17.1	102.8 101.9	102.4	7.3 7.2	7.3	7.3	4.7 4.4	4.6		3.2 2.3	2.8	
				3.8	Middle	-	-	-		-	-	-	-	-		-	1.5	-	-	4.6	-	-	2.9
					Bottom	2.8	28.1 28.2	28.2	8.4 8.4	8.4	17.5 17.3	17.4	100.9 101.9	101.4	7.2 7.2	7.2	7.2	4.5 4.6	4.6		3.2 2.7	3.0	

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

Remarks:

* DA: Depth-Averaged

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

Water Quality Monitoring Results at SR4(N) - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	н	Salini	ity (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	۲	urbidity(NT	U)	Suspe	ended Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
2-May-16	Sunny	Moderate	14:13		Surface	1.0	23.4 23.4	23.4	8.5 8.5	8.5	25.1 25.1	25.1	98.3 96.7	97.5	7.3 7.1	7.2	7.2	3.7 3.6	3.7		3.7 3.3	3.5	
				3.9	Middle	-		-	-	-	-	-	-	-	-	-	1.2	-	-	3.7	-	-	3.2
					Bottom	2.9	23.3 23.1	23.2	8.5 8.5	8.5	25.5 25.9	25.7	97.7 96.0	96.9	7.2 7.1	7.1	7.1	3.7 3.6	3.7		2.7 3.1	2.9	
4-May-16	Sunny	Moderate	16:23		Surface	1.0	24.8 24.6	24.7	8.5 8.5	8.5	21.1 21.2	21.1	100.0 98.5	99.3	7.4 7.3	7.3	7.3	6.9 7.5	7.2		6.0 6.7	6.4	
				3.6	Middle	-	-	-	-	-		-	-	-	-	-	7.0	-	-	7.5	-	-	6.8
					Bottom	2.6	24.3 24.2	24.3	8.4 8.4	8.4	22.8 22.9	22.9	97.4 98.6	98.0	7.2 7.3	7.2	7.2	7.9 7.5	7.7		6.8 7.6	7.2	
6-May-16	Sunny	Moderate	18:16		Surface	1.0	25.1 25.0	25.1	8.4 8.4	8.4	23.4 23.7	23.5	91.7 92.8	92.3	6.6 6.7	6.7	6.7	4.4 4.5	4.5		4.2 4.3	4.3	
				3.7	Middle	-		-	-	-	-	-	-	-	-	-	0.7	-	-	4.5	-	-	3.9
					Bottom	2.7	24.9 24.7	24.8	8.4 8.4	8.4	24.1 24.3	24.2	91.8 94.3	93.1	6.6 6.8	6.7	6.7	4.4 4.5	4.5		3.0 3.7	3.4	
9-May-16	Sunny	Moderate	08:26		Surface	1.0	25.5 25.5	25.5	8.2 8.2	8.2	19.6 19.6	19.6	80.3 80.0	80.2	5.9 5.9	5.9	5.9	7.5 7.7	7.6		8.6 8.1	8.4	
				3.8	Middle	-	-	-	-	-	-	-	-	-	-	-	5.5	-	-	7.7	-	-	8.9
					Bottom	2.8	25.5 25.4	25.4	8.2 8.2	8.2	19.8 20.1	19.9	80.1 79.9	80.0	5.9 5.9	5.9	5.9	7.6 7.7	7.7		9.1 9.5	9.3	
11-May-16	Sunny	Moderate	09:37		Surface	1.0	25.7 25.7	25.7	8.1 8.1	8.1	14.6 14.5	14.6	79.8 79.5	79.7	6.0 6.0	6.0	6.0	5.0 4.9	5.0		5.8 5.4	5.6	
				3.5	Middle	-		-	-	-	-	-	-	-	-	-	0.0	-	-	5.0	-	-	5.1
					Bottom	2.5	25.7 25.7	25.7	8.1 8.1	8.1	15.3 14.7	15.0	79.3 79.6	79.5	6.0 6.0	6.0	6.0	4.9 5.0	5.0		4.7 4.2	4.5	
13-May-16	Sunny	Moderate	11:25		Surface	1.0	25.3 25.3	25.3	8.3 8.3	8.3	19.8 19.9	19.9	86.9 86.9	86.9	6.4 6.4	6.4	6.4	5.2 5.3	5.3		5.3 6.1	5.7	
				3.8	Middle	-	-	-	-	-	-	-	-	-	-	-	0.4	-	-	5.4	-	-	5.6
					Bottom	2.8	25.3 25.3	25.3	8.3 8.3	8.3	20.6 20.3	20.4	86.6 86.9	86.8	6.4 6.4	6.4	6.4	5.4 5.4	5.4		5.7 5.0	5.4	
16-May-16	Sunny	Moderate	15:06		Surface	1.0	26.3 26.2	26.3	8.5 8.5	8.5	17.9 18.6	18.3	129.2 132.1	130.7	9.3 9.6	9.5	9.5	7.2 7.3	7.3		9.1 9.9	9.5	
				3.9	Middle	-	-	-	-	-	-	-	-	-	-	-	9.5	-	-	7.4	-	-	9.6
					Bottom	2.9	26.1 25.9	26.0	8.5 8.5	8.5	21.3 20.7	21.0	122.4 119.2	120.8	8.9 8.6	8.8	8.8	7.5 7.2	7.4		9.9 9.2	9.6	
18-May-16	Sunny	Moderate	16:24		Surface	1.0	25.0 25.1	25.0	8.6 8.6	8.6	27.6 27.2	27.4	109.2 106.0	107.6	7.7 7.5	7.6	7.0	6.5 6.5	6.5		8.7 8.4	8.6	
				3.3	Middle	-	-	-	-	-		-	-	-		-	7.6	-	-	6.6	-	-	9.2
					Bottom	2.3	24.8 25.1	25.0	8.6 8.6	8.6	28.1 27.4	27.7	102.5 108.4	105.5	7.2 7.7	7.4	7.4	6.6 6.5	6.6		9.4 10.0	9.7	
20-May-16	Cloudy	Moderate	18:18		Surface	1.0	25.3 25.3	25.3	8.5 8.5	8.5	28.1 28.2	28.2	97.2 97.0	97.1	6.8 6.8	6.8	6.9	16.5 16.4	16.5		37.8 38.3	38.1	
				3.8	Middle	-	-	-	-	-	-	-	-	-	-	-	6.8	-	-	16.6	-	-	<u>37.6</u>
					Bottom	2.8	25.3 25.3	25.3	8.5 8.5	8.5	28.3 28.2	28.2	97.3 97.1	97.2	6.8 6.8	6.8	6.8	16.8 16.5	16.7		37.1 36.8	37.0	1

Remarks:

* DA: Depth-Averaged

Water Quality Monitoring Results at SR4(N) - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Sampl	ing	Tempera	ature (°C)	p	Η	Salinit	y (ppt)	DO Satu	ration (%)	Dissolv	ed Oxyger	(mg/L)	Т	urbidity(NTL	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-May-16	Sunny	Moderate	07:37		Surface	1.0	25.9 25.9	25.9	8.3 8.3	8.3	22.1 21.9	22.0	84.3 84.3	84.3	6.1 6.1	6.1	6.1	4.3 4.1	4.2		5.4 4.0	4.7	
				3.7	Middle	-	-	-		-	-	-	-	-		-	0.1	-	-	4.2	-	-	4.9
					Bottom	2.7	25.9 25.8	25.9	8.3 8.3	8.3	23.6 23.8	23.7	84.2 84.5	84.4	6.0 6.0	6.0	6.0	4.2 4.2	4.2		5.6 4.5	5.1	
25-May-16	Sunny	Moderate	08:21		Surface	1.0	26.7 26.6	26.6	8.3 8.3	8.3	20.9 20.8	20.8	85.7 85.7	85.7	6.1 6.1	6.1	6.1	4.2 4.3	4.3		7.1 6.2	6.7	
				3.4	Middle	-	-	-		-	-	-	-	-	-	-	0.1	-	-	4.3	-	-	6.6
					Bottom	2.4	26.7 26.5	26.6	8.3 8.3	8.3	20.7 21.6	21.2	85.6 85.6	85.6	6.1 6.1	6.1	6.1	4.3 4.3	4.3		7.0 5.8	6.4	
27-May-16 ***	-	-	-		Surface	-	-	-	-	-	-	-	-	-		-	-	-	-		-	-	
				-	Middle	-	-	-		-	-	-	-	-		-	-	-	-	-	-	-	-
					Bottom	-	-	-		-	-	-	-	-		-	-	-	-		-	-	
30-May-16	Sunny	Moderate	08:31		Surface	1.0	27.9 28.0	27.9	8.4 8.4	8.4	17.3 17.4	17.4	102.0 104.0	103.0	7.3 7.4	7.3	7.3	4.3 4.3	4.3		5.3 5.6	5.5	
				3.8	Middle	-	-	-		-	-	-	-	-		-	7.5	-	-	4.3	-	-	6.0
					Bottom	2.8	27.7 27.8	27.7	8.3 8.3	8.3	19.2 19.3	19.2	102.2 102.6	102.4	7.2 7.2	7.2	7.2	4.2 4.4	4.3		6.3 6.7	6.5	

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

Remarks:

* DA: Depth-Averaged

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

Water Quality Monitoring Results at SR5 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	н	Salini	ity (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	(mg/L)	1	Turbidity(NT	J)	Suspe	ended Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
2-May-16	Sunny	Moderate	10:02		Surface	1.0	23.3 23.3	23.3	8.2 8.2	8.2	20.9 20.9	20.9	92.2 90.3	91.3	7.0 6.8	6.9	6.9	2.4 2.5	2.5		4.3 5.0	4.7	
				5.3	Middle	-	-	-	-	-		-	-	-	-	-	0.5	-	-	2.5	-	-	4.7
					Bottom	4.3	23.1 23.3	23.2	8.2 8.2	8.2	21.4 21.0	21.2	91.1 92.5	91.8	6.9 7.0	6.9	6.9	2.5 2.3	2.4		4.2 4.9	4.6	
4-May-16	Sunny	Moderate	11:46		Surface	1.0	24.1 24.0	24.1	8.1 8.1	8.1	18.3 18.5	18.4	86.5 86.1	86.3	6.5 6.5	6.5	0.5	2.4 2.3	2.4		3.5 3.0	3.3	
				5.5	Middle	-	-	-	-	-	-	-	-	-	-	-	6.5	-	-	2.6	-	-	3.1
					Bottom	4.5	24.2 23.7	23.9	8.1 8.1	8.1	19.6 20.8	20.2	85.6 85.4	85.5	6.4 6.5	6.4	6.4	2.8 2.7	2.8		2.6 3.1	2.9	
6-May-16	Sunny	Moderate	13:00		Surface	1.0	25.2 25.2	25.2	8.1 8.0	8.1	19.0 18.9	18.9	85.1 84.7	84.9	6.3 6.3	6.3	6.3	2.4 2.4	2.4		5.2 5.1	5.2	
				5.2	Middle	-	-	-	-	-	-	-	-	-	-	-	6.3	-	-	2.7	-	-	5.1
					Bottom	4.2	25.0 24.9	25.0	8.0 8.0	8.0	20.9 20.6	20.8	84.4 83.6	84.0	6.2 6.2	6.2	6.2	2.8 2.9	2.9		4.1 5.7	4.9	
9-May-16	Sunny	Moderate	14:26		Surface	1.0	25.7 25.6	25.6	7.9 8.0	7.9	17.9 18.0	18.0	83.3 81.5	82.4	6.1 6.0	6.1	6.1	4.9 5.1	5.0		5.1 3.9	4.5	
				5.1	Middle	-	-	-	-	-	-	-	-	-	-	-	0.1	-	-	5.4	-	-	5.1
					Bottom	4.1	25.6 25.6	25.6	7.9 7.9	7.9	19.5 20.4	19.9	86.0 81.5	83.8	6.3 5.9	6.1	6.1	5.9 5.5	5.7		5.6 5.5	5.6	
11-May-16	Sunny	Moderate	16:01		Surface	1.0	26.5 26.6	26.5	8.0 8.0	8.0	13.1 13.1	13.1	80.7 81.4	81.1	6.0 6.1	6.1	6.1	3.0 2.8	2.9		4.0 3.7	3.9	
				5.1	Middle	-	-	-	-	-	-	-	-	-	-	-	0.1	-	-	3.0	-	-	4.9
					Bottom	4.1	26.4 25.9	26.1	8.0 7.9	7.9	14.7 16.3	15.5	80.6 81.5	81.1	6.0 6.1	6.0	6.0	2.9 3.0	3.0		6.0 5.8	5.9	
13-May-16	Sunny	Moderate	17:57		Surface	1.0	25.1 25.1	25.1	8.3 8.3	8.3	20.5 20.5	20.5	85.6 89.0	87.3	6.3 6.5	6.4	6.4	4.1 4.3	4.2		3.5 3.2	3.4	
				5.2	Middle	-	-	-	-	-	-	-	-	-	-	-	0.4	-	-	4.3	-	-	3.7
					Bottom	4.2	24.9 25.0	24.9	8.3 8.3	8.3	22.0 22.0	22.0	86.7 85.9	86.3	6.4 6.3	6.3	6.3	4.3 4.2	4.3		3.9 3.9	3.9	
16-May-16	Sunny	Moderate	09:46		Surface	1.0	24.9 24.8	24.9	8.3 8.3	8.3	25.1 26.3	25.7	81.0 81.2	81.1	6.2 6.2	6.2	6.2	5.1 5.2	5.2		6.2 6.7	6.5	
				5.4	Middle	-	-	-	-	-	-	-	-	-	-	-	0.2	-	-	5.3	-	-	6.7
					Bottom	4.4	25.3 25.2	25.2	8.1 8.1	8.1	13.8 14.1	14.0	82.6 82.9	82.8	5.9 6.0	5.9	5.9	5.3 5.2	5.3		7.2 6.6	6.9	
18-May-16	Sunny	Moderate	10:55		Surface	1.0	25.0 24.9	24.9	8.5 8.4	8.5	26.1 27.2	26.7	115.8 115.8	115.8	8.3 8.2	8.2		3.8 3.9	3.9		6.1 6.2	6.2	
				5.3	Middle	-	-	-		-		-	-	-	-	-	8.2	-	-	4.1	-	-	6.1
					Bottom	4.3	24.9 24.9	24.9	8.5 8.4	8.5	27.1 27.3	27.2	112.1 111.0	111.6	8.0 7.9	7.9	7.9	4.1 4.2	4.2		6.4 5.6	6.0	
20-May-16	Rainy	Moderate	12:39		Surface	1.0	25.3 25.3	25.3	8.4 8.4	8.4	23.9 24.0	24.0	93.2 93.2	93.2	6.7 6.7	6.7	0.7	6.6 6.2	6.4		4.0 3.9	4.0	
				5.3	Middle	-	-	-	-	-	-	-	-	-	-	-	6.7	-	-	7.0	-	-	4.2
					Bottom	4.3	25.1 25.1	25.1	8.3 8.3	8.3	26.8 26.7	26.8	93.0 93.0	93.0	6.6 6.6	6.6	6.6	7.5 7.4	7.5		4.2 4.3	4.3	1

Remarks:

* DA: Depth-Averaged

Water Quality Monitoring Results at SR5 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampl	ling	Tempera	ature (°C)	p	ĥ	Salinit	y (ppt)	DO Satu	ration (%)	Dissolv	ed Oxygen	(mg/L)	Т	urbidity(NTL	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-May-16	Sunny	Moderate	13:36		Surface	1.0	26.9 26.9	26.9	8.3 8.3	8.3	17.1 17.0	17.0	91.6 89.3	90.5	6.7 6.5	6.6	6.6	5.9 5.9	5.9		3.6 3.4	3.5	
				5.1	Middle	-	-	-		-	-	-		-		-	0.0	-	-	6.2	-	-	3.6
					Bottom	4.1	26.6 26.6	26.6	8.3 8.2	8.3	19.1 19.4	19.3	94.9 89.7	92.3	6.8 6.5	6.6	6.6	6.2 6.5	6.4		4.5 2.9	3.7	
25-May-16	Sunny	Moderate	14:35		Surface	1.0	27.5 27.5	27.5	8.4 8.3	8.4	17.6 17.6	17.6	98.0 98.6	98.3	7.0 7.0	7.0	7.0	7.7 7.7	7.7		6.2 5.6	5.9	
				5.2	Middle	-	-	-		-	-	-	-	-	-	-	7.0	-	-	7.8	-	-	6.4
					Bottom	4.2	27.3 27.4	27.3	8.4 8.3	8.3	19.3 19.3	19.3	95.6 95.6	95.6	6.9 6.8	6.8	6.8	7.9 7.8	7.9		6.2 7.4	6.8	
27-May-16 ***	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
				-	Middle	-	-	-		-	-	-		-		-	-	-	-	-	-	-	-
					Bottom	-	-	-		-	-	-	-	-		-	-	-	-		-	-	
30-May-16	Sunny	Moderate	13:27		Surface	1.0	28.0 27.9	28.0	8.2 8.2	8.2	12.5 13.0	12.8	94.8 92.4	93.6	6.9 6.7	6.8	6.8	6.9 7.0	7.0		4.2 2.8	3.5	
				5.4	Middle	-	-	-		-	-	-		-	-	-	0.0	-	-	7.1	-	-	3.4
					Bottom	4.4	27.8 27.6	27.7	8.2 8.1	8.2	14.7 16.7	15.7	95.1 91.7	93.4	6.9 6.6	6.7	6.7	7.1 7.1	7.1		3.6 2.9	3.3	

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

Remarks:

* DA: Depth-Averaged

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

Water Quality Monitoring Results at SR5 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	þ	ЪН	Salini	ity (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	(mg/L)	Т	urbidity(NT	U)	Suspe	ended Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
2-May-16	Sunny	Moderate	14:33		Surface	1.0	23.2 23.1	23.1	8.2 8.2	8.2	9.2 9.3	9.2	89.0 89.1	89.1	7.2 7.2	7.2	7.2	2.8 2.8	2.8		4.2 4.7	4.5	
				5.1	Middle	-	-	-	-	-	-	-	-	-	-	-	1.2	-	-	2.9	-	-	4.2
					Bottom	4.1	22.9 22.9	22.9	8.2 8.2	8.2	10.6 10.5	10.5	88.6 89.2	88.9	7.2 7.2	7.2	7.2	3.1 2.8	3.0		3.8 4.0	3.9	
4-May-16	Sunny	Moderate	17:19		Surface	1.0	24.4 24.4	24.4	8.1 8.1	8.1	18.4 18.3	18.3	86.5 86.6	86.6	6.5 6.5	6.5	6.5	2.6 2.7	2.7		4.4 5.3	4.9	
				5.7	Middle	-	-	-	-	-	-	-		-	-	-	0.0	-	-	2.8	-	-	4.3
					Bottom	4.7	24.1 24.3	24.2	8.0 8.1	8.1	19.6 19.5	19.6	83.3 84.1	83.7	6.4 6.4	6.4	6.4	2.9 2.8	2.9		3.6 3.6	3.6	1
6-May-16	Sunny	Moderate	19:20		Surface	1.0	25.6 25.6	25.6	8.0 8.0	8.0	18.0 17.5	17.7	84.7 84.6	84.7	6.3 6.2	6.3	6.3	4.5 4.4	4.5		8.2 8.2	8.2	
				5.3	Middle	-	-	-	-	-	-	-		-	-	-	6.3	-	-	4.7	-	-	8.3
					Bottom	4.3	25.4 25.5	25.5	8.0 8.0	8.0	18.5 18.3	18.4	84.0 84.0	84.0	6.2 6.2	6.2	6.2	4.9 4.8	4.9		8.5 8.1	8.3	
9-May-16	Sunny	Moderate	08:02		Surface	1.0	25.2 25.3	25.2	8.1 8.1	8.1	6.0 6.0	6.0	77.0 77.6	77.3	6.1 6.2	6.1	6.1	9.5 9.3	9.4		10.7 10.5	10.6	
				4.8	Middle	-	-	-	-	-	-	-	-	-	-	-	0.1	-	-	10.1	-	-	10.7
					Bottom	3.8	25.0 25.1	25.1	8.0 8.0	8.0	7.8 7.5	7.7	77.1 76.6	76.9	6.1 6.1	6.1	6.1	10.9 10.5	10.7		10.4 11.1	10.8	
11-May-16	Sunny	Moderate	09:29		Surface	1.0	25.5 25.5	25.5	8.0 8.0	8.0	14.7 15.2	15.0	75.6 75.5	75.6	5.7 5.7	5.7	5.7	4.9 4.9	4.9		3.7 2.8	3.3	
				5.2	Middle	-		-	-	-	-	-	-	-	-	-	5.7	-	-	5.0	-	-	3.4
					Bottom	4.2	25.2 25.4	25.3	8.0 7.9	7.9	17.7 17.4	17.5	74.8 76.2	75.5	5.6 5.7	5.6	5.6	5.1 5.1	5.1		3.0 3.9	3.5	
13-May-16	Sunny	Moderate	11:46		Surface	1.0	25.3 25.3	25.3	8.1 8.1	8.1	17.2 17.2	17.2	79.3 78.6	79.0	6.1 6.0	6.0	6.0	2.8 2.8	2.8		3.5 3.8	3.7	
				5.4	Middle	I	-	-	-	-	-	-		-	-	-	0.0	-	-	2.9	-	-	4.2
					Bottom	4.4	25.1 24.9	25.0	8.0 8.0	8.0	20.8 20.8	20.8	79.8 78.2	79.0	6.0 5.9	5.9	5.9	2.9 2.8	2.9		5.3 4.1	4.7	
16-May-16	Sunny	Moderate	16:04		Surface	1.0	25.9 25.8	25.9	8.4 8.4	8.4	15.8 17.4	16.6	87.4 92.1	89.8	6.5 6.6	6.5	6.5	4.3 4.2	4.3		6.3 7.2	6.8	
				5.4	Middle	I	-	-	-	-	-	-		-	-	-	0.5	-	-	4.4	-	-	7.1
					Bottom	4.4	24.7 24.7	24.7	8.2 8.2	8.2	26.1 25.8	25.9	84.0 83.1	83.6	6.2 6.1	6.2	6.2	4.5 4.5	4.5		8.0 6.6	7.3	
18-May-16	Sunny	Moderate	17:42		Surface	1.0	25.4 25.4	25.4	8.6 8.6	8.6	23.5 23.8	23.7	126.9 129.2	128.1	9.1 9.3	9.2	9.2	3.3 3.3	3.3		5.3 4.5	4.9	
				5.4	Middle	-	-	-	-	-	-	-		-	-	-	3.2	-	-	3.5	-	-	5.1
					Bottom	4.4	25.2 25.3	25.3	8.6 8.6	8.6	25.2 25.3	25.3	106.2 119.2	112.7	7.6 8.6	8.1	8.1	3.7 3.6	3.7		4.8 5.8	5.3	
20-May-16	Cloudy	Moderate	18:38		Surface	1.0	25.4 25.5	25.5	8.3 8.3	8.3	21.3 21.4	21.4	93.7 94.5	94.1	6.8 6.9	6.8	6.8	4.3 4.3	4.3		3.7 4.3	4.0	
				5.5	Middle	-	-	-	-	-	-	-	-	-	-	-	0.0	-	-	4.6	-	-	3.6
					Bottom	4.5	25.3 25.4	25.4	8.3 8.3	8.3	23.7 23.3	23.5	95.6 93.5	94.6	6.9 6.7	6.8	6.8	4.7 4.8	4.8		2.9 3.5	3.2]

Remarks:

* DA: Depth-Averaged

Water Quality Monitoring Results at SR5 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	H	Salinit	y (ppt)	DO Satu	ration (%)	Dissolv	ved Oxyger	ı (mg/L)	Т	urbidity(NTL	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-May-16	Sunny	Moderate	07:25		Surface	1.0	25.7 25.6	25.7	8.3 8.3	8.3	22.5 22.5	22.5	82.4 82.2	82.3	5.9 5.9	5.9	5.9	8.3 7.8	8.1		4.1 5.3	4.7	
				5.1	Middle	-	-	-	-	-	-	-	-	-	-	-	5.5	-	-	9.5	-	-	4.7
					Bottom	4.1	25.5 25.6	25.5	8.2 8.2	8.2	26.4 26.4	26.4	81.9 82.2	82.1	5.8 5.8	5.8	5.8	10.6 11.2	10.9		5.1 4.0	4.6	
25-May-16	Sunny	Moderate	08:28		Surface	1.0	26.2 26.2	26.2	8.2 8.3	8.3	22.9 23.3	23.1	81.5 81.7	81.6	5.8 5.8	5.8	5.8	11.9 12.0	12.0		4.6 5.5	5.1	
				5.3	Middle	-	-	-		-	-	-	-	-	-	-	0.0	-	-	12.2	-	-	6.3
					Bottom	4.3	26.0 26.2	26.1	8.2 8.2	8.2	26.0 25.9	25.9	80.4 81.2	80.8	5.6 5.7	5.7	5.7	12.3 12.2	12.3		7.5 7.2	7.4	
27-May-16 ***	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-	_	-	-		-	-	
				-	Middle	-	-	-		-		-		-		-	-	-	-	-	-	-	-
					Bottom	-	-	-		-	-	-	-	-		-	-	-	-		-	-	
30-May-16	Sunny	Moderate	07:55		Surface	1.0	27.8 27.9	27.9	8.2 8.2	8.2	13.5 13.5	13.5	91.0 91.5	91.3	6.6 6.7	6.6	6.6	6.8 6.7	6.8		2.9 2.6	2.8	
				5.3	Middle	-	-	-		-	-	-	-	-	-	-	0.0	-	-	6.9	-	-	2.9
					Bottom	4.3	27.7 27.9	27.8	8.1 8.2	8.2	17.7 17.7	17.7	91.4 91.5	91.5	6.5 6.5	6.5	6.5	6.9 6.9	6.9		2.9 3.0	3.0	

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

Remarks:

* DA: Depth-Averaged

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

Water Quality Monitoring Results at SR6 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	ŀ	ъН	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	(mg/L)	-	Turbidity(NT	U)	Suspe	ended Solid	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
2-May-16	Sunny	Moderate	10:59		Surface	1.0	23.1 23.1	23.1	8.2 8.2	8.2	20.0 19.7	19.9	84.2 84.5	84.4	6.4 6.5	6.4	6.4	2.6 2.7	2.7		5.6 6.4	6.0	
				3.9	Middle	-	-	-	-	-	-	-	-	-	-	-	0.4	-	-	2.8	-	-	6.2
					Bottom	2.9	22.6 22.9	22.8	8.2 8.2	8.2	22.6 21.0	21.8	84.6 84.3	84.5	6.4 6.4	6.4	6.4	2.9 2.7	2.8		6.1 6.5	6.3	1
4-May-16	Sunny	Moderate	12:35		Surface	1.0	24.6 23.8	24.2	8.2 8.1	8.2	20.0 19.6	19.8	83.7 83.8	83.8	6.4 6.4	6.4	6.4	3.4 3.5	3.5		3.2 3.0	3.1	
				4.5	Middle	-	-	-	-	-	-	-	-	-	-	-	0.4	-	-	3.7	-	-	2.8
					Bottom	3.5	23.4 23.2	23.3	8.1 8.0	8.1	21.8 24.4	23.1	83.0 82.7	82.9	6.2 6.3	6.3	6.3	3.7 3.8	3.8		2.8 2.2	2.5	1
6-May-16	Sunny	Moderate	13:50		Surface	1.0	25.5 25.6	25.6	8.1 8.1	8.1	18.5 18.4	18.5	85.0 84.4	84.7	6.3 6.2	6.2	<u> </u>	4.3 4.4	4.4		4.2 3.8	4.0	
				4.4	Middle	-	-	-		-	-	-	-	-	-	-	6.2	-	-	4.6	-	-	4.2
					Bottom	3.4	24.3 24.5	24.4	8.1 8.0	8.0	21.6 21.0	21.3	83.2 83.7	83.5	6.2 6.2	6.2	6.2	4.7 4.7	4.7		4.4 4.1	4.3	1
9-May-16	Sunny	Moderate	13:34		Surface	1.0	25.7 25.8	25.7	8.1 8.0	8.1	17.9 17.9	17.9	78.6 78.3	78.5	5.8 5.8	5.8	5.0	5.9 5.5	5.7		4.9 4.7	4.8	
				4.0	Middle	-	-	-		-	-	-	-	-	-	-	5.8	-	-	5.8	-	-	4.8
					Bottom	3.0	25.7 25.1	25.4	8.0 8.0	8.0	17.9 20.5	19.2	79.2 77.4	78.3	5.8 5.7	5.8	5.8	5.6 6.0	5.8		4.8 4.8	4.8	
11-May-16	Sunny	Moderate	15:06		Surface	1.0	26.2 26.1	26.2	8.0 8.0	8.0	13.8 13.7	13.7	79.1 78.1	78.6	5.9 5.9	5.9	5.0	3.0 2.9	3.0		4.3 2.9	3.6	
				4.2	Middle	-	-	-	-	-	-	-	-	-	-	-	5.9	-	-	3.1	-	-	3.8
					Bottom	3.2	25.5 26.1	25.8	8.0 8.0	8.0	14.4 14.1	14.3	77.6 79.0	78.3	5.9 5.9	5.9	5.9	3.1 3.0	3.1		3.9 3.8	3.9	
13-May-16	Sunny	Moderate	16:58		Surface	1.0	25.1 25.1	25.1	8.2 8.2	8.2	20.2 20.1	20.1	83.0 83.5	83.3	6.1 6.2	6.1	6.1	3.2 3.2	3.2		3.7 3.9	3.8	
				4.3	Middle	-	-	-	-	-	-	-	-	-	-	-	0.1	-	-	3.3	-	-	3.9
					Bottom	3.3	25.1 25.0	25.0	8.2 8.2	8.2	20.3 20.5	20.4	83.4 82.9	83.2	6.1 6.1	6.1	6.1	3.2 3.3	3.3		3.6 4.4	4.0	
16-May-16	Sunny	Moderate	10:41		Surface	1.0	25.3 25.4	25.4	8.3 8.3	8.3	15.0 15.0	15.0	100.6 94.1	97.4	7.3 7.1	7.2	7.2	3.7 3.8	3.8		6.9 6.7	6.8	
				4.3	Middle	-	-	-	-	-	-	-	-	-	-	-	1.2	-	-	4.0	-	-	6.4
					Bottom	3.3	25.2 24.8	25.0	8.2 8.1	8.1	22.6 25.4	24.0	86.5 89.6	88.1	6.5 6.4	6.5	6.5	4.2 4.1	4.2		6.2 5.8	6.0	
18-May-16	Sunny	Moderate	11:50		Surface	1.0	25.1 25.0	25.1	8.5 8.5	8.5	24.8 24.8	24.8	109.7 108.3	109.0	7.9 7.7	7.8	7.0	4.2 4.2	4.2		7.8 8.7	8.3	
				4.0	Middle	-	-	-		-	-	-	-	-	-	-	7.8	-	-	4.4	-	-	8.2
					Bottom	3.0	24.8 24.8	24.8	8.5 8.5	8.5	28.0 27.8	27.9	102.9 101.3	102.1	7.4 7.2	7.3	7.3	4.5 4.6	4.6		8.7 7.5	8.1	1
20-May-16	Rainy	Moderate	13:33		Surface	1.0	25.2 25.3	25.3	8.4 8.4	8.4	23.9 23.8	23.9	93.7 95.1	94.4	6.7 6.8	6.8	6.0	5.8 5.5	5.7		5.4 4.7	5.1	
				4.2	Middle	-	-	-	-	-	-	-	-	-	-	-	6.8	-	-	6.4	-	-	4.9
					Bottom	3.2	25.1 25.1	25.1	8.3 8.3	8.3	26.6 26.6	26.6	93.8 93.9	93.9	6.7 6.7	6.7	6.7	6.8 7.2	7.0		4.9 4.5	4.7	1

Remarks:

