

# 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 September 2016

[10/2016]

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## Disclaimer

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18 October 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 September 2016

Reference is made to the Environmental Team's submission of the Monthly Environmental Monitoring & Audit Report for September 2016 certified by the ET Leader (ET's ref.: "60249820/C/RMKY16101801" dated 18 October 2016) and provided to us via e-mail on 18 October 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 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. Similarly, adequate site drainage facilities shall be provided to prevent discharge sediment laden/contaminated surface runoff into the marine waters.

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

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Raymond Dai Independent Environmental Checker

c.c.	HyD	Mr. Vico Cheung	(By Fax: 3188 6614)
	HyD	Mr. Wai-Ping Lee	(By Fax: 3188 6614)
	AECOM	Ms. Echo Leong	(By Fax: 2317 7609)
	CHEC	Mr. Lim Kim Chuan	(By Fax: 2578 0413)

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# 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 30 September 2016. As informed by the Contractor, major activities in the reporting period were:-

## Marine-base

- Sloping Seawalls
- Rubble Mound Seawall
- Maintenance of silt curtain

## Land-base

- Surcharge removal & laying
- Deep Cement Mixing
- Construction of Permanent Seawall
- 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	6 sessions
1-hour TSP monitoring	6 sessions
Noise monitoring	5 sessions
Impact water quality monitoring	13 sessions
Impact dolphin monitoring	2 surveys
Joint Environmental site inspection	5 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

1 (One) action level exceedance of suspended solids was recorded at IS5 during ebb tide on 2 September 2016 and 2 (Two) action level exceedances of suspended solids were recorded at SR5 and SR7 during flood tide on 19 September 2016. After investigation, there is no adequate information to conclude the recorded exceedances are related to this Contract.

#### Summary of Impact Dolphin Monitoring

A total of 10 sightings were made, seven "on effort" and three "opportunistic". Five sightings were recorded on the 5 September 2016, one was on 6 September 2016 and four were recorded on 21 September 2016. Five groups sighted on the 5 September 2016. Two groups were engaged in multiple behaviours, one was surface active and feeding and the other surface active and travelling; two groups were noted as travelling and one as feeding. The one group sighted on 6 September 2016 was noted as feeding. Of the four groups sighted on the 21 September 2016, two were engaged in multiple behaviours which were travelling and feeding and, the second group, travelling and milling. One group was with another vessel which was photographing them, the behavior was classified as "other" and the fourth group's behavior could not be determined (unknown). No calves was sighted in September 2016.

#### Complaint, Notification of Summons and Successful Prosecution

One (1) water quality complaint was referred to the ENPO at 10:50 am on the 22 September 2016 by EPD; ENPO referred this complaint to this Contract on the same day. With referred to a complaint lodged by a member of the public about whitish effluent discharged from two flattop barges which departs from Tuen Mun on a daily basis. The complainant stated that the whitish effluent was discharged from these barges at sea area outside cellular structure cell no. C054 – C055 between 18:00 to 04:00, causing pollution, after investigation, there is no adequate information to conclude the complaint is related to this Contract.

No 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;



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- 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 fifth 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 September 2016.



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## 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
Èngineering 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
- Maintenance of silt curtain

#### Land-base

- Surcharge removal & laying
- Deep Cement Mixing
- Construction of Permanent Seawall
- 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

Hong Kong Boundary Crossing Facilities – Reclamation Works Monthly EM&A Report for September 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 September 20162.3.5Figure 2 shows the locations of monitoring stations. Table 2.2 describes the details of the monitoring Monthly EM&A Report for September 2016 stations.

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## 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

<sup>#</sup>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%.

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- (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 m<sup>3</sup>/min, and complied with the range specified in the updated EM&A Manual (i.e. 0.6-1.7 m<sup>3</sup>/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.
- (vi) 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 September 2016 is provided in Appendix F.
- 2.6.2 Due to electricity failure, the air quality monitoring at AMS3B (site office) originally scheduled from 12 13 September 2016 has been rescheduled to 13 -14 September 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	74	70-78	374	500
AMS3B	73	71-77	368	500
AMS7	74	67-79	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	46	15-106	176	260
AMS3B	36	4-63	167	260
AMS7	43	22-72	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	Seaview Crescent Tower 1	Free-field on the rooftop of the premise
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 September 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 <sub>eq (30 mins)</sub>	L <sub>eq (30 mins)</sub>	L <sub>eq (30 mins)</sub>
NMS2	69	67-72*	75
NMS3B	67	66-68*	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 Other major noise sources during the noise monitoring included construction activities of the Contract, construction activities by other contracts and nearby traffic noise. Nonetheless, the Contractor of Contract No.HY/2010/02 was reminded to continue to properly implement all noise mitigation measures.
- 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	<ul> <li>Depth, m</li> <li>Temperature, °C</li> <li>Salinity, ppt</li> <li>Dissolved Oxygen (DO), mg/L</li> <li>DO Saturation, %</li> <li>Turbidity, NTU</li> <li>pH</li> <li>Suspended Solids (SS), mg/L</li> </ul>	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 With respect to the latest available information about the temporary works boundary associated with the Expansion of Hong Kong International Airport into a Three-Runway System project (3RS project), it is noted that impact water quality monitoring stations SR5, IS10 & CS(Mf)3 will be enclosed by temporary works boundary of 3RS project. For details of proposed changes, please refer to section 6.4.9.
- 4.4.5 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

 Table 4.3
 Impact Water Quality Monitoring Stations



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Station	Description	East	North
CSA	Control Station	818103	823064

### 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.

Table 4.4Laboratory Analysis for Suspended Solids

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

(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 September 2016 is provided in Appendix F.
- 4.6.2 The impact water quality monitoring event for flood tide of 9 September 2016 was cancelled due thunderstorm Signal was hoisted and lightning event was recorded at the water quality monitoring area.

#### 4.7 Results and Observations

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

Station	Exceedance Level	DO (	S&M)	DO (B	ottom)	Tur	bidity		SS	T	otal
	Ebb	Flood	Ebb	Flood	Ebb	Flood	Ebb	Flood	Ebb	Flood	
IS5	Action	0	0	0	0	0	0	1 (2 Sept 16)	0	1	0
	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
10(1011)0	Limit	0	0	0	0	0	0	0	0	0	0
IS7	Action	0	0	0	0	0	0	0	0	0	0
157	Limit	0	0	0	0	0	0	0	0	0	0
IS8	Action	0	0	0	0	0	0	0	0	0	0
150	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
10(101)9	Limit	0	0	0	0	0	0	0	0	0	0
IS10	Action	0	0	0	0	0	0	0	0	0	0
1010	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
1017	Limit	0	0	0	0	0	0	0	0	0	0
SR3	Action	0	0	0	0	0	0	0	0	0	0
513	Limit	0	0	0	0	0	0	0	0	0	0
SR4(N)	Action	0	0	0	0	0	0	0	0	0	0
5114(IN)	Limit	0	0	0	0	0	0	0	0	0	0

#### Table 4.5 Summary of Water Quality Exceedances



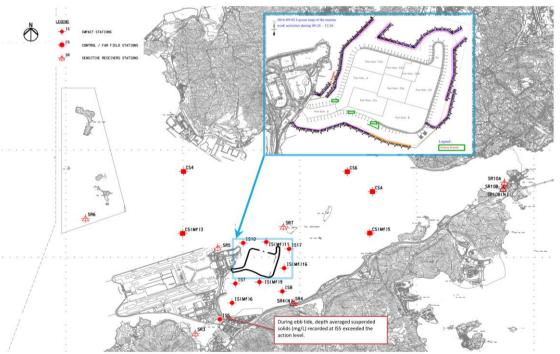
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Station	Exceedance Level	DO (	S&M)	DO (B	ottom)	Tur	bidity		SS	Т	otal
	Level	Ebb	Flood	Ebb	Flood	Ebb	Flood	Ebb	Flood	Ebb	Flood
SR5	Action	0	0	0	0	0	0	0	1 (19 Sept 16)	0	1
	Limit	0	0	0	0	0	0	0	0	0	0
SR6	Action	0	0	0	0	0	0	0	0	0	0
SKO	Limit	0	0	0	0	0	0	0	0	0	0
SR7	Action	0	0	0	0	0	0	0	1 (19 Sept 16)	0	1
	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	1	2		3
	Limit	0	0	0	0	0	0	0	0		0
	Note: S:	Surface; a	nd								

S: Surface; and M: Mid-depth.

- 4.7.2 1 (One) action level exceedance of suspended solids was recorded at IS5 during ebb tide on 2 September 2016.
- 4.7.2.1 Below layout map shows that marine based construction works such as seawall construction was carried out at Portion A and Portion B of HKBCF Reclamation Works:



- 4.7.2.2 Exceedances recorded at IS5 during ebb 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 part of the perimeter silt curtain which is facing IS5.
- 4.7.2.4 With referred to the above layout map, marine based construction work such as seawall construction were conducted at Portion A and Portion B. however no silt plume was observed to flow from the inside



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of the perimeter silt curtain to the outside of the perimeter silt curtain when monitoring was conducted during ebb tide. (Also see blow Photo record 1 for sea condition observed on 2 September 2016 during ebb tide)



- 4.7.2.5 Also, turbidity and suspended solids levels recorded at IS7, IS(Mf)9 and IS(Mf)6 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.
- 4.7.2.6 After investigation, there is no adequate information to conclude the recorded exceedances are related to this Contract.

4.7.2.7 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,

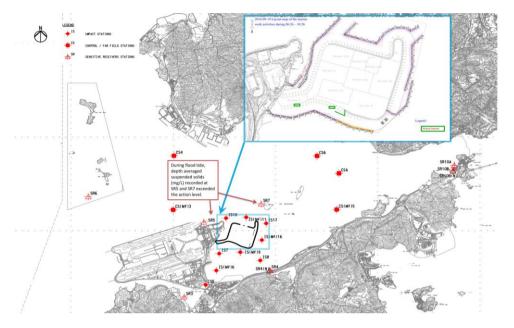
actions 5-7 under the EAP are not considered applicable.

- 4.7.2.8 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.
- 4.7.2.9 Maintenance work of the silt curtain was carried out by the Contractor on a daily basis except Sunday and public holiday.

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- Monthly EM&A Report for September 2016 2 (Two) action level exceedances of suspended solids were recorded at SR5 and SR7 during flood tide 473 on 19 September 2016.
- 4.7.3.1 Below layout map shows that marine based construction works such as seawall construction was carried out at Portion B and Portion D of HKBCF Reclamation Works:



- 4.7.3.2 Exceedances recorded at SR5 and SR7 during flood tide are unlikely due to marine based construction activities of the Contract because:
- 4.7.3.3 With reference to the silt curtain checking record, no defect was observed at northern part of the perimeter silt curtain which are facing SR5 and SR7
- 4.7.3.4 With referred to the above layout map, no marine based construction work of this Contract was conducted at the north side of HKBCF reclamation work. In addition, 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 below Photo record 1 for sea condition observed on 19 September 2016 during flood tide.)



- 4.7.3.5 Also, turbidity and suspended solids levels recorded at IS10 and IS(Mf)11 were below the action and limit level.
- 4.7.3.6 This indicates that the turbidity and suspended solids levels recorded at monitoring stations closer to the active works, were not adversely affected.



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- 4.7.3.7 As such, the exceedances recorded at SR5 and SR7 was unlikely attribute to the active works of this Contract. After investigation, there is no adequate information to conclude the recorded exceedances are related to this Contract.
- 4.7.3.8 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.

- 4.7.3.9 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.
- 4.7.3.10 Maintenance work of the silt curtain was carried out by the Contractor on a daily basis except Sunday and public holiday.
  - 4.7.4 No other exceedance was recorded at all monitoring stations in the reporting month.
  - 4.7.5 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 With respect to the latest available information about the temporary works boundary associated with the Expansion of Hong Kong International Airport into a Three-Runway System project (3RS project), it is noted that the transect lines of dolphin monitoring 2, 3, 4, 5, 6 and 7 of this Contract will be enclosed by temporary works boundary of 3RS project. For details of proposed changes, please refer to section 6.4.9.
- 5.4.5 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.





	HK Grid System		Long Lat in WGS84		
ID	X	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	
20	805476	827081	113.877878	22.382668	
21	805476	830562	113.877811	22.382008	
22	806464	824033	113.887520	22.355164	
22	806464	829598	113.887416	22.335104	
22	814559	829398	113.966142	22.334574	
23	814559	824768	113.966101	22.354574	
Z3 Remarks:	014008	024/00	113.900101	22.301920	

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

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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.



Hong Kong Boundary Crossing Facilities – Reclamation WorksMonthly EM&A Report for September 2016(b) Coordinates for transect lines 1, 2, 7, 8, 9 and 11 have been updated in respect to the

(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 September 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 5, 6, 21 and 22 of September 2016. A total of 218.2 km of transect line was conducted; all was during Beaufort Sea State 3 or better (favourable water conditions).



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The effort summary and sightings data are shown in Tables 5.3 and 5.4, respectively. The survey efforts conducted in September 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)
	05/09/2016	NWL	1	13	
	05/09/2016	NWL	2	8.3	
	05/09/2016	NWL	3	0.2	
1	06/09/2016	NWL	1	19.8	109.5
	06/09/2016	NWL	2	31.5	
	06/09/2016	NEL	1	22.2	
	06/09/2016	NEL	2	14.5	
	21/09/2016	NWL	1	25.9	
	21/09/2016	NWL	2	36.6	
2	22/09/2016	NWL	2	9.9	108.7
	22/09/2016	NEL	1	15.6	
	22/09/2016	NEL	2	20.7	
			TOTA	L in SEPT 2016	218.2

Table 5.3	Impact 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 Detail September 2016
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Date	Location	No. Sightings "on effort"	No. Sightings "opportunistic"
05/09/2016	NWL/WL	3	2*
	NEL	0	0
06/09/2016	NWL	1	0
	NEL	0	0
21/09/2016	NWL	3	1
	NEL	0	0
22/09/2016	NWL	0	0
	NEL	0	0
	TOTAL in SEPT 2016	7	3

\* 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) <sup>*</sup>								
Date	NEL Track (km)	NWL Track (km)	NEL Sightings	NWL Sightings	NEL Encounter Rate	NWL Encounter Rate		
5&6 September 2016	36.7	72.8	0	4	0.0	5.5		



21&22 September

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21&22 September							
2016	36.3	72.4	0	3	0.0	4.1	
Encounter Rate of Total Number of Dolphins (ANI)**							
		NWL			NEL	NWL	
	NEL Track	NWL Track	NEL	NWL	NEL Encounter	NWL Encounter	
Date			NEL Dolphins	NWL Dolphins			

2016 Encounter Rate of Number of Dolphin Sightings (STG) presents encounter rates in terms of groups per 100km.

72.4

0

11

0.0

15.2

36.3

\*\* 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 guarterly STG & ANI, which were adopted for the Event & Action Plan.

- A total of 10 sightings were made, seven "on effort" and three "opportunistic". Five sightings were 5.7.2 recorded on the 5 September 2016, one was on 6 September 2016 and four were recorded on 21 September 2016. Five groups sighted on the 5 September 2016. Two groups were engaged in multiple behaviours, one was surface active and feeding and the other surface active and travelling; two groups were noted as travelling and one as feeding. The one group sighted on 6 September 2016 was noted as feeding. Of the four groups sighted on the 21 September 2016, two were engaged in multiple behaviours which were travelling and feeding and, the second group, travelling and milling. One group was with another vessel which was photographing them, the behavior was classified as "other" and the fourth group's behavior could not be determined (unknown). No calves was sighted in September 2016. Sighting details are summarised and plotted in Appendix K and Figure 5c, respectively. The locations of sighting with different behaviour are mapped in Figure 5d.
- Two resightings were made in August 2016. HZMB 083 and HZMB 094. HZMB 083 (AFCD NL136) is a 5.7.3 well-known adult which was sighted during the baseline study period of this project. This dolphin has been sighted on eight different days (nine different encounters) during impact monitoring and was last sighted in December 2015. HZMB 094 is also an adult dolphin that was initially sighted in 2013. It has been sighted seven times during the course of impact monitoring, the last sighting being October 2014. Images and re-sightings data are included in Appendix K.
- Noteworthy Observation<sup>1</sup>: 5.7.4
- 5.7.4.1 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 however the number of working vessels appears to have decreased, thus making it possible to travel between some of the structures. It is considered that the working barges 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 movement, dolphin habitat use and dolphin behaviour.
- 5.7.4.2 The HKBCF and adjoining "Southern Landfall" Projects effected line 11. 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



<sup>&</sup>lt;sup>1</sup> 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.

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- 5.7.4.3 Fishing Vessels were noted anchored on several occasions at line 1. Previously, dolphins have been known to be attracted to fishing vessels, both active and anchored, and as such the anchored vessels may have temporarily affected the dolphins distribution.
- 5.7.4.4 Travel to the northern end of line 10 and line 23 was slightly impeded by anchorages. After checking with the Contractor, there are no trans-boundary vessels that are required to anchor at northern ends of lines 10 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.
- 5.7.4.5 Several single anchored vessels were noted on lines 1, 8, 18 and 23 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 1, 8, 18 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 anchor on these lines through time, it is considered that this could temporarily affect survey protocol, survey data collection and dolphin habitat use.
- 5.7.4.6 New project(s) which are not related to this Contract were noted on lines 3, 4, 6 and 7 which blocked the transect area view. It is unknown what activities occur under this project(s) which are not related to this Contract or how long it may occur for and, as such, it is considered that this new project(s) which are not related to this Contract may affect survey protocol, survey data collection and dolphin habitat use.
- 5.7.4.7 Dredging which is not related to this Contract was noted on line 12. This activity blocked the transect area view and is known to disturb normal dolphin behavior. As such, it is considered that dredging affects survey protocol, survey data collection and dolphin habitat use.
- 5.7.4.8 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.
- 5.7.4.9 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.
- 5.7.5 The event action plan is annexed in Appendix L.

# 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, site inspections were carried out 5 times on 1, 8, 15, 22 and 29 September 2016 respectively.
- 6.1.2 Particular observations during the site inspections are described below:

#### Air Quality

- 6.1.3 Fugitive dust was observed during handling of rock. The Contractor was reminded to provide dust suppression measures such as watering to during the handling of rock. The Contractor subsequently provided dust suppression measures to handling of rock material. (Closed)
- 6.1.4 Fugitive dust was observed while dump trucks were passing by on the dry road at Portion E2. The Contractor was reminded to provide dust suppression measure, such as watering on road. The Contractor subsequently provided watering on dry road. (Closed)
- 6.1.5 Dust was observed when rock was handled by derrick barge. The Contractor was reminded to provide dust suppression measures during such operation. (Follow up)

#### Noise

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

#### Water Quality

6.1.7 Insufficient overlapping of the perimeter silt curtain was observed. The Contractor was reminded to provide sufficient overlapping of perimeter silt curtain at marine access. The Contractor subsequently rectified the situation and provided sufficient overlapping. (Closed)

#### Chemical and Waste Management

- 6.1.8 Oil drums and battery were placed on bare ground at workshop area, the Contractor was reminded to provide drip tray to the oi drums and properly store waste battery. The Contractor subsequently provided drip trays to oil drums and removed the waste battery from the location. (Closed)
- 6.1.9 Oil stains were observed on deck of barge, the Contractor was reminded to clear the oil stain using spill kit and disposed the spent spill kit of as chemical waste. The Contractor subsequently cleared the oil stain on deck of barge. (Closed)
- 6.1.10 Defect on drip tray was observed at Portion D. The Contractor was reminded to rectify the defect of the drip tray. (Follow up)

#### Landscape and Visual Impact

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

## Others

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

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## 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, 3,529.5m<sup>3</sup> of Hard Rock and Large Broken Concrete, 35,000m<sup>3</sup> of inert C&D material was reused in other projects. 302,987m<sup>3</sup> of fill material were imported for the Contract use in the reporting period. 364kg of paper/cardboard packaging was generated during the reporting period and 44.5m<sup>3</sup> 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.
- 6.2.7 As advised by the Contractor, approximately 350,000m<sup>3</sup> of surplus surcharge was exported to Macau during the reporting month.

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# 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	Statutory License/ Reference Permit		License or Valid Period Permit No.			Remarks	
			From	То	Holder		
	Environmental	EP- 353/2009/K	11/04/2016	N/A		Hong Kong – Zhuhai – Macao Bridge Hong Kong Boundary Crossing Facilities	
EIAO	Permit	EP- 354/2009/D	13/03/2015	N/A	HyD	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- RS0747-16	22/07/2016	21/01/2017	CHEC	Reclamation Works in Contract HY/2010/02	
NCO	Construction Noise Permit	GW- RS0953-16	21/09/2016	20/03/2017	CHEC	Reclamation Works in Contract HY/2010/02	

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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 mal-function 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 September 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 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 during the reporting month, stage 1 (southern section of Portion B) removal work was rescheduled and therefore not carried out in June 2016. Tentative completion for stage 1 removal work and dates for the subsequent stages have also been updated in the reporting month, while the overall phasing arrangement has not changed. A notification letter was prepared in the reporting month and sent to IEC/ENPO on 1 June 2016 via email to inform them that the removal of perimeter silt curtain of Stages 1, 2, 3 and 4 has been rescheduled. IEC/ENPO expressed on 7 June 2016 that the update on the proposal is mainly on time schedule and as such, they have no objection in principle. However prior to IEC/ENPO's reply to confirm ET's updated proposal, ET was requested to provide site photos to show ET's checking of the current site condition with respect to the reminders given in their previous letter (Our Ref.: HYDHZMBEEM00\_0\_4102L.16 dated 22 April 2016).
- 6.4.9 Due to the commencement of marine work of the Expansion of Hong Kong International Airport into a Three-Runway System (3RS Project), a large portion of works site boundary will be established at the northern part of the existing airport Island. A joint meeting on 22 July 2016 among the various environmental teams of the HZMB contracts [Contract no.HY/2011/03, Contract no.HY/2010/02, Contract no.HY/2012/07, Contract no.HY/2012/08], Highways Department (HyD) and the Environmental Project Office (ENPO) of HZMB project noted the recent arrangement of works boundary of 3RS Project which delineates the boundary of the designated 3RS Project. The boundary, as detailed on the information provided to us by Airport Authority Hong Kong via ENPO by email on 4 August 2016, will affect several water quality monitoring stations and the dolphin monitoring transect lines which are being used for conducting monitoring under Contract No. HY/2010/02. The EM&A Programme for the HZMB HKBCF Project will therefore be affected. As a result, ET proposed to IEC/ENPO via email on 20 September 2016 the following changes relocation of water quality stations



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Hong Kong Boundary Crossing Facilities – Reclamation Works from SR5. IS10. CS(Mf)3 and Alteration of the transect lines of dolphin monitoring 2, 3, 4, 5, 6 and 7. IEC/ENPO commented the proposal on 30 September 2016 and the proposal is current under ET's review.