* DA: Depth-Averaged

Water Quality Monitoring Results at SR6 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampli	ing	Tempera	ature (°C)	p	Η	Salinit	ty (ppt)	DO Satu	ration (%)	Dissolv	ved Oxyger	ı (mg/L)	Т	urbidity(NTL	J)	Suspe	nded Solids	. (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-May-16	Sunny	Moderate	12:41		Surface	1.0	26.6 26.5	26.6	8.3 8.3	8.3	17.9 18.1	18.0	88.7 88.6	88.7	6.4 6.4	6.4	6.4	3.3 3.3	3.3		1.8 1.7	1.8	
				4.1	Middle	-	-	-		-		-		-	-	-	0.4	-	-	3.4	-	-	2.7
					Bottom	3.1	26.4 26.4	26.4	8.3 8.3	8.3	18.9 18.8	18.8	88.5 88.3	88.4	6.4 6.4	6.4	6.4	3.6 3.4	3.5		2.5 4.4	3.5	
25-May-16	Sunny	Moderate	13:42		Surface	1.0	27.7 27.7	27.7	8.2 8.2	8.2	17.6 17.6	17.6	98.4 97.9	98.2	7.0 7.0	7.0	7.0	7.8 7.7	7.8		4.7 4.9	4.8	
				4.1	Middle	-	-	-		-	-	-	-	-	-	-	7.0	-	-	8.0	-	-	5.9
					Bottom	3.1	26.5 27.3	26.9	8.2 8.2	8.2	22.5 19.6	21.0	96.7 94.2	95.5	6.9 6.7	6.8	6.8	8.0 8.1	8.1		6.1 7.9	7.0	
27-May-16 ***	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
				-	Middle	-	-	-		-		-		-	-	-		-	-	-	-	-	-
					Bottom	-	-	-		-	-	-	-	-	-	-	-	-	-		-	-	
30-May-16	Sunny	Moderate	12:41		Surface	1.0	28.0 28.3	28.1	8.3 8.3	8.3	11.1 11.0	11.1	94.2 95.5	94.9	6.9 7.0	7.0	7.0	6.8 6.8	6.8		2.6 2.5	2.6	
				4.0	Middle	-	-	-	-	-		-		-	-	-	7.0	-	-	6.9	-	-	4.2
					Bottom	3.0	27.7 27.7	27.7	8.2 8.2	8.2	15.6 16.3	16.0	94.5 94.3	94.4	6.8 6.8	6.8	6.8	6.9 6.9	6.9		5.1 6.2	5.7	

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

Remarks:

* DA: Depth-Averaged

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

Water Quality Monitoring Results at SR6 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Т	urbidity(NT	U)	Suspe	nded Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
2-May-16	Sunny	Moderate	13:37		Surface	1.0	23.2 23.3	23.2	8.2 8.2	8.2	20.6 19.8	20.2	89.1 90.2	89.7	6.8 6.9	6.8		2.7 2.7	2.7		4.5 4.2	4.4	
				4.0	Middle	-	-	-		-		-		-	-	-	6.8		-	2.7		-	4.7
					Bottom	3.0	23.2 22.9	23.1	8.2 8.2	8.2	20.2 21.5	20.8	90.7 86.8	88.8	6.9 6.6	6.7	6.7	2.7 2.5	2.6		4.7 5.1	4.9	1
4-May-16	Sunny	Moderate	16:31		Surface	1.0	23.6 23.6	23.6	8.1 8.1	8.1	22.0 22.0	22.0	79.7 80.0	79.9	6.0 6.0	6.0		4.5 4.3	4.4		4.4 4.6	4.5	
				4.6	Middle	-	-	-	-	-	-	-	-	-	-	-	6.0	-	-	4.5	-	-	4.4
					Bottom	3.6	23.6 23.7	23.6	8.1 8.1	8.1	22.1 21.5	21.8	79.5 79.5	79.5	6.0 6.0	6.0	6.0	4.6 4.6	4.6		4.6 3.9	4.3	
6-May-16	Sunny	Moderate	18:24		Surface	1.0	25.1 25.3	25.2	8.0 8.1	8.0	17.9 17.4	17.7	79.8 79.5	79.7	5.9 5.9	5.9	5.0	3.5 3.4	3.5		6.6 6.7	6.7	
				4.5	Middle	-	-	-	-	-	-	-	-	-	-	-	5.9	-	-	3.7	-	-	7.2
					Bottom	3.5	25.0 25.1	25.1	8.0 8.0	8.0	18.5 18.2	18.3	79.0 79.4	79.2	5.9 5.9	5.9	5.9	3.7 3.8	3.8		8.0 7.3	7.7	
9-May-16	Sunny	Moderate	08:54		Surface	1.0	25.3 25.3	25.3	8.0 8.0	8.0	8.7 7.4	8.0	78.1 78.2	78.2	6.1 6.2	6.1		6.2 6.2	6.2		5.4 6.0	5.7	
				3.7	Middle	-	-	-	-	-	-	-	-	-		-	6.1	-	-	6.7	-	-	5.5
					Bottom	2.7	25.3 25.2	25.2	8.0 8.0	8.0	8.9 9.4	9.2	77.9 77.6	77.8	6.1 6.1	6.1	6.1	6.9 7.4	7.2		5.2 5.3	5.3	
11-May-16	Sunny	Moderate	10:21		Surface	1.0	25.5 25.5	25.5	7.9 8.0	8.0	13.1 12.3	12.7	76.3 76.0	76.2	5.8 5.8	5.8	5.8	5.5 5.4	5.5		4.1 4.3	4.2	
				4.4	Middle	-	-	-	-	-	-	-	-	-	-	-	5.0	-	-	5.6	-	-	4.0
					Bottom	3.4	25.1 25.3	25.2	7.8 7.9	7.9	19.2 17.2	18.2	75.5 75.6	75.6	5.6 5.6	5.6	5.6	5.7 5.7	5.7		3.6 3.8	3.7	
13-May-16	Sunny	Moderate	12:33		Surface	1.0	25.2 25.2	25.2	8.2 8.2	8.2	17.8 18.0	17.9	78.1 77.0	77.6	5.8 5.7	5.8	5.8	4.4 4.4	4.4		3.0 4.6	3.8	
				4.2	Middle	-	-	-	-	-	-	-	-	-	-	-	5.0	-	-	4.4	-	-	4.3
					Bottom	3.2	24.8 25.0	24.9	8.1 8.1	8.1	21.5 21.4	21.5	76.6 77.7	77.2	5.6 5.7	5.7	5.7	4.4 4.4	4.4		4.2 5.4	4.8	
16-May-16	Sunny	Moderate	15:07		Surface	1.0	25.7 25.8	25.8	8.4 8.4	8.4	15.3 15.4	15.4	93.9 94.3	94.1	7.0 7.0	7.0	7.0	3.7 3.7	3.7		5.5 5.2	5.4	
				4.4	Middle	-	-	-	-	-	-	-	-	-	-	-	7.0	-	-	3.8	-	-	5.5
					Bottom	3.4	25.3 25.5	25.4	8.2 8.3	8.2	22.3 21.0	21.7	94.2 94.6	94.4	6.8 6.9	6.8	6.8	3.8 3.9	3.9		6.2 4.8	5.5	
18-May-16	Sunny	Moderate	16:51		Surface	1.0	25.5 25.3	25.4	8.5 8.5	8.5	22.4 22.5	22.4	112.9 112.0	112.5	8.1 8.1	8.1	8.1	3.1 3.1	3.1		4.7 3.9	4.3	
				4.1	Middle	-	-	-	-	-	-	-	-	-	-	-	0.1	-	-	3.2	-	-	4.2
					Bottom	3.1	25.1 25.1	25.1	8.4 8.4	8.4	25.0 24.8	24.9	110.5 112.4	111.5	8.0 8.1	8.0	8.0	3.3 3.2	3.3		4.7 3.4	4.1	
20-May-16	Cloudy	Moderate	17:42		Surface	1.0	25.4 25.4	25.4	8.2 8.2	8.2	21.0 21.2	21.1	89.4 89.7	89.6	6.5 6.5	6.5	6.5	3.5 3.4	3.5		4.1 4.4	4.3	
				4.1	Middle	-	-	-	-	-	-	-	-	-	-	-	0.0	-	-	3.6	-	-	4.6
					Bottom	3.1	25.4 25.3	25.4	8.2 8.2	8.2	21.9 22.4	22.1	89.5 89.1	89.3	6.5 6.5	6.5	6.5	3.6 3.8	3.7		4.2 5.3	4.8	

* DA: Depth-Averaged

Water Quality Monitoring Results at SR6 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Sampl	ling	Tempera	ature (°C)	p	ĥ	Salinit	y (ppt)	DO Satu	ration (%)	Dissolv	ved Oxyger	(mg/L)	Т	urbidity(NTl	J)	Suspe	nded Solids	. (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-May-16	Sunny	Moderate	08:17		Surface	1.0	25.9 25.9	25.9	8.3 8.3	8.3	22.0 22.1	22.1	83.5 83.6	83.6	6.0 6.0	6.0	6.0	6.1 5.6	5.9		6.1 6.2	6.2	
				4.3	Middle	-		-		-		-		-	-	-	0.0	-	-	6.4	-	-	6.4
					Bottom	3.3	25.7 25.8	25.8	8.3 8.3	8.3	24.7 24.6	24.7	83.2 83.2	83.2	5.9 5.9	5.9	5.9	7.0 6.6	6.8		7.0 6.0	6.5	
25-May-16	Sunny	Moderate	09:22		Surface	1.0	26.5 26.3	26.4	8.3 8.3	8.3	22.4 23.4	22.9	87.8 88.2	88.0	6.2 6.3	6.3	6.3	10.2 10.3	10.3		8.3 7.6	8.0	
				4.3	Middle	-	-	-		-		-	-	-	-	-	0.0	-	-	10.5	-	-	8.1
					Bottom	3.3	26.3 26.3	26.3	8.2 8.3	8.3	23.9 23.8	23.8	84.3 85.5	84.9	6.0 6.0	6.0	6.0	10.5 10.6	10.6		8.1 8.2	8.2	
27-May-16 ***	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
				-	Middle	-		-		-		-		-	-	-	-	-	-	-	-	-	-
					Bottom	-		-		-	-	-	-	-	-	-	-	-	-		-	-	
30-May-16	Sunny	Moderate	08:50		Surface	1.0	27.6 27.6	27.6	8.2 8.2	8.2	15.1 15.2	15.1	91.1 91.1	91.1	6.7 6.7	6.7	6.7	7.3 7.3	7.3		2.2 2.5	2.4	
				4.0	Middle	-		-		-	-	-		-	-	-	0.7	-	-	7.4	-	-	2.5
					Bottom	3.0	27.8 28.0	27.9	8.1 8.3	8.2	17.8 17.0	17.4	90.1 90.2	90.2	6.5 6.6	6.6	6.6	7.4 7.4	7.4		2.7 2.4	2.6	

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

Remarks:

* DA: Depth-Averaged

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

Water Quality Monitoring Results at SR7 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	(mg/L)	F	Furbidity(NT	J)	Suspe	ended Solid	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
2-May-16	Sunny	Moderate	09:32		Surface	1.0	23.1 22.9	23.0	8.1 8.1	8.1	21.8 21.9	21.8	88.3 86.9	87.6	6.7 6.6	6.6		1.3 1.5	1.4		3.8 3.3	3.6	
				4.4	Middle	-	-	-	-	-	-	-	-	-	-	-	6.6	-	-	1.5	-	-	3.9
					Bottom	3.4	22.7 22.8	22.8	8.1 8.1	8.1	24.5 23.8	24.1	87.8 88.3	88.1	6.6 6.6	6.6	6.6	1.5 1.4	1.5		4.9 3.5	4.2	1
4-May-16	Sunny	Moderate	11:13		Surface	1.0	24.1 24.0	24.1	8.1 8.1	8.1	19.1 19.2	19.1	89.5 90.2	89.9	6.7 6.8	6.8		2.4 2.3	2.4		5.0 4.5	4.8	1
				5.1	Middle	-	-	-	-	-	-	-	-	-	-	-	6.8	-	-	2.5	-	-	5.3
					Bottom	4.1	24.0 23.7	23.9	8.1 8.0	8.1	19.7 20.7	20.2	88.3 89.0	88.7	6.7 6.7	6.7	6.7	2.5 2.6	2.6		5.7 5.6	5.7	1
6-May-16	Sunny	Moderate	12:00		Surface	1.0	24.8 24.7	24.8	8.0 8.1	8.0	20.6 20.0	20.3	86.5 86.0	86.3	6.3 6.3	6.3		3.0 3.1	3.1		5.3 4.7	5.0	1
				4.4	Middle	-	-	-	-	-	-	-	-	-	-	-	6.3	-	-	3.2	-	-	4.5
					Bottom	3.4	24.4 24.4	24.4	8.0 8.0	8.0	22.5 22.1	22.3	83.6 83.6	83.6	6.2 6.1	6.2	6.2	3.2 3.3	3.3		3.9 3.9	3.9	
9-May-16	Sunny	Moderate	14:54		Surface	1.0	25.6 25.8	25.7	8.0 8.0	8.0	10.7 10.1	10.4	80.5 80.7	80.6	6.2 6.2	6.2	<u> </u>	6.4 6.0	6.2		4.8 4.8	4.8	
				3.9	Middle	-	-	-		-		-		-	-	-	6.2	-	-	7.6	-	-	5.4
					Bottom	2.9	25.4 25.7	25.6	8.0 8.0	8.0	13.2 12.8	13.0	79.6 80.4	80.0	6.1 6.1	6.1	6.1	8.9 8.8	8.9		5.3 6.6	6.0	
11-May-16	Sunny	Moderate	16:31		Surface	1.0	26.3 26.1	26.2	8.0 8.0	8.0	9.9 10.2	10.0	78.6 78.0	78.3	6.0 6.1	6.0	6.0	3.1 3.2	3.2		4.1 4.9	4.5	
				4.3	Middle	-	-	-	-	-	-	-	-	-	-	-	0.0	-	-	3.2	-	-	5.5
					Bottom	3.3	25.9 25.8	25.9	7.9 8.0	8.0	11.2 11.1	11.2	77.8 76.4	77.1	5.9 5.9	5.9	5.9	3.2 3.1	3.2		6.1 6.8	6.5	
13-May-16	Sunny	Moderate	18:26		Surface	1.0	25.2 25.2	25.2	8.3 8.3	8.3	20.6 20.7	20.7	86.9 85.6	86.3	6.4 6.3	6.3	6.3	3.0 3.2	3.1		4.2 4.0	4.1	
				4.6	Middle	-	-	-		-		-		-	-	-	0.5	-	-	3.1	-	-	5.0
					Bottom	3.6	25.2 25.0	25.1	8.3 8.3	8.3	20.8 21.0	20.9	86.4 84.8	85.6	6.3 6.2	6.3	6.3	3.0 3.2	3.1		5.9 5.7	5.8	
16-May-16	Sunny	Moderate	09:13		Surface	1.0	25.4 25.4	25.4	8.2 8.3	8.3	15.5 15.5	15.5	95.3 95.2	95.3	7.2 7.2	7.2	7.2	3.9 3.8	3.9		4.6 4.8	4.7	
				4.2	Middle	I	-	-		-		-		-	-	-	1.2	-	-	3.9	-	-	4.9
					Bottom	3.2	25.4 25.4	25.4	8.3 8.2	8.3	15.7 15.6	15.6	93.2 93.9	93.6	7.0 7.1	7.0	7.0	3.9 3.9	3.9		5.0 5.1	5.1	
18-May-16	Sunny	Moderate	10:24		Surface	1.0	24.8 24.8	24.8	8.4 8.4	8.4	27.8 27.8	27.8	105.5 106.7	106.1	7.5 7.6	7.5	7.5	4.6 4.5	4.6		8.6 9.6	9.1	
				4.2	Middle	-	-	-		-	-	-		-	-	-	1.5	-	-	4.7	-	-	8.8
					Bottom	3.2	24.8 24.8	24.8	8.4 8.5	8.4	27.8 27.9	27.8	102.9 98.7	100.8	7.3 7.0	7.1	7.1	4.7 4.7	4.7		8.4 8.5	8.5	
20-May-16	Rainy	Moderate	12:10		Surface	1.0	25.2 25.3	25.2	8.1 8.2	8.2	24.3 24.2	24.3	96.0 94.6	95.3	6.9 6.8	6.8	6.8	6.3 6.0	6.2		4.8 4.4	4.6	
				4.1	Middle	-	-	-		-	-	-		-	-	-	0.0	-	-	6.5	-	-	4.8
					Bottom	3.1	25.1 25.1	25.1	8.2 8.1	8.2	26.7 26.7	26.7	97.5 94.9	96.2	6.9 6.7	6.8	6.8	6.8 6.5	6.7		3.8 6.0	4.9]

Remarks:

* DA: Depth-Averaged

Water Quality Monitoring Results at SR7 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampli	ing	Tempera	ature (°C)	p	Н	Salinit	ty (ppt)	DO Satu	ration (%)	Dissolv	ved Oxyger	n (mg/L)	Т	urbidity(NTL	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-May-16	Sunny	Moderate	14:01		Surface	1.0	26.6 26.6	26.6	8.3 8.3	8.3	18.5 18.5	18.5	89.2 89.6	89.4	6.5 6.5	6.5	6.5	6.2 5.9	6.1		3.1 2.1	2.6	
				4.1	Middle	-		-		-	-	-		-	-	-	0.0	-	-	6.3	-	-	3.0
					Bottom	3.1	26.3 26.3	26.3	8.2 8.3	8.3	23.0 20.2	21.6	88.8 89.2	89.0	6.3 6.4	6.4	6.4	6.4 6.4	6.4		3.9 2.7	3.3	
25-May-16	Sunny	Moderate	15:04		Surface	1.0	27.5 26.6	27.0	8.4 8.3	8.3	17.6 20.2	18.9	100.2 102.2	101.2	7.1 7.2	7.2	7.2	7.7 7.7	7.7		7.9 6.8	7.4	
				4.4	Middle	-	-	-		-	-	-	-	-	-	-	7.2	-	-	7.8	-	-	8.0
					Bottom	3.4	27.4 26.4	26.9	8.3 8.3	8.3	19.9 24.7	22.3	99.9 98.4	99.2	7.1 7.0	7.0	7.0	7.9 7.9	7.9		8.1 8.8	8.5	
27-May-16 ***	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	-		-		-	-	-		-	-	-		-	-	-	-	-	-
					Bottom	-		-		-	-	-	-	-	-	-	-	-	-		-	-	
30-May-16	Sunny	Moderate	13:59		Surface	1.0	28.2 28.2	28.2	8.3 8.3	8.3	12.1 12.1	12.1	98.2 97.8	98.0	7.2 7.1	7.2	7.2	6.6 6.5	6.6		3.9 2.9	3.4	
				4.2	Middle	-		-	-	-	-	-		-	-	-	1.2	-	-	6.7	-	-	3.5
					Bottom	3.2	27.9 28.1	28.0	8.2 8.2	8.2	14.2 14.2	14.2	97.5 97.7	97.6	7.1 7.1	7.1	7.1	6.7 6.7	6.7		3.6 3.4	3.5	

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

Remarks:

* DA: Depth-Averaged

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

Water Quality Monitoring Results at SR7 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	i (mg/L)	Г	Furbidity(NT	J)	Suspe	ended Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
2-May-16	Sunny	Moderate	15:00		Surface	1.0	23.3 23.3	23.3	8.3 8.3	8.3	7.3 7.4	7.4	90.3 87.0	88.7	7.4 7.1	7.3	7.0	2.7 2.7	2.7		6.4 7.6	7.0	
				4.2	Middle	-	-	-	-	-		-	-	-	-	-	7.3	-	-	2.7	-	-	7.2
					Bottom	3.2	23.2 22.5	22.9	8.2 8.2	8.2	9.4 10.0	9.7	89.4 81.8	85.6	7.2 6.7	7.0	7.0	2.7 2.6	2.7		7.9 6.9	7.4	
4-May-16	Sunny	Moderate	17:50		Surface	1.0	24.2 24.0	24.1	8.2 8.2	8.2	20.3 18.8	19.6	82.6 82.9	82.8	6.5 6.6	6.5		3.5 3.4	3.5		3.3 3.7	3.5	i
				5.1	Middle	-	-	-	-	-	-	-	-	-	-	-	6.5	-	-	3.6	-	-	3.7
					Bottom	4.1	23.8 24.0	23.9	8.1 8.1	8.1	19.7 19.7	19.7	82.1 82.8	82.5	6.5 6.5	6.5	6.5	3.7 3.7	3.7		3.3 4.3	3.8	
6-May-16	Sunny	Moderate	19:51		Surface	1.0	24.8 25.3	25.0	8.2 8.2	8.2	21.5 17.8	19.6	86.3 86.2	86.3	6.3 6.4	6.4	6.4	4.6 4.6	4.6		5.8 4.9	5.4	
				4.5	Middle	-	-	-	-	-		-		-	-	-	6.4	-	-	4.8	-	-	5.7
					Bottom	3.5	24.7 24.7	24.7	8.1 8.2	8.2	22.5 21.7	22.1	85.0 86.1	85.6	6.2 6.3	6.3	6.3	4.9 4.8	4.9		6.3 5.5	5.9	
9-May-16	Sunny	Moderate	07:34		Surface	1.0	25.4 25.3	25.3	8.1 8.1	8.1	8.4 8.6	8.5	80.3 83.9	82.1	6.3 6.6	6.4	6.4	7.1 7.2	7.2		5.0 5.5	5.3	
				4.1	Middle	-	-	-	-	-	-	-	-	-	-	-	0.4	-	-	7.3	-	-	5.4
					Bottom	3.1	25.3 25.3	25.3	8.1 8.1	8.1	10.1 12.4	11.3	81.8 86.8	84.3	6.4 6.7	6.5	6.5	7.5 7.0	7.3		5.7 5.2	5.5	
11-May-16	Sunny	Moderate	09:01		Surface	1.0	25.4 25.5	25.5	7.9 7.9	7.9	15.8 15.3	15.5	78.2 79.9	79.1	5.9 6.0	5.9	5.9	3.8 3.8	3.8		4.4 4.8	4.6	
				4.3	Middle	-	-	-	-	-	-	-		-	-	-	0.0	-	-	3.8	-	-	4.9
					Bottom	3.3	25.4 25.1	25.3	7.9 7.9	7.9	19.7 18.2	18.9	78.8 82.4	80.6	5.8 6.1	6.0	6.0	3.6 3.8	3.7		5.2 5.2	5.2	
13-May-16	Sunny	Moderate	11:16		Surface	1.0	25.1 25.0	25.0	8.0 8.0	8.0	18.6 19.2	18.9	78.2 78.1	78.2	5.8 5.8	5.8	5.8	2.5 2.7	2.6		4.7 5.1	4.9	
				5.1	Middle	-	-	-	-	-	-	-	-	-	-	-		-	-	2.6	-	-	4.9
					Bottom	4.1	24.8 24.4	24.6	7.9 7.9	7.9	24.6 25.0	24.8	78.5 79.8	79.2	5.7 5.8	5.7	5.7	2.7 2.5	2.6		4.5 5.0	4.8	
16-May-16	Sunny	Moderate	16:39		Surface	1.0	26.1 26.1	26.1	8.6 8.6	8.6	18.0 17.9	18.0	130.2 129.7	130.0	9.5 9.5	9.5	9.5	4.5 4.6	4.6		8.0 8.2	8.1	
				4.4	Middle	-	-	-	-	-	-	-	-	-	-	-		-	-	4.7	-	-	8.4
					Bottom	3.4	25.8 25.9	25.9	8.6 8.6	8.6	19.1 18.7	18.9	128.4 129.4	128.9	9.4 9.5	9.4	9.4	4.8 4.7	4.8		8.2 9.2	8.7	
18-May-16	Sunny	Moderate	18:14		Surface	1.0	25.0 25.0	25.0	8.5 8.5	8.5	26.9 27.5	27.2	121.3 117.2	119.3	8.6 8.3	8.4	8.4	5.2 5.2	5.2		7.4 7.2	7.3	
				4.2	Middle	-	-	-	-	-	-	-	-	-	-	-		-	-	5.3	-	-	7.2
					Bottom	3.2	24.8 25.0	24.9	8.5 8.5	8.5	28.6 27.8	28.2	110.9 113.5	112.2	7.8 8.0	7.9	7.9	5.4 5.3	5.4		7.3 6.7	7.0	
20-May-16	Cloudy	Moderate	19:05		Surface	1.0	25.1 25.1	25.1	8.4 8.3	8.4	26.6 26.8	26.7	93.0 92.8	92.9	6.6 6.6	6.6	6.6	6.6 7.1	6.9		4.4 5.4	4.9	
				4.3	Middle	-	-	-	-	-	-	-	-	-	-	-		-	-	7.1	-	-	4.8
					Bottom	3.3	25.1 25.1	25.1	8.3 8.3	8.3	26.9 27.1	27.0	92.8 92.8	92.8	6.6 6.6	6.6	6.6	6.9 7.4	7.2		4.2 5.1	4.7	

Remarks:

* DA: Depth-Averaged

Water Quality Monitoring Results at SR7 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Sampl	ling	Tempera	ature (°C)	p	ĥ	Salinit	y (ppt)	DO Satu	ration (%)	Dissolv	ved Oxyger	ı (mg/L)	Т	urbidity(NTL	J)	Suspe	nded Solids	. (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-May-16	Sunny	Moderate	06:58		Surface	1.0	25.8 25.9	25.8	8.3 8.3	8.3	21.6 21.6	21.6	85.3 86.5	85.9	6.2 6.2	6.2	6.2	5.2 5.0	5.1		4.1 5.0	4.6	
				4.1	Middle	-	-	-		-		-		-	-	-	0.2	-	-	5.7	-	-	4.5
					Bottom	3.1	25.5 25.6	25.6	8.3 8.2	8.3	27.6 27.4	27.5	91.7 85.4	88.6	6.4 6.0	6.2	6.2	6.3 6.1	6.2		3.7 5.1	4.4	
25-May-16	Sunny	Moderate	07:58		Surface	1.0	26.8 26.7	26.8	8.3 8.3	8.3	20.2 20.3	20.3	89.4 89.3	89.4	6.4 6.4	6.4	6.4	9.1 9.2	9.2		7.0 5.3	6.2	
				4.5	Middle	-	-	-		-	-	-	-	-	-	-	0.4	-	-	9.4	-	-	7.3
					Bottom	3.5	26.6 26.5	26.6	8.3 8.3	8.3	24.3 22.0	23.1	88.8 87.9	88.4	6.3 6.3	6.3	6.3	9.5 9.4	9.5		7.7 9.0	8.4	
27-May-16 ***	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
				-	Middle	-	-	-		-		-		-	-	-		-	-	-	-	-	-
					Bottom	-	-	-		-	-	-	-	-	-	-	-	-	-		-	-	
30-May-16	Sunny	Moderate	07:20		Surface	1.0	27.6 27.6	27.6	8.3 8.3	8.3	13.2 13.8	13.5	91.6 93.8	92.7	6.7 6.7	6.7	6.7	6.8 6.8	6.8		3.4 3.0	3.2	
				4.1	Middle	-	-	-	-	-	-	-		-	-	-	0.7	-	-	6.9	-	-	3.1
					Bottom	3.1	27.6 27.7	27.6	8.3 8.3	8.3	17.9 17.6	17.8	90.2 90.9	90.6	6.6 6.5	6.5	6.5	6.9 6.9	6.9		2.3 3.7	3.0	

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

Remarks:

* DA: Depth-Averaged

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

Water Quality Monitoring Results at SR10A - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	1	urbidity(NT	U)	Suspe	nded Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
2-May-16	Sunny	Moderate	08:56		Surface	1.0	22.8 22.6	22.7	8.3 8.3	8.3	26.3 26.5	26.4	85.9 85.4	85.7	6.4 6.3	6.4	6.4	2.1 2.1	2.1		4.5 4.6	4.6	
				6.5	Middle	3.3	22.5 22.4	22.4	8.3 8.3	8.3	27.2 27.3	27.2	84.5 84.8	84.7	6.3 6.3	6.3	0.4	2.2 2.1	2.2	2.2	5.0 5.3	5.2	4.7
					Bottom	5.5	22.1 22.4	22.3	8.3 8.3	8.3	29.8 29.5	29.6	84.5 85.0	84.8	6.2 6.2	6.2	6.2	2.2 2.2	2.2		3.9 4.4	4.2	
4-May-16	Sunny	Moderate	10:13		Surface	1.0	23.2 23.3	23.2	8.3 8.3	8.3	26.3 26.1	26.2	89.1 89.3	89.2	6.5 6.6	6.6	6.6	1.8 1.7	1.8		3.2 2.8	3.0	
				6.7	Middle	3.4	23.2 23.2	23.2	8.3 8.3	8.3	26.5 26.6	26.6	89.0 89.0	89.0	6.5 6.5	6.5	0.0	1.7 1.7	1.7	1.8	4.2 3.5	3.9	3.8
					Bottom	5.7	23.2 23.2	23.2	8.3 8.3	8.3	26.6 26.4	26.5	88.9 89.1	89.0	6.5 6.5	6.5	6.5	1.9 1.7	1.8		3.6 5.2	4.4	
6-May-16	Sunny	Moderate	11:42		Surface	1.0	24.9 24.7	24.8	8.4 8.4	8.4	21.9 22.0	21.9	85.9 86.5	86.2	6.3 6.3	6.3	6.3	5.5 5.5	5.5		5.0 3.6	4.3	
				6.6	Middle	3.3	24.5 24.4	24.4	8.4 8.4	8.4	23.5 23.4	23.4	86.1 84.6	85.4	6.3 6.2	6.2	0.5	5.5 5.4	5.5	5.5	3.3 4.3	3.8	4.3
					Bottom	5.6	24.0 24.6	24.3	8.4 8.4	8.4	25.2 24.8	25.0	84.3 85.7	85.0	6.2 6.3	6.2	6.2	5.4 5.6	5.5		4.3 5.5	4.9	
9-May-16	Sunny	Moderate	15:20		Surface	1.0	25.8 25.9	25.8	8.3 8.3	8.3	19.5 19.5	19.5	82.2 82.7	82.5	6.0 6.0	6.0	6.0	5.5 5.5	5.5		4.3 4.6	4.5	
				6.5	Middle	3.3	25.6 25.7	25.7	8.3 8.3	8.3	19.7 19.6	19.7	81.5 82.0	81.8	6.0 6.0	6.0		5.6 5.7	5.7	5.7	3.6 4.2	3.9	4.2
					Bottom	5.5	25.4 25.3	25.4	8.3 8.3	8.3	21.1 21.2	21.1	81.6 81.4	81.5	5.9 5.9	5.9	5.9	5.9 5.7	5.8		4.7 3.7	4.2	
11-May-16	Sunny	Moderate	16:30		Surface	1.0	26.1 25.5	25.8	8.3 8.3	8.3	15.5 16.0	15.8	80.8 80.9	80.9	6.0 6.0	6.0	6.0	4.3 4.2	4.3		4.4 4.0	4.2	
				6.3	Middle	3.2	25.7 24.8	25.3	8.3 8.3	8.3	17.3 17.8	17.5	79.9 80.5	80.2	5.9 6.0	5.9		4.3 4.4	4.4	4.4	3.6 4.8	4.2	4.3
					Bottom	5.3	25.0 24.6	24.8	8.2 8.2	8.2	23.6 24.2	23.9	80.1 79.2	79.7	5.8 5.8	5.8	5.8	4.5 4.4	4.5		4.7 4.2	4.5	
13-May-16	Sunny	Moderate	19:06		Surface	1.0	25.0 25.1	25.1	8.3 8.3	8.3	21.5 21.3	21.4	90.7 89.4	90.1	6.6 6.5	6.6	6.6	2.1 2.2	2.2		3.0 3.2	3.1	
				6.6	Middle	3.3	24.8 24.3	24.6	8.3 8.2	8.2	22.1 23.2	22.6	89.2 88.6	88.9	6.5 6.5	6.5		2.3 2.2	2.3	2.3	3.2 2.6	2.9	3.2
					Bottom	5.6	24.6 24.3	24.4	8.2 8.2	8.2	22.5 22.1	22.3	84.0 85.5	84.8	6.2 6.3	6.2	6.2	2.4 2.4	2.4		3.6 3.5	3.6	<u> </u>
16-May-16	Sunny	Moderate	08:56		Surface	1.0	25.5 25.5	25.5	8.5 8.4	8.4	17.6 17.7	17.7	94.7 94.8	94.8	7.0 7.0	7.0	6.9	2.4 2.5	2.5		5.0 5.2	5.1	
				6.4	Middle	3.2	25.2 25.4 25.0	25.3	8.3 8.3 8.2	8.3	24.8 24.7 30.3	24.7	93.4 93.8 93.6	93.6	6.7 6.7 6.5	6.7		2.5 2.4 2.3	2.5	2.5	4.1 4.2 3.2	4.2	4.2
40 May 40	Current	Madavata	40:40		Bottom	5.4	24.8	24.9	8.2	8.2	30.7	30.5	94.3	94.0	6.6	6.5	6.5	2.5	2.4		3.6	3.4	<u> </u>
18-May-16	Sunny	Moderate	10:16		Surface	1.0	24.8 24.8 24.5	24.8	8.5 8.5 8.5	8.5	29.4 29.4 30.2	29.4	99.1 99.3 98.8	99.2	7.0 7.0 6.9	7.0	7.0	4.0 4.0 4.1	4.0		4.2 4.0 3.0	4.1	
				6.7	Middle	3.4	24.5 24.6 24.6	24.6	8.5 8.5	8.5	30.2 30.2 30.2	30.2	98.5 98.4	98.7	6.9 6.9	6.9		4.1 4.1 4.1	4.1	4.1	3.0 3.0 4.6	3.0	4.4
20-May-16	Rainy	Moderate	11:31		Bottom	5.7	24.6 24.5 25.0	24.5	8.4 8.4	8.5	30.2 30.7 29.0	30.5	98.4 97.2 93.1	97.8	6.9 6.8 6.5	6.9	6.9	4.1 4.3 7.6	4.2		7.3 8.2	6.0	<u> </u>
20-111ay-10	Nality	woderate	11.31		Surface	1.0	25.0 25.0 24.9	25.0	8.4 8.4 8.4	8.4	29.0 29.0 29.4	29.0	93.1 93.0 93.0	93.1	6.5 6.5	6.5	6.5	7.6 7.7 7.6	7.7		8.2 8.3 8.5	8.3	
				6.5	Middle	3.3	24.9 24.9 25.0	24.9	8.4 8.4	8.4	29.4 29.6 29.3	29.5	93.0 93.0 92.7	93.0	6.5 6.5	6.5		7.6 7.6 7.5	7.6	7.6	8.9 9.1	8.7	8.6
					Bottom	5.5	25.0 24.9	24.9	8.4 8.4	8.4	29.3 29.7	29.5	92.7 92.6	92.7	6.5 6.5	6.5	6.5	7.5 7.6	7.6		9.1 8.4	8.8	