## 6.5 Summary of Exceedances of the Environmental Quality Performance Limit

- For impact air quality monitoring, no exceedance was recorded at all monitoring stations in the 6.5.1 reporting month.
- For construction noise, no exceedance was recorded at all monitoring stations in the reporting month. 6.5.2
- For impact water quality monitoring, 1 (One) action level exceedance of suspended solids was 6.5.3 recorded at IS5 during ebb tide on 2 September 2016 and 2 (Two) action level exceedances of suspended solids were recorded at SR5 and SR7 during flood tide on 19 September 2016. After investigation, there is no adequate information to conclude the recorded exceedances are related to this Contract.
- For dolphin monitoring, a total of 10 sightings were made, seven "on effort" and three "opportunistic". 6.5.4 Five sightings were recorded on the 5 September 2016, one was on 6 September 2016 and four were recorded on 21 September 2016. Five aroups sighted on the 5 September 2016. Two groups were engaged in multiple behaviours, one was surface active and feeding and the other surface active and travelling; two groups were noted as travelling and one as feeding. The one group sighted on 6 September 2016 was noted as feeding. Of the four groups sighted on the 21 September 2016, two were engaged in multiple behaviours which were travelling and feeding and, the second group, travelling and milling. One group was with another vessel which was photographing them, the behavior was classified as "other" and the fourth group's behavior could not be determined (unknown). No calf was sighted in September 2016.
- 6.5.5 Environmental site inspection was carried out 5 times in September 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 One (1) water guality complaint was referred to the ENPO at 10:50 am on the 22 September 2016 by EPD; ENPO referred this complaint to this Contract on the same day. With referred to a complaint lodged by a member of the public about whitish effluent discharged from two flattop barges which departs from Tuen Mun on a daily basis. The complainant stated that the whitish effluent was discharged from these barges at sea area outside cellular structure cell no. C054 - C055 between 18:00 to 04:00.
- 6.6.2.1 Investigation actions:
  - Review of the information provided by the complainant
  - Checking whether there is any flattop barge of this Contract HY/2010/02 travel from Tuen Mun on a daily basis
  - Review of impact water quality monitoring (IWQM) data recorded between 1 and 22 September 2016.
- 6.6.2.2 Investigation results:
  - After checking with the Contractor, there was no flattop barge travelled from Tuen Mun for this Contact HY/2010/02 on a daily basis in September 16.
  - IWQM data recorded at monitoring station close to cellular structure cell no. C054 C055 such as IS(Mf)6, IS(Mf)9 and IS17 from 1 - 22 September 2016 were reviewed, no action or limit level



Hong Kong Boundary Crossing Facilities – Reclamation Works Monthly EM&A Report for September 2016 exceedance was recorded. As such, the IWQM data indicated that the water quality at near cellular structure cell no. C054 – C055 were not adversely affected during monitoring.

- As such, after investigation, there is no adequate information to conclude the complaint is related to this Contract.
- Nevertheless, the Contractor was reminded to continue to fully maintain all water quality mitigation measures
- 6.6.3 No notification of summons or prosecution was received in the reporting period.
- 6.6.4 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 October and November 2016 will be \*:-

## Marine-base

- Sloping Seawalls
- Rubble Mound Seawall
- Maintenance of silt curtain

## Land-base

- Surcharge removal & laying
- Construction of Permanent Seawall
- 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 October and November 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 of October 2016 is provided in Appendix F.

## 8 CONCLUSIONS AND RECOMMENDATIONS

## 8.1 Conclusions

- 8.1.1 For impact air quality monitoring, no exceedance was recorded at all monitoring stations in the reporting month.
- 8.1.2 For construction noise, no exceedance was recorded at all monitoring stations in the reporting month.
- 8.1.3 1 (One) action level exceedance of suspended solids was recorded at IS5 during ebb tide on 2 September 2016 and 2 (Two) action level exceedances of suspended solids were recorded at SR5 and SR7 during flood tide on 19 September 2016. After investigation, there is no adequate information to conclude the recorded exceedances are related to this Contract.
- 8.1.4 For dolphin monitoring, a total of 10 sightings were made, seven "on effort" and three "opportunistic". Five sightings were recorded on the 5 September 2016, one was on 6 September 2016 and four were recorded on 21 September 2016. Five groups sighted on the 5 September 2016. Two groups were engaged in multiple behaviours, one was surface active and feeding and the other surface active and travelling; two groups were noted as travelling and one as feeding. The one group sighted on 6 September 2016 was noted as feeding. Of the four groups sighted on the 21 September 2016, two were engaged in multiple behaviours which were travelling and feeding and, the second group, travelling and milling. One group was with another vessel which was photographing them, the behavior was classified as "other" and the fourth group's behavior could not be determined (unknown). No calf was sighted in September 2016.
- 8.1.5 One (1) water quality complaint was referred to the ENPO at 10:50 am on the 22 September 2016 by EPD; ENPO referred this complaint to this Contract on the same day. With referred to a complaint lodged by a member of the public about whitish effluent discharged from two flattop barges which departs from Tuen Mun on a daily basis. The complainant stated that the whitish effluent was discharged from these barges at sea area outside cellular structure cell no. C054 C055 between 18:00 to 04:00, causing pollution, after investigation, there is no adequate information to conclude the complaint is related to this Contract.
- 8.1.6 No notification of summons or prosecution was received in the reporting period.
- 8.1.7 Environmental site inspection was carried out 5 times in September 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.

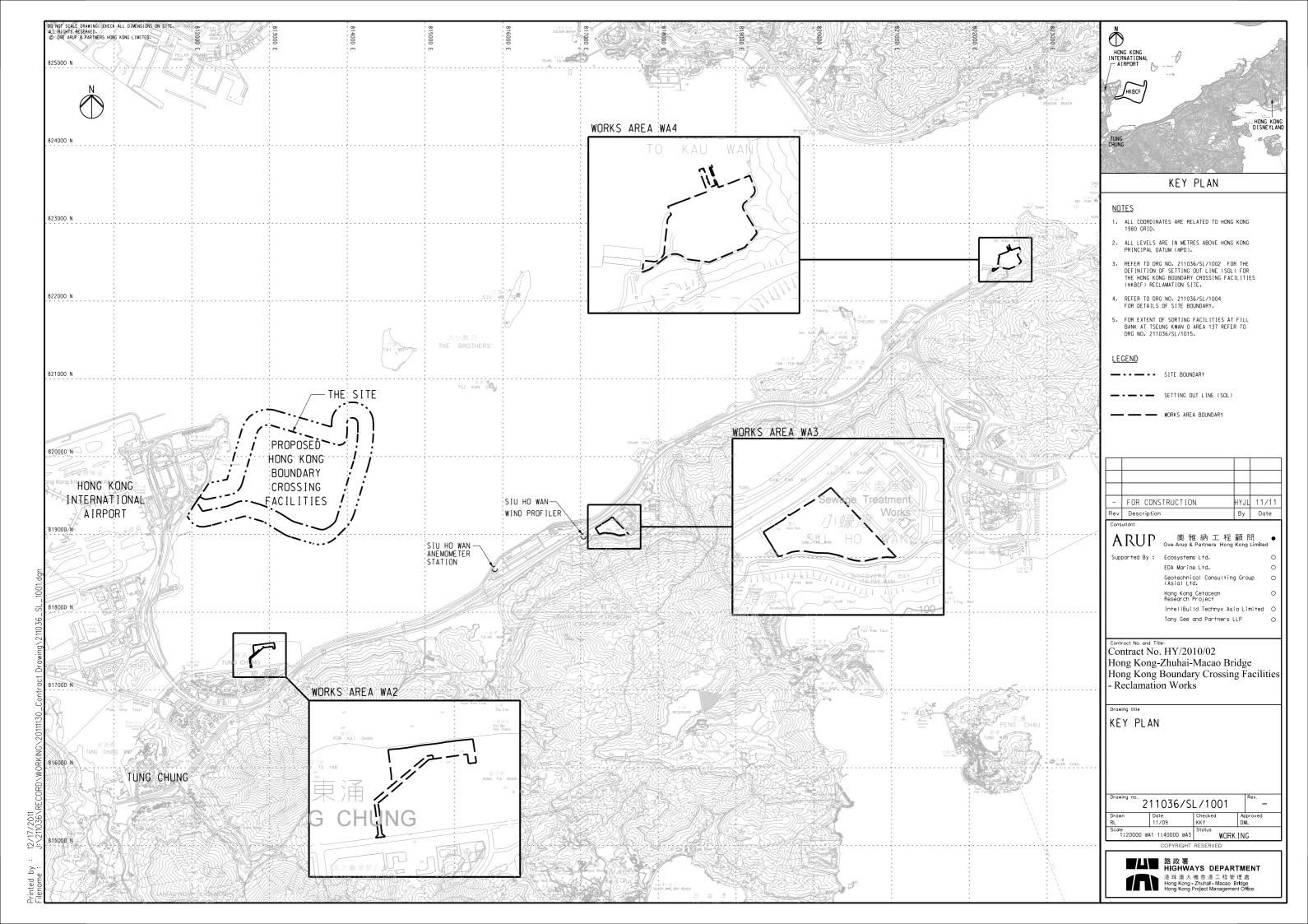


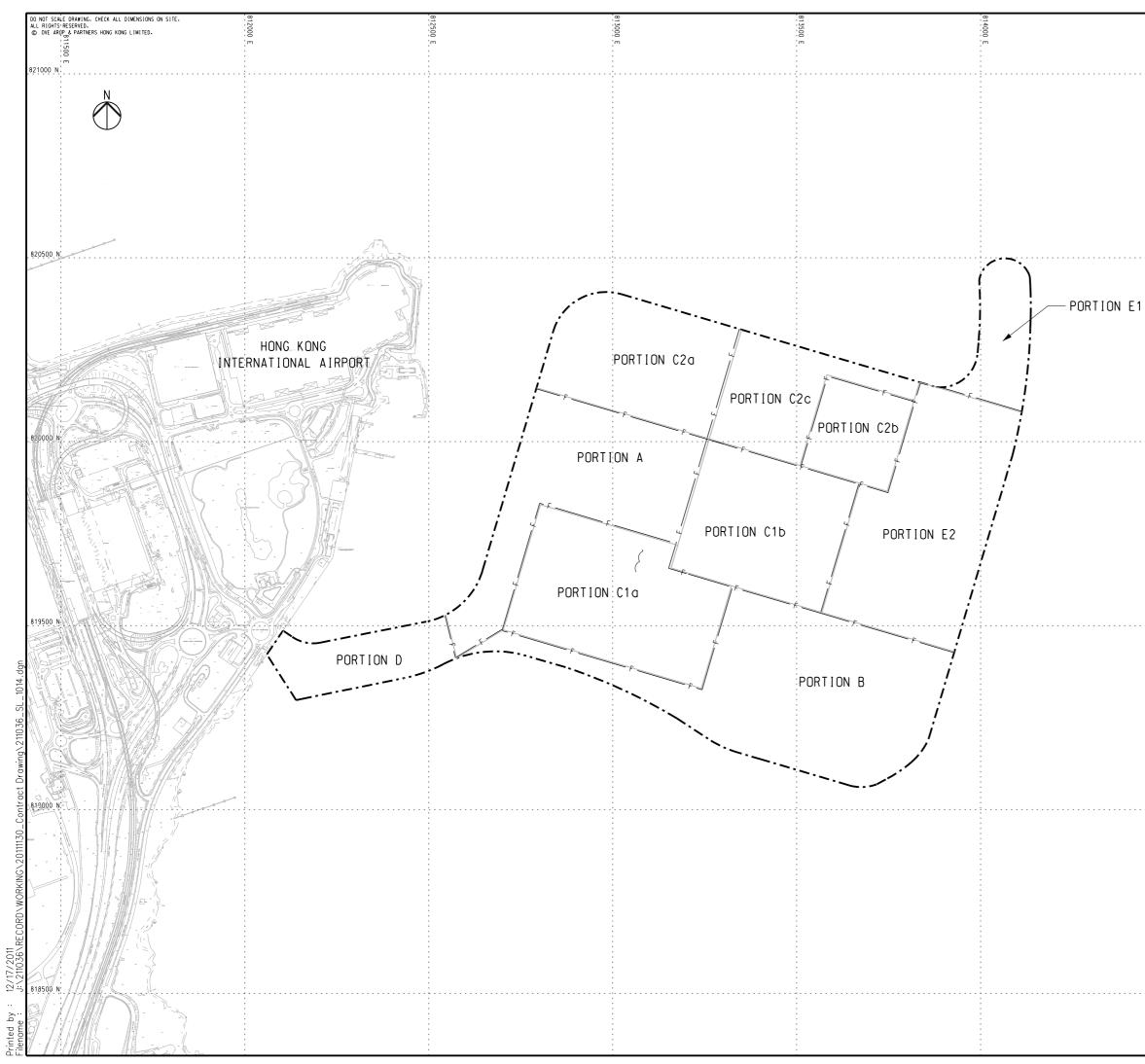
## Chemical and Waste Management

- 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.

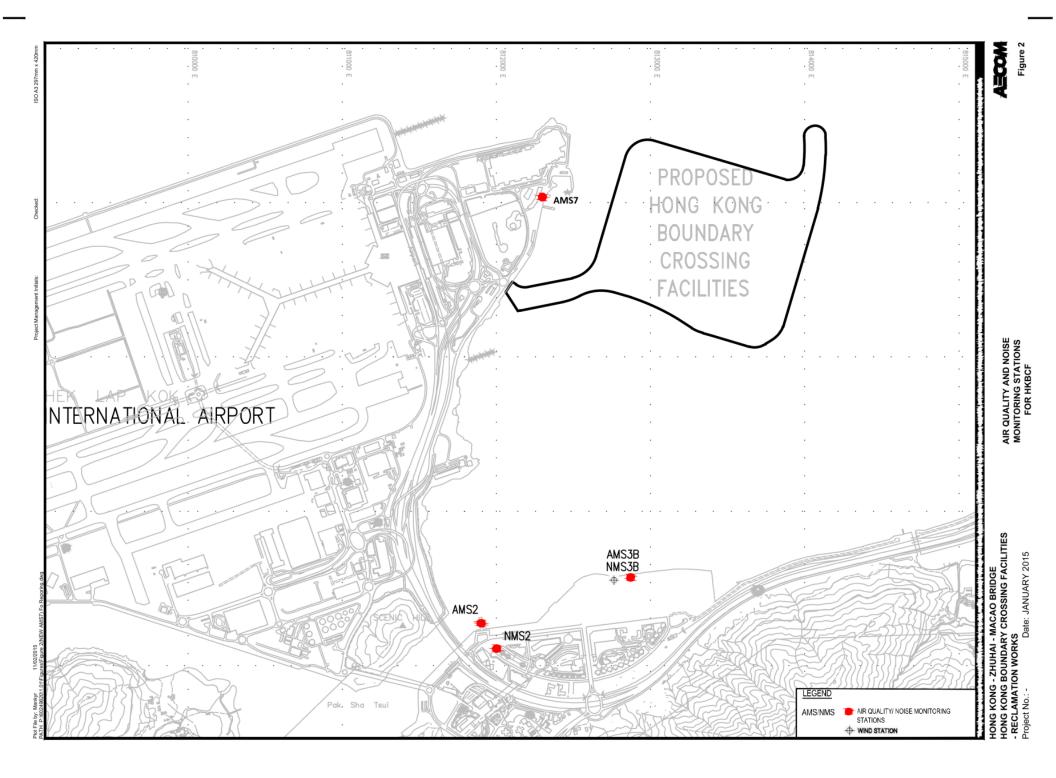
## Landscape and Visual Impact

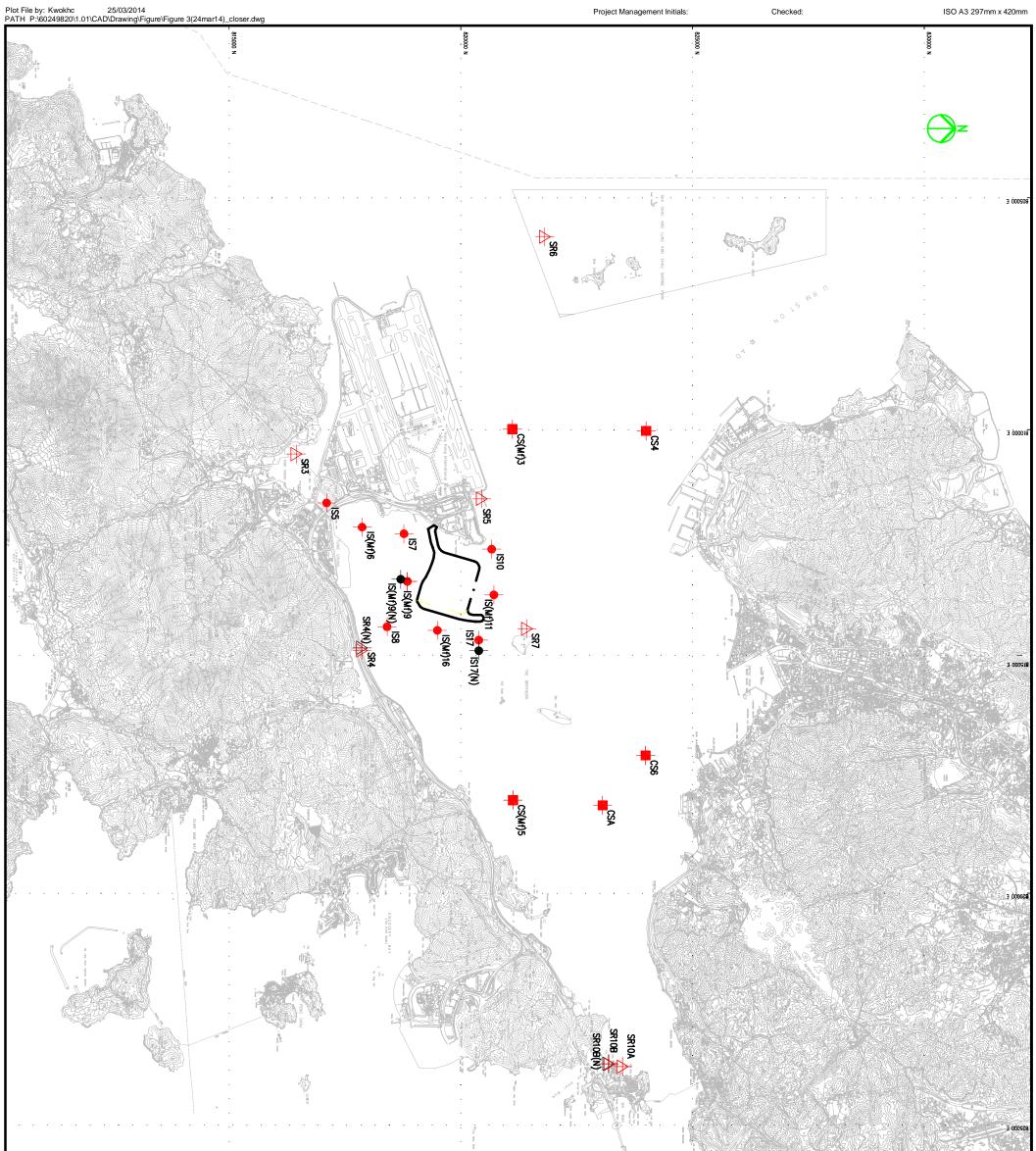
- All existing, retained/transplanted trees at the works areas should be properly fenced off and regularly inspected.
- Control night-time lighting and glare by hooding all lights.





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	HONG KONG INTERNATIONAL
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	HONG KONG DISNEYLAND
	TUNG CHUNG
	KEY PLAN
	NOTES
	<ul> <li>FOR LEGENDS AND NOTES FOR CHAIN LINK FENCE AND GATE REFER TO DRG ND. 211036/SL/1013.</li> </ul>
	<ol> <li>THE ERECTION OF CHAIN LINK FENCE AND GATES SHALL BE COMPLETED BY THE HANDOVER DATE OF</li> </ol>
	EACH PORTION OF SITE, OR AS INSTRUCTED BY THE ENGINEER.
	<ol> <li>FOR SETTING OUT COORDINATES OF DIFFERENT PORTIONS OF SITE REFER TO DRG NO. 211036/SL/1003.</li> </ol>
	<ol> <li>ACCESS POINTS BETWEEN PORTIONS SHALL BE PROVIDED BY THE CONTRACTOR, AND THE LOCATIONS SHALL BE AGREED WITH THE ENGINEER ON SITE.</li> </ol>
	<ol> <li>FOR HOARDING AND FENCE AT FILL BANK AT TSEUNG KWAN O AREA 137 REFER TO DRG NO. 211036/SL/1015.</li> </ol>
	LEGEND
	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





MONITORING STATIONS	EASTING	ING NORTHING
IS5	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

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

- RECLAMATION WORKS

Project No.: -Date: MAR 2014

## WATER QUALITY MONITORING STATION



IMPACT STATIONS

↓ IEGEND

CONTROL / FAR FIELD STATIONS

ខ

SENSITIVE RECEIVERS STATIONS

₽ SR

SENSITIVE RECEIVERS STATIONS (RELOCATED)

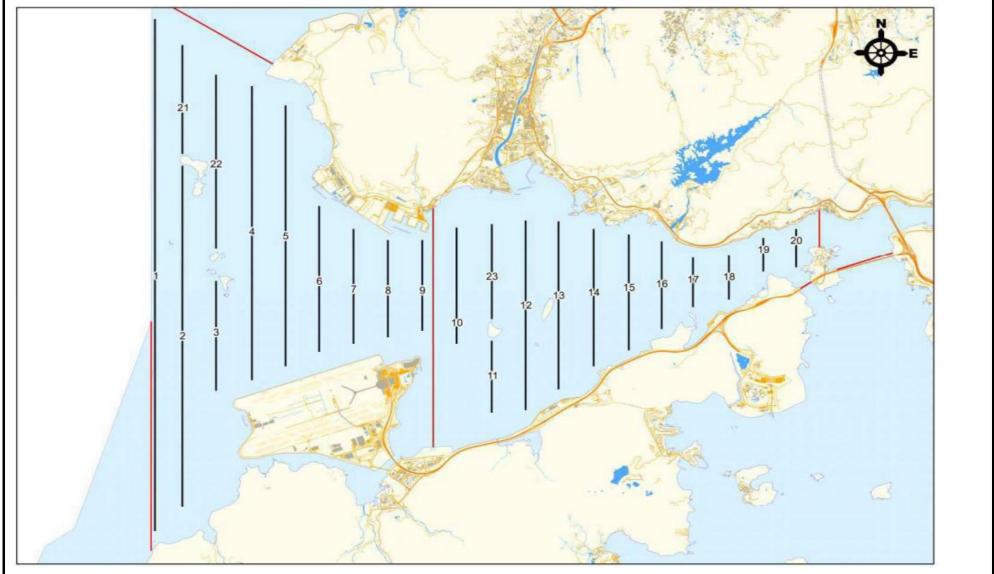
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IMPACT STATIONS (RELOCATED)

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# SETTING SCHFDUI F

Figure 3



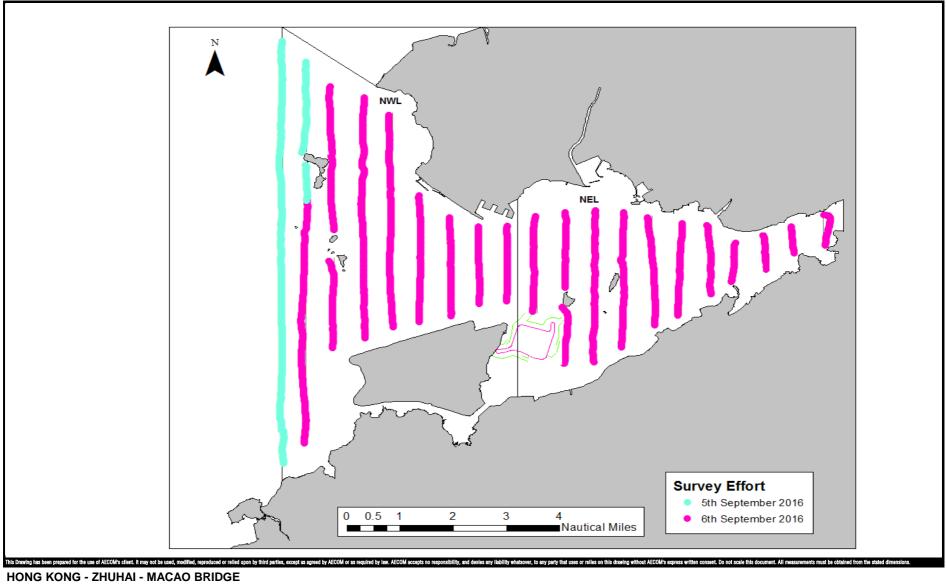
#### Remarks:

\*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

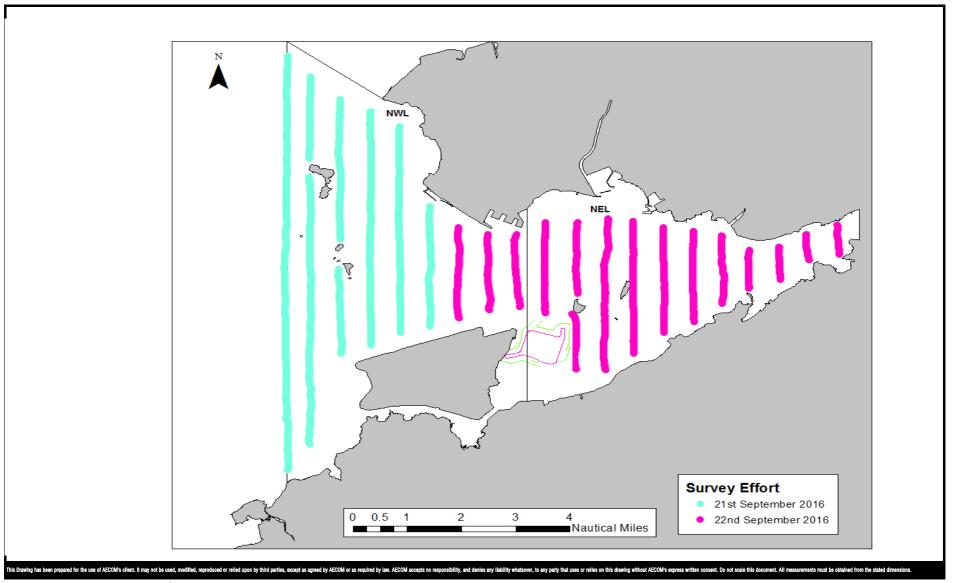
Impact Dolphin Monitoring Line Transect Layout Map

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

Impact Dolphin Monitoring Survey Efforts on 5 & 6 September 2016

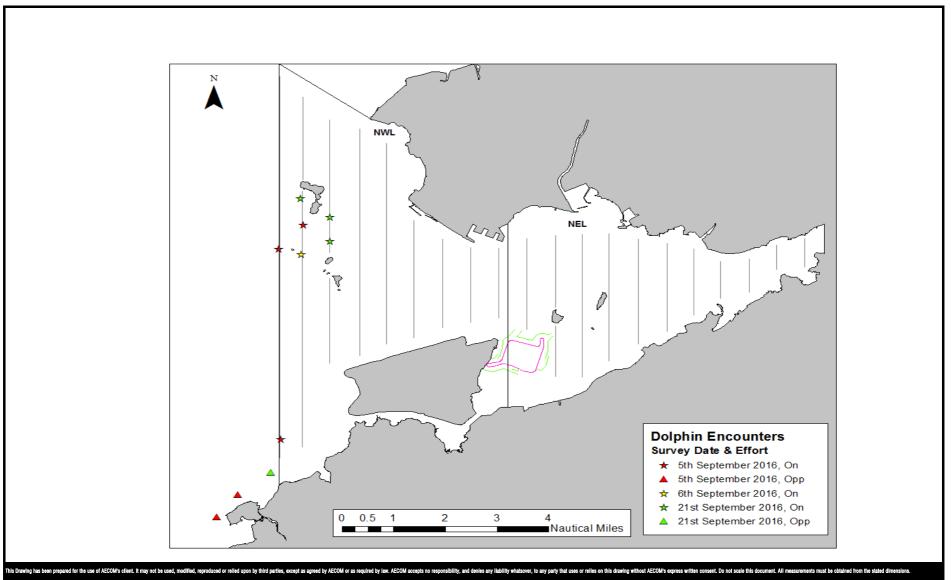


HONG KONG - ZHUHAI - MACAO BRIDGE HONG KONG BOUNDARY CROSSING FACILITIES

- RECLAMATION WORKS Project No.: 60249820 Date: O

Date: October 2016

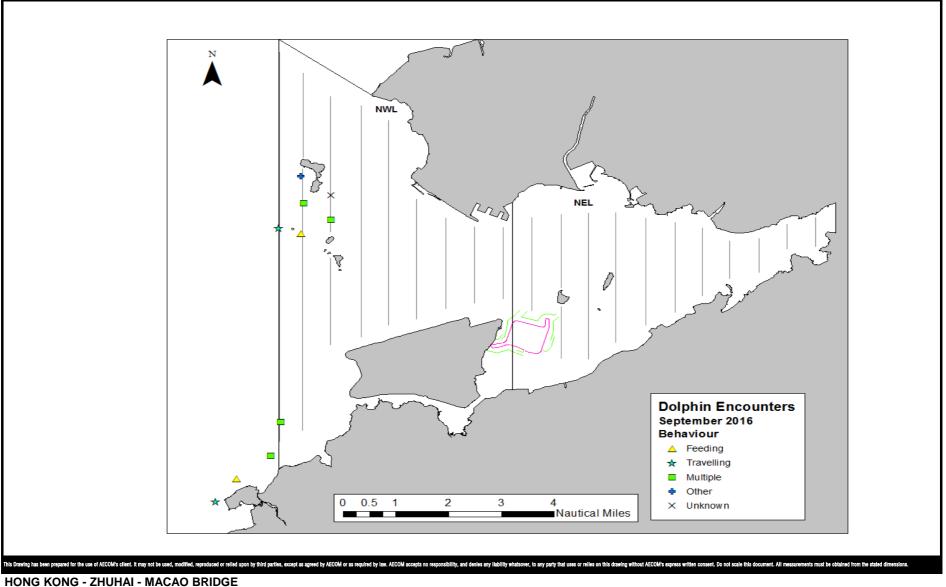
Impact Dolphin Monitoring Survey Efforts on 21 and 22 September 2016



## HONG KONG - ZHUHAI - MACAO BRIDGE

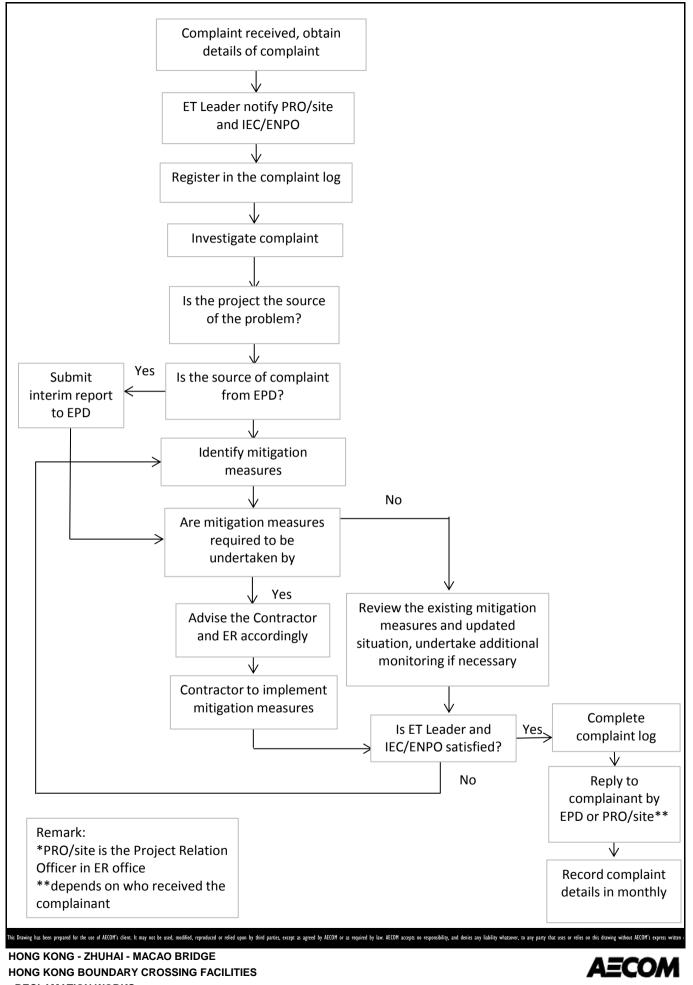
HONG KONG BOUNDARY CROSSING FACILITIES - RECLAMATION WORKS Project No.: 60249820 Date: October 2016

Impact Dolphin Monitoring Survey Sightings in September 2016



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

Impact Dolphin Monitoring Survey Behaviour Map in September 2016



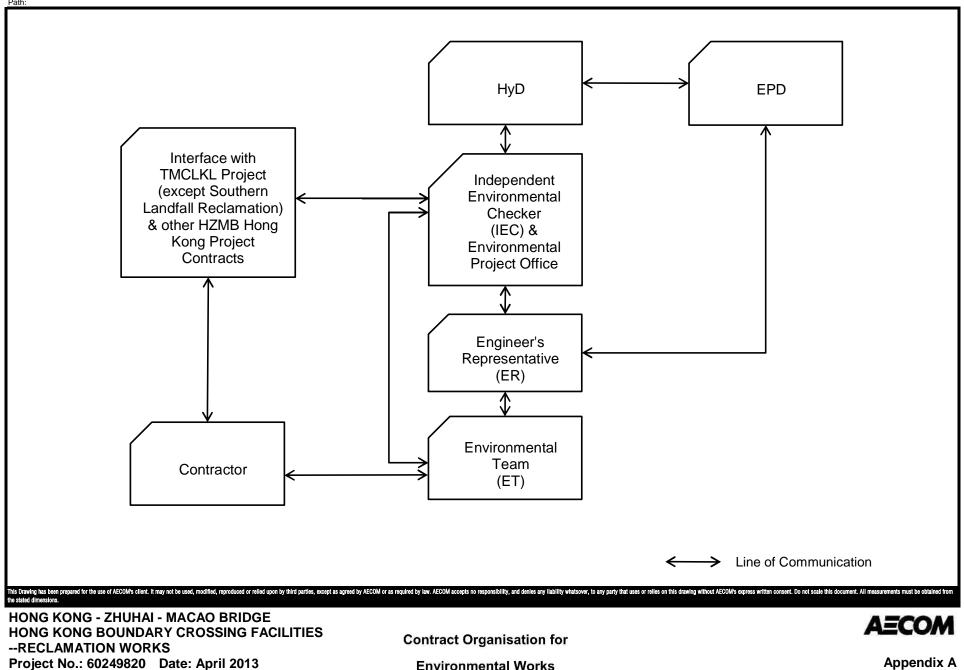
- RECLAMATION WORKS

### **Environmental Complaint Handling Procedure**



Checked:

ISO A4 210mm X 297mm

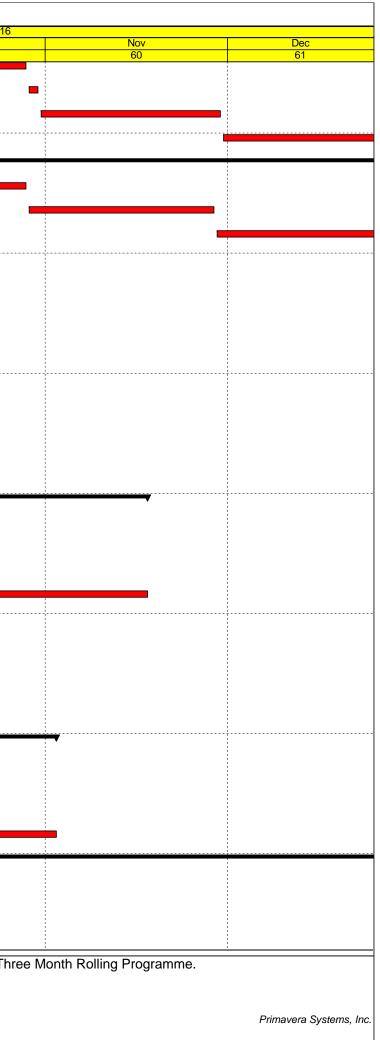


**Environmental Works** 

Appendix A

tract No. HY/2010/02 Hong Kong - Zhuhai - Macao Brid	Original Start	Finish	Total		201		
	Duration		Float	Sep 58	Oct 59	Nov 60	Dec 61
th Monthly Progress Report Status as on 21Sep2016	1050 22-Mar-14 A	03-Feb-17	317				
ork Zone, as defined in PS Clause 1.03(6)	1050 22-Mar-14 A	03-Feb-17	317				
ortion A, B, C & E	1050 22-Mar-14 A	03-Feb-17	317				
Portion A, B, C & E	1050 22-Mar-14 A	03-Feb-17	317				
Seawall	446 16-Nov-15 A	03-Feb-17	317				
Optimizing Rubble Mound Seawalls	427 01-Dec-15 A	03-Feb-17	317				
Rock Armour	427 01-Dec-15 A	03-Feb-17	317				
Seawall Portion A C120-C134 Ch5+050 - Ch5+650	179 01-Dec-15 A	15-Sep-16 A		7			
RFA0-030 PA at C118 - C134 Rock Armour (1-3ton 30,840m3 & 0.3-1ton 14,466m3 244m3	/day) 179 01-Dec-15 A	15-Sep-16 A					
Seawall Portion B K013-K027 Ch0+450 - Ch1+100	126 01-Sep-16 A	03-Feb-17	317				
RFB0-010 PB at K013 - K027 Removal of Temporary Rockfill (170,000m3, 1,500m3/day)	114 01-Sep-16 A	23-Dec-16	317				
RFB0-020 PB at K013 - K027 Cat1 (16,900m3, 1000m3/day)	98 01-Oct-16	06-Jan-17	317				
RFB0-030 PB at K013 - K027 Underlayer (200-500kg) 16,832m3 1000m3/day	98 15-Oct-16	20-Jan-17	317				
RFB0-040 PB at K013 - K027 Rock Armour (0.3-1 ton 33904m3 244m3/day)	98 29-Oct-16	03-Feb-17	317				
Seawall Portion C2a C113-C119 Ch4+710 - Ch5+050	155 21-Jul-16 A	22-Dec-16	360				
RFC2a010 PC2a at C113 - C117 Removal of Temporary Rockfill (190,000m3, 1,500m3/day)	127 21-Jul-16 A	24-Nov-16	360				
RFC2a030 PC2a at C113 - C117 Underlayer 21,600m3 1000m3/day	111 20-Aug-16 A	08-Dec-16	360				
RFC2a040 PC2a at C113 - C117 Rock Armour (0.3-1 ton 33904m3 305m3/day)	111 12-Sep-16 A	22-Dec-16	360				
Conforming Sloping Seawalls	417 16-Nov-15 A	05-Jan-17	346				
Rock Armour - Before Surcharge Period	417 16-Nov-15 A	05-Jan-17	346				
ACP1-00030 Precasting Accropode (18,092nos), 90nos/day	265 16-Nov-15 A	09-Sep-16 A					
Portion E1 & E2 In Front of Cells Ch1+990 - 3+810	163 18-Jul-16 A	30-Dec-16	352				
Portion E2 Ch2+260 - Ch2+430	33 21-Aug-16 A	09-Oct-16	-612				
RFE2-110 PE2 Ch2+260 - Ch2+430 Trimming at the toe (170m)	17 21-Aug-16 A	06-Sep-16 A					
RFE2-120 PE2 Ch2+260 - Ch2+430 Geotextile	3 06-Sep-16 A	09-Sep-16 A					
RFE2-130 PE2 Ch2+260 - Ch2+430 10-60kg Underlayer	6 09-Sep-16 A	15-Sep-16 A					
RFE2-140 PE2 Ch2+260 - Ch2+430 1-3ton Armour	24 15-Sep-16 A	09-Oct-16	-612				
Portion E2 Ch2+630 - Ch2+750	62 17-Aug-16 A	17-Oct-16	-620				
RFE2-330 PE2 Ch2+630 - Ch2+750 10-60kg Underlayer	15 17-Aug-16 A	31-Aug-16 A					
RFE2-340 PE2 Ch2+630 - Ch2+750 1-3ton Armour	47 01-Sep-16 A	17-Oct-16	-620				
Portion E2 Ch2+750 - Ch2+870	77 21-Sep-16	06-Dec-16	-649				
RFE2-405 PE2 Ch2+750 - Ch2+870 Area Released by DBJV	0 21-Sep-16		-677	•			
RFE2-410 PE2 Ch2+750 - Ch2+870 Trimming at the toe (120m)	14 21-Sep-16*	04-Oct-16	-677				
RFE2-420 PE2 Ch2+750 - Ch2+870 Geotextile	2 05-Oct-16	06-Oct-16	-649				
RFE2-430 PE2 Ch2+750 - Ch2+870 10-60kg Underlayer	30 07-Oct-16	05-Nov-16	-649				
RFE2-440 PE2 Ch2+750 - Ch2+870 1-3ton Armour	31 06-Nov-16	06-Dec-16	-649				
Portion E1 Ch2+870 - Ch2+980	87 05-Oct-16	30-Dec-16	-673		▼		
<ul> <li>Remaining Level of Effort          <ul> <li>Actual Level of Effort</li> <li>Summary</li> </ul> </li> </ul>		58th Monthly Prog		Status as on 21Sep2016	ASK filters: Site Works_1, T	hree Month Rolling Programme.	
Actual Level of Enon			Page 1 c	)T <i>(</i>			
<ul> <li>Remaining Work</li> <li>Critical Remaining Work</li> </ul>							Primavera Sy

D	Activity Name		Original Start	Finish	Total Float	Sep		Oct
			Duration			58		59
RFE1b-010	PE1 Ch2+870 - Ch2+980 Trimm		24 05-Oct-16*	28-Oct-16	-677			
RFE1b-020	PE1 Ch2+870 - Ch2+980 Geote:		2 29-Oct-16	30-Oct-16	-673			
RFE1b-030	PE1 Ch2+870 - Ch2+980 10-60k		30 31-Oct-16	29-Nov-16	-673			
RFE1b-040	PE1 Ch2+870 - Ch2+980 1-3ton	Armour	31 30-Nov-16	30-Dec-16	-673			
Portion E1 C	12+980 - Ch3+160		162 18-Jul-16 A	29-Dec-16	-668			
RFE1b-050	PE1 Ch2+980 - Ch3+160 Remov	val of temporary rockfill	15 18-Jul-16 A	28-Oct-16	-668		-	
RFE1b-060	PE1 Ch2+980- Ch3+160 Geotex	tile & Underlayer 10-60kg 15m/day	31 29-Oct-16	28-Nov-16	-668			
RFE1b-070	PE1 Ch2+980 - Ch3+160 Rock A	Armour 1-3ton	31 29-Nov-16	29-Dec-16	-668			
Portion E1 C	13+160 - Ch3+250		28 21-Aug-16 A	14-Oct-16	429			V
RFE1b-110	PE1 Ch3+160-Ch3+250 Trimmin	g at the toe (180m)	18 21-Aug-16 A	07-Sep-16 A				
RFE1b-120	PE1 Ch3+160-Ch3+250 Geotext	ile	4 08-Sep-16 A	11-Sep-16 A				
RFE1b-130	PE1 Ch3+160-Ch3+250 10-60kg	Underlayer	6 12-Sep-16 A	17-Sep-16 A				
RFE1b-140	PE1 Ch3+160-Ch3+250 1st laye	r 2-5ton Rock Armour	3 18-Sep-16 A	20-Sep-16 A				
RFE1b-150	PE1 Ch3+160-Ch3+250 100-200	kg Underlayer	8 18-Sep-16 A	20-Sep-16 A				
RFE1b-160	PE1 Ch3+160-Ch3+250 1st 6 ro	ws Accropode (684nrs)	9 21-Sep-16	29-Sep-16	441			
RFE1b-170	PE1 Ch3+160-Ch3+250 2nd lyae	er 2-5ton Rock Armour	3 30-Sep-16	02-Oct-16	441		<b>—</b>	
RFE1b-180	PE1 Ch3+160-Ch3+250 2nd Acc	ropode (1116nrs)	14 15-Sep-16 A	04-Oct-16	-596			
RFE1b-190	PE1 Ch3+160-Ch3+250 3rd 2-5t	on Rock Armour	10 05-Oct-16	14-Oct-16	-596			
Portion E1 C	13+250 - Ch3+340		59 20-Aug-16 A	17-Nov-16	-630			
RFE1b-260	PE1 Ch3+250-Ch3+340 1st 6 ro	ws Accropode (608nrs)	8 20-Aug-16 A	27-Aug-16 A				
RFE1b-270	PE1 Ch3+250-Ch3+340 2nd lyae	er 2-5ton Rock Armour	3 28-Aug-16 A	30-Aug-16 A				
RFE1b-280	PE1 Ch3+250-Ch3+340 2nd Acc	ropode (992nrs)	19 15-Sep-16 A	03-Oct-16	-630			
RFE1b-290	PE1 Ch3+250-Ch3+340 3rd 2-5t	on Rock Armour	45 04-Oct-16	17-Nov-16	-630			
Portion E1 C	n3+340 - Ch3+510		39 11-Aug-16 A	10-Oct-16	-592			
RFE1b-360	PE1 Ch3+340-Ch3+510 1st 6 ro	ws Accropode (684nrs)	9 11-Aug-16 A	15-Sep-16 A				
RFE1b-370	PE1 Ch3+340-Ch3+510 2nd lyae	er 2-5ton Rock Armour	3 16-Sep-16 A	18-Sep-16 A			1	
RFE1b-380	PE1 Ch3+340-Ch3+510 2nd Acc	ropode (1116nrs)	14 15-Sep-16 A	30-Sep-16	-592			
RFE1b-390	PE1 Ch3+340-Ch3+510 3rd 2-5t	on Rock Armour	10 01-Oct-16	10-Oct-16	-592		-	
Portion E1 C	13+510 - Ch3+810		63 01-Aug-16 A	02-Nov-16	-615			
RFE1b-460	PE1 Ch3+510-3+810 1st 6 rows	Accropode (760nrs)	10 01-Aug-16 A	08-Sep-16 A				
RFE1b-470	PE1 Ch3+510-3+810 2nd lyaer 2		6 09-Sep-16 A	14-Sep-16 A				
RFE1b-480	PE1 Ch3+510-3+810 2nd Accrop		16 15-Sep-16 A	30-Sep-16	-615			
RFE1b-490	PE1 Ch3+510-3+810 3rd 2-5ton	. ,	33 01-Oct-16	02-Nov-16	-615		-	
	E2 on Cells C049 - C091		230 01-May-16 A	05-Jan-17	-679			
Portion E2 C			94 07-Aug-16 A	22-Oct-16	-625			
PFE2a-130	PE2 C049-C059 10-60kg Underla	aver	20 07-Aug-16 A	15-Sep-16 A				
PFE2a-130	PE2 C049-C059 10-00kg Ondena PE2 C049-C059 2-5ton Rock Arr		37 16-Sep-16 A	22-Oct-16	-625			
11 E2a-140			31 10-Sep-10 A					
•	vel of Effort   Milestone			58th Monthly Progr		tus as on 21Sep2016	TASK f	filters: Site Wor
Actual Level of Actual Work	f Effort VIII Summary				Page 2 of 7			