Remarks:

* DA: Depth-Averaged

Water Quality Monitoring Results at SR10A - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampl	ing	Tempera	ature (°C)	p	Н	Salinit	y (ppt)	DO Satu	ration (%)	Dissolv	ved Oxyger	i (mg/L)	Т	urbidity(NTL	J)	Suspe	ended Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-May-16	Sunny	Moderate	14:21		Surface	1.0	26.5 26.6	26.6	8.4 8.4	8.4	21.8 21.7	21.7	86.3 87.3	86.8	6.1 6.2	6.2	6.2	5.6 5.7	5.7		4.8 5.7	5.3	
				6.2	Middle	3.1	26.2 26.2	26.2	8.4 8.4	8.4	22.8 23.4	23.1	84.7 86.2	85.5	6.0 6.1	6.1	0.2	5.6 5.6	5.6	5.7	4.6 5.6	5.1	5.0
					Bottom	5.2	26.4 25.7	26.1	8.3 8.3	8.3	25.2 25.6	25.4	86.4 84.5	85.5	6.0 6.0	6.0	6.0	5.9 5.7	5.8		4.4 4.9	4.7	
25-May-16	Sunny	Moderate	15:31		Surface	1.0	27.1 27.1	27.1	8.4 8.4	8.4	20.0 20.3	20.2	90.4 90.5	90.5	6.3 6.4	6.4	6.4	4.6 4.7	4.7		9.3 8.3	8.8	
				6.6	Middle	3.3	26.4 26.5	26.5	8.4 8.4	8.4	22.0 22.1	22.1	88.2 88.6	88.4	6.3 6.2	6.3	0.4	4.6 4.7	4.7	4.7	9.2 8.3	8.8	8.2
					Bottom	5.6	26.4 26.7	26.6	8.4 8.4	8.4	24.2 24.0	24.1	86.9 83.1	85.0	6.2 5.9	6.0	6.0	4.8 4.8	4.8		7.5 6.6	7.1	
27-May-16 ***	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Bottom	-		-		-		-	-	-	-	-	-	-	-		-	-	
30-May-16	Sunny	Moderate	13:57		Surface	1.0	28.0 28.0	28.0	8.4 8.4	8.4	16.7 16.8	16.7	90.7 90.4	90.6	6.5 6.5	6.5	6.4	1.6 1.7	1.7		7.3 6.6	7.0	
				6.5	Middle	3.3	27.4 27.5	27.5	8.3 8.3	8.3	19.6 19.8	19.7	87.1 89.8	88.5	6.2 6.3	6.2	0.4	1.7 1.8	1.8	1.8	5.9 6.6	6.3	6.6
					Bottom	5.5	27.4 27.3	27.4	8.3 8.3	8.3	21.0 21.1	21.1	88.9 86.3	87.6	6.3 6.1	6.2	6.2	1.8 1.8	1.8		6.0 6.7	6.4	

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

Remarks:

* DA: Depth-Averaged

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

Water Quality Monitoring Results at SR10A - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	/ed Oxygen	(mg/L)	Т	urbidity(NT	J)	Suspe	nded Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
2-May-16	Sunny	Moderate	15:40		Surface	1.0	23.1 23.1	23.1	8.4 8.4	8.4	22.9 22.8	22.9	88.4 88.6	88.5	6.6 6.7	6.6		2.7 2.8	2.8		4.5 4.6	4.6	
				6.5	Middle	3.3	22.7 22.6	22.7	8.4 8.4	8.4	25.6 25.8	25.7	87.7 88.1	87.9	6.5 6.5	6.5	6.6	2.7 2.8	2.8	2.8	5.9 5.3	5.6	5.3
					Bottom	5.5	22.8 22.5	22.6	8.4 8.4	8.4	26.7 26.5	26.6	87.6 87.1	87.4	6.5 6.5	6.5	6.5	2.8	2.8		5.4 5.8	5.6	
4-May-16	Sunny	Moderate	18:01		Surface	1.0	24.1 23.8	24.0	8.4 8.4	8.4	20.6 20.8	20.7	85.6 84.6	85.1	6.4 6.3	6.4		4.0	4.0		3.5 3.3	3.4	
				6.6	Middle	3.3	23.2 23.3	23.2	8.3 8.3	8.3	24.7 24.6	24.6	83.6 83.4	83.5	6.2 6.2	6.2	6.3	4.0	4.2	4.2	2.3 4.3	3.3	3.6
					Bottom	5.6	23.3 23.0	23.2	8.3 8.3	8.3	26.6 26.8	26.7	84.1 83.5	83.8	6.2 6.1	6.1	6.1	4.4	4.3		3.3 5.1	4.2	
6-May-16	Sunny	Moderate	19:41		Surface	1.0	24.9 24.8	24.9	8.4 8.4	8.4	23.0 23.1	23.1	85.4 84.7	85.1	6.2 6.2	6.2		4.2	4.2		7.4 6.6	7.0	
				6.8	Middle	3.4	24.6 24.6	24.6	8.3 8.4	8.4	23.3	23.4	84.4 84.0	84.2	6.1 6.1	6.1	6.2	4.1	4.3	4.2	6.7 5.8	6.3	6.6
					Bottom	5.8	24.5 24.6	24.5	8.3 8.3	8.3	24.3 24.5	24.4	84.1 84.4	84.3	6.1 6.1	6.1	6.1	4.2	4.2		6.1 7.0	6.6	
9-May-16	Sunny	Moderate	07:16		Surface	1.0	24.0 24.7 24.6	24.7	8.4 8.4	8.4	23.5 23.5 23.5	23.5	82.0 81.7	81.9	6.0 5.9	6.0		4.2	4.3		2.3 3.8	3.1	
				6.6	Middle	3.3	24.0 24.1 24.3	24.2	8.3 8.3	8.3	28.3 27.7	28.0	80.9 80.9	80.9	5.8 5.8	5.8	5.9	4.4	4.4	4.4	2.9 3.6	3.3	3.3
					Bottom	5.6	24.4 23.9	24.2	8.3 8.3	8.3	28.5	28.6	80.7 80.6	80.7	5.7 5.8	5.7	5.7	4.5	4.5		3.5	3.4	
11-May-16	Sunny	Moderate	08:36		Surface	1.0	25.4 25.3	25.3	8.3 8.3	8.3	16.7 16.8	16.8	81.0 80.6	80.8	6.0 6.0	6.0		4.1	4.1		4.5 5.1	4.8	
				6.5	Middle	3.3	24.8 24.5	24.6	8.3 8.2	8.2	17.2	17.9	80.2 80.2	80.2	6.0 6.0	6.0	6.0	4.0	4.1	4.1	5.3 4.7	5.0	4.9
					Bottom	5.5	24.2 24.1	24.1	8.1 8.1	8.1	25.9 26.1	26.0	79.7 79.2	79.5	5.8 5.7	5.8	5.8	4.2	4.1		4.9	4.9	
13-May-16	Sunny	Moderate	10:14		Surface	1.0	25.1 25.1	25.1	8.2 8.3	8.2	20.0	19.9	85.9 86.4	86.2	6.3 6.4	6.4		2.3 2.2	2.3		4.6 4.6	4.6	
				6.7	Middle	3.4	25.0 24.8	24.9	8.2 8.2	8.2	20.9 21.7	21.3	85.1 85.4	85.3	6.2 6.3	6.3	6.4	2.6 2.6	2.6	2.6	5.1 6.0	5.6	5.7
					Bottom	5.7	24.8 25.0	24.9	8.2 8.2	8.2	25.4 22.2	23.8	85.6 85.7	85.7	6.2 6.2	6.2	6.2	2.8 2.7	2.8		6.7 6.9	6.8	
16-May-16	Sunny	Moderate	16:31		Surface	1.0	25.9 25.9	25.9	8.6 8.6	8.6	17.4 17.3	17.4	99.5 97.1	98.3	7.3 7.2	7.2	6.9	3.3 3.3	3.3		5.8 6.6	6.2	
				6.7	Middle	3.4	25.6 25.7	25.6	8.5 8.5	8.5	22.3 19.9	21.1	88.1 93.6	90.9	6.4 6.7	6.5	6.9	3.2 3.1	3.2	3.2	6.8 5.9	6.4	6.0
					Bottom	5.7	24.2 24.2	24.2	8.4 8.3	8.3	30.6 30.6	30.6	87.6 92.3	90.0	6.2 6.6	6.4	6.4	3.1 3.1	3.1		5.6 5.2	5.4	
18-May-16	Sunny	Moderate	17:45		Surface	1.0	24.8 24.9	24.8	8.5 8.5	8.5	28.7 28.5	28.6	105.5 102.6	104.1	7.4 7.2	7.3	7.3	4.9 4.9	4.9		7.2 7.6	7.4	
				6.3	Middle	3.2	24.7 24.6	24.7	8.5 8.5	8.5	29.1 29.4	29.3	103.9 102.1	103.0	7.3 7.2	7.3	1.5	4.9 5.0	5.0	5.0	7.6 8.1	7.9	7.4
					Bottom	5.3	24.8 24.7	24.7	8.5 8.5	8.5	28.9 29.4	29.2	103.1 100.6	101.9	7.3 7.1	7.2	7.2	4.9 5.0	5.0		7.2 6.8	7.0	
20-May-16	Cloudy	Moderate	19:42		Surface	1.0	25.2 25.2	25.2	8.5 8.5	8.5	26.5 26.2	26.4	96.1 96.3	96.2	6.8 6.8	6.8	6.8	4.5 4.7	4.6		4.3 4.3	4.3	
				6.4	Middle	3.2	25.2 25.2	25.2	8.5 8.5	8.5	27.1 27.1	27.1	95.8 95.9	95.9	6.8 6.8	6.8	0.0	4.8 4.9	4.9	4.8	4.5 3.1	3.8	4.2
					Bottom	5.4	25.2 25.1	25.2	8.4 8.4	8.4	27.9 27.8	27.8	95.8 95.7	95.8	6.7 6.7	6.7	6.7	4.9 4.8	4.9		4.2 4.5	4.4	

* DA: Depth-Averaged

Water Quality Monitoring Results at SR10A - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Sampl	ing	Tempera	ature (°C)	p	Н	Salinit	y (ppt)	DO Satu	ration (%)	Dissolv	ved Oxyger	i (mg/L)	Т	urbidity(NTL	J)	Suspe	nded Solids	; (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-May-16	Sunny	Moderate	06:21		Surface	1.0	25.4 25.5	25.5	8.3 8.3	8.3	26.5 26.0	26.3	83.7 84.1	83.9	5.9 5.9	5.9	5.9	4.7 4.6	4.7		3.0 3.6	3.3	Í
				6.6	Middle	3.3	25.2 25.2	25.2	8.3 8.3	8.3	30.5 30.5	30.5	83.5 83.3	83.4	5.8 5.8	5.8	5.5	5.1 5.1	5.1	5.0	3.0 3.5	3.3	4.4
					Bottom	5.6	25.2 25.2	25.2	8.3 8.3	8.3	30.6 30.6	30.6	83.3 83.4	83.4	5.8 5.8	5.8	5.8	5.2 5.3	5.3		6.7 6.4	6.6	
25-May-16	Sunny	Moderate	07:19		Surface	1.0	26.0 26.2	26.1	8.3 8.3	8.3	24.2 24.2	24.2	83.6 83.8	83.7	5.9 5.9	5.9	5.9	2.6 2.8	2.7		5.7 4.1	4.9	
				6.3	Middle	3.2	25.8 25.8	25.8	8.3 8.3	8.3	27.3 27.3	27.3	83.3 83.2	83.3	5.8 5.8	5.8	5.5	2.8 2.8	2.8	2.8	3.5 4.7	4.1	4.2
					Bottom	5.3	25.9 25.7	25.8	8.3 8.2	8.2	29.1 29.5	29.3	83.2 83.1	83.2	5.7 5.8	5.7	5.7	3.0 3.0	3.0		4.0 3.4	3.7	
27-May-16 ***	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
				-	Middle	-		-		-		-	-	-	-	-		-	-	-	-	-	-
					Bottom	-		-		-	-	-	-	-	-	-	-	-	-		-	-	
30-May-16	Sunny	Moderate	07:12		Surface	1.0	27.6 27.7	27.6	8.1 8.2	8.2	16.7 16.7	16.7	89.2 88.8	89.0	6.4 6.4	6.4	6.4	2.2 2.1	2.2		2.3 2.1	2.2	
				6.6	Middle	3.3	27.6 27.5	27.6	8.1 8.1	8.1	17.3 17.3	17.3	87.2 88.7	88.0	6.3 6.4	6.3	0.4	2.3 2.2	2.3	2.3	2.3 2.2	2.3	2.4
					Bottom	5.6	27.3 27.6	27.5	8.1 8.1	8.1	20.5 20.2	20.4	86.2 88.8	87.5	6.1 6.3	6.2	6.2	2.3 2.2	2.3		2.5 2.8	2.7	

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

Remarks:

* DA: Depth-Averaged

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

Water Quality Monitoring Results at SR10B(N) - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	н	Salini	ity (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Т	urbidity(NT	U)	Suspended Solids (mg/L)			
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*	
2-May-16	Sunny	Moderate	08:46		Surface	1.0	22.8 22.7	22.7	8.3 8.3	8.3	26.3 26.5	26.4	87.1 87.0	87.1	6.4 6.5	6.4	0.1	2.1 2.3	2.2		4.1 4.1	4.1		
				5.2	Middle	-	-	-	-	-	-	-	-	-	-	-	6.4	-	-	2.2	-	-	4.9	
					Bottom	4.2	22.3 22.5	22.4	8.3 8.3	8.3	28.7 28.9	28.8	86.3 86.6	86.5	6.4 6.4	6.4	6.4	2.2 2.1	2.2		6.3 5.1	5.7		
4-May-16	Sunny	Moderate	10:00		Surface	1.0	23.1 23.0	23.1	8.2 8.2	8.2	27.2 27.5	27.3	90.9 89.1	90.0	6.7 6.5	6.6		1.9 1.9	1.9		2.9 3.8	3.4		
				5.2	Middle	-	-	-	-	-	-	-	-	-	-	-	6.6	-	-	2.0	-	-	3.0	
					Bottom	4.2	22.8 23.0	22.9	8.2 8.2	8.2	28.5 29.0	28.8	93.9 89.7	91.8	6.9 6.5	6.7	6.7	2.0 1.9	2.0		2.4 2.7	2.6		
6-May-16	Sunny	Moderate	11:31		Surface	1.0	24.9 24.6	24.7	8.5 8.5	8.5	22.1 22.5	22.3	87.1 86.9	87.0	6.4 6.4	6.4		5.5 5.6	5.6		3.5 4.5	4.0		
				5.3	Middle	-	-	-	-	-	-	-	-	-	-	-	6.4	-	-	5.6	-	-	4.5	
					Bottom	4.3	24.2 24.4	24.3	8.5 8.5	8.5	25.0 24.8	24.9	87.0 86.3	86.7	6.3 6.3	6.3	6.3	5.5 5.4	5.5		5.0 4.7	4.9		
9-May-16	Sunny	Moderate	15:31		Surface	1.0	25.8 25.8	25.8	8.3 8.3	8.3	19.2 19.3	19.3	82.5 82.1	82.3	6.0 6.0	6.0		5.9 5.6	5.8		4.4 3.8	4.1		
				5.4	Middle	-	-	-	-	-	-	-	-	-	-	-	6.0	-	-	5.8	-	-	4.1	
					Bottom	4.4	25.7 25.4	25.5	8.3 8.3	8.3	20.7 20.7	20.7	82.0 81.5	81.8	6.0 6.0	6.0	6.0	5.8 5.7	5.8		3.8 4.1	4.0		
11-May-16	Sunny	Moderate	16:42		Surface	1.0	26.1 26.0	26.0	8.3 8.3	8.3	16.0 15.9	16.0	81.8 81.8	81.8	6.1 6.1	6.1	6.1	4.0 4.1	4.1		4.3 4.3	4.3		
				4.9	Middle	-	-	-		-		-	-	-	-	-	0.1	-	-	4.2	-	-	4.1	
					Bottom	3.9	25.8 26.1	26.0	8.2 8.3	8.3	17.6 17.9	17.7	81.7 81.8	81.8	6.0 6.0	6.0	6.0	4.2 4.1	4.2		4.0 3.6	3.8		
13-May-16	Sunny	Moderate	19:14		Surface	1.0	25.2 25.1	25.1	8.2 8.2	8.2	21.9 21.9	21.9	89.3 88.9	89.1	6.5 6.5	6.5	6.5	2.2 2.3	2.3		2.6 2.8	2.7		
				5.1	Middle	-	-	-	-	-	-	-	-	-	-	-	0.5	-	-	2.4	-	-	3.3	
					Bottom	4.1	25.1 25.3	25.2	8.2 8.3	8.3	22.1 20.4	21.2	87.6 87.3	87.5	6.4 6.4	6.4	6.4	2.5 2.5	2.5		3.6 3.9	3.8		
16-May-16	Sunny	Moderate	08:47		Surface	1.0	25.6 25.5	25.5	8.5 8.5	8.5	17.9 18.0	17.9	95.6 95.5	95.6	7.1 7.1	7.1	7.1	2.6 2.6	2.6		3.6 2.9	3.3		
				5.0	Middle	-	-	-	-	-	-	-	-	-	-	-	7.1	-	-	2.6	-	-	3.2	
					Bottom	4.0	25.3 25.1	25.2	8.3 8.3	8.3	26.4 26.7	26.5	95.2 95.3	95.3	6.7 6.8	6.7	6.7	2.4 2.6	2.5		2.7 3.3	3.0		
18-May-16	Sunny	Moderate	10:10		Surface	1.0	24.8 24.7	24.8	8.4 8.4	8.4	29.4 29.6	29.5	100.5 100.2	100.4	7.1 7.0	7.0	7.0	4.2 4.4	4.3		4.5 5.9	5.2		
				5.0	Middle	-	-	-		-		-	-	-	-	-	7.0	-	-	4.4	-	-	5.5	
					Bottom	4.0	24.7 24.7	24.7	8.4 8.4	8.4	29.7 29.7	29.7	100.0 100.5	100.3	7.0 7.1	7.0	7.0	4.4 4.4	4.4		6.5 4.9	5.7		
20-May-16	Rainy	Moderate	11:20		Surface	1.0	25.0 25.0	25.0	8.3 8.3	8.3	29.6 29.5	29.6	94.0 93.6	93.8	6.6 6.5	6.6	6.6	7.7 7.5	7.6		8.0 8.9	8.5		
				4.9	Middle	-	-	-	-	-	-	-	-	-	-	-	0.0	-	-	7.6	-	-	8.8	
					Bottom	3.9	24.9 24.9	24.9	8.3 8.3	8.3	30.4 30.0	30.2	94.5 93.7	94.1	6.6 6.5	6.6	6.6	7.5 7.4	7.5		9.6 8.4	9.0	1	

Remarks:

* DA: Depth-Averaged

Water Quality Monitoring Results at SR10B(N) - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samplir	ng	Tempera	ature (°C)	F	эΗ	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ved Oxyger	(mg/L)	Т	urbidity(NTl	J)	Suspe	s (mg/L)	
	Condition	Condition**	Time	Depth (m)	Depth (r	m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-May-16	Sunny	Moderate	14:32		Surface	1.0	26.6 26.6	26.6	8.4 8.3	8.4	21.7 21.8	21.8	88.2 88.7	88.5	6.3 6.3	6.3	6.3	4.5 4.6	4.6		6.0 4.5	5.3	
				4.7	Middle	-	-	-	-	-	-	-	-	-	-	-	0.5	-	-	4.6	-	-	5.4
					Bottom	3.7	26.6 26.6	26.6	8.3 8.4	8.4	22.1 22.0	22.0	88.3 87.5	87.9	6.3 6.2	6.2	6.2	4.6 4.5	4.6		5.5 5.5	5.5	
25-May-16	Sunny	Moderate	15:39		Surface	1.0	26.7 27.0	26.8	8.4 8.4	8.4	20.3 20.4	20.4	91.5 90.8	91.2	6.5 6.5	6.5	6.5	4.7 4.7	4.7		10.1 8.5	9.3	
				4.8	Middle	-		-		-	-	-	-	-	-	-	0.0	-	-	4.8	-	-	7.9
					Bottom	3.8	26.6 26.9	26.8	8.4 8.4	8.4	23.0 23.0	23.0	90.0 90.4	90.2	6.4 6.3	6.4	6.4	4.8 4.7	4.8		5.7 7.0	6.4	
27-May-16 ***	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
				-	Middle	-		-		-	-	-		-	-	-	-	-	-	-	-	-	-
					Bottom	-		-		-	-	-	-	-	-	-	-	-	-		-	-	
30-May-16	Sunny	Moderate	14:05		Surface	1.0	27.8 27.8	27.8	8.3 8.3	8.3	17.0 17.1	17.1	90.6 90.3	90.5	6.5 6.5	6.5	6.5	1.7 1.8	1.8		3.6 2.5	3.1	ļ
				5.3	Middle	-	-	-	-	-	-	-	-	-	-	-	6.5 -	-	-	1.8	-	-	3.6
					Bottom	4.3	27.5 27.4	27.5	8.3 8.3	8.3	20.1 20.2	20.2	90.1 90.3	90.2	6.4 6.4	6.4	6.4	4 1.7 1.7	1.7		4.8 3.3	4.1	

Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

Remarks:

* DA: Depth-Averaged

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

Water Quality Monitoring Results at SR10B(N) - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	Dissolved Oxygen (mg/L)			Furbidity(NT	ΰ)	Suspended Solids (mg/L		
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
2-May-16	Sunny	Moderate	15:50		Surface	1.0	23.1 23.2	23.2	8.4 8.4	8.4	22.7 22.5	22.6	91.5 91.3	91.4	6.9 6.9	6.9	6.9	2.7 2.9	2.8		2.7 3.4	3.1	
				5.3	Middle	-	-	-	-	-	-	-	-	-	-	-	0.5	-	-	2.9	-	-	3.0
					Bottom	4.3	23.2 22.7	22.9	8.4 8.4	8.4	25.9 26.1	26.0	90.9 90.9	90.9	6.7 6.8	6.7	6.7	2.8 3.0	2.9		2.7 3.0	2.9	
4-May-16	Sunny	Moderate	18:15		Surface	1.0	23.7 24.0	23.9	8.4 8.4	8.4	20.6 20.7	20.6	85.3 85.7	85.5	6.4 6.4	6.4	6.4	3.6 3.5	3.6		4.2 2.7	3.5	
				5.3	Middle	-	-	-	-	-	-	-	-	-	-	-	0.4	-	-	3.7	-	-	3.0
					Bottom	4.3	23.5 23.2	23.3	8.3 8.3	8.3	25.1 25.7	25.4	85.0 84.6	84.8	6.3 6.2	6.2	6.2	3.8 3.7	3.8		2.2 2.5	2.4	
6-May-16	Sunny	Moderate	19:50		Surface	1.0	24.7 24.8	24.8	8.3 8.3	8.3	23.0 23.0	23.0	84.8 85.1	85.0	6.2 6.2	6.2	<u> </u>	4.2 4.2	4.2		7.1 7.5	7.3	
				5.4	Middle	-	-	-	-	-	-	-	-	-	-	-	6.2	-	-	4.3	-	-	7.2
					Bottom	4.4	24.2 24.7	24.5	8.3 8.3	8.3	24.8 24.1	24.5	84.2 84.8	84.5	6.1 6.1	6.1	6.1	4.3 4.2	4.3		6.8 7.1	7.0	
9-May-16	Sunny	Moderate	07:06		Surface	1.0	24.7 24.6	24.6	8.4 8.4	8.4	24.2 23.6	23.9	83.5 85.2	84.4	6.0 6.2	6.1		4.7 4.8	4.8		4.6 4.5	4.6	
				5.2	Middle	-	-	-	-	-	-	-	-	-	-	-	6.1	-	-	4.9	-	-	5.5
					Bottom	4.2	23.9 24.4	24.2	8.4 8.4	8.4	28.3 28.4	28.4	87.2 83.4	85.3	6.3 5.9	6.1	6.1	4.8 4.9	4.9		6.5 6.2	6.4	
11-May-16	Sunny	Moderate	08:16		Surface	1.0	25.5 25.2	25.4	8.3 8.3	8.3	16.7 16.7	16.7	86.5 90.4	88.5	6.3 6.6	6.5		4.1	4.1		5.1 4.8	6.2 ^{6.4} 5.1 5.0	
				5.3	Middle	-	-	-	-	-	-	-	-	-	-	-	6.5	-	-	4.1		-	4.9
					Bottom	4.3	25.0 25.4	25.2	8.2 8.2	8.2	22.7 21.4	22.1	88.6 84.6	86.6	6.6 6.3	6.4	6.4	4.1 4.1	4.1		5.5 3.9	4.7	
13-May-16	Sunny	Moderate	10:07		Surface	1.0	24.8 24.9	24.8	8.1 8.2	8.2	21.6 21.1	21.4	84.4 84.3	84.4	6.2 6.2	6.2		2.2 2.3	2.3		3.6 2.7	3.2	
				5.2	Middle	-	-	-	-	-	-	-	-	-	-	-	6.2	-	-	2.4	-	-	3.4
					Bottom	4.2	24.8 24.5	24.6	8.1 8.1	8.1	25.9 26.2	26.1	84.3 84.3	84.3	6.0 6.1	6.1	6.1	2.4 2.5	2.5		3.6 3.5	3.6	
16-May-16	Sunny	Moderate	16:40		Surface	1.0	25.7 25.9	25.8	8.5 8.5	8.5	17.5 17.5	17.5	100.0 105.9	103.0	7.4 7.8	7.6		3.4 3.6	3.5		4.0 5.1	4.6	
				5.2	Middle	-	-	-	-	-	-	-	-	-	-	-	7.6	-	-	3.5	-	-	5.4
					Bottom	4.2	25.6 24.8	25.2	8.4 8.4	8.4	30.1 27.0	28.6	102.2 98.4	100.3	7.2 7.0	7.1	7.1	3.4 3.6	3.5		6.5 5.6	6.1	-
18-May-16	Sunny	Moderate	17:53		Surface	1.0	24.8 24.7	24.8	8.6 8.5	8.6	28.6 28.9	28.8	107.2 108.3	107.8	7.6	7.6		4.8	4.9		5.7 6.7	6.2	
				5.3	Middle	-	-	-	-	-	-	-	-	-	-	-	7.6	-	-	5.0	-	-	6.5
					Bottom	4.3	24.9 24.7	24.8	8.6 8.5	8.6	28.7 29.3	29.0	106.3 104.8	105.6	7.5 7.4	7.4	7.4	4.9	5.0		7.1	6.8	1
20-May-16	Cloudy	Moderate	19:51		Surface	1.0	25.2 25.2	25.2	8.5 8.5	8.5	26.7 26.7	26.7	96.0 96.0	96.0	6.8 6.8	6.8		6.0 6.0	6.0		5.1 5.3	5.2	<u> </u>
				5.3	Middle	-	-	-	-	-	-	-	- 96.0	-	-	-	6.8	-	-	6.1	-	-	4.9
					Bottom	4.3	25.2	25.2	8.5	8.5	27.2	27.2	95.8	95.6	6.8	6.7	6.7	6.2	6.2		4.7	4.5	
							25.2		8.5		27.3		95.4		6.7	1		6.1	1		4.3	<u> </u>	1

Remarks:

* DA: Depth-Averaged

Water Quality Monitoring Results at SR10B(N) - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Sampli	ing	Tempera	ature (°C)	F	эΗ	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ved Oxyger	ı (mg/L)	Т	urbidity(NT	J)	Suspended Solids (mg/L)		
	Condition	Condition**	Time	Depth (m)	Depth ((m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-May-16	Sunny	Moderate	06:11		Surface	1.0	25.5 25.4	25.4	8.3 8.3	8.3	27.4 27.3	27.4	84.7 84.1	84.4	5.9 5.9	5.9	5.9	6.6 6.7	6.7		4.8 4.8	4.8	j
				5.3	Middle	-	-	-	-	-	-	-	-	-	-	-	5.5	-	-	6.7	-	-	4.6
					Bottom	4.3	25.3 25.2	25.2	8.2 8.2	8.2	31.0 31.3	31.1	84.1 85.3	84.7	5.8 5.9	5.8	5.8	6.6 6.5	6.6		4.8 3.8	4.3	
25-May-16	Sunny	Moderate	07:12		Surface	1.0	26.2 26.2	26.2	8.2 8.2	8.2	25.5 25.2	25.3	92.5 87.0	89.8	6.4 6.1	6.2	6.2	2.5 2.7	2.6		3.4 3.5	3.5	
				5.0	Middle	-		-		-	• •	-		-		-	0.2	-	-	2.7	-	-	4.0
					Bottom	4.0	25.9 26.1	26.0	8.1 8.2	8.2	29.5 28.1	28.8	88.1 86.4	87.3	6.2 6.0	6.1	6.1	2.7 2.7	2.7		3.7 5.2	4.5	
27-May-16 ***	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	-	-	-		-		-	-	-		-	-	-	-	-	-	-	<u>-</u>
					Bottom	-		-		-		-	-	-		-	-	-	-		-	-	
30-May-16	Sunny	Moderate	07:01		Surface	1.0	27.6 27.6	27.6	8.1 8.1	8.1	16.5 16.5	16.5	88.8 89.3	89.1	6.4 6.4	6.4	6.4	2.4 2.4	2.4		2.7 2.9	2.8	
				5.0	Middle	-	-	-	-	-	-	-	-	-	-	-	6.4	-	-	2.5	-	-	2.8
					Bottom	4.0	27.6 27.4	27.5	8.1 8.1	8.1	18.0 18.1	18.0	89.1 88.2	88.7	6.4 6.3	6.3	6.3	2.5 2.4	2.5		2.5 2.8	2.7	

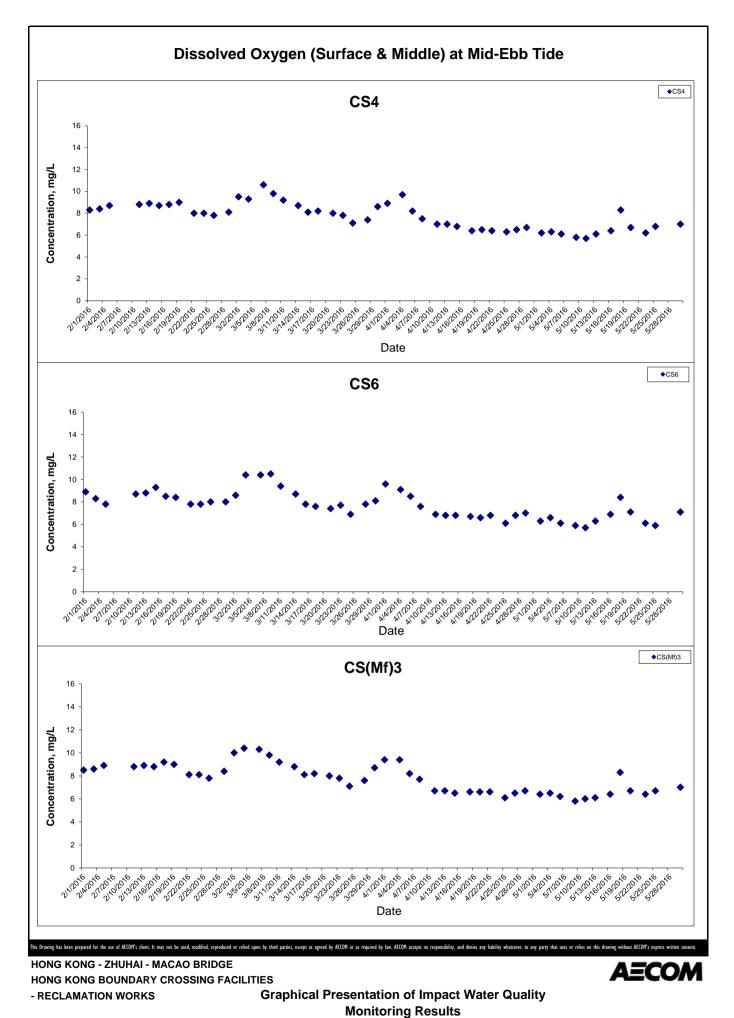
Remarks:

Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

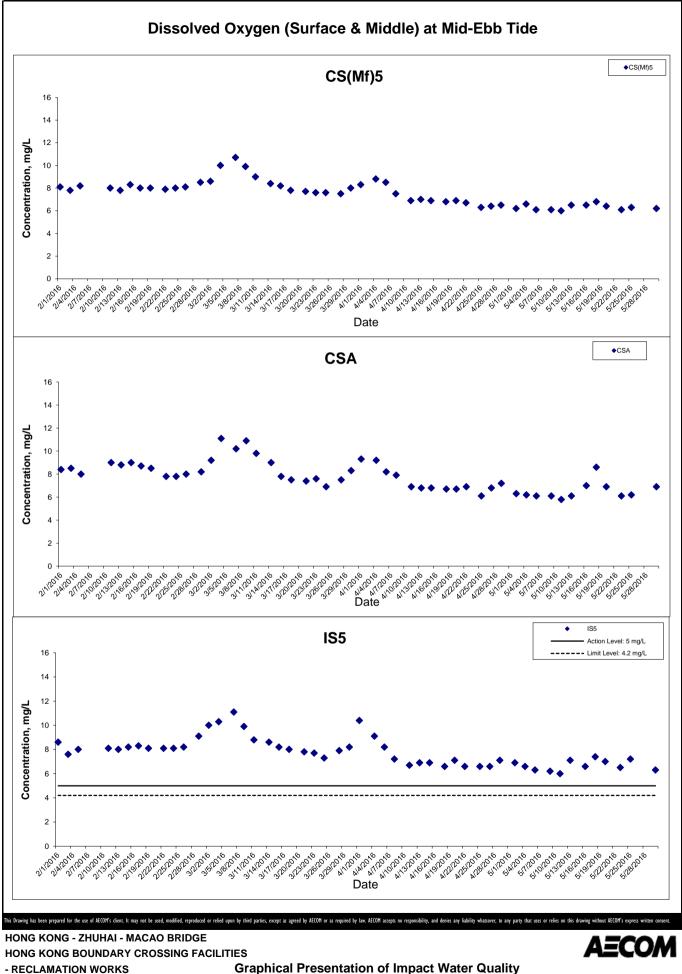
Remarks:

* DA: Depth-Averaged

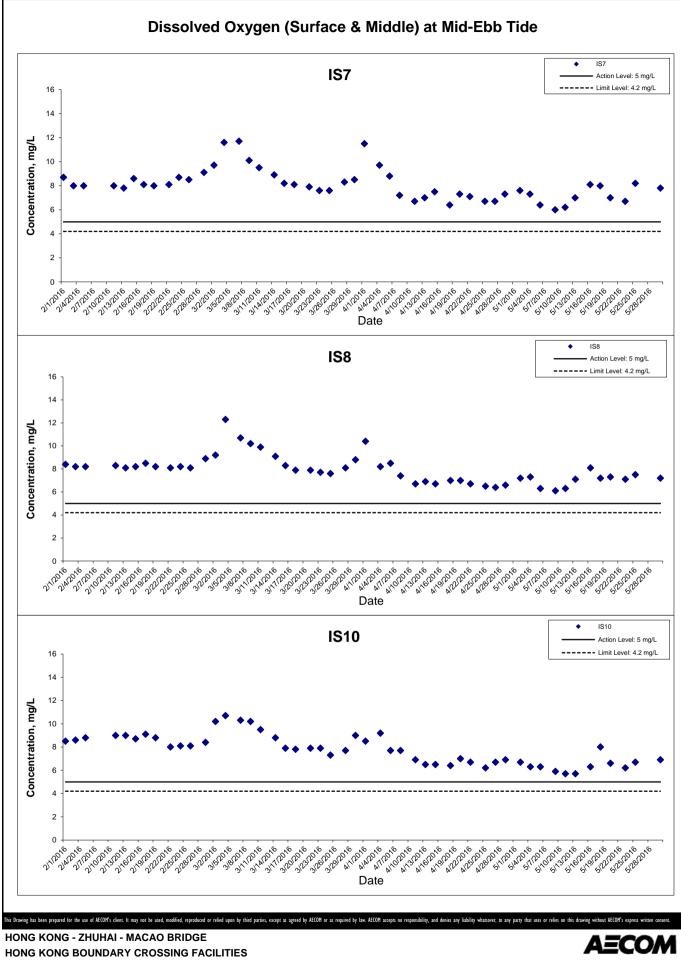
** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher



Project No.: 60249820 Date: June 2016

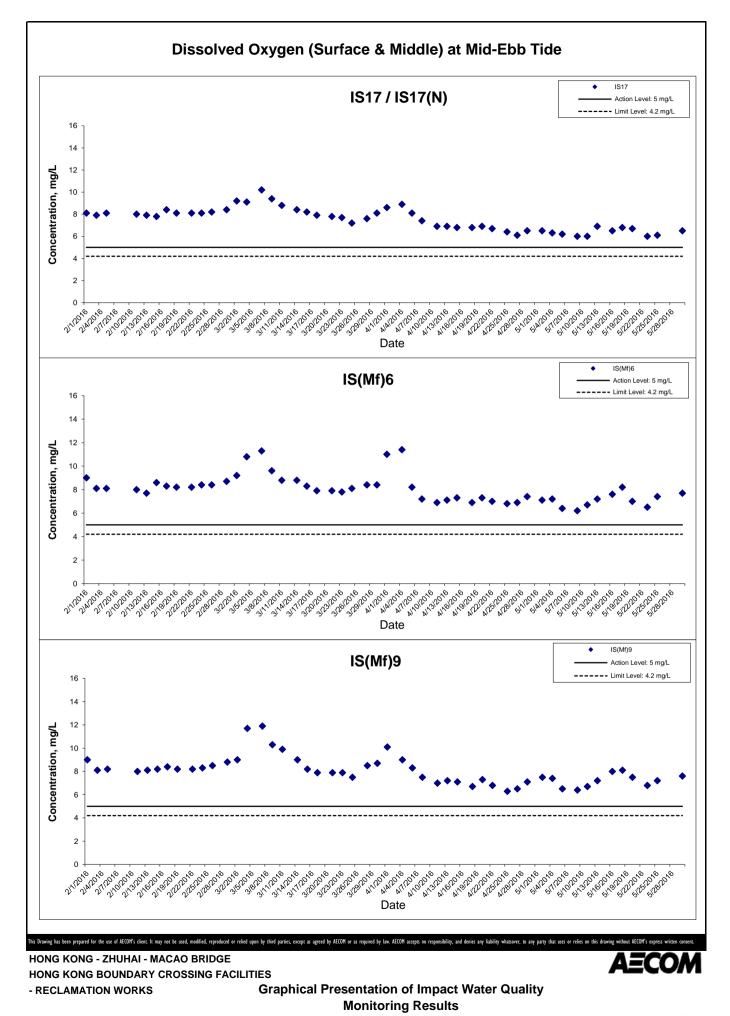


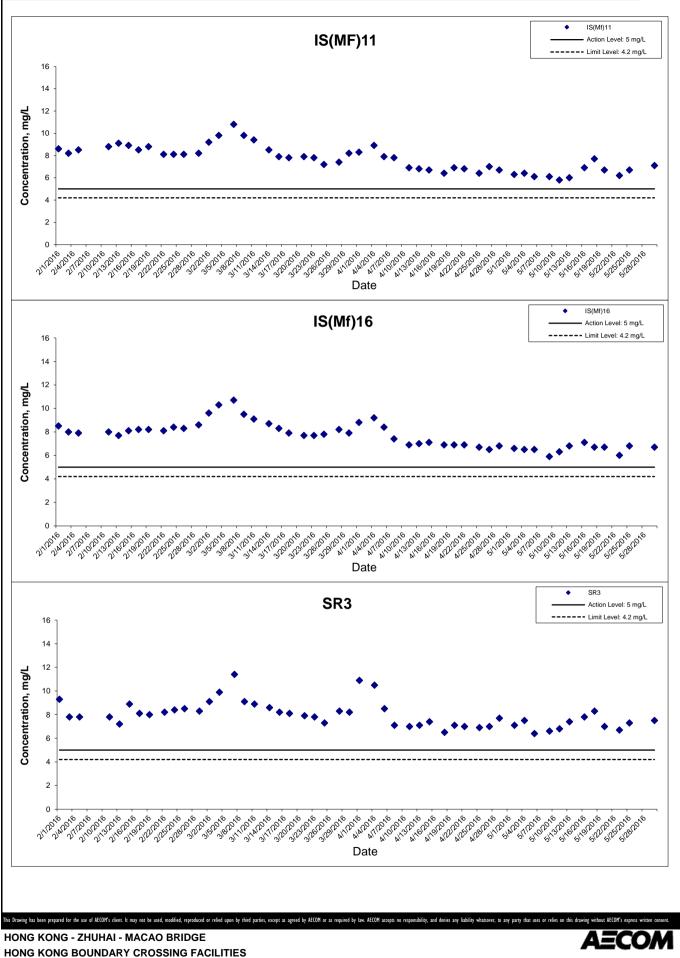
Graphical Presentation of Impact Water Quality Monitoring Results



Graphical Presentation of Impact Water Quality Monitoring Results

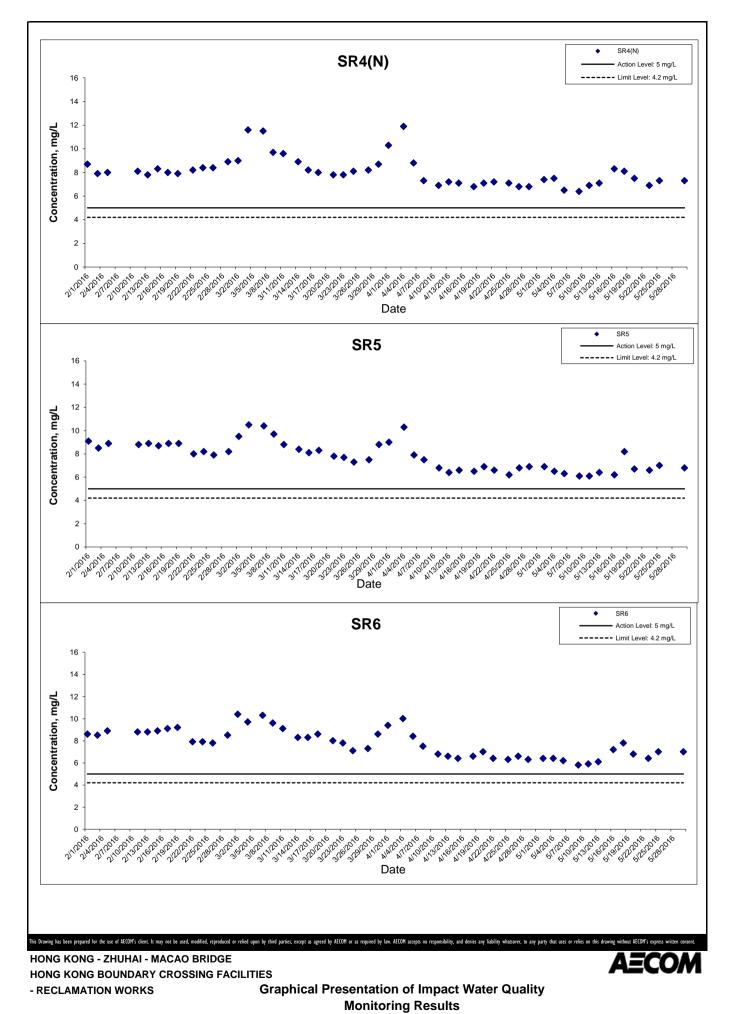
- RECLAMATION WORKS

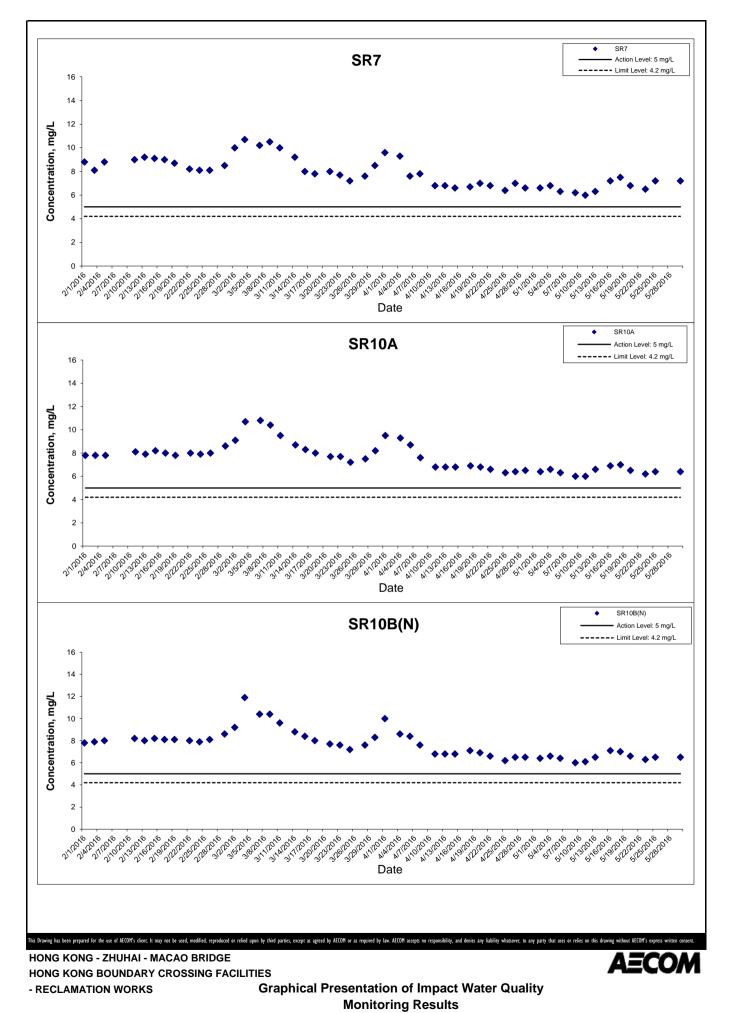




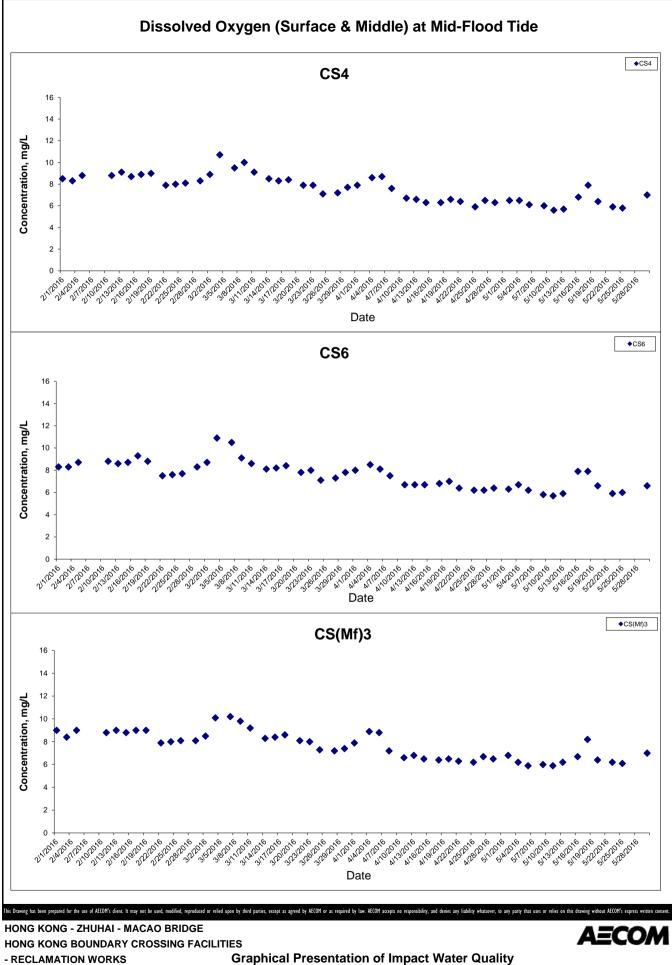
Graphical Presentation of Impact Water Quality Monitoring Results

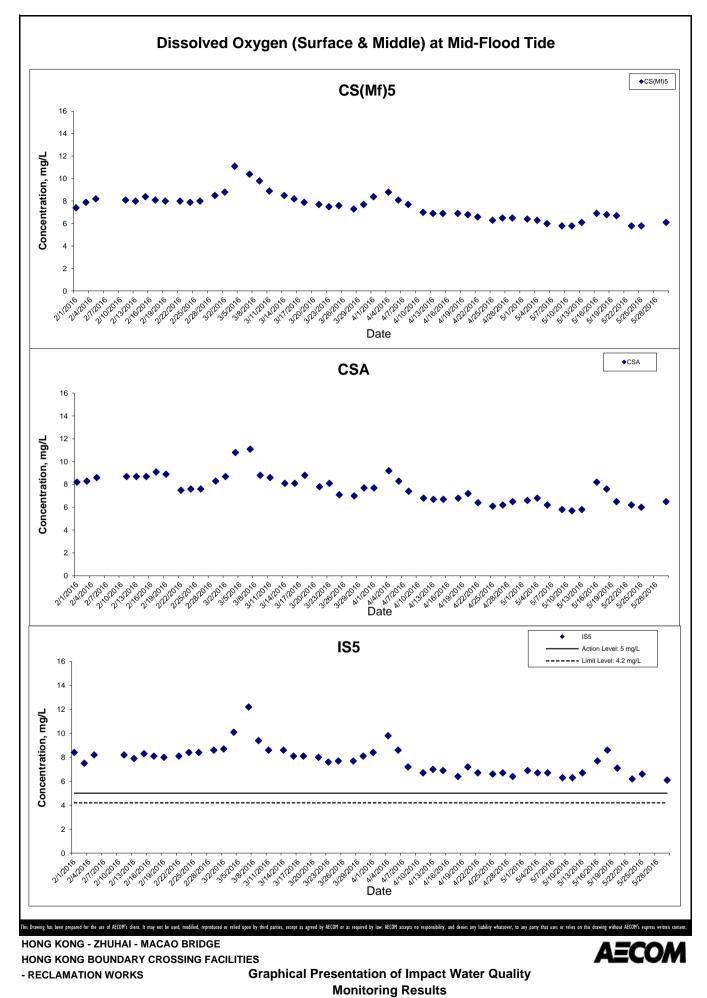
- RECLAMATION WORKS

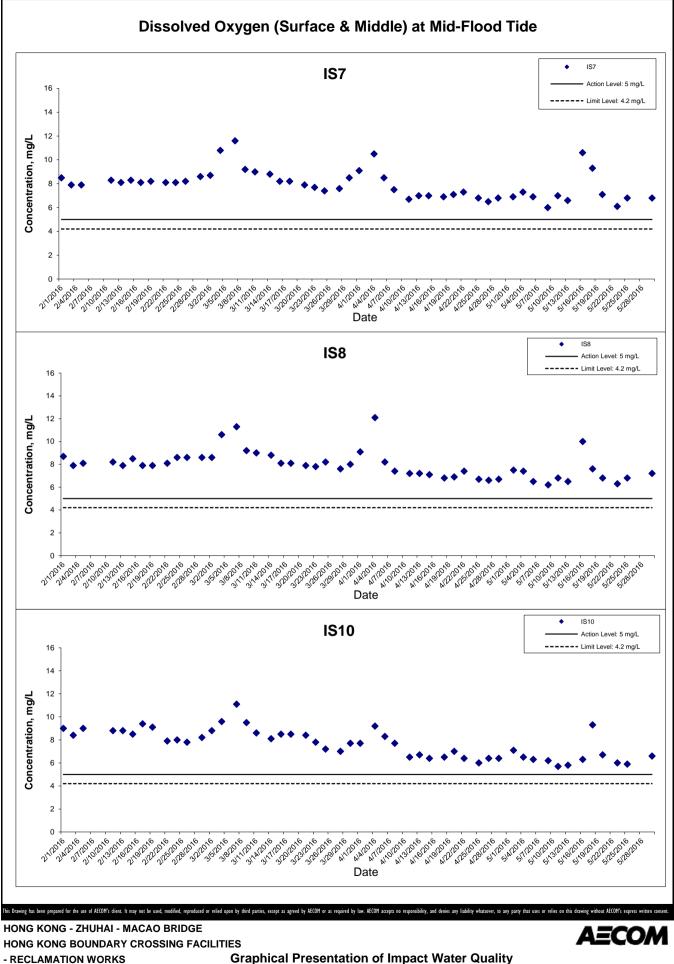


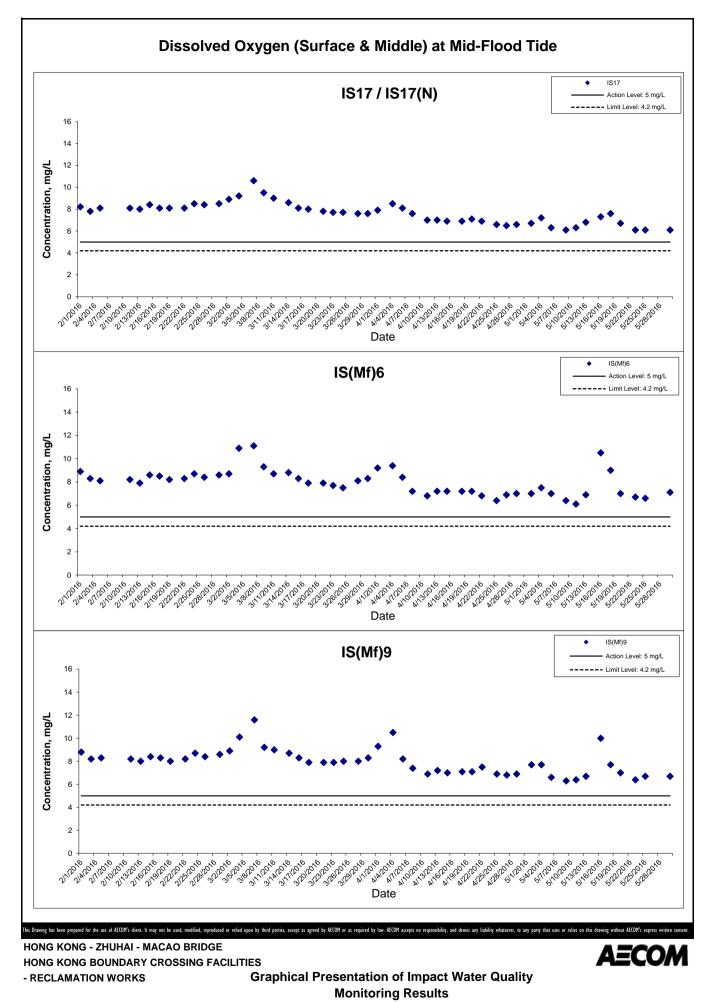


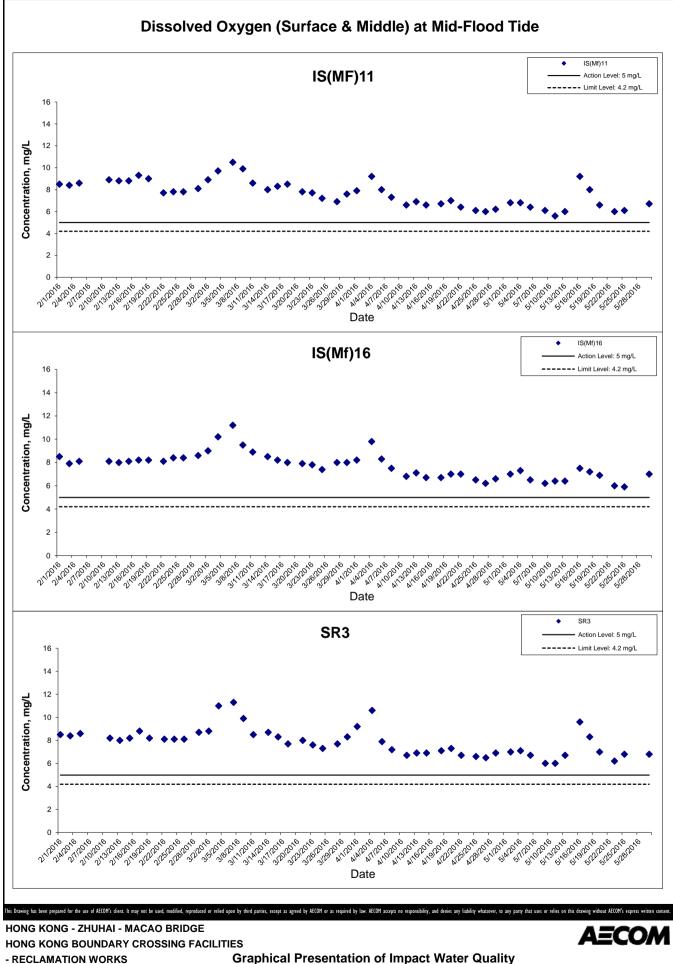
Project No.: 60249820 Date: June 2016

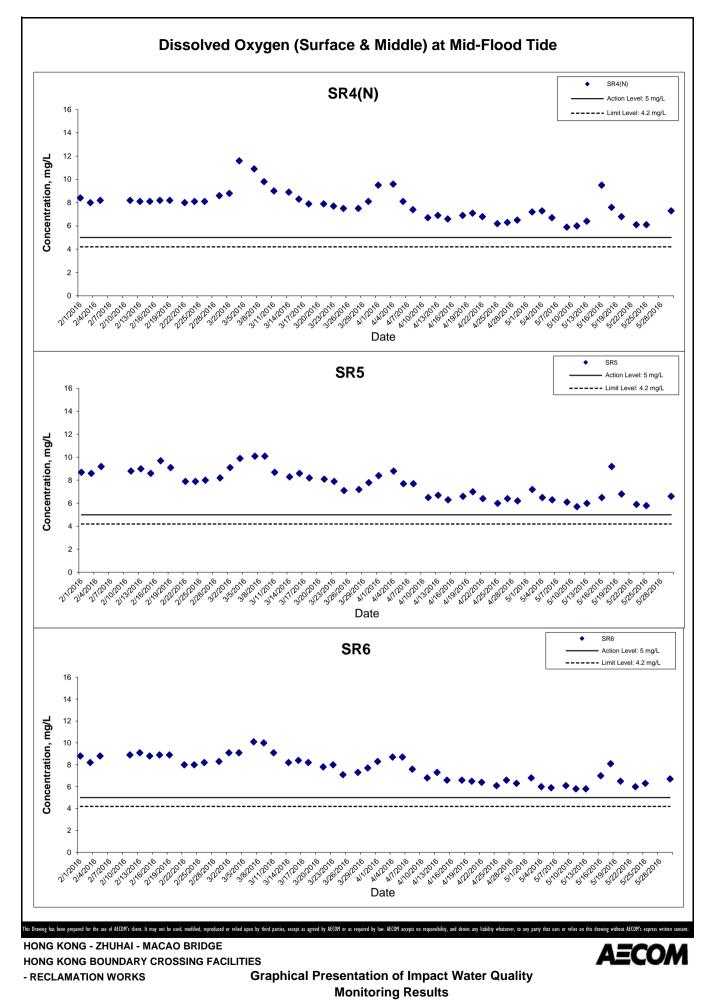


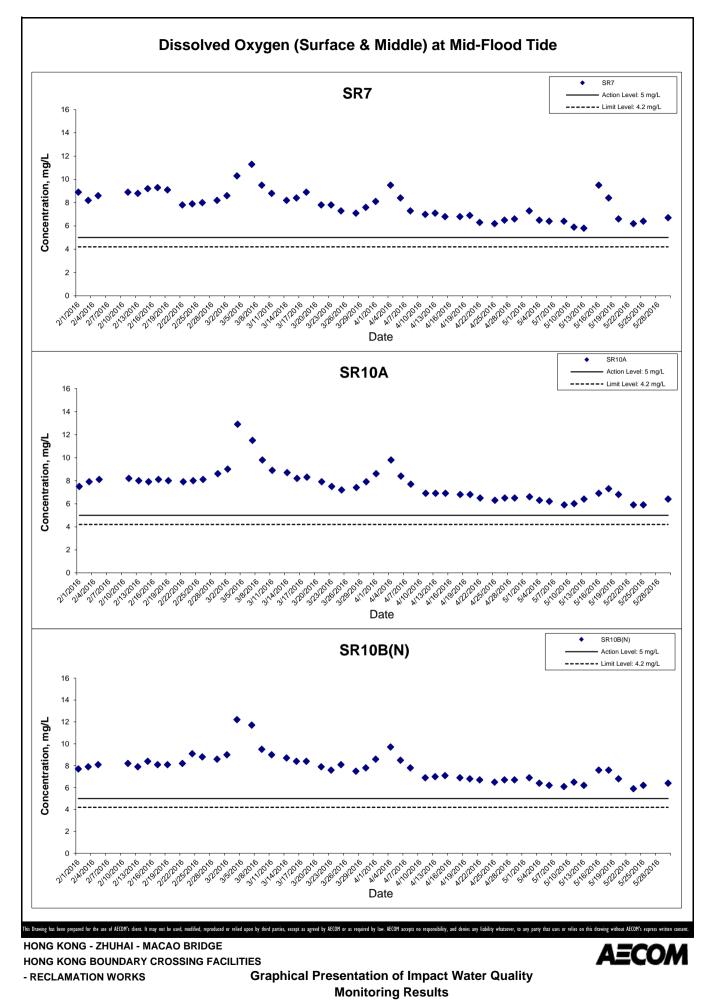




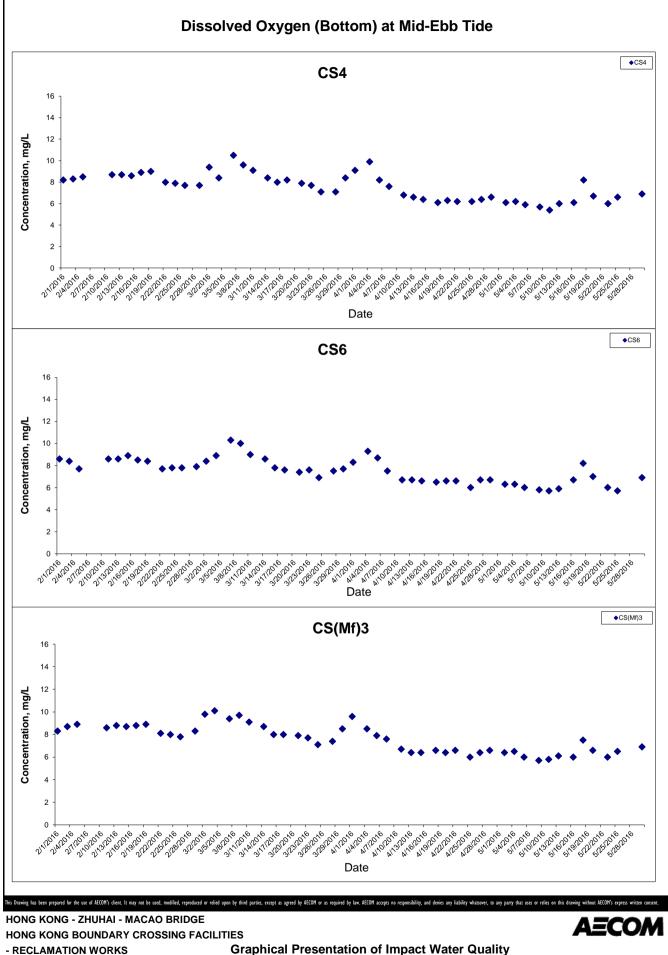


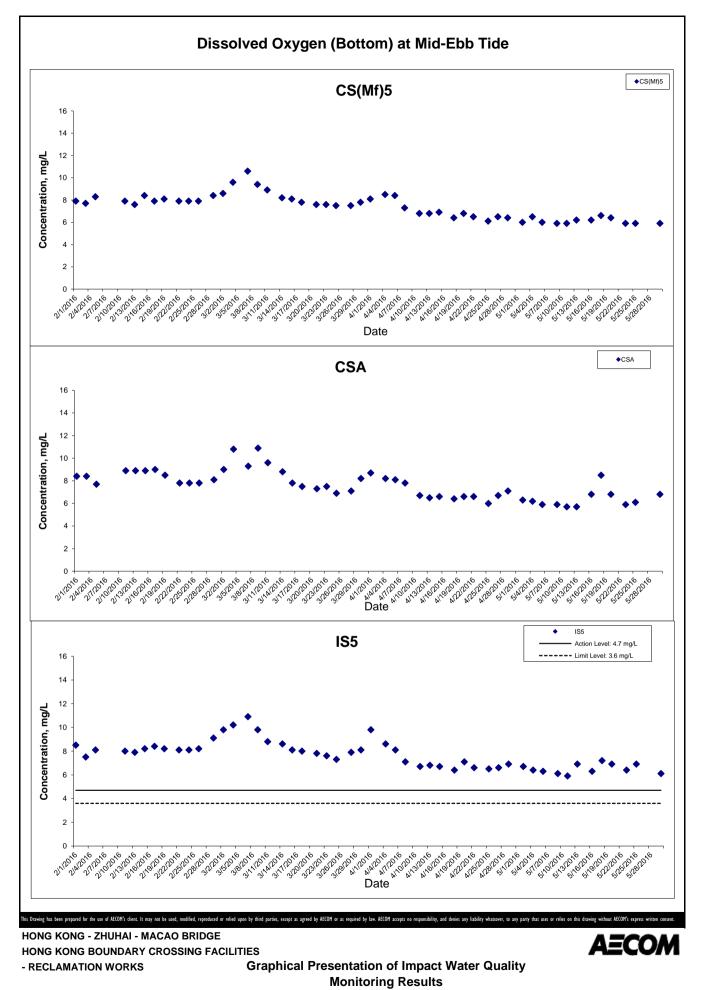


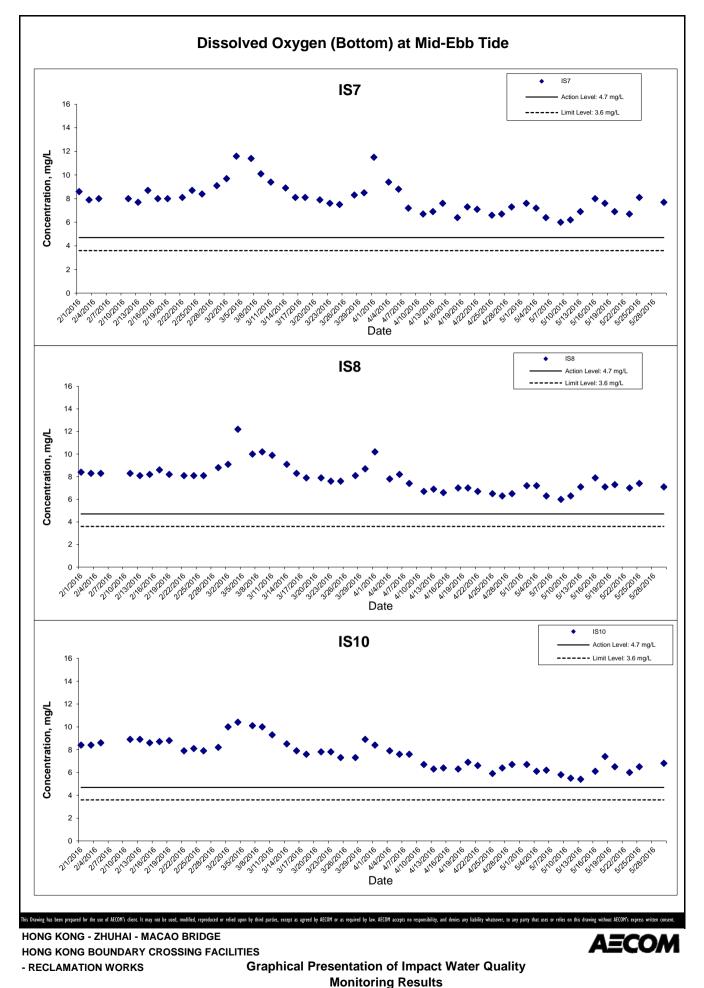


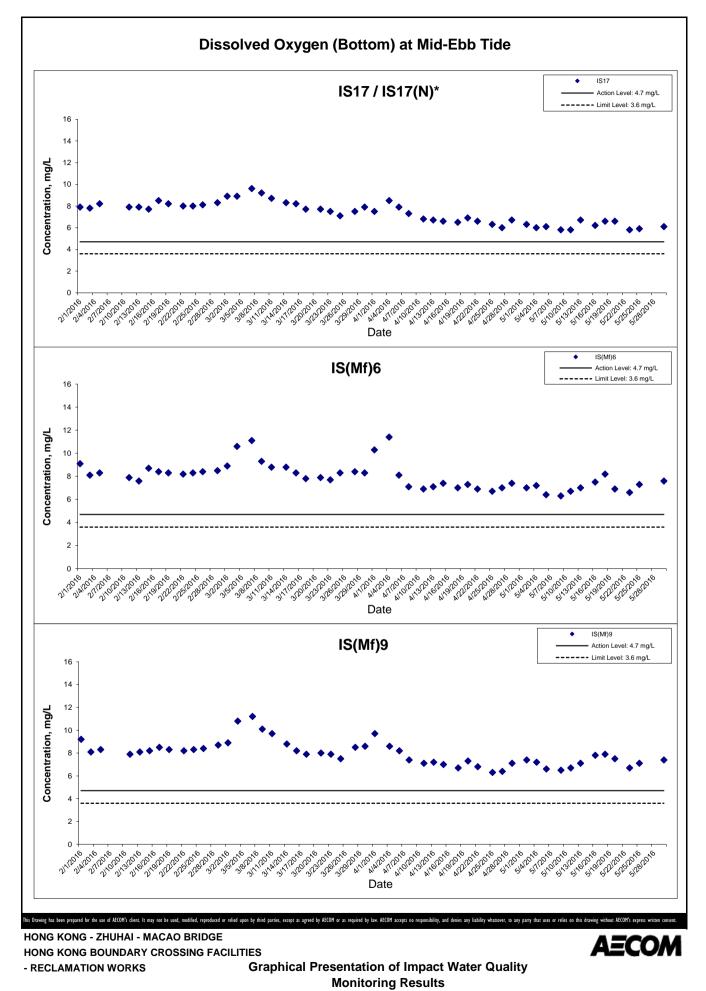


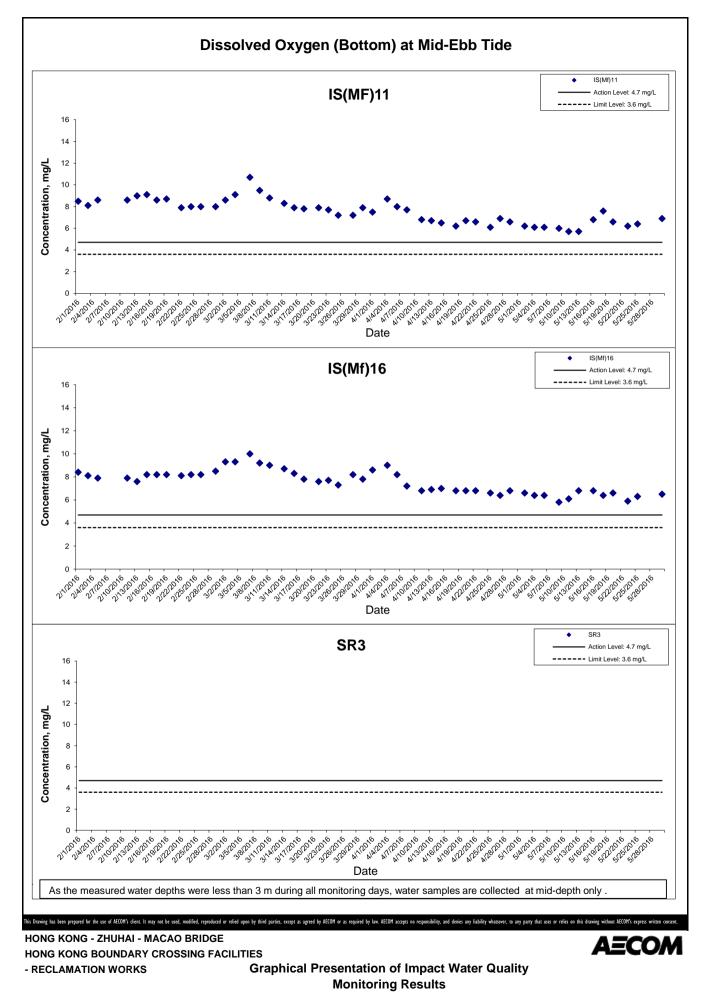
Project No.: 60249820 Date: June 2016

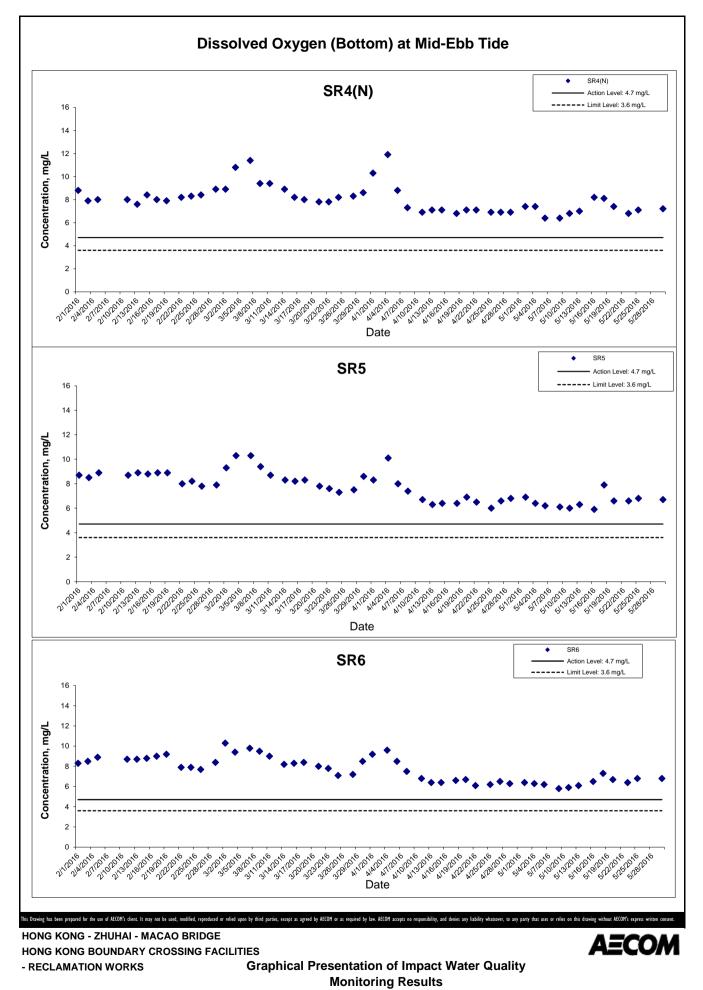




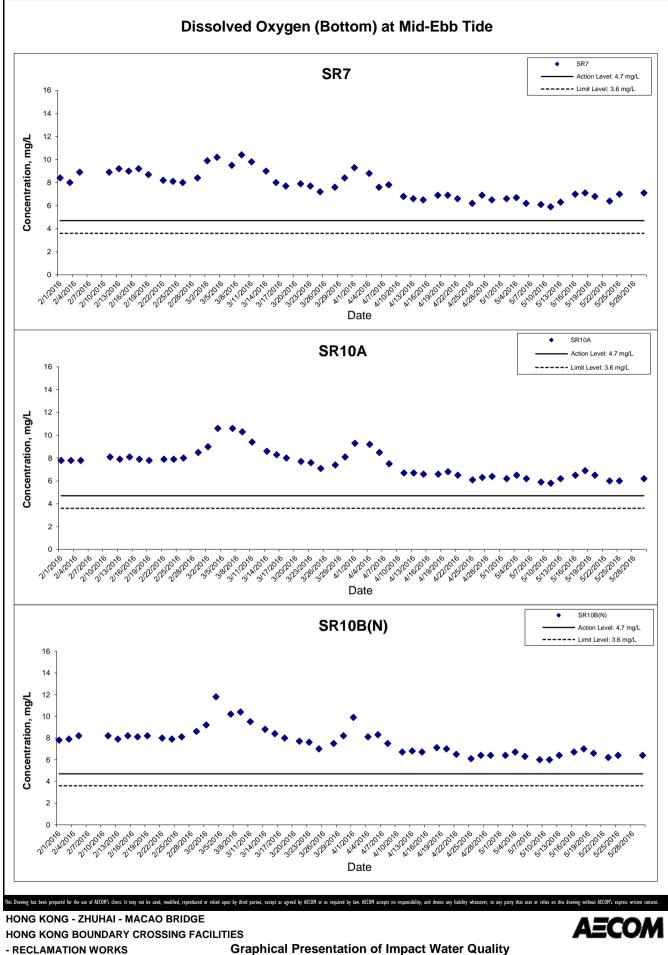




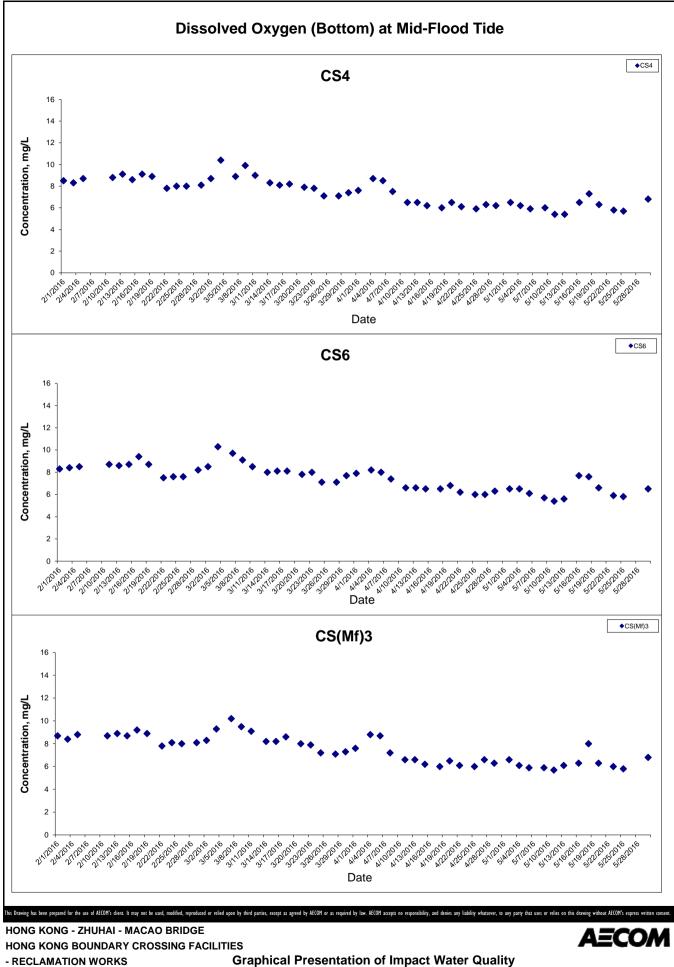


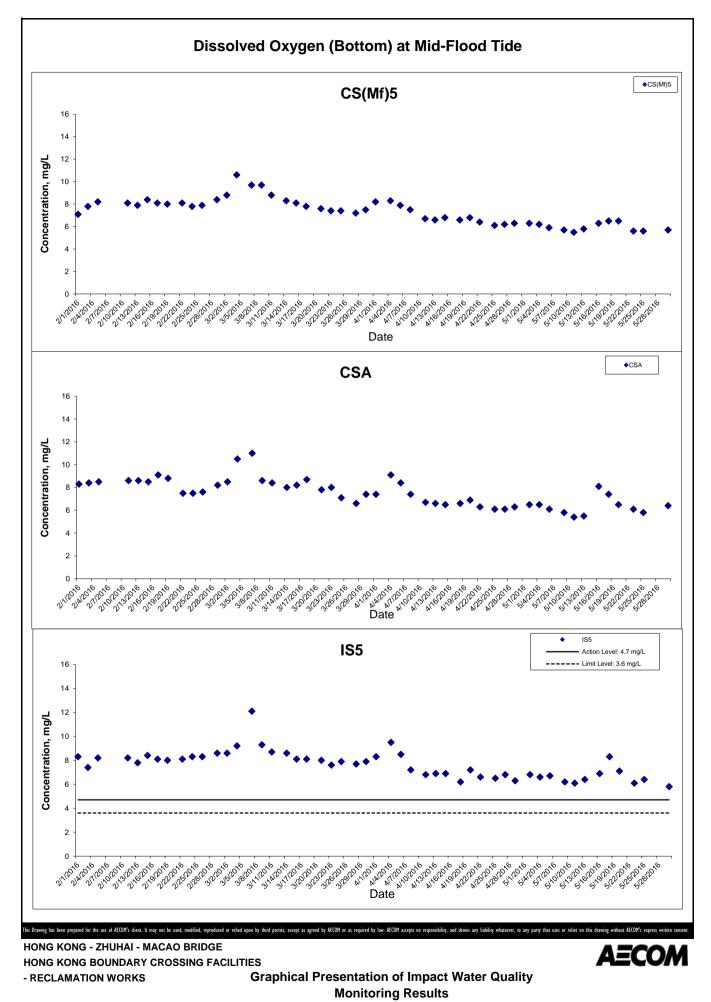


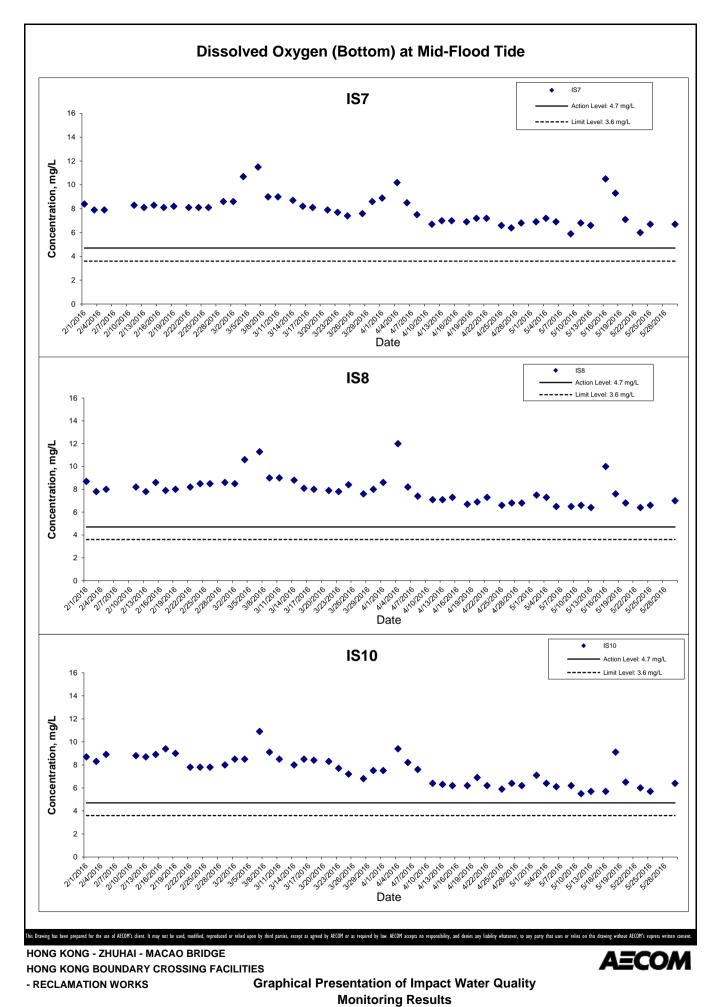
Appendix J



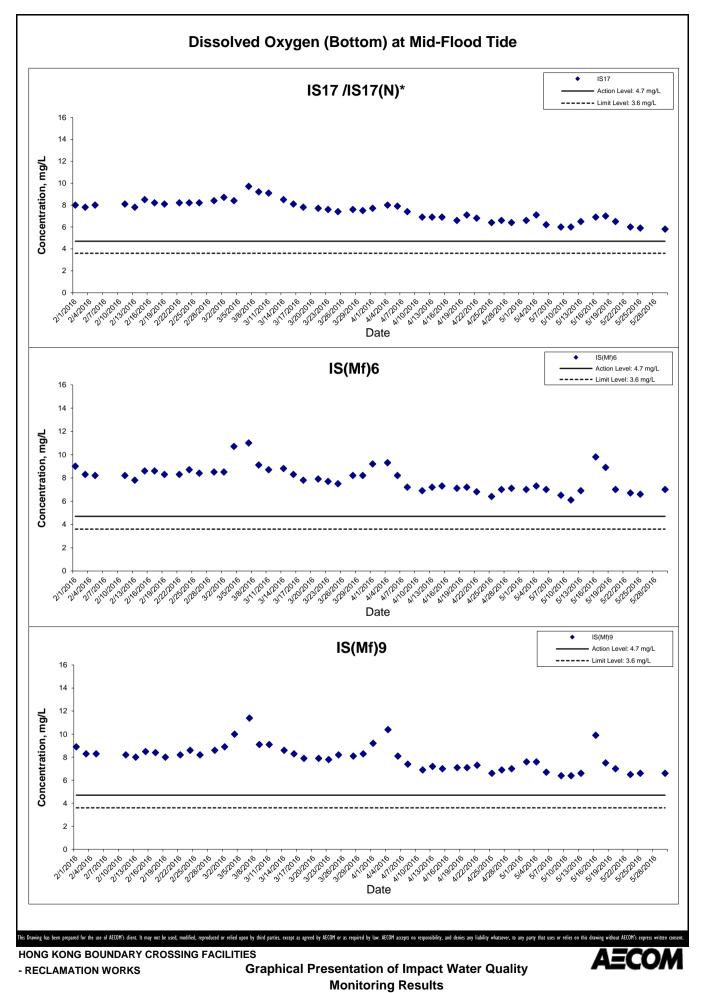
al Presentation of Impact Water Q Monitoring Results