)	Activity Name	Original Start Duration	Finish	Total Float	Sep	2016 Oct	Nov	Dec
Portion E2 C	060-C067 & E1 C068-C070	77 21-Sep-16	06-Dec-16	-670	58	59	60	61
RFE2a-200	PE2 Area released by DBJV	0 21-Sep-16		-670	••••••			
RFE2a-210	PE2 C060-C067 & PE1 C068-C070 Trimming	24 21-Sep-16	14-Oct-16	-670				
RFE2a-220	PE2 C060-C067 & PE1 C068-C070 Geotextile	6 15-Oct-16	20-Oct-16	-670				
RFE2a-230	PE2 C060-C067 & PE1 C068-C070 10-60kg Underlayer	15 21-Oct-16	04-Nov-16	-670				
RFE2a-240	PE2 C060-C067 & PE1 C068-C070 2-5ton Rock Armour	32 05-Nov-16	06-Dec-16	-670				
Portion E1 C0	071-C076	77 21-Oct-16	05-Jan-17	-679				1 
RFE1a-110	PE1 C071-C076 Trimming	24 21-Oct-16*	13-Nov-16	-679				
RFE1a-120	PE1 C071-C076 Geotextile	6 14-Nov-16	19-Nov-16	-679				
RFE1a-130	PE1 C071-C076 10-60kg Underlayer	15 20-Nov-16	04-Dec-16	-679				
RFE1a-140	PE1 C071-C076 2-5ton Rock Armour	32 05-Dec-16	05-Jan-17	-679				
Portion E1 C0	077-C079	82 11-Jul-16 A	20-Oct-16	-679				
RFE1a-220	PE1 C077-C079 Geotextile	2 11-Jul-16 A	09-Sep-16 A					
RFE1a-230	PE1 C077-C079 10-60kg Underlayer	10 23-Jul-16 A	30-Sep-16	-674				
RFE1a-240	PE1 C077-C079 2-5ton Rock Armour	30 21-Sep-16	20-Oct-16	-679				
Portion E1 C	086-C091	157 01-May-16 A	24-Oct-16	-606				
RFE1a-410	PE1 C086-C091 Trimming	12 01-May-16 A	07-Sep-16 A					
RFE1a-420	PE1 C086-C091 Geotextile	3 08-Sep-16 A	10-Sep-16 A					
RFE1a-430	PE1 C086-C091 10-60kg Underlayer	10 11-Sep-16 A	20-Sep-16 A					
RFE1a-440	PE1 C086-C091 2-5ton Rock Armour	34 21-Sep-16	24-Oct-16	-606				
Portion C2c &	2 C2b At C090 - C101 (Ch3+810 - Ch4+262)	92 21-Apr-16 A	30-Sep-16	-39				
BF-RFC2c-060	PC2c at C091 - C101 in front of cells Rock Armour 2-5ton 20,296m3 221m3/day	92 21-Apr-16 A	30-Sep-16	-39				
Portion C2a At	t C102 - C112 (Ch4+262 - Ch4+710)	226 21-Mar-16 A	31-Oct-16	-329				
BF-RFC2a-010	0 PC2a at C102 - C112 on cells Removal of temporary rockfill	41 21-Mar-16 A	15-Sep-16 A					
BF-RFC2a-020	0 PC2a at C102 - C112 on cells Geotextile & Underlayer 10-60kg 10907m3 200m3/day	55 21-Apr-16 A	15-Sep-16 A					
BF-RFC2a-030	0 PC2a at C102 - C112 on cells Rock Armour 2-5ton m3 25,210m3 221m3/day	42 21-Aug-16 A	01-Oct-16	-299				
BF-RFC2a-040	0 PC2a at C102 - C112 in front of cells Removal of temporary rockfill 31,987m3	32 21-Apr-16 A	31-Aug-16 A					
BF-RFC2a-050	0 PC2a at C102 - C112 Accropode 5,226nrs 60nrs/day	87 17-May-16 A	01-Oct-16	-329				
BF-RFC2a-060	0 PC2c at C102 - C112 in front of cells Rock Armour 2-5ton 19,855m3 221m3/day	30 02-Oct-16	31-Oct-16	-329	•		-	
rcharge		322 13-Mar-16 A	15-Jan-17	336				
nd Portion B		68 13-Jul-16 A	30-Sep-16	-639				
dge Areas		68 13-Jul-16 A	30-Sep-16	-639				
SURB0-090	Completion of Section B in Edge Areas	0	30-Sep-16*	-639	•			
at K013 - K027		41 28-Jul-16 A	30-Sep-16	-750				
SUEB0-050	PB Edge Area K013-K027 Sand Surcharge Removal 84,258m3 + 20,880m3(C1a) 10.000m3/day	31 28-Jul-16 A	30-Sep-16	-689				
SUEB0-120	PB Edge Area K013-K027 Completion (Target Date = 31Dec2014)	0	30-Sep-16*	-750	•			
at K028 - K035	5	68 13-Jul-16 A	31-Aug-16 A					
Remaining Lev	vel of Effort   Milestone		58th Monthly Prog	jress Repo	rt Status as on 21Sep2016 TASK	filters: Site Works_1, Three	Month Rolling Programme.	
Actual Level of	of Effort Vurmary			Page 3	3 of 7			
Actual Work Remaining Wo								Primavera Sys

ID	Activity Name	Original Duration		Finish	Total Float	Sep	2016 Oct
				24 Aug 40 A		58	59
SUEB0-100	PB Edge Area K028-K035 Sand Surcharge Removal 49,985m3 + 14,904m3 5,000m3/day		13-Jul-16 A	31-Aug-16 A			
SUEB0-110	PB Edge Area K028-K035 Completion (Target Date = 31Dec2014)	0		31-Aug-16 A	100		
Land Portion C2	a 		13-Mar-16 A	28-Dec-16	-402		
Edge Areas			13-Mar-16 A	28-Dec-16	-402		
	lixing Works at C101 - C103		21-Sep-16	25-Sep-16	-727		
DCM-3072	PC2a Edge Area C101-C103 Instructed by the Engineer		21-Sep-16		-727		
DCM-3080	PC2a Edge Area C101-C103 Surcharge Removal 36,000m3	5	21-Sep-16	25-Sep-16	-727		
DCM-3090	PC2a Edge Area C101-C103 Completion at 43-73m	0		25-Sep-16	-727	•	
VO - Deep Cem	ent Mixing Works at C104 - C107	246	5 13-Mar-16 A	13-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		
DCM-4190	PC2a Edge Area C104-C107 Surcharge Removal 26,667m3 5,000m3/day	6	08-Nov-16	13-Nov-16	-599		
DCM-4200	PC2a Edge Area C104-C107 Completion of 43-73m	0		13-Nov-16*	-599		
VO - Deep Cem	ent Mixing Works at C108 - C109	243	21-Mar-16 A	18-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		
DCM-5190	PC2a Edge Area C108-C109 Surcharge Removal 13333m3 5,000m3/day	3	16-Nov-16	18-Nov-16	-604		
DCM-5200	PC2a Edge Area C108-C109 Completion of 43-73m	0	)	18-Nov-16*	-604		
at C110 - C112	Cellular Seawall	240	03-May-16 A	28-Dec-16	-647		
VO - Deep Cer	nent Mixing Works at C110 - C112	240	03-May-16 A	28-Dec-16	-647		
DCM-4280	PC2a Edge Area C110-C112 Surcharge Period 8mths (Land Side) 28Dec2016	240	03-May-16 A	28-Dec-16	-647		
CH4+710 - CH5	+110 Rubble Mound Seawall	240	30-Apr-16 A	25-Dec-16	-399		
Deep Cement	Mixing at CH4+710 - CH4+880	240	30-Apr-16 A	25-Dec-16	-399		
DCM-5070	PC2a Ch4+710 - Ch4+880 Surcharge Monitoring 8mths (25Dec2016)		30-Apr-16 A	25-Dec-16	-399		
Land Portion C1			12-Sep-16 A	29-Sep-16	-739		•
Reclamation Are			12-Sep-16 A	29-Sep-16	-739	· · · · · · · · · · · · · · · · · · ·	<b>r</b>
C4			12-Sep-16 A	29-Sep-16	-739		<b>r</b>
SURC1a-152	PC1a South Sand Surcharge Removal instruction by the Engineer		12-Sep-16 A	20 000 10		•	
SURC1a-152	PC1a South East Land Area Sand Surcharge Removal (start on 23Sep2016)		23-Sep-16*	26-Sep-16	-679		
			23-Sep-16				1
SURC1a-170	PC1a South West Land Area Sand Surcharge Removal		•	29-Sep-16	-679		
SURC1a-180	Completion of Section C1aC4	0		29-Sep-16	-739		
Land Portion E2			21-Apr-16 A	22-Dec-16	-198		
North Part			21-Apr-16 A	22-Dec-16	-198		
Edge Areas - N		150	26-Jul-16 A	22-Dec-16	-198		
SUEE2-380	PE2 North Edge C3 Sand Surcharge Period as +11.5mPD 5mths (22Dec2016)	150	26-Jul-16 A	22-Dec-16	-198		
Edge Areas - N	orth (TM)	150	21-Apr-16 A	23-Sep-16	-611		
SUEE2-480	PE2 North Edge TM Sand Surcharge Period as +11.5mPD 5mths (17Sep2016)	150	21-Apr-16 A	17-Sep-16 A			
SUEE2-485	PE2 North Edge TM Sand Surcharge Removal instructed by the Engineer	0	21-Sep-16		-611	•	
SUEE2-490	PE2 North Edge TM Sand Surcharge Removal 14,600m3 5,000m3/day	3	21-Sep-16	23-Sep-16	-560	-	
Remaining Lev	el of Effort   Milestone			58th Monthly Prog	ress Report Statu	s as on 21Sep2016 TAS	SK filters: Site Works_1, Three
<ul> <li>Actual Level of</li> </ul>					Page 4 of 7		
Actual Work					-		

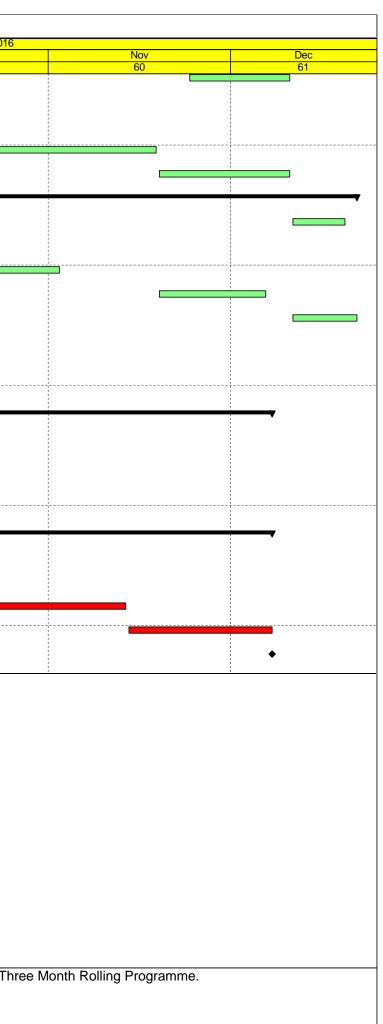
2016	Nov	Dec
	60	Dec 61
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1, Three M	onth Rolling Programme.	
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		Primavera Systems, Inc.

D Activity Name	Original Start Duration	Finish	Float	Sep	20 Oct	Nov	Dec
Edge Areas - East (TM) C064-C067	150 21-Apr-16 A	27-Sep-16	-612	58	59 •	60	61
SUEE2-150 PE2 East Edge C064-C067 Sand Surcharge Period as +11.5mPD 5mths (17Sep2016)	150 21-Apr-16 A	17-Sep-16 A					
SUEE2-155 PE2 North Edge C064-C067 Sand Surcharge Removal instructed by the Engineer	0 21-Sep-16		-608	•••••			
SUEE2-160       PE2 East Edge C064-C067 Sand Surcharge Removal 14,600m3 5,000m3/day	3 24-Sep-16	27-Sep-16	-560				
Land Areas - East (TM) C057 - C063 Ch2+300 to Ch2+600	18 21-Sep-16	08-Oct-16	-611				
SURE2-055 PE2 Land C057-C063 Removal of Surcharge instructed by the Engineer	0 21-Sep-16*		-604	•			
SURE2-060       PE2 Land C057-C063 Tunnel Sand Surcharge Removal at tunnel area 107,437m3	11 28-Sep-16	08-Oct-16	-560				
10.000m3/day	-		-560				
Land Areas - West (C3)	16 18-Aug-16 A	31-Aug-16 A					
SURE2-190 PE2 Land C061-C064 Non-Tunnel Sand Surcharge Removal non tunnel Area 147,437m3 10.000m3/day	15 18-Aug-16 A	31-Aug-16 A					
SURE2-299 Completion of Section PE2 in Land C061-C064 Non-tunnel Reclamation Area	0	31-Aug-16 A	•				
outh Part	150 21-Apr-16 A	10-Oct-16	-613				
Edge Areas East C058 to C063	150 21-Apr-16 A	02-Oct-16	-612				
SUEE2-040 PE2 Edge C058-C063 Sand Surcharge Period as +11.5mPD 5mths (17Sep2016)	150 21-Apr-16 A	17-Sep-16 A					
SUEE2-045 PE2 Edge C058-C063 Sand Surcharge Removal instructed by the Engineer	0 21-Sep-16		-612	•			
SUEE2-050 PE2 Edge C058-C063 Sand Surcharge Removal 100,481m3 10,000m3/day	11 21-Sep-16	02-Oct-16	-561				
VO DCM Edge Areas East C056 to C057	150 21-Apr-16 A	04-Oct-16	-607				
DCM-4380 PE2 Edge C056-C057 Surcharge Period 7mths (Land Side) (17Sep2016)	150 21-Apr-16 A	17-Sep-16 A					
DCM-4385 PE2 Edge C056-C057 Sand Surcharge Removal instructed by the Engineer	0 21-Sep-16		-600	•			
DCM-4390 PE2 Edge C056-C057 Surcharge Removal 5,000m3	2 03-Oct-16	04-Oct-16	-612				
DCM-4400 PE2 Edge C056-C057 Completion of 43-73m	0	04-Oct-16	-607		•		
Edge Areas East C052 to C055	150 21-Apr-16 A	10-Oct-16	-613				
SURE2-440 PE2 Edge C052-C055 300m Zone Sand Surcharge Period as +11.5mPD 5mths	150 21-Apr-16 A	17-Sep-16 A					
SURE2-445 PE2 Edge C052-C055 Sand Surcharge Removal instructed by the Engineer	0 21-Sep-16		-598	•			
SURE2-450 PE2 Edge C052-C055 300m Zone Sand Surcharge Removal 52,891m3 10,000m3/day	5 05-Oct-16	10-Oct-16	-561				
and Portion E1	190 16-Jul-16 A	15-Jan-17	-727				
dge Areas Southern Part	190 16-Jul-16 A	15-Jan-17	-727				
DCM-4460 PE1 Edge Area West Zone Additional DCM Works 927nrs by 3 plant	58 16-Jul-16 A	17-Sep-16 A					
SUEE1-040 PE1 Edge Area at South of C071 Surcharge Period as +11.5mPD 5mths 15Jan2017	150 19-Aug-16 A	15-Jan-17	-727				
and Portion C2b	257 22-Mar-16 A	03-Dec-16	-260				
idge Areas	153 04-Jul-16 A	03-Dec-16	-260				
SUEC2b-080 PC2b Edge Area Sand Surcharge Period as +11.5mPD 5mths (30Nov2016)	150 04-Jul-16 A	30-Nov-16	-260				
SUEC2b-090 PC2b Edge Area Sand Surcharge Removal 14,280m3 5,000m3/day	3 01-Dec-16	03-Dec-16	-242				
	0		-242				
SUEC2b-100 Completion of Section PC2b at Edge Area		03-Dec-16					
	194 22-Mar-16 A	30-Sep-16	-261				
	10 21-Sep-16	30-Sep-16	-261		<b>V</b>		
SURC2b-025 PC2b Main Area North Public Surcharge Removal instructed by the Engineer	0 21-Sep-16		-261				
SURC2b-030 PC2b Main Area North Public Surcharge Removal 42,609m3 5,000m3/day	9 21-Sep-16	30-Sep-16	-239				
Remaining Level of Effort   Milestone		58th Monthly Prog	ress Report Status as o	n 21Sep2016	TASK filters: Site Works_1, 1	hree Month Rolling Programme.	
Actual Level of Effort Variation Summary			Page 5 of 7				
Actual Work Remaining Work							Primavera Sys

y ID Activi	ity Name	Driginal Start	Finish	Total			2016		
	D	uration		Float	Sep 58	Oct 59		Nov 60	Dec 61
SURC2b-040 Comp	pletion of Section PC2b at Reclamation Area North	0	30-Sep-16	-261		•			
South		194 22-Mar-16 A	20-Sep-16 A						
SURC2b-036 PC2b	Main Area South PBF Surcharge Removal 137,244m3 5,000m3/day	46 22-Mar-16 A	20-Sep-16 A						
SURC2b-050 Comp	pletion of Section PC2b at Reclamation Area South	0	20-Sep-16 A		•				
Land Portion C2c		150 13-Jul-16 A	14-Dec-16	368					
Edge Areas		150 13-Jul-16 A	14-Dec-16	-115					
SUEC2c-040 PC2c	Edge Area Sand Surcharge Period 2nd stage 5mths (9Dec2016)	150 13-Jul-16 A	09-Dec-16	-245					
SUEC2c-050 PC2c	Edge Area Sand Surcharge Removal 51,411m3 10,000m3/day	5 10-Dec-16	14-Dec-16	-227					
SURC2c-050 Comp	pletion of Section PC2c at Edge Area	0	14-Dec-16	-115					•
Reclamation Areas		39 21-Sep-16	29-Oct-16	414			<b></b>		
West		20 21-Sep-16	10-Oct-16	-176		<b></b>			
SURC2c-W032 PC2c	Main Area PBF Surcharge Removal instructed by the Engineer	0	21-Sep-16	-196		•			
SURC2c-W040 PC2c	Main Area PBF Surcharge Removal 90162m3 10,000m3/day	18 21-Sep-16	10-Oct-16	-182					
SURC2c-W050 Comp	pletion of Section PC2c at Reclamation Area	0	10-Oct-16	-176		•			
East		39 21-Sep-16	29-Oct-16	414			<b></b>		
SURC2c-E035 PC2c	Main Area PBF Surcharge Removal instructed by the Engineer	0 21-Sep-16		453		•			
SURC2c-E040 PC2c	Main Area PBF Surcharge Removal 90163m3 10,000m3/day	18 11-Oct-16	29-Oct-16	-182					
SURC2c-E050 Comp	pletion of Section PC2c at Reclamation Area	0	29-Oct-16	-196			•		
Geotechnical Instrum	nentation Works	952 22-Mar-14 A	15-Jan-17	-710					
Geotechnical Instrumer	ntation Works for Seawalls	952 22-Mar-14 A	15-Jan-17	-710					
Cluster Type SC 3nrs S	Strain Guage and Inclinometer Cluster inside cells	952 22-Mar-14 A	15-Jan-17	-710					
SC-2 C074 Portion E1		952 22-Mar-14 A	15-Jan-17	-710					
CTSC2-030 Monit	toring of SC-2 C074 PE1 by Weekly until removal of surcharge	952 22-Mar-14 A	15-Jan-17	-710					
Portion D		123 01-Jul-16 A	21-Dec-16	361					
Site Construction		123 01-Jul-16 A	21-Dec-16	361					
C1 to C4		123 01-Jul-16 A	21-Dec-16	361					
Construction of Permar	nent Seawall	123 01-Jul-16 A	21-Dec-16	361					
Vertical Seawall Type		123 01-Jul-16 A	21-Dec-16	361					
Seawall Blocks Instal		18 19-Jul-16 A	17-Sep-16 A						
	1 West - Vertical Seawall Blocks V2 VSPD22-20 Type 2E & 2A 352nrs (20nrs/day)	18 19-Jul-16 A	17-Sep-16 A						
Rockfill Type 2 behind		3 01-Sep-16 A	03-Sep-16 A		·····				
	C1 West - Vertical Seawall V2 Rockf ill Type 2 VSOP22-20 1,400m3	3 01-Sep-16 A	03-Sep-16 A						
Geotextile Type 1		2 04-Sep-16 A	05-Sep-16 A						
	A West - Vertical Seawall V2 Geotextile Type 1 VSOP22-20 1,000m2	2 04-Sep-16 A 2 04-Sep-16 A	05-Sep-16 A						
					_				
Reclamation upto +3.		8 06-Sep-16 A	14-Sep-16 A		• •				
	C1 West - Vertical Seawall V2 backfill with compaction upto +3.25mPD VSOP22-20	8 06-Sep-16 A	14-Sep-16 A						
Insitu Concrete Copin	ng	86 01-Jul-16 A	10-Dec-16	363					
Remaining Level of Ef			58th Monthly Prog	ress Repo	rt Status as on 21Sep2016	TASK filters: Site Works	s_1, Three Month	Rolling Programme.	
<ul> <li>Actual Level of Effort</li> <li>Actual Work</li> </ul>	Summary			Page 6	of 7				
Remaining Work									Primavera Sys
Critical Remaining Wo	ork								

D	Activity Name	Origina		Finish	Total		
		Duration	n		Float	Sep 58	Oc 59
PD-V2-0330	PD C1 West - Insitu Coping VSOP22-20 8bays	16	6 24-Nov-16	10-Dec-16	363		
PD-V2-0340	PD C1/C2 - Insitu Coping VSOP20-16 11bays	22	2 01-Jul-16 A	24-Aug-16 A			
PD-V2-0350	PD C2/C3 - Insitu Coping VSOP16-11 17bays	34	4 25-Aug-16 A	15-Oct-16	191		
PD-V2-0360	PD C3/C4 - Insitu Coping VSOP11-05 16bays	32	2 16-Oct-16	18-Nov-16	191		E
PD-V2-0370	PD C4 East - Insitu Coping VSOP05-01 10bays	20	0 19-Nov-16	10-Dec-16	191		
Reclamation u	pto +5.5mPD	85	5 21-Sep-16	21-Dec-16	361		
PD-V2-0380	PD C1 West - Coping backfill with compaction upto +5.5mPD VSOP22-20	6	8 11-Dec-16	19-Dec-16	363		
PD-V2-0390	PD C1/2 - Coping backfill with compaction upto +5.5mPD VSOP20-16	11	1 21-Sep-16	02-Oct-16	222		<b>—</b>
PD-V2-0400	PD C2/3 - Coping backfill with compaction upto +5.5mPD VSOP16-11	17	7 16-Oct-16	02-Nov-16	210		E
PD-V2-0410	PD C3/4 - Coping backfill with compaction upto +5.5mPD VSOP11-05	16	6 19-Nov-16	06-Dec-16	195		
PD-V2-0420	PD C4 East - Coping backfill with compaction upto +5.5mPD VSOP05-01	10	0 11-Dec-16	21-Dec-16	191		
Rock Armour		31	1 01-Sep-16 A	01-Oct-16	-629		•
PD-V2-0910	PD C1 West - Vertical Seawall V2 Armour VSOP22-20	29	9 01-Sep-16 A	01-Oct-16 A			•
PD-V2-0990	Completion of North Vertical Seawall	(	0	21-Sep-16*	-629	•	
Sloping Seawa	II Type S1 0+000 to 0+420	78	8 05-Sep-16 A	07-Dec-16	-617		
Removal of So	outh Temporary Seawall S1	29	9 15-Sep-16 A	21-Oct-16	-569	<b>-</b>	
PD-S1-0020	PD C2/3 - Removal of S1 Temporary Seawall	14	4 15-Sep-16 A	29-Sep-16	-569		
PD-S1-0025	PD C3/4 - Removal of S1 Temporary Seawall	14	4 30-Sep-16	14-Oct-16	-569	•	
PD-S1-0030	PD C4 East - Removal of S1 Temporary Seawall	7	7 15-Oct-16	21-Oct-16	-569		
S1 Rockfill Typ	pe 1	78	8 05-Sep-16 A	07-Dec-16	-617		
PD-S1-1020	PD C1/2 - Sloping Seawall Type S1 Reconstruction	21	1 05-Sep-16 A	27-Sep-16	-567		
PD-S1-1030	PD C2/3 - Sloping Seawall Type S1 Reconstruction	21	1 30-Sep-16	21-Oct-16	-569		
PD-S1-1040	PD C3/4 - Sloping Seawall Type S1 Reconstruction	21	1 22-Oct-16	13-Nov-16	-569		
PD-S1-1045	PD C4 East - Sloping Seawall Type S1Reconstruction	22	2 14-Nov-16	07-Dec-16	-569		
PD-S1-1050	Completion of Southern Sloping Seawall		0	07-Dec-16*	-617		

Remaining Level of Effort   Milestone	58th Monthly Progress Report Status as on 21Sep2016	TASK filters: Site Works_1, T
Actual Level of Effort Vummary	Page 7 of 7	
Actual Work		
Remaining Work		
Critical Remaining Work		



EIA Ref.	EM&A Log	Environmental Mitigation Measures	Location	Implementation
	Ref			Status
Air Quality		•	·	
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	A2	Proper watering of exposed spoil should be undertaken throughout the construction	All construction sites	V
HKBCFEIA		phase:		
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		

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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;		
		<ul> <li>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;</li> </ul>		
		• 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;		
		<ul> <li>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;</li> </ul>		
		<ul> <li>Any skip hoist for material transport should be totally enclosed by impervious sheeting;</li> </ul>		
		• 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		

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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		
		cuts, excavation and fill sites where dust is likely to be created;		
		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		
		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		

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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;		