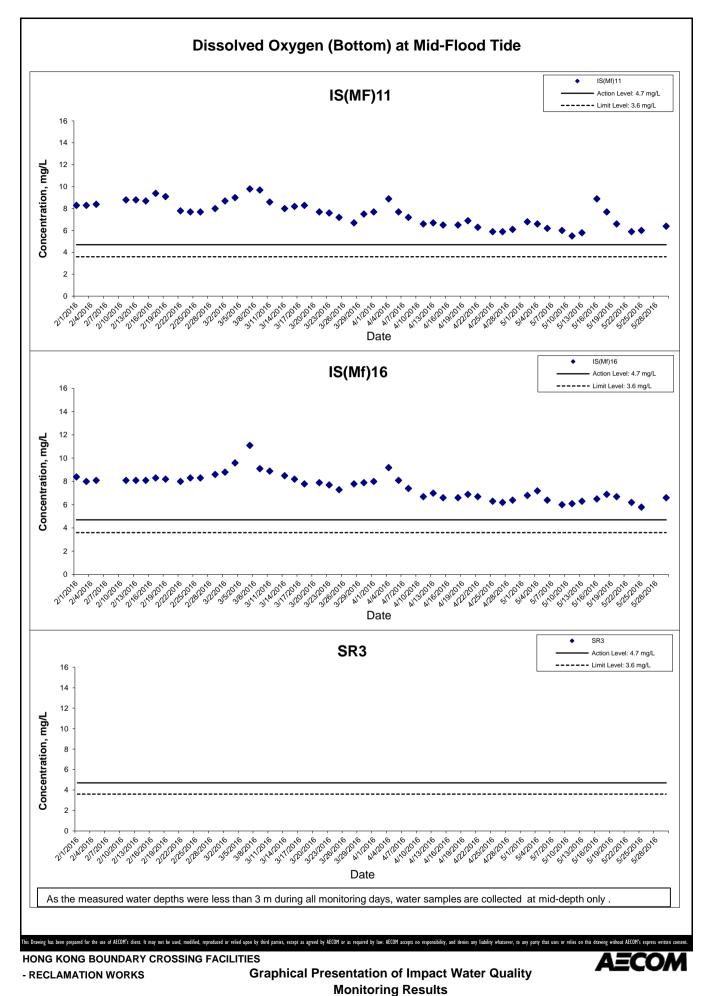


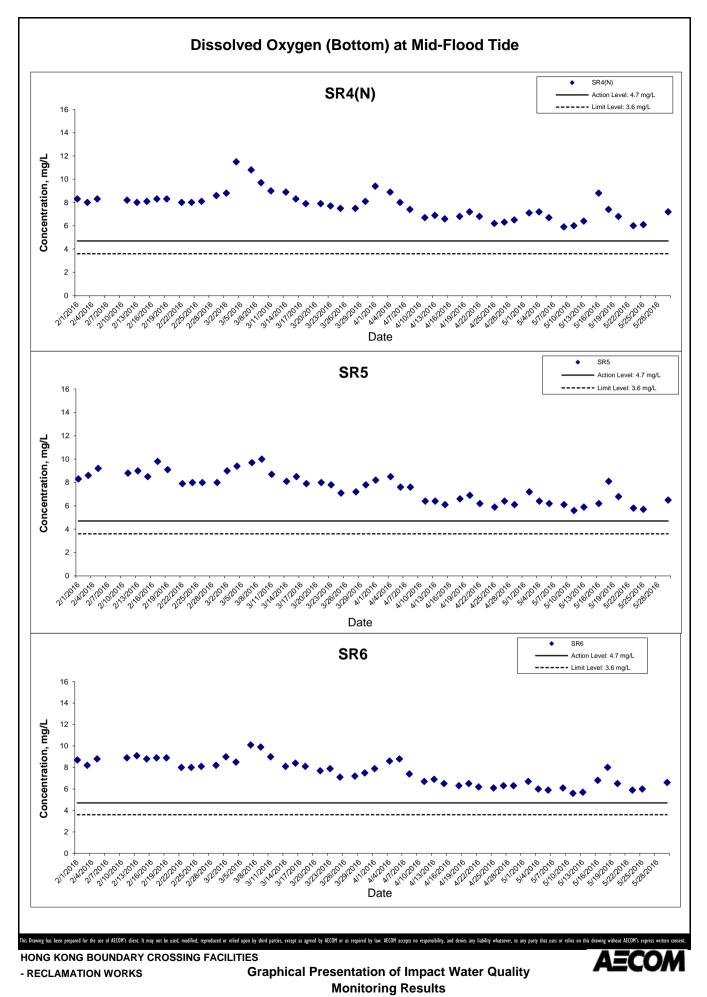




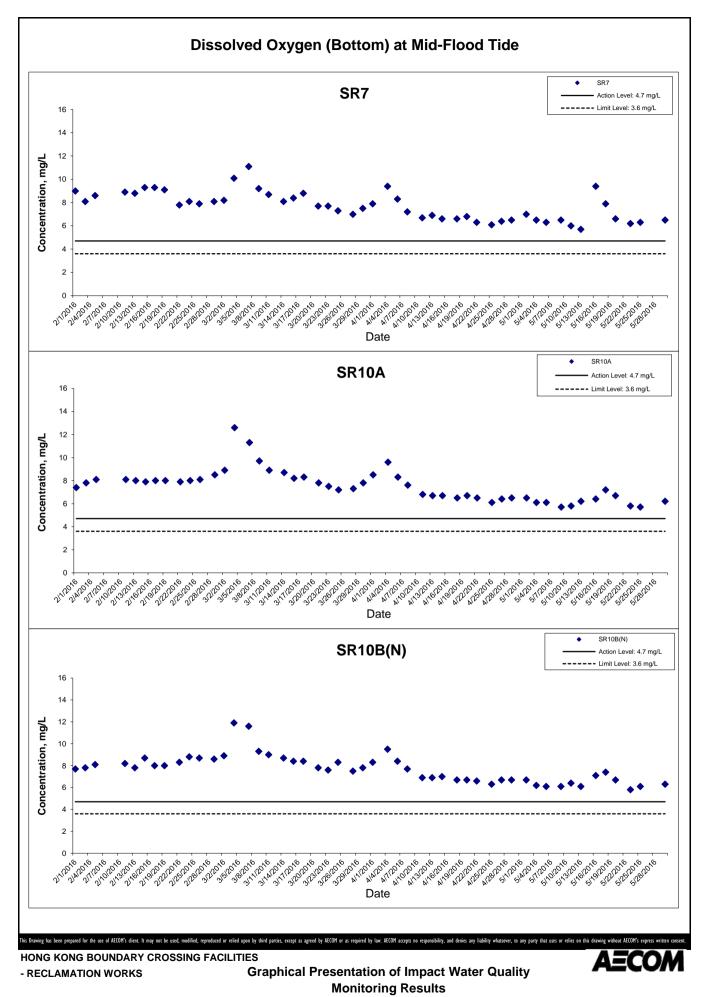
Appendix J

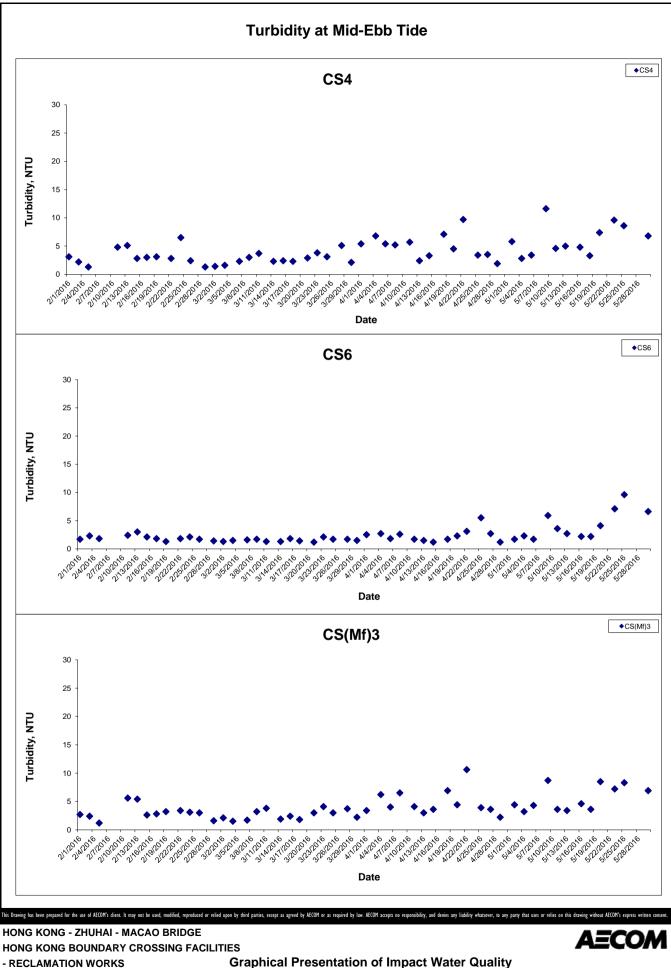


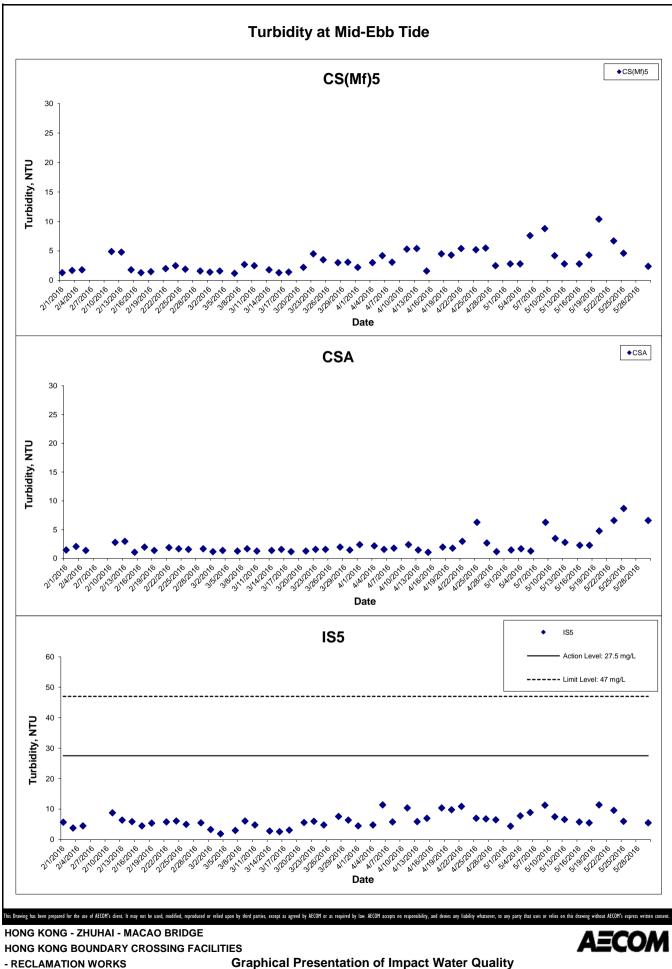


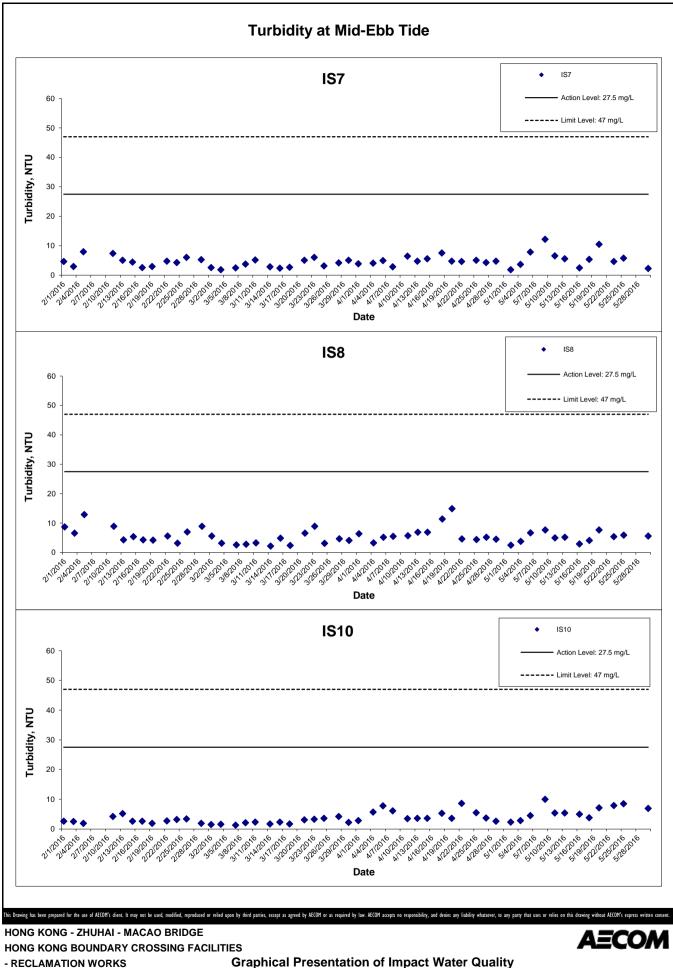


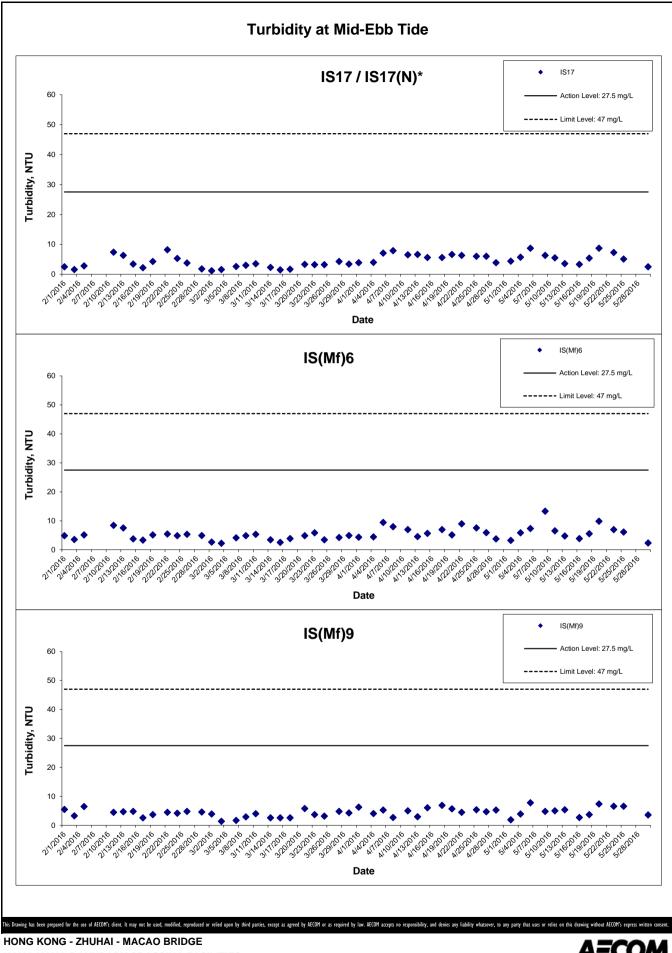
Project No.: 60249820 Date: June 2016







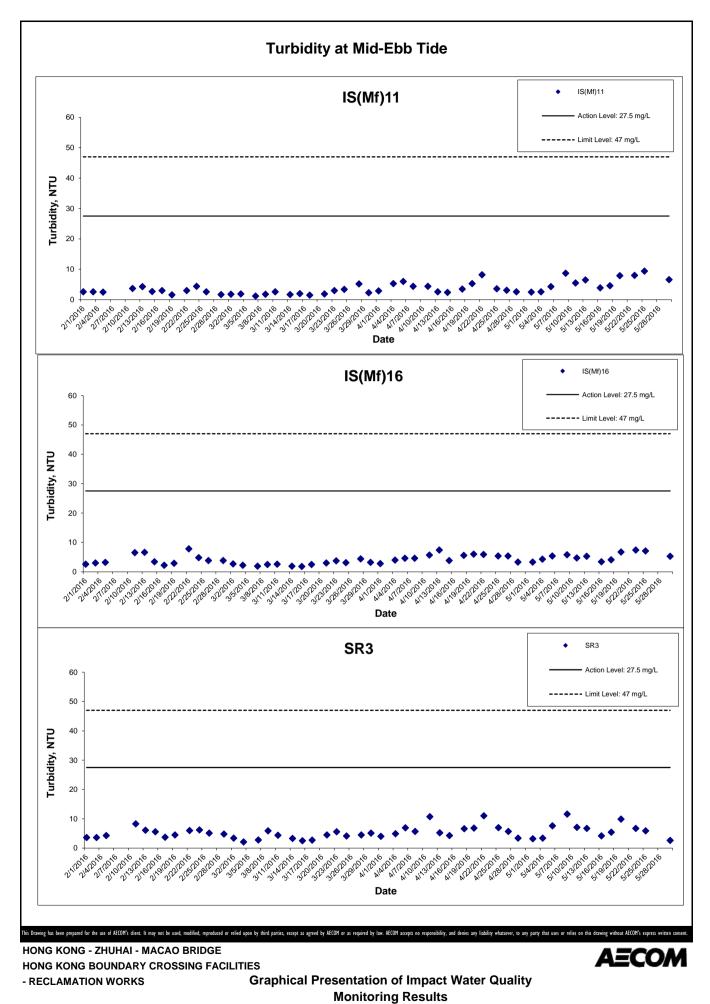




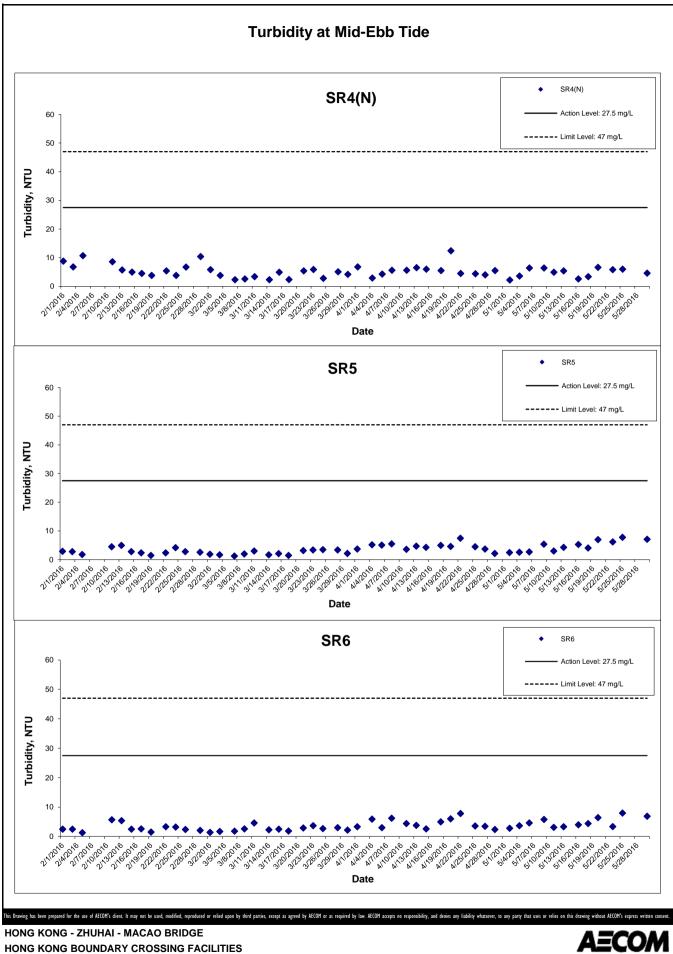
HONG KONG BOUNDARY CROSSING FACILITIES

Graphical Presentation of Impact Water Quality Monitoring Results

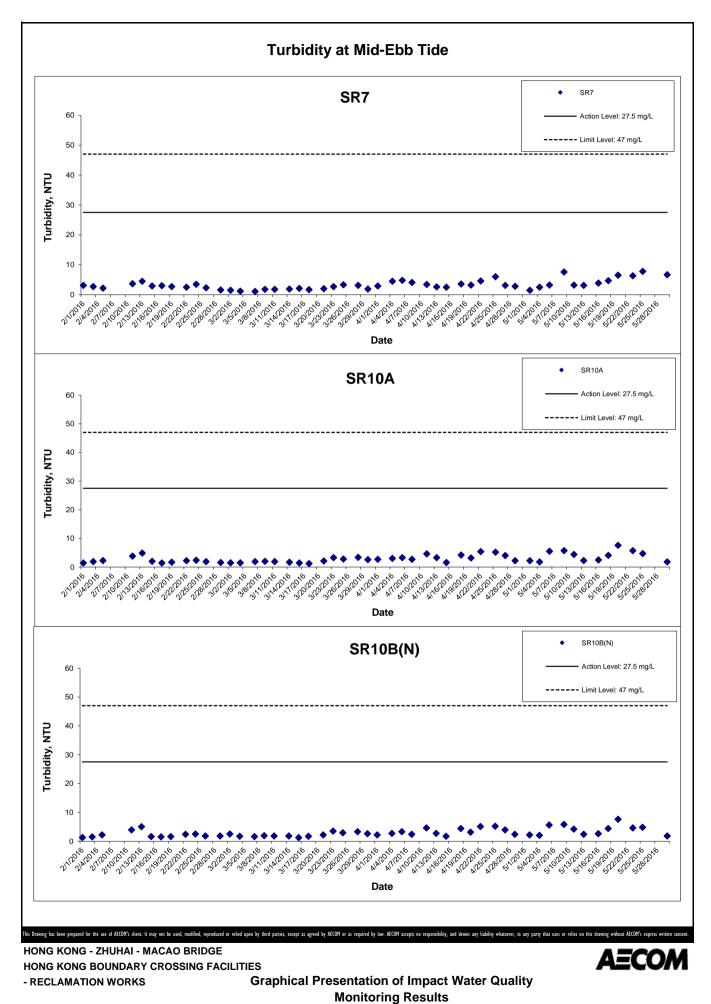
- RECLAMATION WORKS



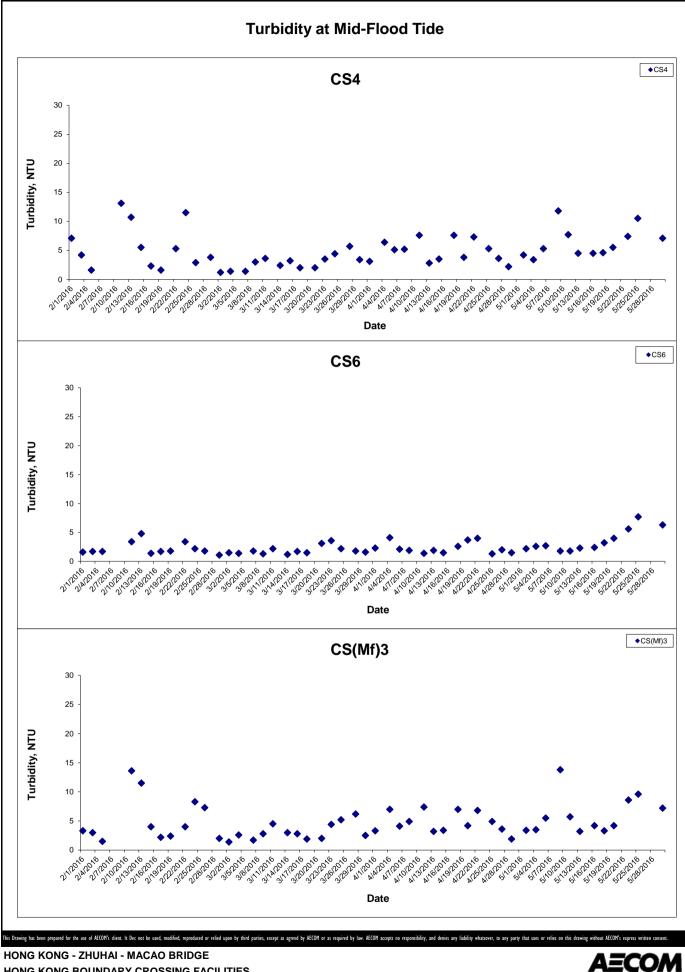
Appendix J



- RECLAMATION WORKS

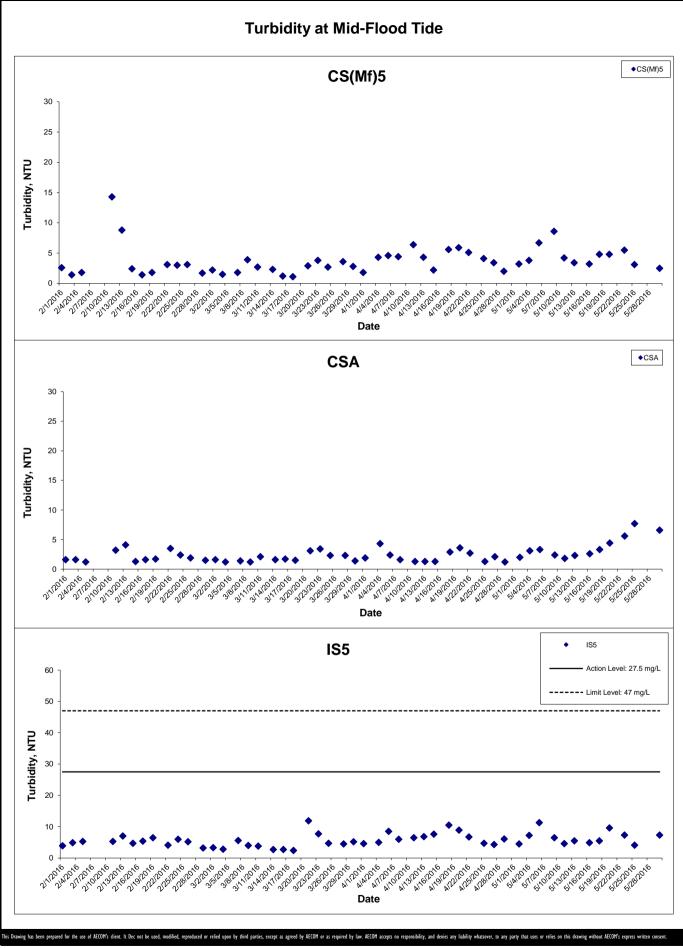


Appendix J



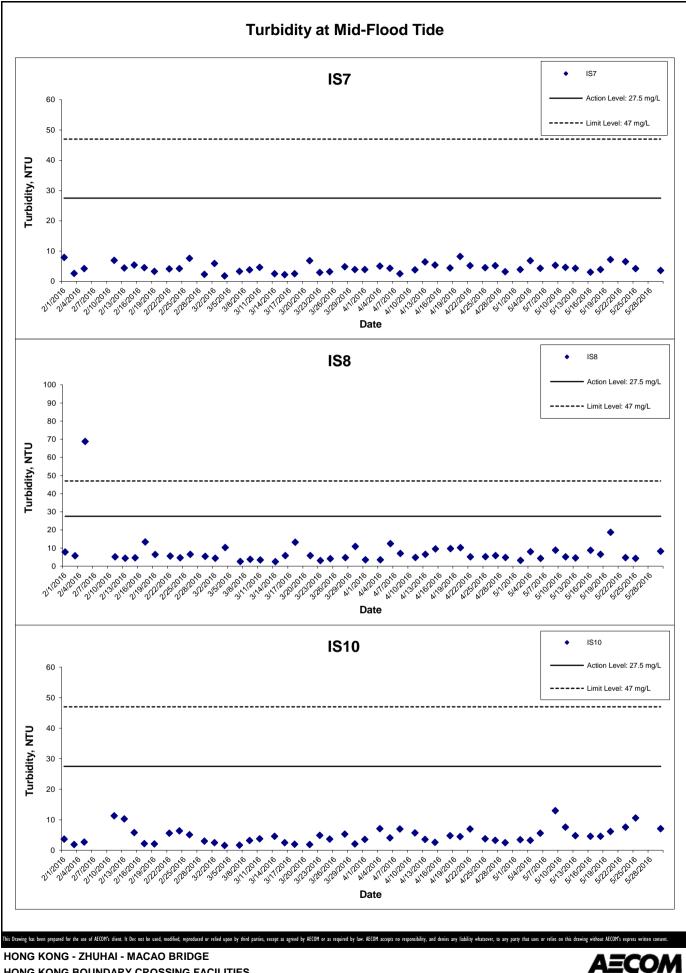
HONG KONG BOUNDARY CROSSING FACILITIES

- RECLAMATION WORKS

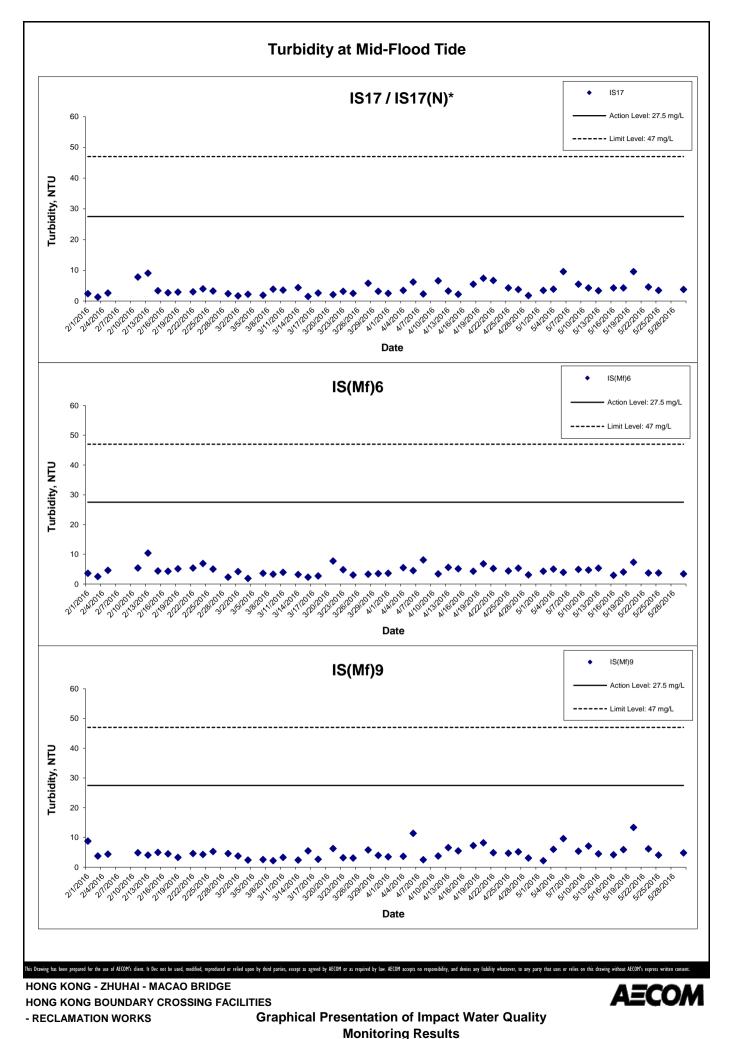


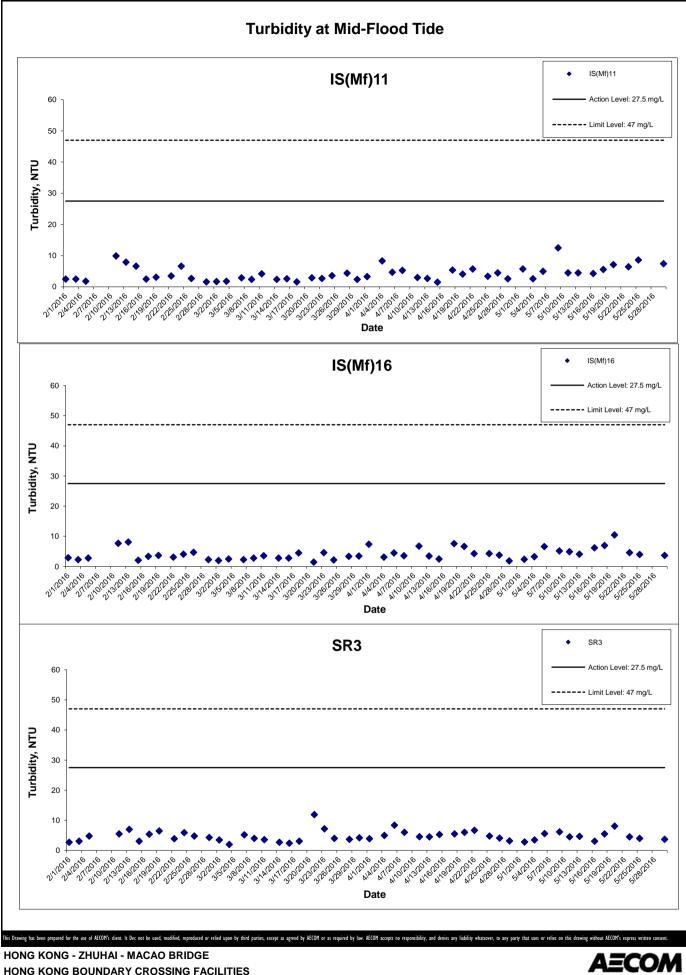
HONG KONG - ZHUHAI - MACAO BRIDGE HONG KONG BOUNDARY CROSSING FACILITIES - RECLAMATION WORKS Graphical Presenta

Graphical Presentation of Impact Water Quality Monitoring Results AECOM

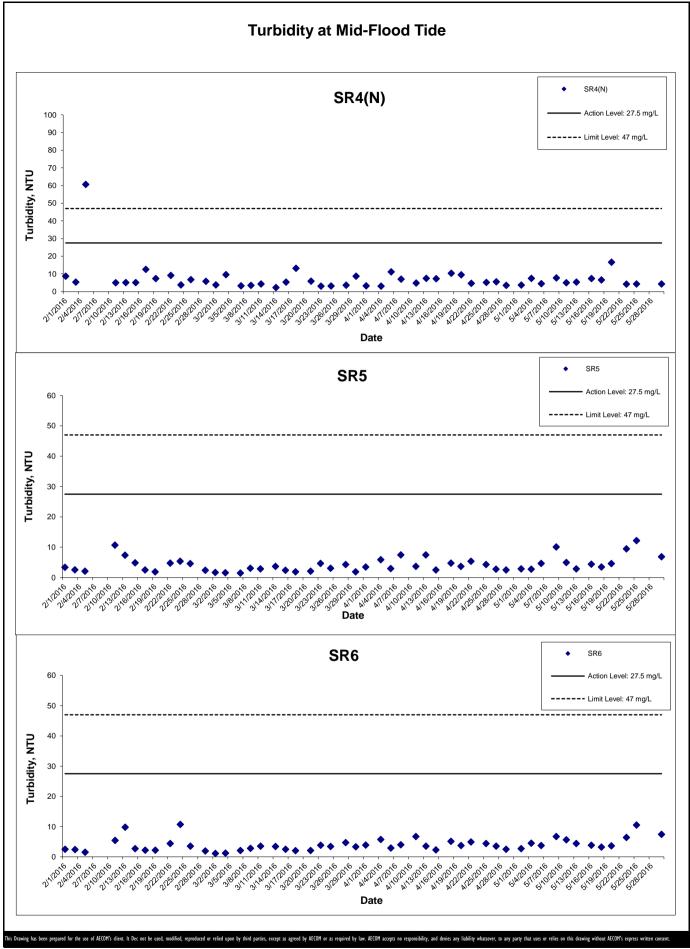


HONG KONG - ZHUHAI - MACAO BRIDGE HONG KONG BOUNDARY CROSSING FACILITIES - RECLAMATION WORKS Graphical Presentat



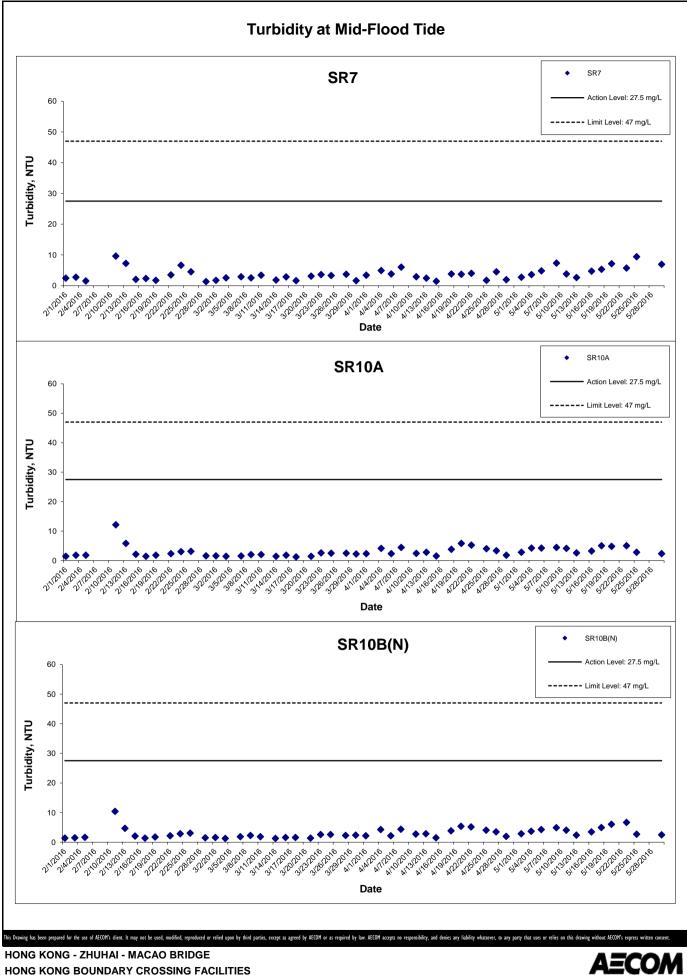


HONG KONG - ZHUHAI - MACAO BRIDGE HONG KONG BOUNDARY CROSSING FACILITIES - RECLAMATION WORKS

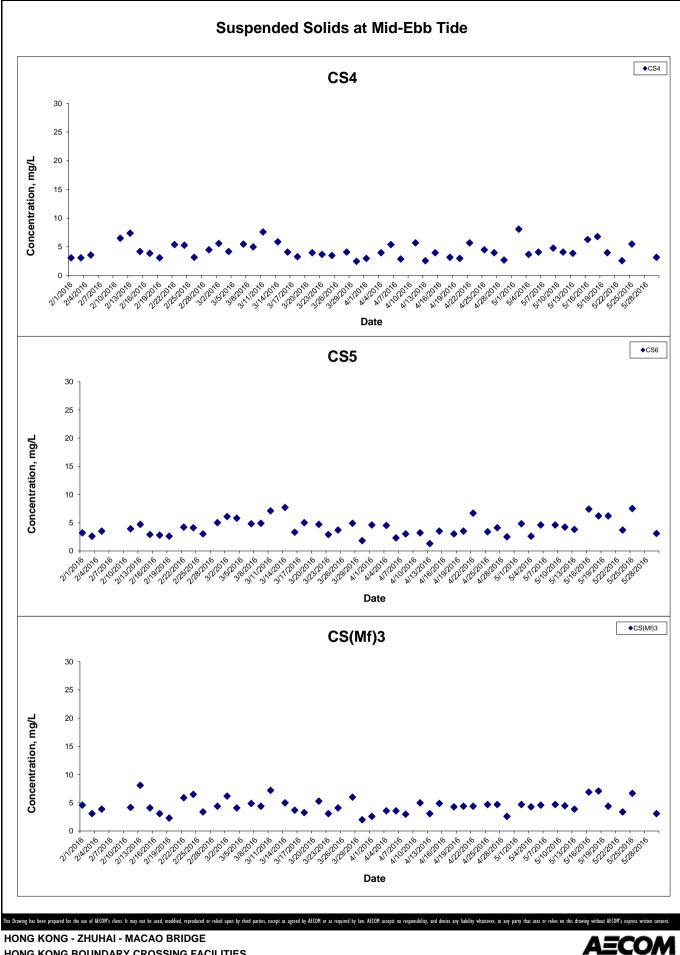


HONG KONG - ZHUHAI - MACAO BRIDGE HONG KONG BOUNDARY CROSSING FACILITIES - RECLAMATION WORKS Graphical Prese

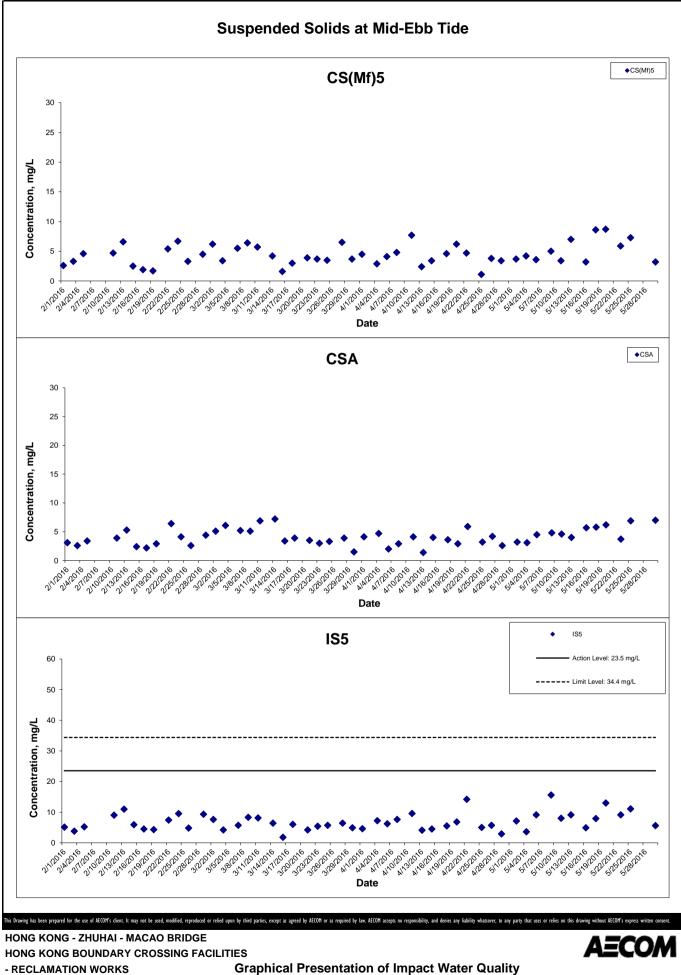
Graphical Presentation of Impact Water Quality Monitoring Results ECOM



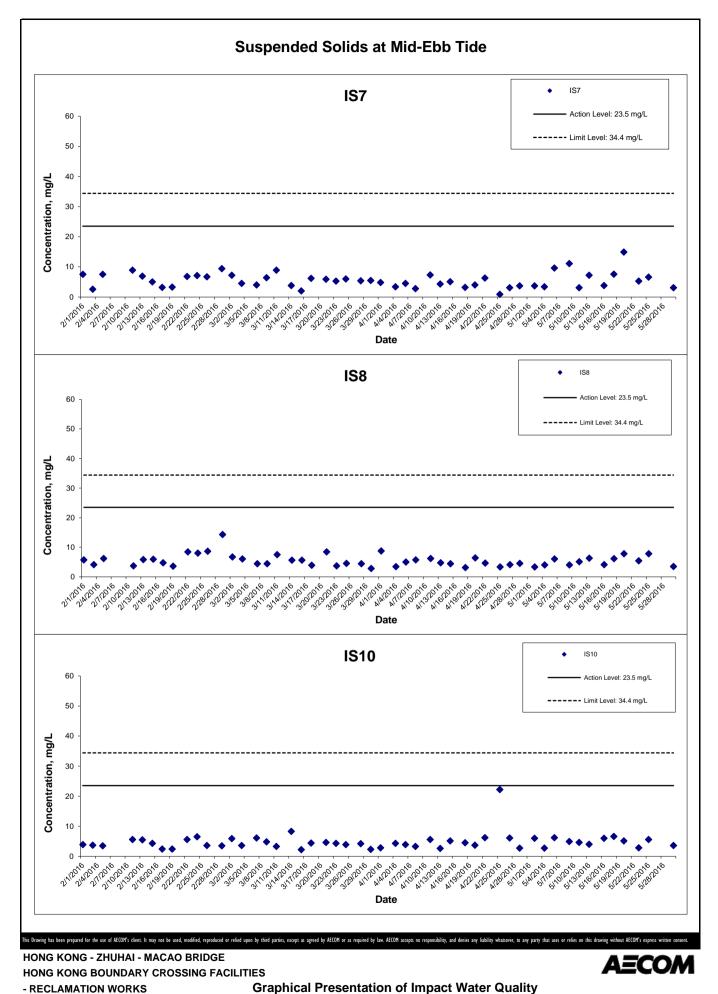
HONG KONG - ZHUHAI - MACAO BRIDGE HONG KONG BOUNDARY CROSSING FACILITIES - RECLAMATION WORKS



HONG KONG BOUNDARY CROSSING FACILITIES - RECLAMATION WORKS Gra

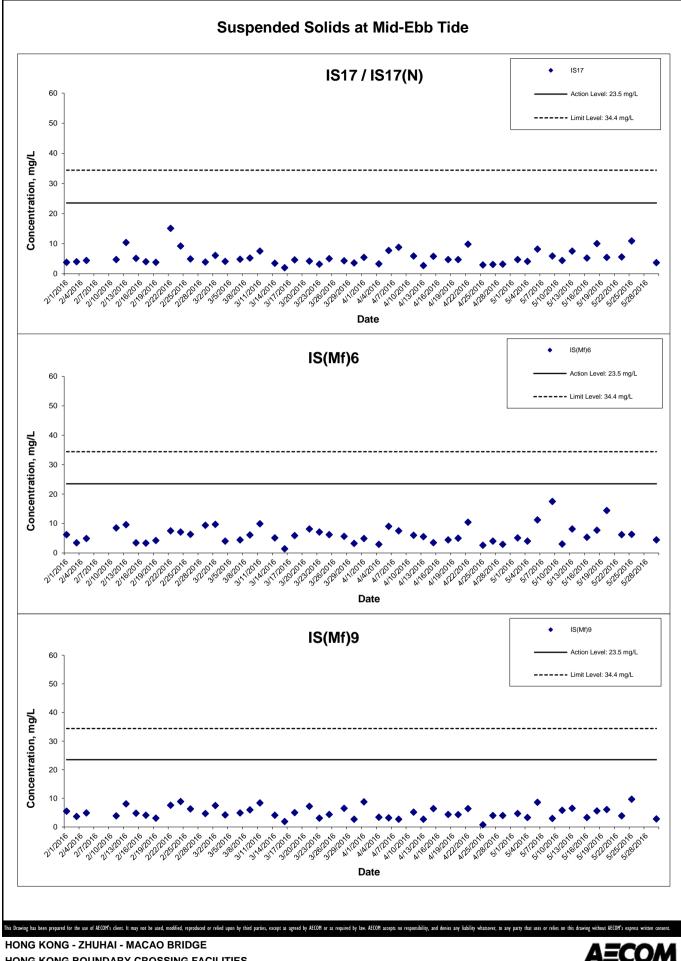


Graphical Presentation of Impact Water Quality Monitoring Results



Monitoring Results

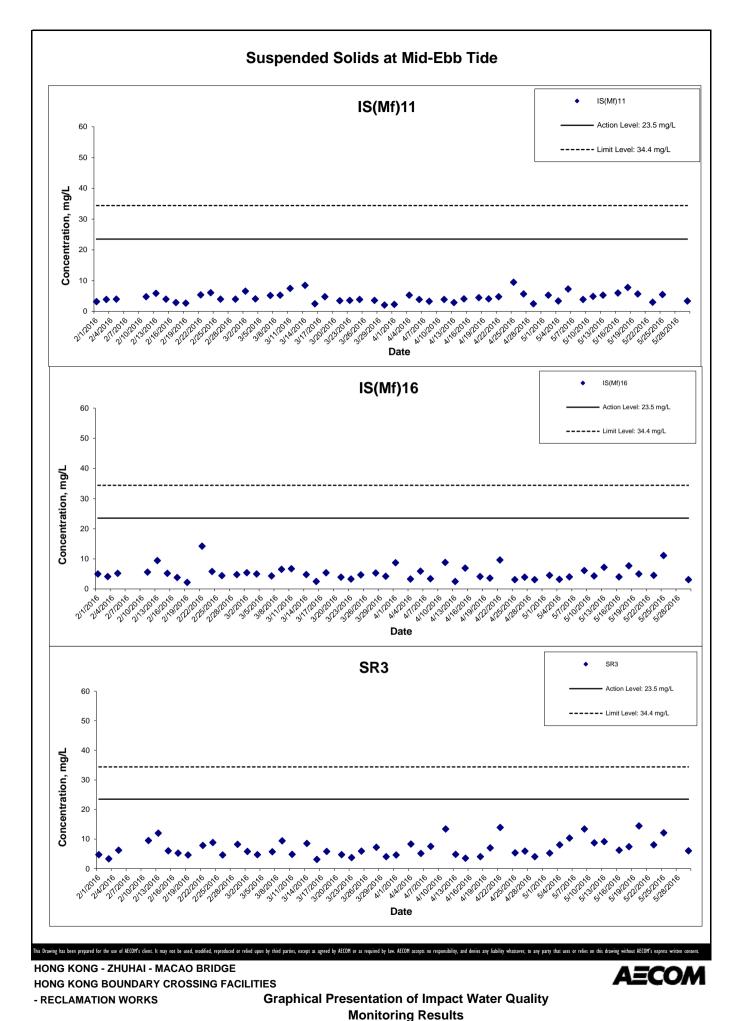
RECLAMATION WORKS



HONG KONG BOUNDARY CROSSING FACILITIES

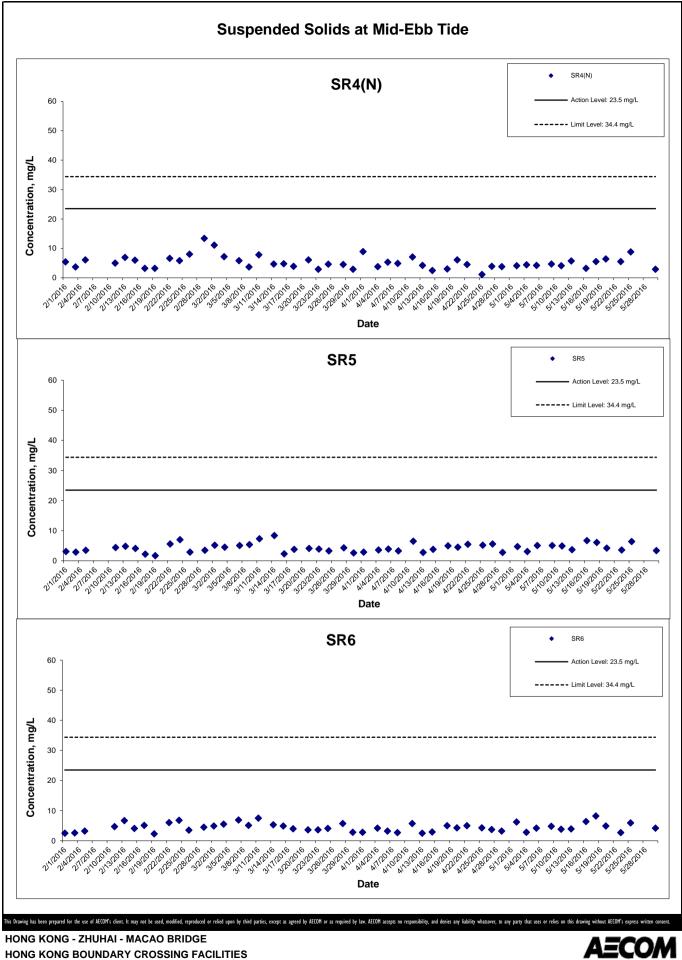
Graphical Presentation of Impact Water Quality Monitoring Results

- RECLAMATION WORKS

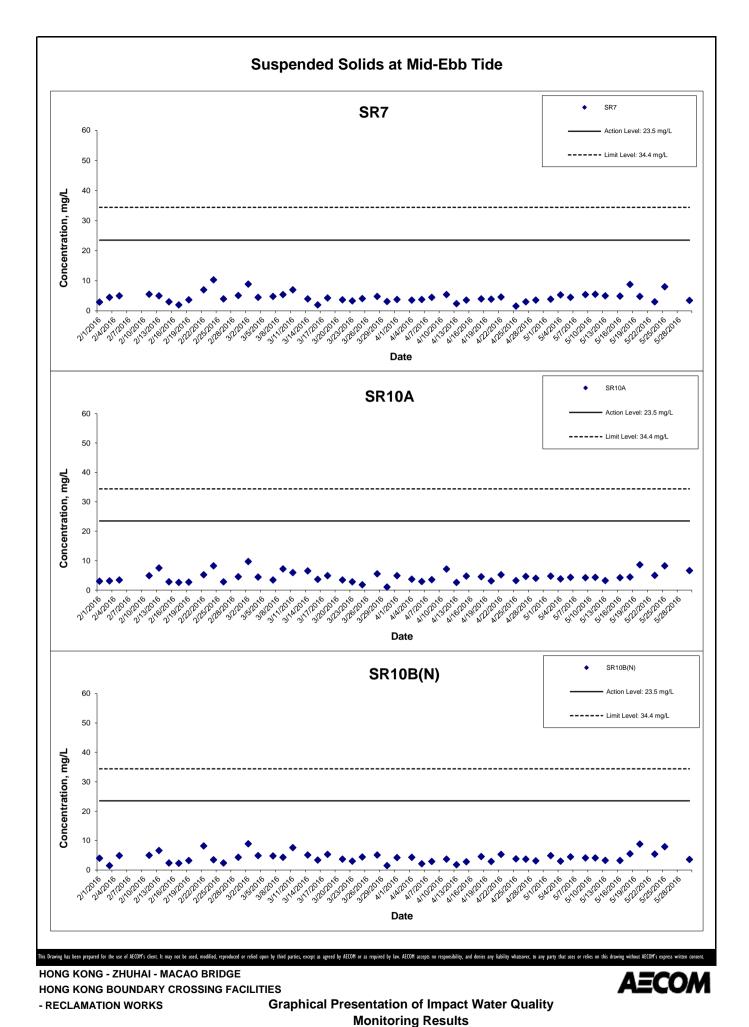


Project No.: 60249820 Date: June 2016

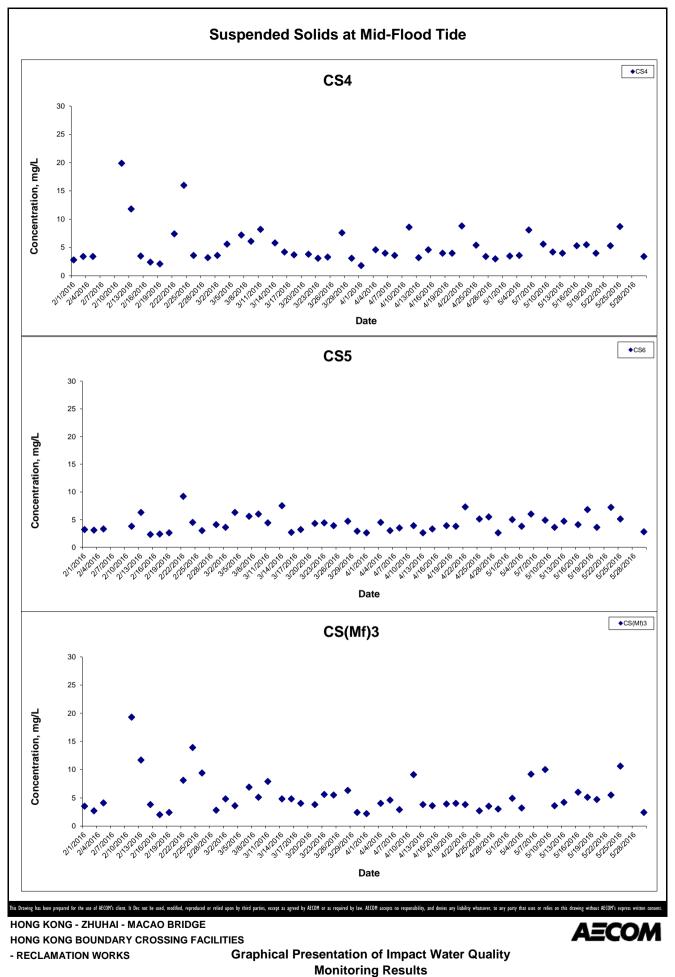
Appendix J



- RECLAMATION WORKS Graphical Presentation of Impact Water Quality Monitoring Results



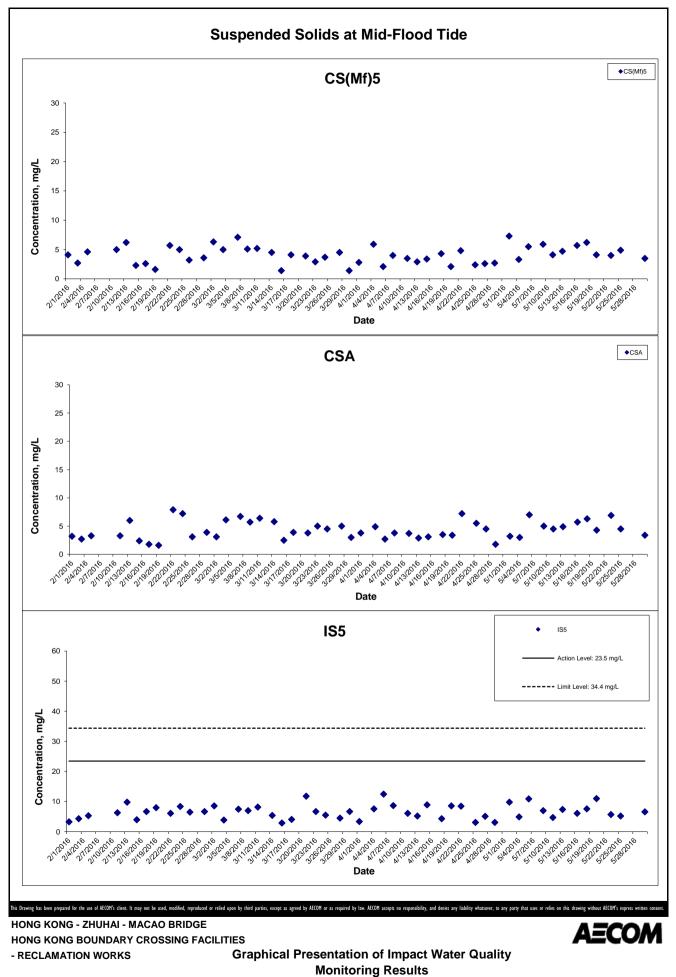
Project No.: 60249820 Date: June 2016

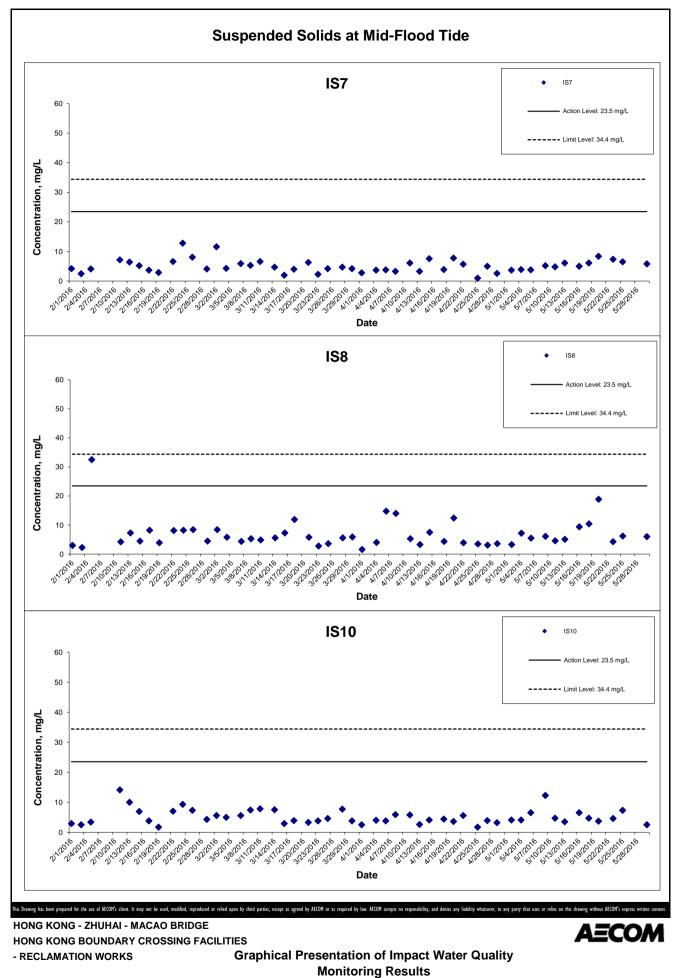


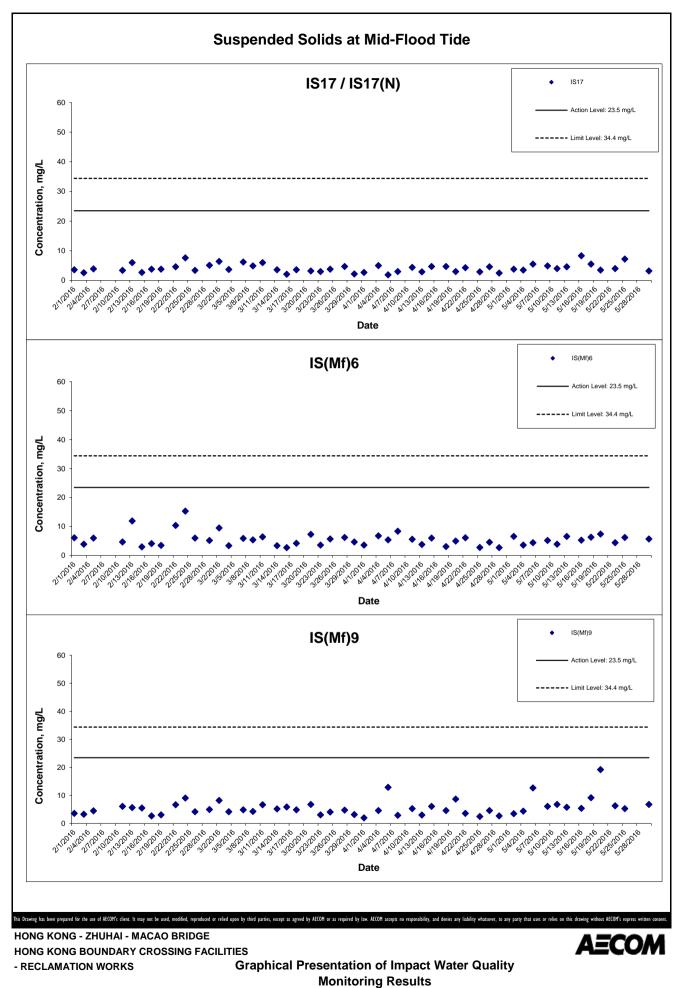
Moi Date: June 2016

Project No.: 60249820

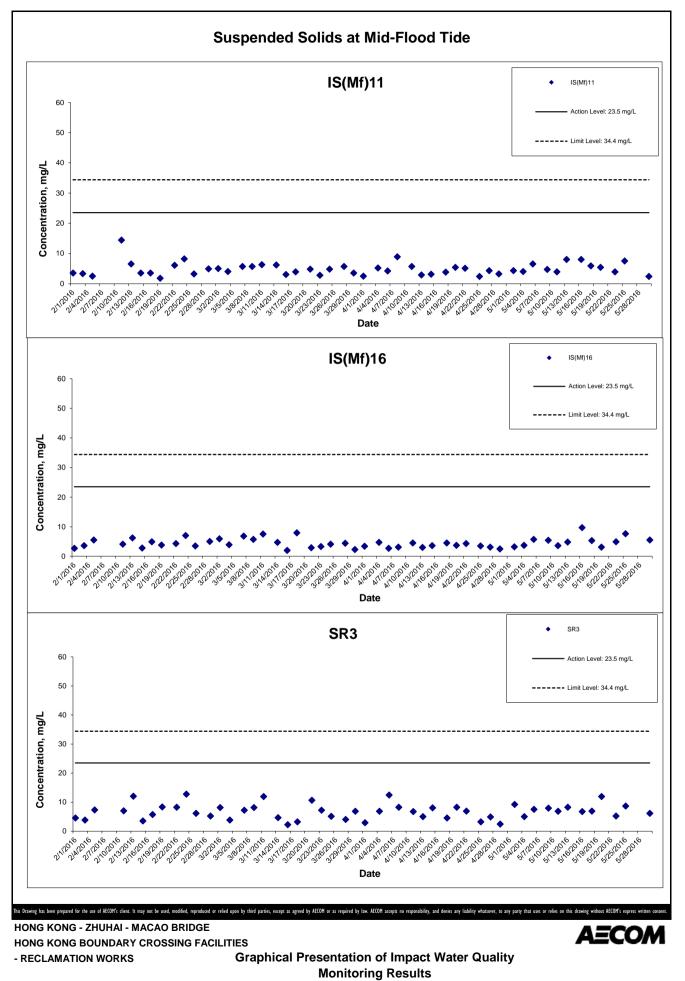
Appendix J



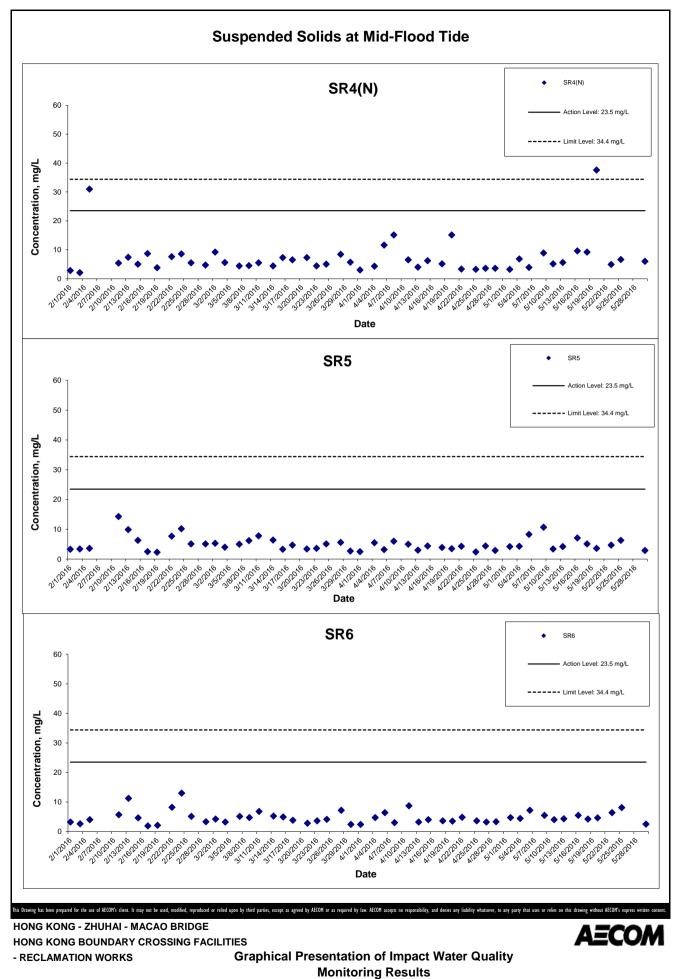


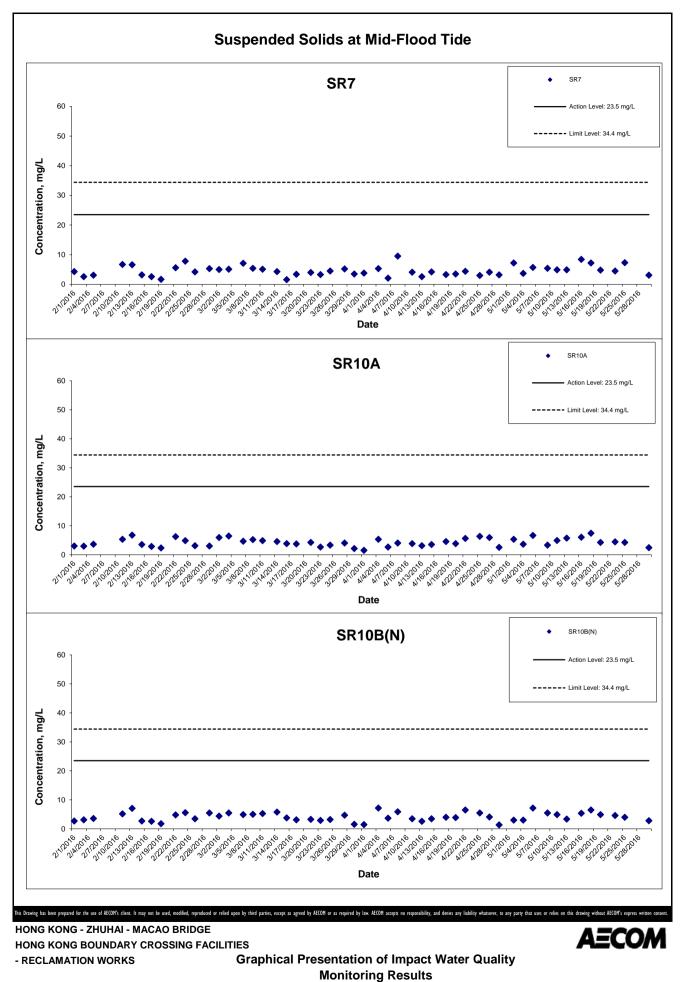


Project No.: 60249820 Date: June 2016



Project No.: 60249820 Date: June 2016





Appendix K Impact Dolphin Monitoring Survey Sighting Summary

Table 1 Impact Dolphin Monitoring Survey Sighting Table

Project	Contract	Date	Sighting No.	Time	Group Size	Area	Beaufort	PSD	Effort	Туре	Northing	Easting	Season	Boat Association
HKBCF	HY/2010/02	12-May-16	1238	13:11:36	2	NWL	2	55	On	Impact	827836.9	807750.6	Spring	No
HKBCF	HY/2010/02	23-May-16	1244	10:08:36	9	WL*	1	N/A	Орр	Impact	806357.6	802080.0	Spring	No
HKBCF	HY/2010/02	23-May-16	1245	11:01:57	3	WL*	1	N/A	Орр	Impact	807239.0	801669.5	Spring	No
HKBCF	HY/2010/02	23-May-16	1246	11:16:54	4	WL*	1	N/A	Орр	Impact	807177.2	801535.3	Spring	No
HKBCF	HY/2010/02	23-May-16	1247	11:39:14	1	WL*	1	N/A	Орр	Impact	808314.1	801197.6	Spring	No
HKBCF	HY/2010/02	23-May-16	1248	11:45:52	1	WL*	1	N/A	Орр	Impact	808449.3	801167.0	Spring	No
HKBCF	HY/2010/02	23-May-16	1249	12:02:21	5	WL*	1	N/A	Орр	Impact	810350.6	801666.2	Spring	No
HKBCF	HY/2010/02	23-May-16	1251	12:31:06	7	WL*	1	N/A	Орр	Impact	811591.5	801885.4	Spring	No
HKBCF	HY/2010/02	23-May-16	1252	14:29:34	8	NWL	1	9	On	Impact	825482.7	804913.8	Spring	No
HKBCF	HY/2010/02	24-May-16	1256	10:53:49	3	NWL	1	122	On	Impact	822572.0	805680.4	Spring	No
HKBCF	HY/2010/02	24-May-16	1257	13:03:04	1	NWL	1	17	On	Impact	829031.6	806692.2	Spring	No

* Group of dolphin was sighted at WL area while vessel based dolphin monitoring was conducted in NWL

KEY:

Sighting	Opp Opportunistic		
	On On effort		
PSD	Perpendicular Sighting Distance	NEL	North East Lantau
Group Size	Represents best estimate for group encountered	NWL	North West Lantau
PS = Purse Seir	ne trawler (active)		
HT = Hang Traw	ler (not active but sorting fish and cleaning nets)		
GN = Gill Net			

Annex I

April 2016 Photo Identification Information

Identification Number	Baseline Identification Number	Date (YYYY- MM-DD)	Sighting Number	Area Sighted
HZMB 131		2016/03/22	1215	NWL
HZMB 130		2016/02/04	1199	NWL
		2016/01/07	1189	NWL
		2015/10/22	1156	NWL
HZMB 129		2015/09/07	1143	NWL
		2015/08/25	1138	NWL
HZMB 128		2015/01/03	1056	NWL
HZMB 127		2015/01/03	1056	NWL
		2015/02/23	1068	NWL
HZMB 126		2015/01/03	1054	NWL
		2016/03/07	1208	NWL
HZMB 125		2014/10/13	1019	NWL
HZMB 124		2014/09/22	1005	NWL
HZMB 123		2014/08/25	998	NWL
		2015/10/22	1156	NWL
HZMB 122		2014/08/04	989	NWL
HZMB 121		2014/07/14	968	NWL
HZMB 120		2014/05/31	951	NWL
HZMB 119		2014/04/19	940	NWL
HZMB 118		2014/01/06	890	NWL
		2014/06/17	964	NWL
HZMB 117		2014/01/06	888	NWL
HZMB 116		2014/08/25	999	NWL
		2014/07/14	972	NWL
		2014/07/14	971	NWL
HZMB 115		2013/12/26	879	NWL
		2013/12/26	879	NWL
		2015/11/05	1162	NWL
HZMB 114		2013/10/24	827	NWL
HZMB 113		2013/10/24	827	NWL
HZMB 112		2013/10/15	815	NWL
HZMB 111		2013/10/15	815	NWL
		2016/01/18	1193	NWL
HZMB 110		2013/10/15	812	NWL
		2015/06/11	1118	NWL
HZMB 108		2013/08/30	780	NEL
HZMB 107		2015/07/28	1126	NWL

Identification Number	Baseline Identification Number	Date (YYYY- MM-DD)	Sighting Number	Area Sighted
		2014/10/13	1019	NWL
		2014/05/31	951	NWL
		2013/08/21	770	NWL
HZMB 106		2013/08/21	769	NWL
		2014/05/31	951	NWL
HZMB 105		2013/07/08	711	NWL
HZMB 104		2013/07/08	711	NWL
HZMB 103		2013/07/08	711	NWL
HZMB 102		2013/07/08	706	NWL
HZMB 101		2013/07/08	706	NWL
HZMB 100		2013/07/08	706	NWL
HZMB 099		2013/06/13	681	NWL
		2013/06/13	680	NWL
		2015/02/23	1077	NWL
		2014/12/18	1044	NWL
		2014/08/04	992	NWL
		2014/01/06	888	NWL
		2013/11/02	849	NWL
		2013/11/02	845	NWL
		2013/10/24	831	NWL
		2013/07/08	711	NWL
HZMB 098	NL104	2013/05/24	659	NWL
		2011/11/07	Baseline	NWL
		2011/11/05	Baseline	NWL
		2011/11/05	Baseline	NWL
		2011/11/02	Baseline	NWL
		2011/10/28	Baseline	NWL
		2011/09/23	Baseline	NWL
		2011/09/16	Baseline	NWL
HZMB 097		2013/05/09	647	NWL
HZMB 096		2013/04/01	621	NWL
		2013/08/30	780	NEL
		2013/06/25	697	NWL
HZMB 095		2013/06/13	682	NWL
		2013/04/01	621	NWL
		2014/10/13	1019	NWL
		2014/05/31	954	NWL
HZMB 094		2014/02/17	910	NWL
		2013/06/26	703	NWL

Identification Number	Baseline Identification Number	Date (YYYY- MM-DD)	Sighting Number	Area Sighted
		2013/06/25	698	NWL
		2013/03/18	601	NWL
		2013/05/24	657	NWL
HZMB 093		2013/02/21	587	NWL
		2015/04/20	1097	NWL
HZMB 092		2013/02/21	589	NWL
		2013/02/15	581	NWL
HZMB 091		2013/02/15	579	NWL
		2013/06/25	697	NWL
HZMB 090		2013/06/13	682	NWL
		2013/02/15	579	NWL
HZMB 089		2013/02/15	579	NWL
HZMB 088		2013/02/15	579	NWL
HZMB 087		2013/02/15	579	NWL
		2015/03/19	1086	NWL
HZMB 086	NL242	2013/05/09	642	NWL
		2013/02/15	579	NWL
		2011/10/10	Baseline	NWL
HZMB 085		2014/10/13	1019	NWL
		2014/05/31	954	NWL
		2013/06/26	703	NWL
HZMB 084		2013/02/15	579	NWL
		2013/02/14	575	NWL
		2015/12/01	1180	NWL
		2015/05/11	1104	NWL
		2013/12/19	863	NWL
		2013/03/28	607	NWL
		2013/02/15	579	NWL
	NII 400	2013/01/28	568	NWL
HZMB 083	NL136	2013/01/28	564	NWL
		2012/04/19	267	NWL
		2011/10/28	Baseline	NWL
		2011/10/28	Baseline	NWL
		2011/10/10	Baseline	NEL
		2011/09/06	Baseline	NWL
		2014/10/20	1024	NWL
HZMB 082		2013/02/21	587	NWL
		2013/02/15	579	NWL