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EIA Ref.	EM&A Log	Environmental Mitigation Measures	Location	Implementation
	Ref			Status
		<ul> <li>All receiving hoppers should be enclosed on three sides up to 3m above unloading point;</li> </ul>		
		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 bori	ne)		
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		

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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 <sup>2</sup> ), 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

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EIA Ref.	EM&A Log	Environmental Mitigation Measures	Location	Implementation
	Ref			Status
TMCLKLEIA			representative noise	
			monitoring station	
Waste Manag	ement (Const	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 Materia		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;		

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EIA Ref.	EM&A Log	Environmental Mitigation Measures	Location	Implementation
	Ref			Status
		<ul> <li>Implement a trip-ticket system for each works contract to ensure that the disposal of C&amp;D materials are properly documented and verified;</li> <li>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&amp;D materials and to minimize their generation during the course</li> </ul>		
		<ul> <li>of construction;</li> <li>In addition, disposal of the C&amp;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</li> <li>The surplus surcharge should be transferred to a fill bank.</li> </ul>		
S8.3.9- S8.3.11 of HKBCFEIA and S12.6 of TMCLKLEIA	WM5	<ul> <li><u>C&amp;D Waste</u></li> <li>Standard formwork or pre-fabrication should be used as far as practicable in order to minimise the arising of C&amp;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.</li> <li>The Contractor should recycle as much of the C&amp;D materials as possible on-site. Public fill and C&amp;D waste should be segregated and stored in different containers</li> </ul>	All construction sites	V

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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		

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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		The site and surroundings shall be kept tidy and litter free. General refuse		
and S12.6 of		generated on-site should be stored in enclosed bins or compaction units separately		
TMCLKLEIA		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		

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EIA Ref.	EM&A Log	Environmental Mitigation Measures	Location	Implementation
	Ref			Status
		<ul> <li>considered by the Contractor. In addition, waste separation facilities for paper, aluminum cans, plastic bottles etc., should be provided.</li> <li>Training should be provided to workers about the concepts of site cleanliness and appropriate waste management procedure, including reduction, reuse and recycling of wastes.</li> <li>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.</li> <li>All waste containers shall be in a secure area on hardstanding.</li> </ul>		
Water Quality	(Construction	Phase)	Γ	
	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

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Ref       • 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.	Status
seawall at the reclamation area formed above +2.2mPD, unless otherwise	
<ul> <li>All underwater filling works shall be carried out behind seawalls to avoid dispersion of suspended solids outside the Project limit;</li> <li>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;</li> <li>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;</li> <li>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</li> <li>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 a shall be made with a cumulative maximum daily filling barge trips per day shall be made with a total of 190 filling barge trips per day shall be made with a cumulative maximum daily filling trips per day shall be made with a cumulative maximum daily filling barge trips per day shall be made with a cumulative maximum daily filling trips per day shall be made with a cumulative maximum daily filling trips per day shall be made with a cumulative maximum daily filling trips per day shall be made with a cumulative maximum daily filling trips per day shall be made with a cumulative maximum daily filling trips per day shall be made with a cumulative maximum daily filling rate of 190,000 m3 for the remaining filling operations for HKBCF and TMCLKL southern landfall reclamation.</li> <li>Floating type perimeter silt curtains shall be around the HKBCF site before the</li> </ul>	

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EIA Ref.	EM&A Log	Environmental Mitigation Measures	Location	Implementation
	Ref			Status
		<ul> <li>to prevent sediment loss at navigation accesses. The length of each staggered layers shall be at least 200m;</li> <li>Single layer silt curtain to be applied around the North-east airport water intake;</li> <li>The silt-curtains should be maintained in good condition to ensure the sediment plume generated from filling be confined effectively within the site boundary;</li> <li>The filling works shall be scheduled to spread the works evenly over a working day;</li> <li>Cellular structure shall be used for seawall construction;</li> <li>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;</li> <li>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</li> <li>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.</li> </ul>		
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

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EIA Ref.	EM&A Log	Environmental Mitigation Measures	Location	Implementation
	Ref			Status
TMCLKLEIA		<ul> <li>wastewater from temporary site facilities should be controlled to prevent direct discharge to surface or marine waters;</li> <li>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;</li> <li>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;</li> <li>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;</li> <li>temporary access roads should be surfaced with crushed stone or gravel;</li> <li>rainwater pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities;</li> <li>measures should be taken to prevent the washout of construction materials, soil, silt or debris into any drainage system;</li> <li>open stockpiles of construction materials (e.g., addregates and sand) on site</li> </ul>		
		<ul> <li>open stockpiles of construction materials (e.g. aggregates and sand) on site</li> </ul>		

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EIA Ref.	EM&A Log	Environmental Mitigation Measures	Location	Implementation
	Ref			Status
		<ul> <li>should be covered with tarpaulin or similar fabric during rainstorms;</li> <li>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;</li> <li>discharges of surface run-off into foul sewers must always be prevented in order not to unduly overload the foul sewerage system;</li> <li>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;</li> </ul>		
		<ul> <li>wheel wash overflow shall be directed to silt removal facilities before being discharged to the storm drain;</li> <li>the section of construction road between the wheel washing bay and the public road</li> </ul>		
		<ul> <li>should be surfaced with crushed stone or coarse gravel;</li> <li>wastewater generated from concreting, plastering, internal decoration, cleaning work and other similar activities, shall be screened to remove large objects;</li> <li>webicle and plant convicing areas, webicle work have and lubrication facilities shall</li> </ul>		
		<ul> <li>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;</li> </ul>		

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

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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

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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		

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EIA Ref.	EM&A Log Ref	Environmental Mitigation Measures	Location	Implementation Status
		rock materials and planting strip area accommodating screen buffer to enhance "natural-look" of new coastline.		
S10.9 of TMCLKLEIA	LV2	Mitigate Landscape Impacts CM7 Ensure no run-off into water body adjacent to the Project Area.	All construction site areas	V
S14.3.3. 3 of HKBCFEIA	LV4	Mitigate Visual ImpactsV1Minimize time for construction activities during construction period.	All construction site areas	V
S10.9 of TMCLKLEIA	LV5	<u>Mitigate Visual Impacts</u> CM6 Control night-time lighting and glare by hooding all lights.	All construction site areas	V
EM&A				
S15.2.2 of HKBCFEIA	EM1	An Independent Environmental Checker needs to be employed as per the EM&A Manual.	All construction site areas	V
S15.5 - S15.6 of HKBCFEIA	EM2	<ul> <li>An Environmental Team needs to be employed as per the EM&amp;A Manual.</li> <li>Prepare a systematic Environmental Management Plan to ensure effective implementation of the mitigation measures.</li> <li>An environmental impact monitoring needs to be implementing by the Environmental Team to ensure all the requirements given in the EM&amp;A Manual are fully complied with.</li> </ul>	All construction site areas	V

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 <sup>3</sup>	500 μg/m <sup>3</sup>
AMS3B*	368 μg/m <sup>3</sup>	500 μg/m <sup>3</sup>
AMS6	360 μg/m <sup>3</sup>	500 μg/m <sup>3</sup>
AMS7	370 μg/m <sup>3</sup>	500 μg/m <sup>3</sup>

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 <sup>3</sup>
AMS3B*	167 μg/m³	260 μg/m <sup>3</sup>
AMS6	173 μg/m³	260 μg/m <sup>3</sup>
AMS7	183 μg/m³	260 μg/m <sup>3</sup>

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 <sup>-1</sup>	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 <sup>-1</sup>	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 De	velopment Pier (A	MS2) Operator:	Leung Yiu Ting				
Cal. Date:	15-Jul-16	t majas	Next Due Date:	15-Sep-16				
Equipment No.:	A-001-78T		Serial No.	3383	e e e e e e e e e e e e e e e e e e e			
	Ambient Condition							
Temperat	ure, Ta (K)	303.2	Pressure, Pa (mmHg)	755.4				
· '	. , /	LI						

Orifice Transfer Standard Information					
Serial No:	988	Slope, mc	1.99349	Intercept, bc	-0.02737
Last Calibration Date:	31-May-16	mc x Qstd + bc = [DH x (Pa/760) x (298/Ta)] <sup>1/2</sup>			
Next Calibration Date:	31-May-17	Qstd = {[DH x (Pa/760) x (298/Ta)] <sup>1/2</sup> -bc} / mc			

		Calibration of	of TSP Sampler		
		Orfice	HV	S Flow Recorder	
Resistance Plate No.	DH (orifice), in. of water	[DH x (Pa/760) x (298/Ta)] <sup>1/2</sup>	Qstd (m <sup>3</sup> /min) X · axis	Flow Recorder Reading (CFM)	Continuous Flow Recorder Reading IC (CFM) Y-axis
18	7.7	2.74	1.39	47.0	46.45
13	6.6	2.54	1.29	42.0	41.51
10	4.9	2.19	1.11	34.0	33.61
7	3.7	1.90	0.97	27.0	26.69
5	2.6	1.59	0.81	21.0	20.76
Correlation Coe		0.9987 heck and recalibrate.	_		
			Calculation		
From the TSP Fie	eld Calibration Curv	ve, take Qstd = 1.30m <sup>3</sup> /min			
From the Regres	sion Equation, the	'Y" value according to			
		mw x Qstd + bw = IC	х [(Pa/760) x (298/Л	Γa)] <sup>1/2</sup>	
Therefore, Set Po	oint; IC = ( mw x Q	std + bw ) x [( 760 / Pa ) x ( Ta / 29	98 )] <sup>1/2</sup> =		42.66

Remarks:						
QC Reviewer:	WS	CHAN	Signature:	Zi	Date:	alibration Certificate (Existing

Station	Tung Chung Dev	velopment Pier (Al	MS2) Operator:	Leung Yiu Ting	
Cal. Date:	15-Sep-16		Next Due Date:	15-Nov-16	
Equipment No.:	A-001-78T	_	Serial No.	3383	
			Ambient Condition		
Temperat	ure, Ta (K)	304.0	Pressure, Pa (mmHg)	752.1	

Orifice Transfer Standard Information					
Serial No:	988	Slope, mc	1.99349	Intercept, bc	-0.02737
Last Calibration Date:	31-May-16		mc x Qstd + bc = [[	OH x (Pa/760) x (298/Ta)] <sup>1/2</sup>	
Next Calibration Date:	31-May-17	Qstd = {[DH x (Pa/760) x (298/Ta)] <sup>1/2</sup> -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)] <sup>1/2</sup>	Qstd (m <sup>3</sup> /min) X · axis	Flow Recorder Reading (CFM)	Continuous Flow Recorder Reading IC (CFM) Y-axis
18	7.6	2.72	1.38	46.0	45.31
13	6.6	2.53	1.28	41.0	40.38
10	5.0	2.20	1.12	34.0	33.49
7	3.6	1.87	0.95	26.0	25.61
5	2.7	1.62	0.83	21.0	20.68
		Sat Daint	Calculation		
		Set Point	Calculation		
From the TSP Fi	eld Calibration Cur	ve, take Qstd = 1.30m <sup>3</sup> /min			
From the Regres	sion Equation, the	"Y" value according to			
		mw x Qstd + bw = IC	x [(Pa/760) x (298/1	Γa)] <sup>1/2</sup>	
Therefore, Set P	oint; IC = ( mw x Q	std + bw ) x [( 760 / Pa ) x ( Ta / 29	98 )] <sup>1/2</sup> =		42.17
у — терениканан жана жана жана жана жана жана жана					
Remarks:					

81

Date: 15/3/16

QC Reviewer: US CHAN

Signature: \_\_\_\_

D:\HVS Calibration Certificate (Existing)

Station	Site Boundary of	Site Office (WA2)	(AMS3B) Operator:	Leung Yiu Ting	
Cal. Date:	29-Aug-16		Next Due Date:	29-Oct-16	-
Equipment No.:	A-001-79T		Serial No.	3384	-
					-
			Ambient Condition		
Temperat	ure, Ta (K)	304.0	Pressure, Pa (mmHg)	755.2	

Orifice Transfer Standard Information							
Serial No:	988	Slope, mc	1.99349	Intercept, bc	-0.02737		
Last Calibration Date:	31-May-16		mc x Qstd + bc = [[	DH x (Pa/760) x (298/Ta)] <sup>1/2</sup>			
Next Calibration Date:	31-May-17	9	Qstd = {[DH x (Pa/7	760) x (298/Ta)] <sup>1/2</sup> -bc} / mc			

		Calibration of	of TSP Sampler	Section Section		
- )		Orfice	~	HVS Flow Recorder		
Resistance Plate No. in. of wat		[DH x (Pa/760) x (298/Ta)] <sup>1/2</sup>	Qstd (m <sup>3</sup> /min) X · axis	Flow Recorder Reading (CFM)	Continuous Flow Recorder Reading IC (CFM) Y-axis	
18	7.3	2.67	1.35	50.0	49.35	
13	6.1	2.44	1.24	43.0	42.44	
10	4.9	2.18	1.11	35.0	34.54	
7	3.3	1.79	0.91	25.0	24.67	
5	2.0	1.40	0.71	15.0	14.80	
Slope , mw = Correlation Coe	53.9811 fficient* =	3 0.9973	Intercept, bw = _	-24.3	3232	
Slope , mw = Correlation Coe	53.9811 fficient* =	heck and recalibrate.	-	-24.3	3232	
Slope , mw = Correlation Coe	53.9811 fficient* = pefficient < 0.990, c	check and recalibrate.	Intercept, bw =  Calculation	-24.3	3232	
Slope , mw = Correlation Coe If Correlation Co From the TSP Fi	53.9811 fficient* = pefficient < 0.990, of eld Calibration Cur	check and recalibrate. Set Point ve, take Qstd = 1.30m <sup>3</sup> /min	-	-24.3	3232	
From the TSP Fi	53.9811 fficient* = pefficient < 0.990, of eld Calibration Cur	check and recalibrate.	-	-24.3	3232	
Slope , mw = Correlation Coe If Correlation Co From the TSP Fi	53.9811 fficient* = pefficient < 0.990, c eld Calibration Cur	check and recalibrate. Set Point ve, take Qstd = 1.30m <sup>3</sup> /min	- Calculation		3232	

Remarks:				
QC Reviewer:	NK	Signature:	NK	Date: <u>30/8/2016</u> D:\HVS Calibration Certificate (Existing)\6

Station Hong Kong SkyCit		ity Marriott Hotel	(AMS7) Operator:	Leung yiu ting	
Cal. Date: 29-Aug-16			Next Due Date:	29-Oct-16	
Equipment No.:	A-001-80T	-	Serial No.	3385	-
			Ambient Condition		
Temperat	ture, Ta (K)	304.0	Pressure, Pa (mmHg)	755.2	

Orifice Transfer Standard Information							
Serial No:	988	Slope, mc	1.99349	Intercept, bc	-0.02737		
Last Calibration Date:	31-May-16	mc x Qstd + bc = [DH x (Pa/760) x (298/Ta)] <sup>1/2</sup>					
Next Calibration Date:	31-May-17		Qstd = {[DH x (	Pa/760) x (298/Ta)] <sup>1/2</sup> -bc} / mc			

		Orfice		HVS	S Flow Recorder	
Resistance Plate No.	DH (orifice), in. of water	[DH x (Pa/760) x (298/Ta)] <sup>1/2</sup>	Qstd (m <sup>3</sup> /min) X - axis	Flow Recorder Reading (CFM)	Continuous Flow Recorder Reading IC (CFM) Y-axis	
18	7.2	2.65	1.34	49.0	48.36	
13	6.4	2.50	1.27	44.0	43.43	
10	5.0	2.21	1.12	36.0	35.53	
7	3.4	1.82	0.93	24.0	23.69	
5	2.4	1.53	0.78	17.0	16.78	
Slope , mw = Correlation Coe		0.9984	Intercept, bw = 	-27.5	9919	
Slope , mw = Correlation Coe	56.6063 fficient* =	0.9984 heck and recalibrate.	Intercept, bw = _	-27.5	9919	
Slope , mw = Correlation Coe	56.6063 fficient* =	heck and recalibrate.	Intercept, bw =  Calculation	-27.5	9919	
Slope , mw = Correlation Coe *If Correlation Co	56.6063 officient* = pefficient < 0.990, c	heck and recalibrate.	_	-27.5	9919	
Slope, mw = Correlation Coe *If Correlation Co From the TSP Fi	56.6063 •fficient* = •efficient < 0.990, of eld Calibration Cur	heck and recalibrate.	_	-27.5	9919	
Slope, mw = Correlation Coe *If Correlation Co From the TSP Fi	56.6063 •fficient* = •efficient < 0.990, of eld Calibration Cur	heck and recalibrate. Set Point ve, take Qstd = 1.30m <sup>3</sup> /min	Calculation		9919	

Remarks:

QC Reviewer:

UF

HK

30/8/2016 Date:

D:\HVS Calibration Certificate (Existing



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 STANDARD CERTIFICATION WORKSHEET TE-5025A

Date - May 31,	2016 Rootsmeter	-/	438320	Ta (K) -	298
Operator Tisch	Orifice I.1		0988	Pa (mm) -	754.38
PLATE         VOLUM           OR         STAR           Run #         (m3)           1         N           2         N           3         N           4         N           5         N	T STOP (m3) A NA A NA A NA A NA	DIFF VOLUME (m3) 1.00 1.00 1.00 1.00 1.00	DIFF TIME (min) 1.3670 0.9750 0.8700 0.8260 0.6830	METER DIFF Hg (mm) 3.2 6.4 7.9 8.7 12.7	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)
0.9884 0.9842 0.9821 0.9811 0.9758	0.7230 1.0094 1.1289 1.1878 1.4288	1.4090 1.9926 2.2278 2.3365 2.8179		0.9957 0.9915 0.9894 0.9884 0.9831	0.7284 1.0170 1.1373 1.1967 1.4394	0.8888 1.2570 1.4054 1.4740 1.7777
Qstd slop intercept coefficie	t (b) = ent (r) =	1.99349 -0.02737 0.99988 Pa/760) (298/5	[ [	Qa slope intercept coefficie y axis =	t (b) =	1.24829 -0.01727 0.99988 Ca/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 <sup>®</sup>						
Venue:	Cyberport	Cyberport (Pui Ying Secondary School)					
Model No.:	Series 140	DOAB					
Serial No:	Control:	140AB219899803					
	Sensor:	1200C143659803	Ko:	12500			
Last Calibration Date*:	7 May 201						

\*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	9	Ambient Condition		Concentration <sup>1</sup> (mg/m <sup>3</sup> )	Total Count <sup>2</sup>	Count/ Minute <sup>3</sup>
					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 <sup>®</sup>				
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		Tim	е	Amb		Concentration <sup>1</sup>	Total	Count/
	(dd-mm-yy)				Cond Temp (°C)	R.H. (%)	(mg/m <sup>3</sup> ) <b>Y-axis</b>	Count <sup>2</sup>	Minute <sup>3</sup> 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 <sup>®</sup>				
Venue:	Cyberport (Pui Ying Secondary School)				
Model No.:	Series 1400AB				
Serial No:	Control: 140AB219899803				
	Sensor:	1200C143659803	K <sub>o</sub> :	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		Amb Cond	bient dition	Concentration <sup>1</sup> (mg/m <sup>3</sup> )	Total Count <sup>2</sup>	Count/ Minute <sup>3</sup>	
					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 <sup>®</sup>				
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): 753 CPM 753 CPM

Hour	Date (dd-mm-yy)	Time			pient dition	Concentration <sup>1</sup> (mg/m <sup>3</sup> )	Total Count <sup>2</sup>	Count/ Minute <sup>3</sup>	
					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	Cyberport (Pui Ying Secondary School)					
Model No.:	Series 140	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):

799	CPM
799	CPM

Hour	Date (dd-mm-yy)	Time			bient dition	Concentration <sup>1</sup> (mg/m <sup>3</sup> )	Total Count <sup>2</sup>	Count/ Minute <sup>3</sup>	
					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 (	Cyberport (Pui Ying Secondary School)					
Model No.:	Series 1400	Series 1400AB					
Serial No:	Control:	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 <sup>1</sup> (mg/m <sup>3</sup> )	Total Count <sup>2</sup>	Count/ Minute <sup>3</sup>	
					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)	Т	ime	)	Amb Cond		Concentration <sup>1</sup> (mg/m <sup>3</sup> )	Total Count <sup>2</sup>	Count/ Minute <sup>3</sup>
					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

Mike Shek (MSKM)

### Standard Equipment

Operator:

Equipment:	Rupprecht	& Patashnick TEOM®					
Venue:	Cyberport	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):

521 CPM 521 CPM

Hour	Date (dd-mm-yy)	-	Time	)		bient dition	Concentration <sup>1</sup> (mg/m <sup>3</sup> )	Total Count <sup>2</sup>	Count/ Minute <sup>3</sup>
					Temp (°C)	R.H. (%)	Y-axis		X-axis
1	16-07-16	10:15	-	11:15	30.1	76	0.05319	2135	35.58
2	16-07-16	11:15	-	12:15	30.3	76	0.05615	2247	37.45
3	16-07-16	13:00	-	14:00	30.5	77	0.05984	2392	39.87
4	16-07-16	14:00	-	15:00	30.4	77	0.05786	2313	38.55
Note:	1. Monitoring c	lata was i	mea	sured by	Ruppreck	nt & Pata	shnick TEOM®		

2. Total Count was logged by Laser Dust Monitor

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

By L	inear	R	egression	of	Y	or	Х
------	-------	---	-----------	----	---	----	---

Slope (K-factor):	0.0015	
Correlation coefficient:	0.9987	
Validity of Calibration Record:	16 July 2017	

Remarks:
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QC Reviewer:	YW Fung	Signature: _	2	Date:	18 July 2016



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 <del></del>					
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.

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**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

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



### **CERTIFICATE OF CALIBRATION**

Certificate No.:	16CA0704 03-01			Page	1	of	2
Item tested							
Description: Manufacturer: Type/Model No.: Serial/Equipment No.: Adaptors used:	Sound Level Mete B & K 2238 2800927 / N.009.0		, , ,	Microphone B & K 4188 2791211			
Item submitted by							
Customer Name: Address of Customer: Request No.: Date of receipt:	AECOM ASIA CO - - 04-Jul-2016	., LTD.					
Date of test:	07-Jul-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: 18-Jun-2017 18-Apr-2017 18-Apr-2017		Traceab CIGISME CEPREI CEPREI	
Ambient conditions							
Temperature: Relative humidity: Air pressure:	22 ± 1 °C 60 ± 10 % 1000 ± 5 hPa						
Test specifications							

### 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.
- 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.

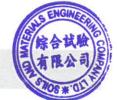
### Test results

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: 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.

09-Jul-2016

Date:

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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:	HK1630169
Sub-batch:	0
Client:	AECOM ASIA COMPANY LIMITED
Date of Issue:	27/07/2016
Description:	Multifunctional Mater



Multifunctional Meter		
YSI		
6820 V2		
12A101545		
W.026.35		
26 July, 2016	Date of next Calibration:	26 October, 2016
	YSI 6820 V2 12A101545 W.026.35	YSI 6820 V2 12A101545 W.026.35

### Parameters:

Expected Reading (uS/cm)	Displayed Reading (uS/cm )	Tolerance (%)
146.9	144.7	-1.5
6667	6630	-0.6
12890	12820	-0.5
58670	58660	-0.0
	Tolerance Limit (%)	±10.0

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

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
3.41	3.40	-0.01
5.52	5.56	+0.04
7.78	7.81	+0.03
	Tolerance Limit (mg/L)	±0.20

Temperature

### Method Ref: Section 6 of International Accreditation New Zealand Technical

Guide No. 3 Second edition March 2008: Working Thermometer Calibration Procedure.

Reading of Ref. thermometer (°C)	Displayed Reading (°C)	Tolerance (°C)
11.0	10.96	-0.0
22.0	22.04	+0.0
37.5	37.42	-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.