Identification Number	Baseline Identification Number	Date (YYYY- MM-DD)	Sighting Number	Area Sighted
		2013/01/28	563	NWL
		2013/01/28	559	NWL
HZMB 081		2013/01/28	557	NWL
HZMB 080		2013/01/28	556	NWL
HZMB 079		2013/01/28	556	NWL
HZMB 078		2013/02/15	579	NWL
		2013/01/08	552	NWL
		2013/12/26	878	NWL
HZMB 077		2013/07/08	706	NWL
		2012/12/11	541	NWL
		2013/07/08	706	NWL
HZMB 076		2012/12/11	541	NWL
HZMB 075		2012/12/06	525	NEL
		2013/05/09	647	NWL
		2013/04/01	623	NWL
		2013/04/01	621	NWL
HZMB 074		2013/02/21	594	NEL
		2012/12/10	529	NEL
		2012/12/06	525	NEL
		2013/05/09	647	NWL
		2013/04/01	623	NWL
		2013/04/01	621	NWL
HZMB 073		2013/02/21	594	NEL
		2012/12/10	529	NEL
		2012/12/06	525	NEL
HZMB 072		2012/10/24	476	NWL
		2012/10/24	475	NWL
HZMB 071		2012/10/12	466	NWL
HZMB 070		2012/10/24	476	NWL
		2015/06/04	1116	NWL
		2013/08/21	774	NWL
HZMB 069		2013/07/08	711	NWL
		2012/10/24	476	NWL
		2014/10/20	1025	NWL
HZMB 068		2013/11/01	839	NWL
		2012/10/24	476	NWL
HZMB 067		2012/10/24	475	NWL
HZMB 066	NL93	2013/01/28	559	NWL

Identification Number	Baseline Identification Number	Date (YYYY- MM-DD)	Sighting Number	Area Sighted
		2012/12/11	537	NWL
		2012/10/24	475	NWL
		2012/10/12	466	NWL
		2011/11/07	Baseline	NWL
		2011/11/05	Baseline	NWL
		2015/03/19	1086	NWL
		2014/06/17	964	NWL
		2013/05/09	647	NWL
HZMB 064		2013/01/28	561	NWL
		2012/10/24	475	NWL
		2012/10/12	466	NWL
		2013/05/09	647	NWL
HZMB 063		2012/10/12	466	NWL
		2012/12/06	525	NEL
HZMB 062		2012/10/11	457	NWL
HZMB 060		2012/09/18	447	NWL
		2013/02/21	591	NWL
HZMB 059		2012/09/18	445	NWL
HZMB 057		2012/09/18	440	NWL
		2012/09/18	442	NWL
HZMB 056		2012/09/05	433	NEL
HZMB 055		2012/09/04	425	NWL
		2015/12/01	1180	NWL
		2015/04/20	1097	NWL
		2015/01/15	1062	NWL
		2014/05/31	953	NWL
		2014/01/06	888	NWL
		2013/11/07	854	NWL
		2013/11/02	845	NWL
	0424	2013/10/24	831	NWL
HZMB 054	CH34	2013/08/30	780	NEL
		2013/07/08	711	NWL
		2013/09/18	448	NWL
		2012/09/05	432	NEL
		2011/11/07	Baseline	NWL
		2011/11/05	Baseline	NWL
		2011/11/02	Baseline	NWL
		2011/11/01	Baseline	NEL

Identification Number	Baseline Identification Number	Date (YYYY- MM-DD)	Sighting Number	Area Sighted
		2011/11/01	Baseline	NEL
		2011/10/28	Baseline	NWL
		2011/10/06	Baseline	NWL
HZMB 053		2012/09/04	425	NWL
HZMB 052		2012/09/04	423	NWL
		2015/05/11	1104	NWL
		2014/08/04	989	NWL
		2013/05/09	644	NWL
		2013/04/01	622	NWL
HZMB 051	NL213	2013/02/15	582	NWL
		2013/02/15	581	NWL
		2013/01/28	559	NWL
		2013/01/28	556	NWL
		2012/09/04	422	NWL
		2014/07/14	971	NWL
		2014/01/10	900	NWL
HZMB 050		2014/01/06	888	NWL
		2013/02/15	579	NWL
		2012/09/04	421	NWL
		2015/10/09	1151	NWL
HZMB 049		2014/07/29	982	NWL
		2012/09/03	419	NWL
HZMB 048		2012/09/03	419	NWL
		2015/04/28	1100	NWL
HZMB 047		2012/09/03	412	NWL
HZMB 046		2012/09/03	412	NWL
		2014/02/17	910	NWL
		2013/06/13	682	NWL
HZMB 045		2013/02/15	579	NWL
		2012/11/01	495	NWL
		2016/01/18	1194	NWL
		2014/10/13	1019	NWL
		2014/02/17	910	NWL
		2013/12/19	864	NWL
HZMB 044	NL98	2013/11/02	845	NWL
		2013/11/01	842	NWL
		2013/10/15	819	NWL
		2013/05/09	648	NWL

Identification Number	Baseline Identification Number	Date (YYYY- MM-DD)	Sighting Number	Area Sighted
		2013/05/09	647	NWL
		2013/04/01	623	NWL
		2013/04/01	621	NWL
		2013/02/15	579	NWL
		2012/11/01	495	NWL
		2011/11/07	Baseline	NWL
		2011/11/06	Baseline	NEL
		2011/11/01	Baseline	NEL
		2011/10/06	Baseline	NEL
HZMB 043		2012/09/03	407	NWL
		2015/10/22	1156	NWL
HZMB 042	NL260	2013/12/19	863	NWL
	INL200	2012/11/01	495	NWL
		2011/11/07	Baseline	NWL
		2014/06/05	960	NEL
		2014/02/17	910	NWL
		2013/11/02	845	NWL
		2013/05/09	648	NWL
		2013/05/09	647	NWL
	NL24	2013/04/01	623	NWL
HZMB 041		2013/04/01	621	NWL
		2013/02/15	579	NWL
		2012/11/01	495	NWL
		2011/11/06	Baseline	NEL
		2011/11/05	Baseline	NWL
		2011/11/05	Baseline	NWL
		2011/10/10	Baseline	NWL
		2014/02/17	910	NWL
		2014/01/06	893	NWL
		2013/10/15	821	NWL
HZMB 040		2013/07/08	714	NWL
		2013/07/08	711	NWL
		2013/02/21	589	NWL
		2012/11/01	493	NWL
HZMB 038		2012/11/01	490	NWL
HZMB 037		2012/11/01	490	NWL
HZMB 036		2012/09/03	407	NWL
		2012/11/01	490	NWL

Identification Number	Baseline Identification Number	Date (YYYY- MM-DD)	Sighting Number	Area Sighted
		2013/02/15	579	NWL
HZMB 035		2012/11/01	490	NWL
HZMB 034		2012/11/01	493	NWL
		2014/11/17	1035	NWL
HZMB 028		2013/04/01	625	NWL
		2012/08/06	373	NWL
		2013/12/19	863	NWL
		2013/02/15	579	NWL
HZMB 027		2013/01/28	568	NWL
		2013/01/28	564	NWL
		2012/06/14	299	NWL
		2014/10/13	1018	NWL
		2013/06/25	697	NWL
HZMB 026		2013/05/09	642	NWL
		2013/01/28	561	NWL
		2012/06/13	295	NEL
		2013/02/22	596	NEL
		2013/02/21	591	NWL
HZMB 025		2012/12/06	525	NEL
		2012/10/11	457	NWL
		2012/06/13	295	NEL
		2013/03/18	601	NWL
HZMB 024		2012/06/13	295	NEL
		2015/10/09	1153	NWL
		2015/10/09	1152	NWL
		2015/04/20	1097	NWL
		2014/12/18	1044	NWL
		2014/11/17	1035	NWL
		2014/01/06	888	NWL
HZMB 023		2013/07/08	715	NWL
		2013/07/08	711	NWL
		2013/04/01	619	NWL
		2013/02/21	589	NWL
		2013/02/15	579	NWL
		2012/07/10	330	NWL
		2016/04/21	1219	NWL
HZMB 022		2015/09/07	1143	NWL
		2015/04/20	1097	NWL

Identification Number	Baseline Identification Number	Date (YYYY- MM-DD)	Sighting Number	Area Sighted
		2014/12/18	1044	NWL
		2014/11/17	1035	NWL
		2014/08/04	991	NWL
		2014/01/06	888	NWL
		2013/10/24	827	NWL
		2013/07/08	715	NWL
		2013/07/08	711	NWL
		2013/04/01	619	NWL
		2013/02/21	589	NWL
		2013/02/15	579	NWL
		2012/07/10	330	NWL
		2016/03/22	1215	NWL
HZMB 021	NL37	2012/07/10	330	NWL
		2011/09/16	Baseline	NWL
HZMB 020		2012/07/10	330	NWL
HZMB 019		2012/07/10	330	NWL
		2014/02/17	910	NWL
		2013/05/09	647	NWL
HZMB 018		2013/02/21	594	NEL
		2012/12/10	529	NEL
		2012/07/10	330	NWL
HZMB 017		2012/07/10	330	NWL
		2013/07/08	706	NWL
		2012/12/11	539	NWL
HZMB 016		2012/09/18	446	NWL
		2012/09/04	421	NWL
		2012/07/10	330	NWL
HZMB 015		2012/07/10	330	NEL
		2015/08/25	1139	NWL
		2013/12/26	880	NWL
		2012/08/06	373	NWL
HZMB 014	NL176	2012/06/13	295	NEL
		2011/11/06	Baseline	NEL
		2011/11/01	Baseline	NEL
		2011/11/01	Baseline	NEL
HZMB 013		2012/05/28	281	NWL
HZMB 012		2012/05/28	281	NWL
HZMB 011	EL01	2013/02/22	597	NEL

Identification Number	Baseline Identification Number	Date (YYYY- MM-DD)	Sighting Number	Area Sighted
		2013/02/21	592	NEL
		2013/02/14	572	NEL
		2012/11/06	517	NEL
		2012/09/19	452	NWL
		2012/03/31	261	NEL
		2011/11/02	Baseline	NWL
		2011/11/01	Baseline	NEL
		2015/03/19	1084	NWL
HZMB 009		2012/05/28	281	NWL
		2015/07/06	1122	NWL
HZMB 008		2012/05/28	281	NWL
		2012/12/10	529	NEL
HZMB 007	NL246	2011/11/06	Baseline	NEL
		2011/09/16	Baseline	NWL
		2015/10/22	1158	NWL
		2013/02/21	594	NEL
HZMB 006		2012/12/11	539	NWL
		2012/11/01	495	NWL
		2012/03/29	250	NWL
		2015/02/09	1070	NWL
		2015/02/09	1069	NWL
		2013/11/09	860	NWL
		2013/11/07	858	NWL
HZMB 005		2013/10/15	813	NWL
		2012/12/10	532	NWL
		2012/08/06	374	NWL
		2012/05/28	287	NWL
		2015/07/28	1126	NWL
HZMB 004		2012/09/04	421	NWL
		2012/03/31	262	NWL
		2013/10/15	812	NWL
		2013/06/25	697	NWL
		2012/12/10	529	NEL
HZMB 003	NL179	2012/03/31	261	NWL
		2011/11/06	Baseline	NEL
		2011/09/16	Baseline	NWL
		2014/05/31	951	NWL
HZMB 002	WL111	2013/12/26	878	NWL

Identification Number	Baseline Identification Number	Date (YYYY- MM-DD)	Sighting Number	Area Sighted
		2013/12/19	863	NWL
		2013/11/01	839	NWL
		2013/10/15	819	NWL
		2013/09/24	798	NWL
		2013/02/14	573	NWL
		2012/12/11	536	NWL
		2012/12/11	535	NWL
		2012/10/12	466	NWL
		2012/10/24	475	NWL
		2012/05/28	281	NWL
		2012/03/29	250	NWL
		2011/11/02	Baseline	NWL
		2014/08/25	997	NWL
	WL46	2013/08/21	771	NWL
		2013/06/13	681	NWL
HZMB 001		2013/04/01	617	NWL
		2013/02/14	573	NWL
		2012/03/29	250	NWL
	CH98	2011/11/02	Baseline	NWL
		2011/11/02	Baseline	NWL
	NL11	2011/11/07	Baseline	NWL
	NL12	2011/11/02	Baseline	NWL
		2011/09/23	Baseline	NWL
	NIL 22	2011/11/01	Baseline	NEL
	NL33	2011/11/05	Baseline	NWL
		2011/11/07	Baseline	NWL
	NL46	2011/10/28	Baseline	NWL
	CH153	2011/10/11	Baseline	NWL
		2001/11/07	Baseline	NWL
	NL48	2011/11/02	Baseline	NWL
		2011/09/16	Baseline	NWL
		2011/09/16	Baseline	NWL
	NL75	2011/09/16	Baseline	NWL
		2011/11/01	Baseline	NEL
	NL80	2011/11/02	Baseline	NWL
	NL118	2011/09/06	Baseline	NWL
	NII 120	2011/11/06	Baseline	NEL
	NL120	2011/10/10	Baseline	NWL

Identification Number	Baseline Identification Number	Date (YYYY- MM-DD)	Sighting Number	Area Sighted
		2011/11/06	Baseline	NEL
	NL123	2011/10/10	Baseline	NWL
		2011/10/06	Baseline	NWL
		2011/11/01	Baseline	NEL
	NL139	2011/10/10	Baseline	NEL
		2011/09/16	Baseline	NWL
	NL165	2011/11/05	Baseline	NWL
	INL 105	2011/11/02	Baseline	NWL
	NL170	2011/10/06	Baseline	NEL
		2011/11/07	Baseline	NWL
	NL188	2011/11/01	Baseline	NWL
		2011/10/28	Baseline	NWL
	NL191	2011/09/07	Baseline	NWL
	NII 202	2011/11/07	Baseline	NWL
	NL202	2011/10/28	Baseline	NWL
		2011/11/07	Baseline	NWL
	NII 040	2011/11/05	Baseline	NWL
	NL210	2011/11/02	Baseline	NWL
		2011/09/07	Baseline	NWL
		2011/11/05	Baseline	NWL
	NL214	2011/11/02	Baseline	NWL
		2011/10/28	Baseline	NWL
	NL220	2011/10/10	Baseline	NEL
	NL224	2011/10/28	Baseline	NWL
	NII 000	2011/11/05	Baseline	NWL
	NL226	2011/10/17	Baseline	WL
	NII 000	2011/11/02	Baseline	NWL
	NL230	2011/10/17	Baseline	WL
		2011/10/28	Baseline	NWL
	NL233	2011/10/06	Baseline	NWL
		2011/09/16	Baseline	NWL
		2011/11/07	Baseline	NWL
	NL241	2011/11/02	Baseline	NWL
		2011/09/16	Baseline	NWL
		2011/11/01	Baseline	NEL
	NL244	2011/11/01	Baseline	NWL
		2011/09/05	Baseline	WL
	NL256	2011/11/02	Baseline	NWL

Identification Number	Baseline Identification Number	Date (YYYY- MM-DD)	Sighting Number	Area Sighted
	NL258	2011/09/16	Baseline	NWL
	INL230	2011/09/05	Baseline	WL
	NL259	2011/11/07	Baseline	NWL
	NL261	2011/11/01	Baseline	NEL
		2011/11/06	Baseline	NEL
	NL264	2011/10/06	Baseline	NEL
		2011/09/23	Baseline	NWL
	NL269	2011/11/02	Baseline	NWL
		2011/11/05	Baseline	NWL
		2011/11/02	Baseline	NWL
	NL272	2011/10/28	Baseline	NWL
		2011/09/16	Baseline	NWL
	NL278	2011/11/02	Baseline	NWL
	NL279	2011/11/02	Baseline	NWL
	SL42	2011/11/02	Baseline	NWL
	SL43	2011/10/28	Baseline	NWL
		2011/11/05	Baseline	NWL
	WL04	2011/11/02	Baseline	NWL
		2011/10/17	Baseline	WL
		2011/10/10	Baseline	NWL
		2011/09/16	Baseline	NWL
		2011/11/01	Baseline	NEL
	WL05	2011/11/01	Baseline	NEL
	WL11	2011/11/07	Baseline	NWL
		2011/10/17	Baseline	WL
	WL25	2011/09/23	Baseline	WL
		2011/09/16	Baseline	NWL
		2011/11/02	Baseline	WL
	WL88	2011/09/16	Baseline	NWL
	WL116	2011/09/16	Baseline	NWL
	WL124	2011/11/02	Baseline	NWL
	14/1 450	2011/10/28	Baseline	NWL
	WL156	2011/09/23	Baseline	WL
	WL162	2011/09/16	Baseline	NWL
	NL275	2011/09/23	Baseline	WL
		2011/11/02	Baseline	WL
	SL48	2011/10/17	Baseline	WL
		2011/09/23	Baseline	WL

Identification Number	Baseline Identification Number	Date (YYYY- MM-DD)	Sighting Number	Area Sighted
	CH108	2011/11/02	Baseline	WL
	CHTUO	2011/11/02	Baseline	WL
	CH157	2011/11/02	Baseline	WL
	NL206	2011/10/07	Baseline	WL
	WL28	2011/09/23	Baseline	WL
	WL42	2011/11/02	Baseline	WL
	VVL42	2011/09/05	Baseline	WL
	WL47	2011/10/17	Baseline	WL
		2011/10/17	Baseline	WL
	WL61	2011/09/23	Baseline	WL
	WL66	2011/11/07	Baseline	WL
	14/1 69	2011/09/05	Baseline	WL
	WL68	2011/09/05	Baseline	WL
		2011/11/02	Baseline	WL
	WL72	2011/11/02	Baseline	WL
		2011/09/23	Baseline	WL
	WL87	2011/09/23	Baseline	WL
	WL88	2011/11/02	Baseline	WL
	VVLOO	2011/09/16	Baseline	WL
	WL116	2011/09/16	Baseline	WL
	WL118	2011/11/02	Baseline	WL
	VVLIIO	2011/11/02	Baseline	WL
	WL123	2011/11/02	Baseline	WL
	WL124	2011/11/02	Baseline	WL
	WL128	2011/11/07	Baseline	WL
	VVL120	2011/11/02	Baseline	WL
		2011/11/02	Baseline	WL
	WL131	2011/11/02	Baseline	WL
		2011/09/23	Baseline	WL
	WL132	2011/09/23	Baseline	WL
	WL137	2011/11/02	Baseline	WL
	WL138	2011/11/02	Baseline	WL
	WL144	2011/11/02	Baseline	WL
	WL145	2011/09/05	Baseline	WL
	WL146	2011/10/17	Baseline	WL
	WL153	2011/11/07	Baseline	WL
	WL157	2011/09/23	Baseline	WL
	WL158	2011/09/23	Baseline	WL

Identification Number	Baseline Identification Number	Date (YYYY- MM-DD)	Sighting Number	Area Sighted
	WL163	2011/11/07	Baseline	WL
	WL 103	2011/11/02	Baseline	WL
	WL165	2011/10/17	Baseline	WL
	WL167	2011/10/17	Baseline	WL
	WL170	2011/11/07	Baseline	WL
	WL171	2011/10/28	Baseline	WL

HZMB 022 2016-04-21_12-31-21_02 MED



Appendix L – Event Action Plan

Event / Action Plan for Air Quality

Event		Action	n	
	ET Leader	IEC	ER	Contractor
Action Level				
Exceedance for one sample	 Identify source, investigate the causes of exceedance and propose remedial measures; Inform IEC and ER; Repeat measurement to confirm finding; Increase monitoring frequency to daily. 	 Check monitoring data submitted by ET; Check Contractor's working method. 	1. Notify Contractor.	 Rectify any unacceptable practice; Amend working methods if appropriate.
Exceedance for two or more consecutive samples	 Identify source; Inform IEC and ER; Advise the ER on the effectiveness of the proposed remedial measures; Repeat measurements to confirm findings; Increase monitoring frequency to daily; Discuss with IEC and Contractor on remedial actions required; If exceedance continues, arrange meeting with IEC and ER; If exceedance stops, cease additional monitoring. 	 Check monitoring data submitted by ET; Check Contractor's working method; Discuss with ET and Contractor on possible remedial measures; Advise the ER on the effectiveness of the proposed remedial measures; Supervise Implementation of remedial measures. 	 Confirm receipt of notification of failure in writing; Notify Contractor; Ensure remedial measures properly implemented. 	 Submit proposals for remedial to ER within 3 working days of notification; Implement the agreed proposals; Amend proposal if appropriate.

Event	Action				
	ET Leader	IEC	ER	Contractor	
Limit Level					
Exceedance for one sample	 Identify source, investigate the causes of exceedance and propose remedial measures; Inform ER, Contractor and EPD; Repeat measurement to confirm finding; Increase monitoring frequency to daily; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results. 	Contractor on possible	 Confirm receipt of notification of failure in writing; Notify Contractor; Ensure remedial measures properly implemented. 	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within 3 working days of notification; Implement the agreed proposals; Amend proposal if appropriate. 	

Event	Action				
	ET Leader	IEC	ER	Contractor	
Exceedance for two or more consecutive samples	 Notify IEC, ER, Contractor and EPD; Identify source; Repeat measurement to confirm findings; Increase monitoring frequency to daily; Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; Arrange meeting with IEC and ER to discuss the remedial actions to be taken; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; If exceedance stops, cease additional monitoring. 	actions whenever necessary	 notification of failure in writing; 2. Notify Contractor; 3. In consultation with the IEC, agree with the Contractor on the remedial measures to be implemented; 4. Ensure remedial measures properly implemented; 5. If exceedance continues, 	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within 3 working days of notification; Implement the agreed proposals; Resubmit proposals if problem still not under control; Stop the relevant portion of works as determined by the ER until the exceedance is abated. 	

Event / Action Plan for Construction Noise

Event		Actior	ı	
	ET Leader	IEC	ER	Contractor
Action Level	 Notify IEC and Contractor; Identify source, investigate the causes of exceedance and propose remedial measures; Report the results of investigation to the IEC, ER and Contractor; Discuss with the Contractor and formulate remedial measures; Increase monitoring frequency to check mitigation effectiveness. 	 Review the analysed results submitted by the ET; Review the proposed remedial measures by the Contractor and advise the ER accordingly; Supervise the implementation of remedial measures. 	 Confirm receipt of notification of failure in writing; Notify Contractor; Require Contractor to propose remedial measures for the analysed noise problem; Ensure remedial measures are properly implemented. 	 Submit noise mitigation proposals to IEC; Implement noise mitigation proposals.
Limit Level	 Inform IEC, ER, EPD and Contractor; Identify source; Repeat measurements to confirm findings; Increase monitoring frequency; Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; Inform IEC, ER and EPD the causes and actions taken for the exceedances; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; If exceedance stops, cease additional monitoring. 	 Discuss amongst ER, ET, and Contractor on the potential remedial actions; Review Contractors remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; Supervise the implementation of remedial measures. 	 notification of failure in writing; Notify Contractor; Require Contractor to propose remedial measures for the analysed noise problem; Ensure remedial measures properly implemented; If exceedance continues, 	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within 3 working days of notification; Implement the agreed proposals; Resubmit proposals if problem still not under control; Stop the relevant portion of works as determined by the ER until the exceedance is abated.

Event / Action Plan for Water Quality

Event	Action				
	ET Leader	IEC	ER	Contractor	
Action level being exceeded by one sampling day	 Repeat <i>in situ</i> measurement to confirm findings; Identify source(s) of impact; Inform IEC, contractor and ER; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC, ER and Contractor; Ensure mitigation measures are implemented; Repeat measurement on next day of exceedance to confirm findings. 	 Check monitoring data submitted by ET and Contractor's working methods; Discuss with ET and Contractor on possible remedial actions; Review the proposed mitigation measures submitted by Contractor and advise the ER accordingly; Assess the effectiveness of the implemented mitigation measures. 	 Confirm receipt of notification of non-compliance in writing; Discuss with IEC on the proposed mitigation measures; Make agreement on mitigation measures to be implemented; Ensure mitigation measures are properly implemented. 	 Inform the ER and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment and consider changes of working methods; Discuss with ET and IEC on possible remedial actions and propose mitigation measures to IEC and ER; Implement the agreed mitigation measures. Amend working methods if appropriate. 	

Event	Action				
	ET Leader	IEC	ER	Contractor	
Action level being exceeded by two or more consecutiv e sampling days	 Repeat <i>in situ</i> measurement to confirm findings; Identify source(s) of impact; Inform IEC, Contractor and ER; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC, ER and Contractor; Ensure mitigation measures are implemented; Increase the monitoring frequency to daily until no exceedance of Action level; Repeat measurement on next day of exceedance to confirm findings. 	 Check monitoring data submitted by ET and Contractor's working method; Discuss with ET and Contractor on possible remedial actions; Review the proposed mitigation measures submitted by Contractor and advise the ER accordingly; Assess the effectiveness of the implemented mitigation measures. 	 Confirm receipt of notification of non-compliance in writing; Discuss with IEC on the proposed mitigation measures; Make agreement on mitigation measures to be implemented; Ensure mitigation measures are properly implemented; Assess the effectiveness of the implemented mitigation measures. 	 Inform the Engineer and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment and consider changes of working methods; Discuss with ET and IEC on possible remedial actions and propose mitigation measures to IEC and ER within 3 working days of notification; Implement the agreed mitigation measures; Amend working methods if appropriate. 	

Event	Action				
	ET Leader	IEC	ER	Contractor	
sampling day	 Repeat <i>in-situ</i> measurement to confirm findings; Identify source(s) of impact; Inform IEC, Contractor, ER and EPD; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC, ER and Contractor; Ensure mitigation measures are implemented; Increase the monitoring frequency to daily until no exceedance of Limit level. 	 Check monitoring data submitted by ET and Contractor's working method; Discuss with ET and Contractor on possible remedial actions; Review the proposed mitigation measures submitted by Contractor and advise the ER accordingly; Assess the effectiveness of the implemented mitigation measures. 	 Confirm receipt of notification of failure in writing; Discuss with IEC, ET and Contractor on the proposed mitigation measures; Request Contractor to critically review the working methods; Ensure mitigation measures are properly implemented; Assess the effectiveness of the implemented mitigation measures. 	 Inform the ER and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment and consider changes of working methods; Submit proposal of mitigation measures to ER within 3 working days of notification and discuss with ET, IEC and ER; Implement the agreed mitigation measures; Amend working methods if appropriate. 	

Event		ו				
	ET Leader	IEC	ER	Contractor		
or more consecutive sampling days	 Repeat <i>in-situ</i> measurement to confirm findings; Identify source(s) of impact; Inform IEC, contractor, ER and EPD; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC, ER and Contractor; Ensure mitigation measures are implemented; Increase the monitoring frequency to daily until no exceedance of Limit level for two consecutive days. 	 Check monitoring data submitted by ET and Contractor's working method; Discuss with ET and Contractor on possible remedial actions; Review the Contractor's mitigation measures whenever necessary to assure their effectiveness and advise the ER accordingly. 	 Confirm receipt of notification of failure in writing; Discuss with IEC, ET and Contractor on the proposed mitigation measures; Request Contractor to critically review the working methods; Make agreement on the mitigation measures to be implemented; Ensure mitigation measures are properly implemented; Assess the effectiveness of the implemented mitigation measures; Consider and instruct, if necessary, the Contractor to slow down or to stop all or part of the construction activities until no exceedance of Limit level. 	 Inform the ER and confirm notification of the non-compliance in writing; Take immediate action to avoid further exceedance; Rectify unacceptable practice; Check all plant and equipment and consider changes of working methods; Submit proposal of mitigation measures to ER within 3 working days of notification and discuss with ET, IEC and ER; Implement the agreed mitigation measures; Resubmit proposals of mitigation measures if problem still not under control; As directed by the Engineer, to slow down or to stop all or part of the construction activities until no exceedance of Limit level. 		

Event / Action Plan for Dolphin Monitoring

Event	ET Leader	IEC	ER / SOR	Contractor
Action Level	 Repeat statistical data analysis to confirm findings; Review all available and relevant data, including raw data and statistical analysis results of other parameters covered in the EM&A, to ascertain if differences are as a result of natural variation or previously observed seasonal differences; Identify source(s) of impact; Inform the IEC, ER/SOR and Contractor; Check monitoring data. Review to ensure all the dolphin protective measures are fully and properly implemented and advise on additional measures if necessary. 	 Check monitoring data submitted by ET and Contractor; Discuss monitoring results and finding with the ET and the Contractor. 	 Discuss monitoring with the IEC and any other measures proposed by the ET; If ER/SOR is satisfied with the proposal of any other measures, ER/SOR to signify the agreement in writing on the measures to be implemented. 	 Inform the ER/SOR and confirm notification of the non-compliance in writing; Discuss with the ET and the IEC and propose measures to the IEC and the ER/SOR; Implement the agreed measures.
Limit Level	 Repeat statistical data analysis to confirm findings; Review all available and relevant data, including raw data and statistical analysis results of other parameters covered in the EM&A, to ascertain if differences are as a result of natural variation or previously observed seasonal differences; Identify source(s) of impact; Inform the IEC, ER/SOR and Contractor of findings; Check monitoring data; Repeat review to ensure all the 	 Check monitoring data submitted by ET and Contractor; Discuss monitoring results and findings with the ET and the Contractor; Attend the meeting to discuss with ET, ER/SOR and Contractor the necessity of additional dolphin monitoring and any other potential mitigation measures. Review proposals for additional monitoring and any other mitigation measures submitted by ET and Contractor and 	 Attend the meeting to discuss with ET, IEC and Contractor the necessity of additional dolphin monitoring and any other potential mitigation measures. If ER/SOR is satisfied with the proposals for additional dolphin monitoring and/or any other mitigation measures submitted by ET and Contractor and verified by IEC, ER/SOR to signify the agreement in writing on such proposals and any other mitigation measures. Supervise the implementation 	 Inform the ER/SOR and confirm notification of the non-compliance in writing; Attend the meeting to discuss with ET, IEC and ER/SOR the necessity of additional dolphin monitoring and any other potential mitigation measures. Jointly submit with ET to IEC a proposal of additional dolphin monitoring and/or any other mitigation measures when necessary. Implement the agreed additional dolphin monitoring and/or any other mitigation

Monthly EM&A Report for May 2016

 dolphin protective measures are fully and properly implemented and advise on additional measures if necessary. 7. If ET proves that the source of impact is caused by any of the construction activity by the works contract, ET to arrange a meeting to discuss with IEC, ER/SOR and Contractor the necessity of additional dolphin monitoring and/or any other potential mitigation measures (e.g., consider to modify the perimeter silt curtain or consider to control/temporarily stop relevant construction activity etc.) and submit to IEC a proposal of additional dolphin monitoring and/or mitigation measures where necessary. 		of additional monitoring and/or any other mitigation measures.	measures.
---	--	---	-----------



Monthly Summary Waste Flow Table for <u>May / 2016 (year)</u>

Project : H	long Kong – Z	huhai – Macao	Bridge, Hong	Kong Bound	ary Crossing	g Facilities –	Reclamation V	Works			Contract No.:	HY/2010/02
		Actual Quantities of Inert C&D Materials Generated Monthly						A	Actual Quantities of C&D Wastes Generated Monthly			
Month	Total Quantity Generated	Hard Rock and Large Broken Concrete (see Note 1)	Reused in the Contract	Reused in other Projects	Surplus Surcharge exported to Macau	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics (see Note 2)	Chemical Waste (see Note 4)	Others, e.g. general refuse (see Note 3)
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000 m ³)
Jan-16	0.0000	0.0000	0.0000	3.0720	0.0000	0.0000	52.4729	0.0000	0.2520	0.0000	0.8000	0.0520
Feb-16	0.0000	0.0000	0.0000	6.3366	0.0000	0.0000	6.1333	0.0000	0.0000	6.0800	0.0000	0.0520
Mar-16	0.0000	0.0000	0.0000	56.1071	0.0000	0.0000	38.3187	0.0000	0.3080	0.0000	0.0000	0.0520
Apr-16	0.0000	0.0000	0.0000	47.2724	3.5710	0.0000	18.7380	0.0000	0.2240	0.0000	0.0000	0.3662
May-16	0.0000	0.0000	0.0000	24.8600	93.8100	0.0000	45.2723	0.0000	0.0000	0.0000	0.0000	0.0715
Jun-16												
Sub-total	0.0000	0.0000	0.0000	137.6481	97.3810	0.0000	160.9352	0.0000	0.7840	6.0800	0.8000	0.5937
Jul-16												
Aug-16												
Sep-16												
Oct-16												
Nov-16												
Dec-16												
Total	0.0000	0.0000	0.0000	137.6481	97.3810	0.0000	160.9352	0.0000	0.7840	6.0800	0.8000	0.5937

(1) Broken concrete for recycling into aggregates. Notes:

(2) Plastics refer to plastic bottles / containers / sheets / foam / barrier from packaging materials.

(3) Use the conversion factor : 1 full load of dumping truck being equivalent to $6.5m^3$ by volume.

(4) Chemical waste refer to spent "battery" and "oil with water".