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

Work Order: Sub-Batch: Client:	HK1630169 0 AECOM ASIA COMPANY LIMITED	
Date of Issue:	27/07/2016	
Description:	Multifunctional Meter	
Brand Name:	YSI	
Model No.:	6820 V2	
Serial No.:	12A101545	
Equipment No.:	W.026.35	
Date of Calibration:	26 July, 2016	Date of next Calibration:

### Parameters:

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)
0	0.00	
10	10.3	+3.0
20	19.97	-0.2
30	29.87	-0.4
	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	10.3	+3.0
20	19.7	-1.5
50	49.6	-0.8
100	100.5	+0.5
	Tolerance Limit (%)	±10.0

pH Value

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

Expected Reading (pH Unit)	Displayed Reading (pH Unit)	Tolerance (pH unit)
4.0	3.99	-0.01
7.0	7.03	+0.03
10.0	10.04	+0.04
		10.01
	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.

Kind

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

26 October, 2016

Work Order: Sub-batch: Client: Date of Issue:	HK1630168 0 AECOM ASIA COMPANY LIMITED 28/07/216		(ALS)
Description:	Sonde Environmental Monitoring S	ystem	
Brand Name:	YSI		
Model No.:	6820 V2		
Serial No.:	12D100972		
Equipment No.:	W.026.36		
Date of Calibration:	26 July, 2016	Date of next Calibration:	26 October, 2016

### Parameters:

Conductivity Method Ref: APHA (21th edition), 2510B Expected Reading (uS/cm) Displayed Reading (uS/cm) Tolerance (%) 146.9 147.0 +0.16667 6680 +0.212890 12830 -0.5 58670 58700 +0.1Tolerance Limit (%) ±10.0

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

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)		
3.41	3.42	+0.01		
5.52	5.55	+0.03		
7.78	7.76	-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	11.01	+0.0
22.0	22.09	+0.1
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

Work Order: Sub-Batch: Client: Date of Issue:	HK1630168 0 AECOM ASIA COMPANY LIMITED 28/07/216		(ALS)
Description:	Sonde Environmental Monitoring S	ystem	
Brand Name:	YSI		
Model No.:	6820 V2		
Serial No.:	12D100972		
Equipment No.:	W.026.36		
Date of Calibration:	26 July, 2016	Date of next Calibration:	26 October, 2016

### Parameters:

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)
0	0.00	
10	10.02	+0.2
20	19.98	-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	4.2	+5.0
10	10.2	+2.0
20	20.3	+1.5
50	49.5	-1.0
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)		
4.0	4.01	+0.01		
7.0	7.02	+0.02		
10.0	10.02	+0.02		
	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.

R. M. H. Mr Fung Lim Chee, Richard

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

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday		
				1-Sep	2-Sep	3-Sep		
					Mid-Flood 7:08 Mid-Ebb 13:42			
4-Sep	5-Sep	6-Sep	7-Sep	8-Sep	9-Sep	10-Sep		
	Mid-Flood 9:01 Mid-Ebb 15:15 Dolphin monitoring	Dolphin monitoring	Mid-Flood 10:26 Mid-Ebb 16:22 24-hour TSP 1-hour TSP Noise		Mid-Flood# 12:50 Mid-Ebb 18:10			
11-Sep	12-Sep	13-Sep	14-Sep	15-Sep	16-Sep	17-Sep		
	Mid-Ebb 9:28 Mid-Flood 17:06	1-hour TSP Noise	Mid-Ebb 11:08 Mid-Flood 18:11 24-hour TSP*		Mid-Ebb 12:32 Mid-Flood 19:08			
18-Sep	19-Sep	20-Sep	21-Sep	22-Sep	23-Sep	24-Sep		
	Mid-Flood 8:28 Mid-Ebb 14:35 24-hour TSP 1-hour TSP Noise		Mid-Flood 10:24 Mid-Ebb 16:10 Dolphin monitoring	Dolphin monitoring	Mid-Flood 12:55 Mid-Ebb 18:15	1-hour TSP		
25-Sep	26-Sep	27-Sep	28-Sep	29-Sep	30-Sep			
	Mid-Ebb 9:42 Mid-Flood 17:01		Mid-Ebb 11:25 Mid-Flood 18:09		Mid-Flood 6:22 Mid-Ebb 12:42 24-hour TSP 1-hour TSP Noise			

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

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

Remarks: #The impact water quality monitoring event for flood tide of 9 September 2016 was cancelled due thunderstorm Signal was hoisted and lightning event was recorded at the water quality monitoring area.

Remarks: \*Due to electricity failure, the air quality monitoring at AMS3B (site office) originally scheduled from 12 - 13 September 2016 has been rescheduled to 13 - 14 September 2016.

Sunday	Monday Tuesday		Wednesday	Thursday	Friday	Saturday	
						1-Oct	
	3-Oct	4-Oct	5-Oct	6-Oct	7-Oct	8-Oct	
	Mid-Flood 8:15 Mid-Ebb 14:18		Mid-Flood         9:31           Mid-Ebb         15:21		Mid-Flood         11:14           Mid-Ebb         16:40		
			24-hour TSP 1-hour TSP Noise				
9-Oct	10-Oct	11-Oct	12-Oct	13-Oct	14-Oct	15-Oct	
	Mid-Ebb 7:08 Mid-Flood 15:34		Mid-Ebb 9:36 Mid-Flood 16:54		Mid-Ebb 11:19 Mid-Flood 17:53		
		Dolphin monitoring	Dolphin monitoring				
16-Oct	17-Oct	18-Oct	19-Oct	20-Oct	21-Oct	22-Oct	
	Mid-Flood 7:34 Mid-Ebb 13:33 24-hour TSP 1-hour TSP Noise		Mid-Flood 9:28 Mid-Ebb 15:11		Mid-Flood 11:35 Mid-Ebb 16:56	24-hour TSP 1-hour TSP	
23-Oct	24-Oct	25-Oct	26-Oct	27-Oct	28-Oct	29-Oct	
	Mid-Ebb 7:53 Mid-Flood 15:40		Mid-Ebb 10:09 Mid-Flood 16:59		Mid-Ebb 11:38 Mid-Flood 17:48		
	Dolphin monitoring	Dolphin monitoring			24-hour TSP 1-hour TSP Noise		
30-Oct	31-Oct						
	Mid-Flood 7:34 Mid-Ebb 13:23						

### Hong Kong Boundary Crossing Facilities – Reclamation Works Tentative Impact Monitoring Schedule for October 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

Date	Session	Weather Condition	averaged Wind Speed (m/s)*	Time (hh:mm)	Conc. (µg/m³)	Action Level (µg/m <sup>3</sup> )	Limit Level (µg/m <sup>3</sup> )	
01-Sep-16	1st Hour	Fine	0.27	10:15	75	374	500	
01-Sep-16	2nd Hour	Fine	0.01	11:15	74	374	500	
01-Sep-16	3rd Hour	Fine	0.11	12:15	75	374	500	
07-Sep-16	1st Hour	Cloudy	0.73	12:30	70	374	500	
07-Sep-16	2nd Hour	Cloudy	0.10	13:30	71	374	500	
07-Sep-16	3rd Hour	Cloudy	0.08	14:30	70	374	500	
13-Sep-16	1st Hour	Sunny	0.28	11:53	73	374	500	
13-Sep-16	2nd Hour	Sunny	0.98	12:53	75	374	500	
13-Sep-16	3rd Hour	Sunny	0.69	13:53	75	374	500	
19-Sep-16	1st Hour	Sunny	0.07	11:00	72	374	500	
19-Sep-16	2nd Hour	Sunny	0.10	12:00	73	374	500	
19-Sep-16	3rd Hour	Sunny	1.38	13:00	75	374	500	
24-Sep-16	1st Hour	Sunny	2.01	10:15	78	374	500	
24-Sep-16	2nd Hour	Sunny	0.74	11:15	77	374	500	
24-Sep-16	3rd Hour	Sunny	1.08	12:15	78	374	500	
30-Sep-16	1st Hour	Cloudy	0.90	13:58	73	374	500	
30-Sep-16	2nd Hour	Cloudy	0.64	14:58	73	374	500	
30-Sep-16	3rd Hour	Cloudy	0.98	15:58	72	374	500	
				Average	74			
				Min	70			
				Max	78			

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

Dete	Session	Weather Condition	averaged Wind Speed (m/s)*	Time (bb:mm)	Conc. (µg/m <sup>3</sup> )	Action Level (µq/m <sup>3</sup> ) ^	Limit Level (µg/m <sup>3</sup> )
Date				(hh:mm)			
01-Sep-16	1st Hour	Fine	0.01	11:20	75	368	500
01-Sep-16	2nd Hour	Fine	0.11	12:20	74	368	500
01-Sep-16	3rd Hour	Fine	0.18	13:20	75	368	500
07-Sep-16	1st Hour	Cloudy	0.14	11:29	71	368	500
07-Sep-16	2nd Hour	Cloudy	0.73	12:29	72	368	500
07-Sep-16	3rd Hour	Cloudy	0.10	13:29	71	368	500
13-Sep-16	1st Hour	Sunny	0.28	11:25	72	368	500
13-Sep-16	2nd Hour	Sunny	0.98	12:25	74	368	500
13-Sep-16	3rd Hour	Sunny	0.69	13:25	73	368	500
19-Sep-16	1st Hour	Sunny	0.07	11:10	72	368	500
19-Sep-16	2nd Hour	Sunny	0.10	12:10	74	368	500
19-Sep-16	3rd Hour	Sunny	1.38	13:10	71	368	500
24-Sep-16	1st Hour	Sunny	2.01	10:26	77	368	500
24-Sep-16	2nd Hour	Sunny	0.74	11:26	76	368	500
24-Sep-16	3rd Hour	Sunny	1.08	12:26	77	368	500
30-Sep-16	1st Hour	Cloudy	0.28	10:15	73	368	500
30-Sep-16	2nd Hour	Cloudy	1.23	11:15	74	368	500
30-Sep-16	3rd Hour	Cloudy	0.53	12:15	73	368	500
				Average	73		
				Min	71		
				Max	77		

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

		Weather	averaged Wind	Time	Conc.	Action Level	Limit Level					
Date	Session	Condition	Speed (m/s)*	(hh:mm)	(µg/m <sup>3</sup> )	(µg/m <sup>3</sup> )	(µg/m <sup>3</sup> )					
01-Sep-16	1st Hour	Fine	0.01	10:02	75	370	500					
01-Sep-16	2nd Hour	Fine	0.27	11:02	74	370	500					
01-Sep-16	3rd Hour	Fine	0.01	12:02	74	370	500					
07-Sep-16	1st Hour	Cloudy	0.48	09:50	71	370	500					
07-Sep-16	2nd Hour	Cloudy	0.10	10:50	69	370	500					
07-Sep-16	3rd Hour	Cloudy	0.14	11:50	67	370	500					
13-Sep-16	1st Hour	Sunny	0.28	11:38	74	370	500					
13-Sep-16	2nd Hour	Sunny	Sunny 0.98 12:38 76		76	370	500					
13-Sep-16	3rd Hour	Sunny	0.69	13:38	73	370	500					
19-Sep-16	1st Hour	Sunny	0.07	11:20	71	370	500					
19-Sep-16	2nd Hour	Sunny	0.10	12:20	74	370	500					
19-Sep-16	3rd Hour	Sunny	Sunny	Sunny	Sunny	Sunny	Sunny	1.38	13:20	73	370	500
24-Sep-16	1st Hour	Sunny	2.01	10:03	77	370	500					
24-Sep-16	2nd Hour	Sunny	0.74	11:03	79	370	500					
24-Sep-16	3rd Hour	Sunny	1.08	12:03	78	370	500					
30-Sep-16	1st Hour	Cloudy	0.28	09:55	74	370	500					
30-Sep-16	2nd Hour	Cloudy	1.23	10:55	72	370	500					
30-Sep-16	3rd Hour	Cloudy	0.53	11:55	73	370	500					
				Average	74							
				Min	67							

Max 79

### 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	(m <sup>3</sup> /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 <sup>3</sup> /min)	(m <sup>3</sup> )	Initial	Final	weight(g)	Initial	Final	Time(hrs.)	(µq/m <sup>3</sup> )	(µg/m <sup>3</sup> )	(µg/m <sup>3</sup> )
31-Aug-16	16:00	01-Sep-16	16:00	Cloudy	27.9	1003.3	1.33	1.33	1.33	1909.4	2.8703	2.9106	0.0403	6864.04	6888.04	24.00	21	176	260
06-Sep-16	16:00	07-Sep-16	16:00	Cloudy	26.5	1007.5	1.33	1.33	1.33	1909.4	2.8250	2.8539	0.0289	6888.04	6912.04	24.00	15	176	260
12-Sep-16	16:00	13-Sep-16	16:00	Sunny	28.2	1010.2	1.33	1.33	1.33	1909.4	2.8675	2.9144	0.0469	6912.04	6936.04	24.00	25	176	260
19-Sep-16	09:00	20-Sep-16	09:00	Sunny	28.6	1008.0	1.33	1.33	1.33	1909.4	2.8743	2.9580	0.0837	6936.04	6960.04	24.00	44	176	260
23-Sep-16	16:00	24-Sep-16	16:00	Sunny	27.9	1010.5	1.33	1.33	1.33	1909.4	2.7999	3.0019	0.2020	6960.04	6984.04	24.00	106	176	260
29-Sep-16	16:00	30-Sep-16	16:00	Cloudy	25.1	1007.7	1.33	1.33	1.33	1909.4	2.8338	2.9576	0.1238	6984.04	7008.04	24.00	65	176	260
																Average	46		
																Min	15		
																Max	106		

#### 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 <sup>3</sup> /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 <sup>3</sup> /min)	(m <sup>3</sup> )	Initial	Final	weight(g)	Initial	Final	Time(hrs.)	(µg/m <sup>3</sup> )	(µg/m <sup>3</sup> )	(µg/m <sup>3</sup> )
31-Aug-16	13:00	01-Sep-16	13:00	Cloudy	27.9	1003.3	1.34	1.34	1.34	1923.8	2.8341	2.8423	0.0082	7639.38	7663.38	24.00	4	167	260
06-Sep-16	16:00	07-Sep-16	16:00	Cloudy	26.5	1007.5	1.34	1.34	1.34	1923.8	2.8132	2.8333	0.0201	7663.38	7687.38	24.00	10	167	260
13-Sep-16	11:30	14-Sep-16	11:30	Sunny	28.2	1010.2	1.34	1.34	1.34	1923.8	2.8483	2.9385	0.0902	7687.38	7711.38	24.00	47	167	260
19-Sep-16	09:00	20-Sep-16	09:00	Sunny	28.6	1008.0	1.34	1.34	1.34	1923.8	2.8720	2.9474	0.0754	7711.38	7735.38	24.00	39	167	260
23-Sep-16	16:00	24-Sep-16	16:00	Sunny	27.9	1010.5	1.34	1.34	1.34	1923.8	2.8021	2.9239	0.1218	7735.38	7759.38	24.00	63	167	260
29-Sep-16	16:00	30-Sep-16	16:00	Cloudy	25.1	1007.7	1.34	1.34	1.34	1923.8	2.8364	2.9325	0.0961	7759.38	7783.38	24.00	50	167	260

Average36Min4Max63

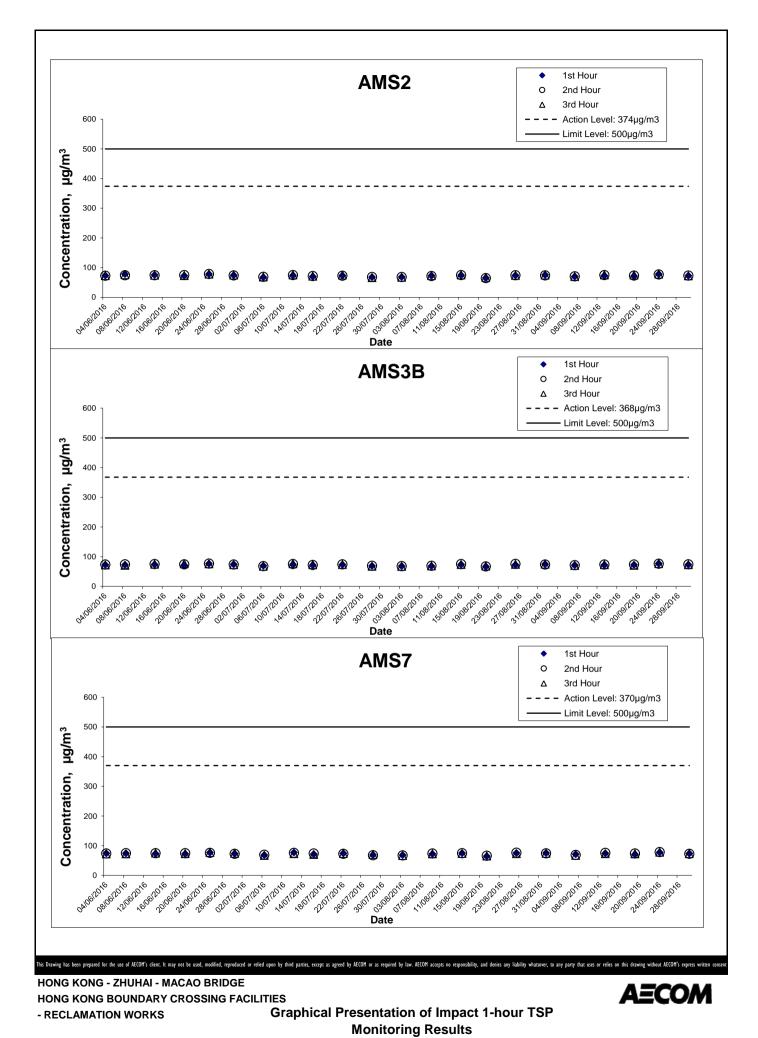
^ Action Level set out at AMS3 Ho Yu College is adopted.

\*Due to electricity failure, the air quality monitoring at AMS3B (site office) originally scheduled from 12 - 13 September 2016 has been rescheduled to 13 - 14 September 2016.

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

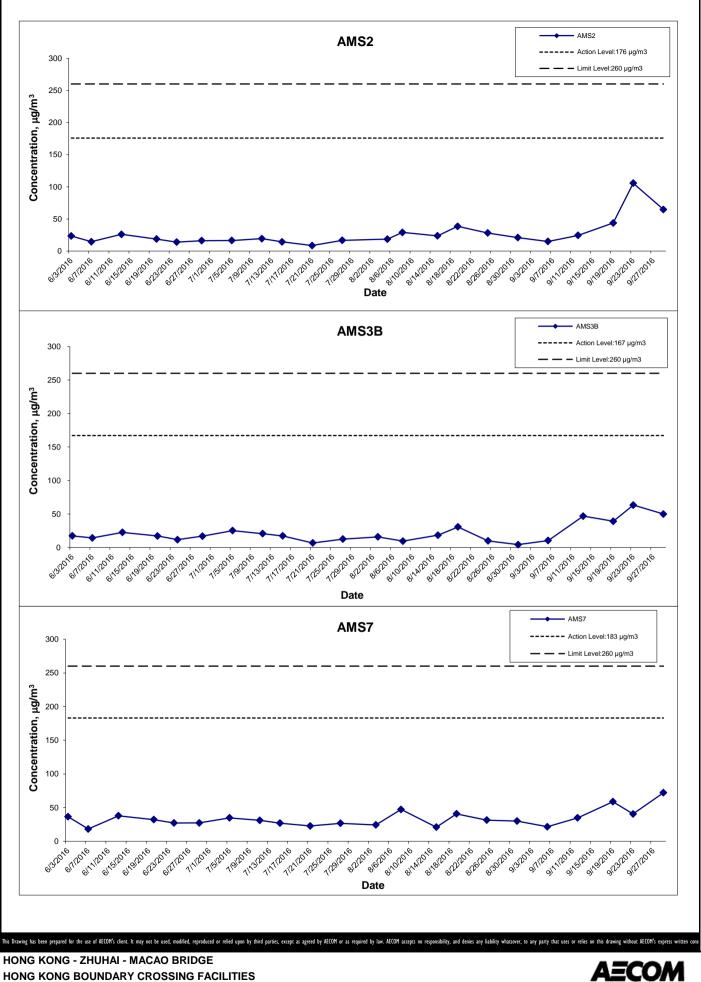
Start	Start	End	End	Weather	Air	Atmospheric	Flow Rate	e (m <sup>3</sup> /min.)	Av. flow	Total vol.	Filter W	eight (g)	Particulate	Elaps	e Time	Sampling	Conc.	Actino Level	Limit Level
Date	Time	Date	Time	Condition	Temp. (°C)	Pressure(hPa)	Initial	Final	(m <sup>3</sup> /min)	(m <sup>3</sup> )	Initial	Final	weight(g)	Initial	Final	Time(hrs.)	(µq/m <sup>3</sup> )	(µg/m <sup>3</sup> )	(µg/m <sup>3</sup> )
31-Aug-16	13:00	01-Sep-16	13:00	Cloudy	27.9	1003.3	1.30	1.30	1.30	1869.1	2.8870	2.9433	0.0563	6555.91	6579.91	24.00	30	183	260
06-Sep-16	16:00	07-Sep-16	16:00	Cloudy	26.5	1007.5	1.30	1.30	1.30	1869.1	2.8050	2.8455	0.0405	6579.91	6603.91	24.00	22	183	260
12-Sep-16	16:00	13-Sep-16	16:00	Sunny	28.2	1010.2	1.30	1.30	1.30	1869.1	2.8455	2.9106	0.0651	6603.91	6627.91	24.00	35	183	260
19-Sep-16	09:00	20-Sep-16	09:00	Sunny	28.6	1008.0	1.30	1.30	1.30	1869.1	2.8701	2.9800	0.1099	6627.91	6651.91	24.00	59	183	260
23-Sep-16	16:00	24-Sep-16	16:00	Sunny	27.9	1010.5	1.30	1.30	1.30	1869.1	2.7888	2.8648	0.0760	6651.91	6675.91	24.00	41	183	260
29-Sep-16	16:00	30-Sep-16	16:00	Cloudy	25.1	1007.7	1.30	1.30	1.30	1869.1	2.8358	2.9706	0.1348	6675.91	6699.91	24.00	72	183	260
-																Average	43		

Min	22
Max	72



Project No.: 60249820 Date: October2016

Appendix G



HONG KONG BOUNDARY CROSSING FACILITIES - RECLAMATION WORKS Gra

Graphical Presentation of Impact 24-hour TSP 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 Setepmber 2016

WIND DATA

WIND DATA			
Date	Time	Averaged Wind Speed (m/s)	Averaged Wind Direction (degrees)
08/31/2016	12:34:25	0.29	135
08/31/2016	13:34:25	0.01	112
08/31/2016	14:34:25	0.45	76
08/31/2016	15:34:25	0.10	95
08/31/2016	16:34:25	0.01	17
08/31/2016	17:34:25	0.88	328
08/31/2016	18:34:25	0.49	325
08/31/2016	19:34:25	0.13	321
08/31/2016	20:34:25	0.01	265
08/31/2016	21:34:25	0.31	344
08/31/2016	22:34:25	0.57	326
08/31/2016	23:34:25	0.01	303
09/01/2016	00:34:25	0.07	321
09/01/2016	01:34:25	0.07	152
09/01/2016	02:34:25	0.01	219
09/01/2016	03:34:25	0.10	55
09/01/2016	04:34:25	0.48	98
09/01/2016	05:34:25	0.04	9
09/01/2016	06:34:25	0.43	129
09/01/2016	07:34:25	0.04	304
09/01/2016	08:34:25	0.66	139
09/01/2016	09:34:25	0.01	265
09/01/2016	10:34:25	0.27	332
09/01/2016	11:34:25	0.01	146
09/01/2016	12:34:25	0.11	228
09/01/2016	13:34:25	0.18	228
09/01/2016	14:34:25	0.18	48
	14:34:25		48 126
09/01/2016		0.48	126
09/01/2016	16:34:25	0.10	
09/01/2016	17:34:25	0.03	4
09/06/2016	15:34:25	0.04	123
09/06/2016	16:34:25	0.07	113
09/06/2016	17:34:25	0.10	6
09/06/2016	18:34:25	0.07	148
09/06/2016	19:34:25	0.06	286
09/06/2016	20:34:25	0.06	144
09/06/2016	21:34:25	0.07	179
09/06/2016	22:34:25	0.08	314
09/06/2016	23:34:25	0.00	283
09/07/2016	00:34:25	0.07	319
09/07/2016	01:34:25	0.08	165
09/07/2016	02:34:25	0.08	312
09/07/2016	03:34:25	0.08	143
09/07/2016	04:34:25	0.07	224
09/07/2016	05:34:25	0.10	280
09/07/2016	06:34:25	0.06	286
09/07/2016	07:34:25	0.03	143
09/07/2016	08:34:25	0.04	136
09/07/2016	09:34:25	0.48	1
09/07/2016	10:34:25	0.10	300
09/07/2016	11:34:25	0.14	45
09/07/2016	12:34:25	0.73	129
09/07/2016	13:19:01	0.10	139
09/07/2016	14:19:01	0.08	150
09/07/2016	15:19:01	0.13	28
09/07/2016	16:19:01	0.31	32
09/07/2016	17:19:01	0.59	32
	_		
09/12/2016	15:19:01	0.56	133
09/12/2016	16:19:01	0.18	52
09/12/2016	17:19:01	0.14	342
09/12/2016	18:19:01	0.07	319
09/12/2016	19:19:01	0.71	315
09/12/2016	20:19:01	0.17	329
09/12/2016	21:19:01	1.29	1
09/12/2016	22:19:01	0.42	96
09/12/2016	23:19:01	0.08	147
09/13/2016	00:19:01	0.07	83
09/13/2016	01:19:01	0.31	160
09/13/2016	02:19:01	0.06	173
09/13/2016	03:19:01	0.14	149
09/13/2016	04:19:01	0.10	290
09/13/2016	05:19:01	0.55	145
09/13/2016	06:19:01	0.04	63
09/13/2016	07:19:01	1.86	126
09/13/2016	08:19:01	0.15	102
09/13/2016	09:19:01	0.45	88
09/13/2016	10:19:01	0.48	100
09/13/2016	11:19:01	0.28	338
09/13/2016	12:19:01	0.98	140
09/13/2016	13:19:01	0.69	121
09/13/2016	14:19:01	0.14	1
09/13/2016	15:19:01	0.11	46
09/13/2016	16:19:01	0.22	331
09/13/2016	17:19:01	0.18	119
09/13/2016	18:19:01	0.10	128
09/13/2016	19:19:01	0.01	314
00/10/2010		0.06	288
			200
09/13/2016	20:19:01		
09/13/2016 09/13/2016	21:19:01	0.03	326
09/13/2016			

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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 Setepmber 2016

WIND DATA

Date		Averaged Wind Speed (m/s	
09/14/2016	00:19:01	0.07	137
09/14/2016	01:19:01	0.04	313
09/14/2016	02:19:01	0.29	299
09/14/2016	03:19:01	0.57	275
09/14/2016	04:19:01	0.22	328
09/14/2016	05:19:01	0.29	291
09/14/2016	06:19:01	0.56	78
09/14/2016	07:19:01	0.50	146
09/14/2016	08:19:01	0.03	94
09/14/2016	09:19:01	2.20	51
09/14/2016	10:19:01	1.23	4
09/14/2016	11:19:01	3.64	40
09/14/2016	12:19:01	0.95	57
09/19/2016	08:19:01	0.22	146
09/19/2016	09:19:01	0.32	143
09/19/2016	10:19:01	0.25	65
09/19/2016	11:19:01	0.07	64
09/19/2016	12:19:01	0.10	17
09/19/2016	13:19:01	1.38	51
09/19/2016	14:19:01	0.84	321
09/19/2016	15:19:01	0.81	328
09/19/2016	16:19:01	0.34	79
09/19/2016	17:19:01	0.41	288
09/19/2016	18:19:01	0.39	34
09/19/2016	19:19:01	0.73	300
09/19/2016	20:19:01	1.58	141
09/19/2016	21:19:01	2.00	152
09/19/2016	22:19:01	0.46	95
09/19/2016	23:19:01	0.80	177
09/20/2016	00:19:01	2.28	111
09/20/2016	01:19:01	1.38	174
09/20/2016	02:19:01	2.88	142
09/20/2016	03:19:01	1.22	164
09/20/2016	04:19:01	0.53	257
09/20/2016	05:19:01	0.73	142
09/20/2016	06:19:01	0.55	191
09/20/2016	07:19:01	0.53	180
09/20/2016	08:19:01	0.48	279
09/20/2016	09:19:01	0.88	127
09/20/2016	10:19:01	0.39	313
09/23/2016	15:18:54	0.99	154
09/23/2016	16:18:54	1.05	165
09/23/2016	17:18:54	0.01	119
09/23/2016	18:18:54	0.10	103
09/23/2016	19:18:54	0.43	67
09/23/2016	20:18:54	1.06	139
09/23/2016	21:18:54	0.18	145
09/23/2016	22:18:54	0.81	96
09/23/2016	23:18:54	0.22	130
09/24/2016	00:18:54	0.17	117
09/24/2016	01:18:54	1.93	151
09/24/2016	02:18:54	0.07	160
09/24/2016	03:18:54	2.08	<u>133</u> 98
09/24/2016	04:18:54 05:18:54	0.07 0.01	100
09/24/2016	06:18:54	0.01	149
09/24/2016	07:18:54	1.68	149
09/24/2016	08:18:54	0.25	78
09/24/2016	09:18:54	0.25	77
09/24/2016	10:18:54	2.01	178
09/24/2016	11:18:54 12:18:54	0.74	149
09/24/2016	12:18:54	0.03	128
09/24/2016	13:18:54	0.03	80
09/24/2016	14:18:54	0.90	226
09/24/2016	16:18:54	0.34	145
09/24/2016	17:18:54	0.04	54
09/29/2016	15:18:54	1.47	61
09/29/2016	16:18:54	2.91	20
09/29/2016	17:18:54	2.66	44
09/29/2016	18:18:54	0.28	14
09/29/2016	19:18:54	0.25	47
09/29/2016	20:18:54	0.29	58
09/29/2016	21:18:54	0.62	113
09/29/2016	22:18:54	0.62	66
09/29/2016	23:18:54	0.74	63
09/30/2016	00:18:54	0.31	53
09/30/2016	01:18:54	0.18	53
09/30/2016	02:18:54	0.50	52
09/30/2016	03:18:54	0.21	7
09/30/2016	04:18:54	0.15	58
09/30/2016	05:18:54	0.21	38
09/30/2016	06:18:54	0.21	55
09/30/2016	07:18:54	0.21	334
09/30/2016	07:18:54	0.25	57
09/30/2016	09:18:54	0.35	39
09/30/2016	10:18:54	0.28	44
09/30/2016	11:18:54	1.23	307
09/30/2016	12:18:54	0.53	48
09/30/2016	13:18:54	0.52	14
09/30/2016	14:18:54	0.90	14
09/30/2016	15:18:54	0.64	51
		0.98	
09/30/2016	16:18:54		331

### Appendix I Impact Daytime Construction Noise Monitoring Results

		Nois	se Level for 30	0-min, dB(A) <sup>#</sup>					
Date	Weather Condition	Time	L90	L10	Leq	Averaged Wind Speed (m/s)	Baseline Noise Level, dB(A)	Limit Level, dB(A)	Exceedance (Y/N)
1-Sep-16	Fine	10:30	64	69	67	<5m/s	62.9	75	N
7-Sep-16	Cloudy	10:59	64	69	67	<5m/s	62.9	75	N
13-Sep-16	Sunny	10:35	64	71	68	<5m/s	62.9	75	Ν
19-Sep-16	Sunny	10:18	69	74	72	<5m/s	62.9	75	Ν
30-Sep-16	Cloudy	10:34	66	70	68	<5m/s	62.9	75	Ν
		Min	64	69	67				
		Max	69	74	72				
		Average			69				

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) <sup>#</sup>	-				
Date	Weather Condition	Time	L90	L10	Leq	Averaged Wind Speed (m/s)	Baseline Noise Level, dB(A) ^	Limit Level, dB(A)**	Exceedance (Y/N)
1-Sep-16	Fine	11:20	63	68	66	<5m/s	66.3	70	Ν
7-Sep-16	Cloudy	14:10	66	69	67	<5m/s	66.3	70	Ν
13-Sep-16	Sunny	11:20	62	69	66	<5m/s	66.3	70	Ν
19-Sep-16	Sunny	11:10	60	69	67	<5m/s	66.3	70	Ν
30-Sep-16	Cloudy	11:20	65	69	68	<5m/s	66.3	70	Ν
		Min	60	68	66				
		Max	66	69	68				
		Average			67				

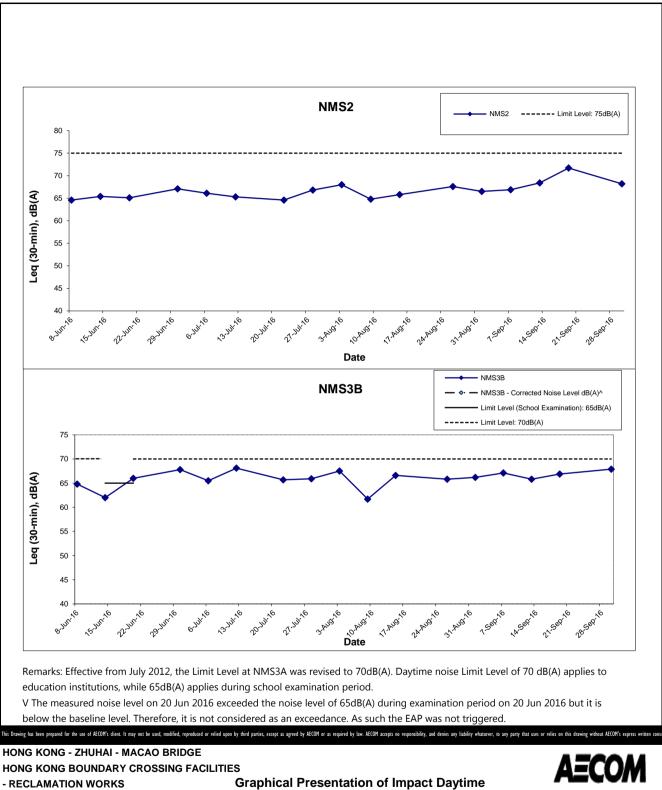
Remark:

 $^{\#}$  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 Daytim Construction Noise Monitoring Results

Appendix I

Project No.: 60249820

Date: October 2016

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

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	F	Н	Salini	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*
2-Sep-16	Fine	Moderate	13:00		Surface	1.0	28.3 28.3	28.3	8.1 8.1	8.1	25.9 25.9	25.9	80.7 80.7	80.7	5.4 5.4	5.4	5.4	10.3 10.1	10.2		15.3 16.8	16.1	1
				6.7	Middle	3.4	28.1 28.2	28.2	8.1 8.1	8.1	26.3 26.1	26.2	80.2 79.9	80.1	5.4 5.4	5.4	5.4	10.5 10.6	10.6	10.5	15.1 14.2	14.7	14.6
					Bottom	5.7	28.3 28.1	28.2	8.1 8.1	8.1	26.2 26.5	26.3	79.6 79.0	79.3	5.4 5.3	5.3	5.3	10.7 10.8	10.8		12.5 13.5	13.0	1
5-Sep-16	Fine	Moderate	14:34		Surface	1.0	28.2 28.1	28.2	7.9 7.9	7.9	23.9 22.5	23.2	77.9 77.4	77.7	5.3 5.3	5.3	5.0	6.3 6.2	6.3		7.0 6.0	6.5	
				6.7	Middle	3.4	28.2 28.2	28.2	7.9 7.9	7.9	23.7 26.3	25.0	76.7 77.4	77.1	5.3 5.3	5.3	5.3	6.5 6.4	6.5	6.5	6.3 7.5	6.9	7.2
					Bottom	5.7	28.2 28.1	28.2	7.9 7.8	7.9	27.2 27.5	27.4	76.1 76.3	76.2	5.2 5.2	5.2	5.2	6.6 6.7	6.7		8.3 8.2	8.3	1
7-Sep-16	Cloudy	Moderate	15:48		Surface	1.0	28.4 28.3	28.4	7.8 7.8	7.8	21.5 21.7	21.6	79.3 79.1	79.2	5.8 5.8	5.8		4.9 4.9	4.9		5.3 4.5	4.9	
				6.5	Middle	3.3	28.2 28.3	28.2	7.8	7.8	22.2	22.2	75.4 77.3	76.4	5.5 5.6	5.6	5.7	5.4 5.6	5.5	5.4	4.8	5.2	5.1
					Bottom	5.5	28.1 27.9	28.0	7.8 7.7	7.8	27.0 26.7	26.9	78.7 76.0	77.4	5.6 5.5	5.5	5.5	5.7 6.0	5.9		4.8 5.5	5.2	1
9-Sep-16	Fine	Moderate	17:33		Surface	1.0	28.7 28.7	28.7	8.0 7.9	7.9	15.3 15.7	15.5	79.5 82.7	81.1	5.7 5.9	5.8	5.0	3.6 3.5	3.6		2.6 2.7	2.7	
				6.6	Middle	3.3	28.5 28.3	28.4	7.9 7.9	7.9	20.1 20.3	20.2	77.2 76.1	76.7	5.4 5.4	5.4	5.6	3.4 3.7	3.6	3.6	3.0 2.6	2.8	3.0
					Bottom	5.6	28.2 28.2	28.2	7.8 7.8	7.8	25.6 25.5	25.6	79.9 78.5	79.2	5.5 5.4	5.4	5.4	3.8 3.5	3.7		4.2 2.7	3.5	1
12-Sep-16	Sunny	Moderate	10:00		Surface	1.0	29.1 29.2	29.1	8.1 8.1	8.1	16.7 16.5	16.6	87.2 88.4	87.8	6.3 6.4	6.4	6.1	3.3 3.1	3.2		1.8 1.6	1.7	
				6.4	Middle	3.2	28.5 28.6	28.5	8.0 8.0	8.0	20.8 21.2	21.0	82.0 79.3	80.7	5.9 5.7	5.8	0.1	4.3 4.2	4.3	4.3	1.7 1.7	1.7	2.1
					Bottom	5.4	28.1 28.1	28.1	7.9 7.9	7.9	29.3 28.6	28.9	86.7 81.1	83.9	6.0 5.7	5.8	5.8	5.3 5.3	5.3		2.9 3.1	3.0	1
14-Sep-16	Sunny	Moderate	11:44		Surface	1.0	29.2 29.2	29.2	8.2 8.2	8.2	13.4 12.6	13.0	101.4 99.7	100.6	7.1 7.1	7.1	7.1	2.8 2.8	2.8		2.8 2.6	2.7	
				7.0	Middle	3.5	29.2 29.2	29.2	8.2 8.2	8.2	12.9 14.2	13.6	99.7 100.0	99.9	7.1 7.1	7.1	7.1	2.8 2.8	2.8	2.8	2.7 2.7	2.7	3.1
					Bottom	6.0	29.2 29.2	29.2	8.2 8.2	8.2	15.8 13.3	14.6	99.5 99.6	99.6	7.1 7.1	7.1	7.1	2.8 2.8	2.8		3.9 4.1	4.0	L
16-Sep-16	Sunny	Moderate	13:06		Surface	1.0	28.5 28.5	28.5	8.1 8.1	8.1	27.8 27.8	27.8	84.4 83.6	84.0	5.8 5.8	5.8	5.8	6.9 6.6	6.8		7.0 6.1	6.6	
				6.4	Middle	3.2	28.5 28.4	28.5	8.1 8.1	8.1	28.0 28.0	28.0	83.7 82.7	83.2	5.8 5.7	5.7	5.6	9.2 8.6	8.9	8.3	7.0 7.0	7.0	7.1
					Bottom	5.4	28.4 28.4	28.4	8.1 8.1	8.1	28.5 28.5	28.5	84.0 84.0	84.0	5.8 5.8	5.8	5.8	9.0 9.3	9.2		6.8 8.7	7.8	1
19-Sep-16	Sunny	Moderate	13:55		Surface	1.0	28.6 28.9	28.7	8.0 8.0	8.0	28.8 28.2	28.5	78.1 78.0	78.1	5.5 5.5	5.5	5.5	9.2 9.2	9.2		7.0 8.4	7.7	
				6.7	Middle	3.4	28.5 28.4	28.4	8.0 8.0	8.0	29.1 29.3	29.2	77.6 77.4	77.5	5.5 5.5	5.5	5.5	9.6 9.5	9.6	9.5	8.5 7.2	7.9	7.7
					Bottom	5.7	28.4 28.4	28.4	8.0 8.0	8.0	29.4 29.3	29.3	76.9 76.7	76.8	5.5 5.4	5.4	5.4	9.7 9.8	9.8		7.6 7.3	7.5	L
21-Sep-16	Sunny	Moderate	15:33		Surface	1.0	28.9 28.9	28.9	8.0 8.0	8.0	28.9 28.9	28.9	83.2 82.2	82.7	5.6 5.6	5.6	5.5	5.4 5.5	5.5		7.1 7.4	7.3	
				6.7	Middle	3.4	28.4 28.3	28.4	8.0 8.0	8.0	29.8 29.9	29.8	79.6 79.6	79.6	5.4 5.4	5.4	5.5	6.6 6.3	6.5	6.4	4.1 5.5	4.8	5.8
					Bottom	5.7	28.2 28.2	28.2	8.0 8.0	8.0	30.1 30.1	30.1	80.2 80.5	80.4	5.5 5.5	5.5	5.5	7.3	7.3		5.0	5.3	1

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

Date	Weather	Sea	Sampling	Water	Samplir	ng	Tempera	ature (°C)	p	Н	Salini	y (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Т	urbidity(NTL	J)	Suspe	ended 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-Sep-16	Sunny	Moderate	17:16		Surface	1.0	28.4 28.6	28.5	8.2 8.2	8.2	27.9 26.6	27.2	78.3 83.2	80.8	5.2 5.6	5.4	5.3	4.0 4.2	4.1		7.0 7.3	7.2	
				7.1	Middle	3.6	28.3 28.3	28.3	8.2 8.2	8.2	29.2 29.9	29.5	78.9 78.1	78.5	5.2 5.2	5.2	5.5	4.3 4.4	4.4	4.3	5.7 6.1	5.9	6.2
					Bottom	6.1	28.2 28.2	28.2	8.2 8.2	8.2	29.6 30.3	29.9	77.9 77.6	77.8	5.2 5.1	5.1	5.1	4.4 4.4	4.4		5.2 5.9	5.6	
26-Sep-16	Sunny	Moderate	09:43		Surface	1.0	29.0 29.0	29.0	8.1 8.1	8.1	24.5 25.7	25.1	86.8 87.1	87.0	5.8 5.9	5.9	5.9	1.9 1.9	1.9		2.6 3.9	3.3	
				6.7	Middle	3.4	29.0 29.0	29.0	8.0 8.0	8.0	26.7 26.8	26.8	86.4 86.6	86.5	5.8 5.8	5.8	0.0	2.1 2.0	2.1	2.1	3.3 3.4	3.4	3.5
					Bottom	5.7	29.0 29.0	29.0	8.0 8.0	8.0	26.8 26.8	26.8	85.7 86.2	86.0	5.7 5.7	5.7	5.7	2.1 2.2	2.2		3.1 4.2	3.7	
28-Sep-16	Fine	Rough	11:47		Surface	1.0	28.9 28.9	28.9	8.1 8.1	8.1	28.1 28.1	28.1	89.7 88.4	89.1	5.9 5.8	5.9	5.9	3.7 3.5	3.6		8.3 6.9	7.6	
				6.3	Middle	3.2	28.9 28.9	28.9	8.1 8.1	8.1	28.3 28.3	28.3	87.9 88.2	88.1	5.8 5.8	5.8	5.5	4.0 3.9	4.0	3.9	9.1 10.1	9.6	8.9
					Bottom	5.3	28.9 28.9	28.9	8.1 8.1	8.1	28.3 28.3	28.3	88.6 90.2	89.4	5.8 5.9	5.9	5.9	4.2 3.9	4.1		8.7 10.5	9.6	
30-Sep-16	Fine	Moderate	12:04		Surface	1.0	27.9 27.9	27.9	8.2 8.2	8.2	28.0 28.4	28.2	89.5 88.7	89.1	6.0 5.9	5.9	5.9	5.3 5.4	5.4		10.0 9.1	9.6	
				6.8	Middle	3.4	27.9 28.0	28.0	8.2 8.2	8.2	28.6 28.9	28.7	88.6 88.2	88.4	5.9 5.9	5.9	5.5	5.5 5.6	5.6	5.6	10.1 8.7	9.4	9.5
					Bottom	5.8	27.9 28.0	27.9	8.2 8.2	8.2	28.5 29.0	28.8	88.1 88.5	88.3	5.9 5.9	5.9	5.9	5.8 5.9	5.9		9.7 9.3	9.5	

### 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

## Water Quality Monitoring Results at CS(Mf)3 - 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)	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-Sep-16	Fine	Moderate	07:31		Surface	1.0	28.0 28.0	28.0	8.0 8.0	8.0	26.6 26.6	26.6	79.7 80.2	80.0	5.5 5.6	5.6	5.0	15.3 15.2	15.3		16.5 17.1	16.8	
				6.9	Middle	3.5	27.9 27.9	27.9	8.0 8.0	8.0	26.9 26.9	26.9	79.4 78.8	79.1	5.5 5.5	5.5	5.6	15.6 15.4	15.5	15.5	16.6 18.3	17.5	18.6
					Bottom	5.9	27.9 27.9	27.9	8.0 8.0	8.0	27.1 27.0	27.1	77.9	78.3	5.4 5.5	5.4	5.4	15.7 15.9	15.8		20.6	21.6	
5-Sep-16	Fine	Moderate	09:20		Surface	1.0	28.1 28.2	28.1	8.0 8.0	8.0	27.3 26.3	26.8	80.9 80.4	80.7	5.6 5.5	5.5		13.1 13.2	13.2		8.2 7.0	7.6	
				6.9	Middle	3.5	28.0 28.0 28.0	28.0	8.0 8.0 8.0	8.0	27.8 27.6	27.7	80.2 78.8	79.5	5.5 5.4	5.5	5.5	13.2 13.3 13.3	13.3	13.4	6.2 6.8	6.5	7.0
					Bottom	5.9	28.0 28.0 28.0	28.0	8.0 8.0 8.0	8.0	27.6 28.1 27.9	28.0	79.1 78.8	79.0	5.4 5.4 5.4	5.4	5.4	13.5 13.6	13.6		7.1	6.9	
7-Sep-16	Rainy	Moderate	11:12		Surface	1.0	28.2 28.3	28.2	7.7	7.8	23.9 23.5	23.7	77.2	78.2	5.6	5.7		5.4	5.3		5.9	5.9	
				6.7	Middle	3.4	28.3 28.0 28.0	28.0	7.8 7.8 7.7	7.7	26.9	26.8	76.0	75.6	5.7 5.4	5.4	5.6	5.1 9.5	9.3	7.9	5.8 5.6	5.6	5.5
					Bottom	5.7	27.9	28.0	7.6	7.7	26.6	27.6	75.1	76.6	5.4 5.4	5.5	5.5	9.1 9.3	9.2		5.6 4.8	5.0	
9-Sep-16 ^	-	-	-		Surface	-	- 28.0	-	7.7	-	27.7	-	- 77.9	-	<u>5.6</u> -	-		9.0	-		5.1	-	
				-	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<u> </u>	-	-	- -
					Bottom	-	-	-	-	-	-	-	-	-		-	-		-		-	-	
12-Sep-16	Sunny	Moderate	16:29		Surface	1.0	29.6 29.6	29.6	8.0 8.0	8.0	20.2 20.2	20.2	89.7 86.4	88.1	6.3 6.1	6.2		3.4 3.4	3.4		3.3 2.2	2.8	
				6.2	Middle	3.1	28.5 28.5	28.5	8.0 8.0	8.0	22.9 23.2	23.0	76.7	75.5	5.4 5.3	5.3	5.8	3.5 3.5	3.5	3.8	2.8 2.5	2.7	2.7
					Bottom	5.2	27.9 27.9	27.9	7.9	7.9	28.9	28.7	70.8	70.9	5.1 5.1	5.1	5.1	4.4	4.6		2.7	2.5	
14-Sep-16	Sunny	Moderate	17:30		Surface	1.0	29.1 29.2	29.1	8.3 8.3	8.3	19.0 19.4	19.2	99.6 96.8	98.2	6.7 6.7	6.7		5.0 4.9	5.0		4.3	3.8	
				6.9	Middle	3.5	28.7 28.9	28.8	8.2 8.2	8.2	22.8	22.5	88.5 94.2	91.4	6.0 6.4	6.2	6.5	5.1 5.1	5.1	5.2	3.8 3.5	3.7	3.7
					Bottom	5.9	29.0 28.1	28.5	8.3 8.1	8.2	23.8 26.5	25.2	93.6 82.3	88.0	6.5 5.6	6.0	6.0	5.4 5.3	5.4		4.0	3.7	
16-Sep-16	Fine	Moderate	18:34		Surface	1.0	28.2	28.2	8.2 8.2	8.2	22.5 22.8	22.7	84.1 81.4	82.8	6.0 5.8	5.9		5.9 6.2	6.1		5.5 5.2	5.4	
				6.3	Middle	3.2	28.1 28.1	28.1	8.2 8.2	8.2	23.0 23.3	23.2	80.8 79.5	80.2	5.7 5.6	5.7	5.8	7.0	7.0	6.8	4.8	4.5	5.5
					Bottom	5.3	28.0 28.0	28.0	8.2 8.2	8.2	23.6 23.2	23.4	81.4 82.7	82.1	5.8 5.9	5.8	5.8	7.7	7.4		7.5	6.7	
19-Sep-16	Sunny	Moderate	08:51		Surface	1.0	28.4 28.3	28.4	8.1 8.0	8.1	29.2 29.2 29.2	29.2	76.3 76.7	76.5	5.4 5.4	5.4		23.1 23.0	23.1		20.3 19.5	19.9	
				6.8	Middle	3.4	28.3 28.3	28.3	8.0 8.1	8.1	29.3 29.3	29.3	75.9	75.9	5.4 5.4	5.4	5.4	23.2 23.4	23.3	23.3	24.8 25.4	25.1	23.0
					Bottom	5.8	28.3 28.3	28.3	8.1 8.0	8.1	29.3 29.3 29.3	29.3	75.2	75.1	5.4 5.3 5.3	5.3	5.3	23.4 23.7 23.5	23.6		23.4 24.5 23.2	23.9	1
21-Sep-16	Sunny	Moderate	10:57		Surface	1.0	28.3 28.2	28.3	8.0 7.9	8.0	27.6 27.9	27.7	80.5 81.9	81.2	5.6 5.7	5.6		7.9	8.0		9.1 10.0	9.6	
				6.6	Middle	3.3	28.2 28.2 28.2	28.2	8.0 7.9	7.9	28.0 28.0	28.0	80.0 81.7	80.9	5.7 5.5 5.6	5.6	5.6	8.6 8.8	8.7	8.6	9.1 9.1	9.1	9.5
					Bottom	5.6	28.1	28.1	7.8	7.9	28.8	28.5	84.2	82.3	5.8	5.7	5.7	9.3	9.2		9.8	9.9	1
							28.2		8.0		28.3		80.3		5.5			9.0	1		9.9		

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

Date	Weather	Sea	Sampling	Water	Sampli	ing	Tempera	ature (°C)	p	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Т	urbidity(NTl	J)	Susper	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-Sep-16	Sunny	Moderate	13:08		Surface	1.0	28.5 28.6	28.5	8.2 8.2	8.2	24.8 20.9	22.9	94.2 85.2	89.7	6.4 5.9	6.2	6.1	6.0 6.0	6.0		4.1 3.9	4.0	
				7.1	Middle	3.6	28.4 28.4	28.4	8.2 8.2	8.2	21.1 24.4	22.8	84.1 87.0	85.6	5.8 5.9	5.9	0.1	6.2 6.1	6.2	6.2	2.2 2.2	2.2	3.8
					Bottom	6.1	28.3 28.3	28.3	8.2 8.2	8.2	23.5 21.4	22.5	86.3 83.1	84.7	5.8 5.8	5.8	5.8	6.3 6.2	6.3		5.9 4.3	5.1	
26-Sep-16	Sunny	Moderate	17:06		Surface	1.0	29.6 29.6	29.6	8.1 8.1	8.1	22.5 22.3	22.4	88.8 88.1	88.5	6.0 5.9	5.9	5.9	2.7 2.7	2.7		4.6 5.4	5.0	
				6.8	Middle	3.4	29.2 29.2	29.2	8.0 8.0	8.0	23.6 24.8	24.2	87.3 88.0	87.7	5.9 5.9	5.9	0.0	2.8 2.8	2.8	2.8	6.4 5.1	5.8	5.2
					Bottom	5.8	29.3 28.9	29.1	8.0 8.0	8.0	26.4 26.5	26.4	87.9 87.2	87.6	5.8 5.8	5.8	5.8	2.9 2.8	2.9		4.7 4.9	4.8	
28-Sep-16	Fine	Rough	17:31		Surface	1.0	29.0 29.0	29.0	8.2 8.2	8.2	25.5 25.5	25.5	89.4 90.2	89.8	6.0 6.0	6.0	6.0	6.7 6.3	6.5		4.3 4.6	4.5	
				6.6	Middle	3.3	29.0 29.0	29.0	8.2 8.2	8.2	25.9 25.9	25.9	89.6 88.9	89.3	6.0 5.9	6.0	0.0	7.2 6.8	7.0	7.0	5.0 5.2	5.1	4.7
					Bottom	5.6	29.0 29.0	29.0	8.2 8.2	8.2	26.2 26.3	26.3	89.8 89.5	89.7	6.0 6.0	6.0	6.0	7.7 7.3	7.5		3.8 5.0	4.4	
30-Sep-16	Cloudy	Moderate	07:04		Surface	1.0	27.9 27.9	27.9	8.2 8.2	8.2	28.5 28.8	28.7	87.5 88.2	87.9	5.9 5.9	5.9	5.9	7.3 7.1	7.2		7.7 8.5	8.1	
				6.9	Middle	3.5	28.0 28.0	28.0	8.2 8.2	8.2	29.3 29.2	29.3	86.6 86.4	86.5	5.8 5.8	5.8	0.0	7.4 7.4	7.4	7.4	10.5 8.7	9.6	9.3
					Bottom	5.9	28.0 28.0	28.0	8.2 8.2	8.2	29.6 29.6	29.6	86.2 86.5	86.4	5.7 5.7	5.7	5.7	7.5 7.5	7.5		10.5 9.7	10.1	

#### 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.

^ The scheduled water quality monitoring during mid-flood tide on 9 September 2016 was cancelled due to thunderstorm Signal hoisted 3 hours before the scheduled monitoring time.

Remarks:

\* DA: Depth-Averaged

## Water Quality Monitoring Results at CS4 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	ĥ	H	Salini	ity (ppt)	DO Satu	ration (%)	Dissolv	/ed Oxygen	(mg/L)	Т	urbidity(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-Sep-16	Fine	Moderate	12:39		Surface	1.0	28.3 28.2	28.3	8.1 8.1	8.1	26.0 26.0	26.0	83.3 82.1	82.7	5.6 5.5	5.6		13.3 13.4	13.4		15.2 14.1	14.7	
				16.3	Middle	8.2	28.2	28.2	8.1 8.1	8.1	26.1 26.1	26.1	81.7 82.4	82.1	5.5 5.5	5.5	5.6	13.5 13.6	13.6	13.6	16.1 13.9	15.0	15.3
					Bottom	15.3	28.1	28.2	8.1 8.1	8.1	26.3 26.1	26.2	81.2 81.2	81.2	5.5 5.5	5.5	5.5	13.7 13.8	13.8		16.3 16.0	16.2	
5-Sep-16	Fine	Moderate	14:13		Surface	1.0	28.3 28.3	28.3	7.9 7.8	7.8	25.2 24.7	24.9	79.4 79.1	79.3	5.5 5.4	5.4		6.8 6.9	6.9		6.3 6.2	6.3	
				15.6	Middle	7.8	28.2 28.3	28.2	7.8 7.8	7.8	26.7 25.5	26.1	78.8 78.4	78.6	5.4 5.4	5.4	5.4	7.0	7.1	7.1	8.7 7.8	8.3	9.2
					Bottom	14.6	28.1	28.1	7.8	7.8	27.6 27.6	27.6	78.3 77.9	78.1	5.4 5.3	5.4	5.4	7.2	7.3		12.0 14.1	13.1	
7-Sep-16	Cloudy	Moderate	15:26		Surface	1.0	28.3 28.3	28.3	7.8 7.8	7.8	21.9 21.9	21.9	77.3 79.4	78.4	5.6 5.7	5.7	5.0	5.6 5.6	5.6		5.4 5.7	5.6	
				16.2	Middle	8.1	27.9 28.1	28.0	7.7 7.7	7.7	27.5 25.6	26.6	77.4 75.8	76.6	5.6 5.5	5.5	5.6	7.4 7.2	7.3	7.0	6.2 5.5	5.9	6.0
					Bottom	15.2	28.1 27.9	28.0	7.6 7.7	7.7	26.8 27.8	27.3	71.4 73.7	72.6	5.1 5.3	5.2	5.2	8.2 8.2	8.2		7.1 5.7	6.4	
9-Sep-16	Fine	Moderate	17:14		Surface	1.0	28.7 28.7	28.7	8.0 7.9	8.0	14.4 15.6	15.0	76.8 77.9	77.4	5.5 5.6	5.6	5.5	3.8 3.9	3.9		4.2 4.1	4.2	
				16.5	Middle	8.3	27.9 27.8	27.8	7.8 7.8	7.8	26.2 26.5	26.4	76.5 75.7	76.1	5.4 5.4	5.4	0.0	5.2 5.4	5.3	4.8	3.0 2.7	2.9	3.4
					Bottom	15.5	27.7 27.9	27.8	7.7 7.7	7.7	27.8 27.7	27.7	74.0 74.6	74.3	5.1 5.1	5.1	5.1	5.5 5.1	5.3		3.3 2.7	3.0	
12-Sep-16	Sunny	Moderate	10:21		Surface	1.0	29.1 28.9	29.0	8.1 8.1	8.1	16.6 16.5	16.6	81.1 82.0	81.6	5.6 5.7	5.6	5.7	4.9 4.6	4.8		2.2 2.1	2.2	
				16.3	Middle	8.2	28.0 28.1	28.0	8.0 8.0	8.0	28.8 28.0	28.4	77.5 78.8	78.2	5.7 5.8	5.7		5.3 5.5	5.4	5.3	2.6 2.4	2.5	2.6
11.0		Malasta	10.01		Bottom	15.3	28.4 27.9	28.2	8.0 7.9	8.0	29.9 30.3	30.1	75.6 76.1	75.9	5.3 5.3	5.3	5.3	5.6 5.7	5.7		3.1 3.3	3.2	
14-Sep-16	Sunny	Moderate	12:01		Surface	1.0	29.2 29.2	29.2	8.2 8.2	8.2	12.0 11.7	11.8	100.3 100.5	100.4	7.2 7.2	7.2	7.2	2.9 2.9	2.9		5.9 4.3	5.1	
				18.0	Middle	9.0	29.2 29.2 29.2	29.2	8.2 8.2 8.2	8.2	11.9 12.3 12.0	12.1	99.5 99.9 99.0	99.7	7.2 7.2 7.1	7.2		2.9 2.9 2.9	2.9	2.9	7.2 4.7 5.3	6.0	5.7
16-Sep-16	Sunny	Moderate	13:26		Bottom	17.0	29.2 29.2 28.5	29.2	8.2 8.1	8.2	12.0	12.4	99.7 82.0	99.4	7.1	7.1	7.1	2.9	2.9		6.7 6.1	6.0	
10-3ep-16	Sunny	Moderate	13.20		Surface	1.0	28.5 28.1	28.5	8.2 8.1	8.2	26.8 29.9	27.2	80.8 75.6	81.4	5.6 5.2	5.6	5.4	8.8 8.3	8.8		5.8 5.2	6.0	
				16.1	Middle	8.1	28.1	28.1	8.1 8.1	8.1	30.8 30.5	30.3	75.3 73.3	75.5	5.2 5.2 5.1	5.2		8.1 7.9	8.2	8.2	6.6 4.4	5.9	5.5
19-Sep-16	Sunny	Moderate	13:35		Bottom	15.1	28.0 28.5	28.1	8.1 8.0	8.1	<u>31.0</u> 28.6	30.8	74.5 79.8	73.9	5.1 5.7	5.1	5.1	7.4	7.7		5.0 9.5	4.7	
10 000 10	<i>cu,</i>	modorato	10.00	10.0	Surface	1.0	28.4	28.4	8.0 8.0	8.0	29.1 28.8	28.9	80.2 79.5	80.0	5.7 5.6	5.7	5.7	7.1	7.1	7.0	9.1 8.4	9.3	
				16.2	Middle	8.1	28.5 28.5	28.5	8.0 8.0	8.0	29.1 29.1	28.9	79.4 78.6	79.5	5.6 5.6	5.6	5.0	7.4	7.4	7.3	7.9	8.2	9.2
21-Sep-16	Sunny	Moderate	15:12		Bottom	15.2	28.4 28.9	28.4	7.9	8.0	<u>29.2</u> 29.0	29.2	78.7 82.9	78.7	5.6 5.6	5.6	5.6	7.6	7.5		9.5 5.0	10.0	
	,			16.4	Surface	1.0	28.6 28.2	28.7 28.2	8.0 7.9	8.0	29.4 30.1	29.2	81.1 78.9	82.0 79.5	5.5 5.4	5.6	5.5	6.5 8.5	6.3	7.6	4.9	5.0	61
				16.4	Middle Bottom	8.2 15.4	28.2 28.3	28.2	8.0 8.0	8.0 7.9	30.1 30.0	30.1 30.1	80.0 81.1	79.5 80.5	5.5 5.5	5.4	5.5	8.0 8.2	8.3 8.3	7.6	6.4 6.7	6.7 6.5	6.1
					BOILON	15.4	28.2	28.3	7.9	7.9	30.1	30.1	79.8	80.5	5.5	5.5	5.5	8.3	8.3		6.3	C.0	

## Water Quality Monitoring Results at CS4 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampling	Tempe	erature (°C)	F	Η	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ved Oxyger	(mg/L)	1	urbidity(NTL	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*
23-Sep-16	Sunny	Moderate	17:08		Surface 1	.0 28.5 28.6	28.6	8.2 8.2	8.2	28.0 28.0	28.0	82.0 84.4	83.2	5.4 5.6	5.5	5.5	4.1 4.2	4.2		5.2 6.4	5.8	
				18.1	Middle 9	.1 28.3 28.3	28.3	8.2 8.2	8.2	30.1 30.1	30.1	84.0 81.3	82.7	5.6 5.4	5.5	5.5	4.3 4.3	4.3	4.3	8.0 6.7	7.4	6.7
					Bottom 17	7.1 28.2 28.3	28.3	8.2 8.2	8.2	30.5 30.5	30.5	81.7 80.5	81.1	5.4 5.3	5.3	5.3	4.4 4.3	4.4		5.8 7.9	6.9	
26-Sep-16	Sunny	Moderate	10:03		Surface 1	.0 29.1 29.1	29.1	8.1 8.1	8.1	24.9 21.7	23.3	84.7 85.1	84.9	5.7 5.8	5.7	5.7	2.1 2.1	2.1		5.3 4.9	5.1	
				15.9	Middle 8	29.0	29.0	8.1 8.0	8.1	26.5 26.7	26.6	84.5 84.0	84.3	5.6 5.6	5.6	0.1	2.2 2.3	2.3	2.3	3.9 4.3	4.1	5.4
					Bottom 14	.9 29.0 29.0	29.0	8.0 8.1	8.0	26.7 26.6	26.7	84.1 84.3	84.2	5.6 5.6	5.6	5.6	2.4 2.3	2.4		7.0 7.1	7.1	
28-Sep-16	Fine	Rough	12:09		Surface 1	.0 28.9 28.9	28.9	8.2 8.2	8.2	28.1 28.1	28.1	87.3 87.0	87.2	5.8 5.7	5.8	5.7	3.2 3.4	3.3		8.5 7.1	7.8	
				16.4	Middle 8	.2 28.9 28.9	28.9	8.2 8.1	8.2	28.5 28.6	28.6	85.0 84.8	84.9	5.6 5.6	5.6	5.7	3.4 3.1	3.3	3.3	6.0 8.2	7.1	8.3
					Bottom 15	i.4 28.9 28.9	28.9	8.2 8.1	8.1	28.6 28.7	28.7	85.6 85.2	85.4	5.6 5.6	5.6	5.6	3.2 3.2	3.2		10.7 9.3	10.0	
30-Sep-16	Fine	Moderate	11:43		Surface 1	.0 27.9 27.9	27.9	8.3 8.3	8.3	28.6 28.6	28.6	90.5 91.6	91.1	6.0 6.1	6.1	6.1	5.3 5.2	5.3		6.3 5.9	6.1	
				16.0	Middle 8	.0 27.9 27.9	27.9	8.2 8.2	8.2	28.9 28.8	28.9	90.0 90.1	90.1	6.0 6.0	6.0	0.1	5.6 5.5	5.6	5.6	8.0 7.8	7.9	7.8
					Bottom 15	6.0 27.9 27.9	27.9	8.3 8.3	8.3	28.9 28.8	28.9	88.9 89.3	89.1	6.0 6.0	6.0	6.0	5.7 5.8	5.8		9.6 9.4	9.5	

### 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

## 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 Oxygen	(mg/L)	T T	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-Sep-16	Fine	Moderate	07:52		Surface	1.0	28.0 28.0	28.0	8.0 8.0	8.0	26.7 26.7	26.7	82.2 81.9	82.1	5.7 5.7	5.7	5.7	14.6 14.7	14.7		11.2 13.9	12.6	
				16.3	Middle	8.2	28.0 28.0	28.0	8.0 8.0	8.0	26.7 26.8	26.8	81.3 81.1	81.2	5.7 5.6	5.6	5.7	14.9 14.8	14.9	14.9	14.3 15.7	15.0	14.8
					Bottom	15.3	27.9 27.9	27.9	8.0 8.0	8.0	26.9 27.0	27.0	80.1 80.5	80.3	5.6 5.6	5.6	5.6	15.0 15.2	15.1		16.1 17.2	16.7	
5-Sep-16	Fine	Moderate	09:41		Surface	1.0	28.1 28.1	28.1	8.0 8.0	8.0	27.0 27.4	27.2	77.3 77.2	77.3	5.3 5.3	5.3	5.0	12.4 12.3	12.4		6.7 6.0	6.4	
				15.7	Middle	7.9	28.0 28.1	28.0	8.0 8.0	8.0	27.8 27.5	27.7	76.5 76.3	76.4	5.2 5.2	5.2	5.3	12.5 12.6	12.6	12.6	6.7 7.0	6.9	6.6
					Bottom	14.7	28.0 28.0	28.0	8.0 8.0	8.0	27.9 27.9	27.9	76.1 75.4	75.8	5.2 5.2	5.2	5.2	12.8 12.7	12.8		6.7 6.3	6.5	
7-Sep-16	Rainy	Moderate	11:32		Surface	1.0	28.3 28.3	28.3	7.9 7.9	7.9	22.4 23.3	22.8	77.8 76.3	77.1	5.7 5.5	5.6		8.0 8.4	8.2		3.2 4.7	4.0	
				16.3	Middle	8.2	27.8 27.8	27.8	7.9	7.9	27.3 28.0	27.6	71.7	71.6	5.1 5.1	5.1	5.4	8.9 8.7	8.8	9.7	3.6	3.8	4.0
					Bottom	15.3	27.8 27.8	27.8	7.8 7.8	7.8	28.0 28.5	28.3	69.5 69.1	69.3	5.1 5.0	5.0	5.0	11.7 12.2	12.0		4.4 4.1	4.3	
9-Sep-16 ^	-	-	-		Surface	-	-	-	-	-		-	-	-	-	-		-	-		-	-	1
				-	Middle	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
12-Sep-16	Sunny	Moderate	16:12		Surface	1.0	29.7 29.7	29.7	8.1 8.0	8.0	20.2 20.2	20.2	84.1 85.0	84.6	6.0 6.0	6.0	FO	4.7 4.7	4.7		2.5 3.4	3.0	
				16.0	Middle	8.0	27.8 27.8	27.8	7.9 7.9	7.9	28.4 29.4	28.9	78.3 77.9	78.1	5.5 5.5	5.5	5.8	6.2 6.5	6.4	6.6	3.6 3.1	3.4	3.1
					Bottom	15.0	27.6 27.6	27.6	7.9 7.9	7.9	30.5 30.3	30.4	74.8 75.5	75.2	5.3 5.3	5.3	5.3	8.3 8.8	8.6		2.9 2.6	2.8	
14-Sep-16	Sunny	Moderate	17:11		Surface	1.0	29.2 29.0	29.1	8.3 8.3	8.3	20.2 19.9	20.0	94.2 98.3	96.3	6.5 6.6	6.5	6.3	4.9 5.0	5.0		3.5 4.4	4.0	
				18.1	Middle	9.1	28.9 28.8	28.9	8.2 8.2	8.2	22.5 23.1	22.8	92.8 85.4	89.1	6.3 5.8	6.0	0.5	5.1 5.2	5.2	5.1	4.6 4.1	4.4	4.1
					Bottom	17.1	28.3 29.1	28.7	8.1 8.3	8.2	26.1 25.8	25.9	83.2 91.5	87.4	5.7 6.3	6.0	6.0	5.2 5.1	5.2		4.1 3.6	3.9	
16-Sep-16	Fine	Moderate	18:13		Surface	1.0	28.5 28.4	28.4	8.2 8.2	8.2	23.0 23.1	23.1	81.1 81.6	81.4	5.7 5.8	5.7	5.6	7.2 7.0	7.1		4.7 5.1	4.9	
				16.2	Middle	8.1	27.9 27.9	27.9	8.2 8.2	8.2	24.2 24.4	24.3	76.0 76.4	76.2	5.4 5.4	5.4	5.0	7.9 7.7	7.8	7.8	5.7 5.5	5.6	5.6
					Bottom	15.2	27.9 27.8	27.9	8.2 8.2	8.2	25.2 25.7	25.5	80.3 77.3	78.8	5.6 5.4	5.5	5.5	8.5 8.4	8.5		6.4 6.0	6.2	
19-Sep-16	Sunny	Moderate	09:11		Surface	1.0	28.4 28.4	28.4	8.1 8.1	8.1	29.2 29.1	29.1	79.7 78.8	79.3	5.7 5.6	5.6	5.6	22.4 22.5	22.5		24.3 22.8	23.6	
				16.4	Middle	8.2	28.3 28.3	28.3	8.1 8.1	8.1	29.3 29.2	29.3	78.1 79.1	78.6	5.5 5.6	5.6	0.0	22.6 22.6	22.6	22.7	24.6 23.8	24.2	26.1
					Bottom	15.4	28.3 28.3	28.3	8.0 8.1	8.1	29.3 29.3	29.3	78.4 77.7	78.1	5.6 5.5	5.5	5.5	22.9 22.8	22.9		30.7 30.5	30.6	
21-Sep-16	Sunny	Moderate	11:19		Surface	1.0	28.3 28.3	28.3	8.1 8.0	8.0	26.9 27.3	27.1	79.9 79.1	79.5	5.5 5.5	5.5	5.5	10.2 10.1	10.2		7.2 6.6	6.9	
				16.2	Middle	8.1	28.2 28.2	28.2	8.0 8.1	8.0	28.0 27.6	27.8	78.6 78.1	78.4	5.4 5.4	5.4	0.0	11.8 11.5	11.7	11.7	8.9 8.9	8.9	9.6
					Bottom	15.2	28.1 28.2	28.2	8.0 8.0	8.0	28.5 27.8	28.1	79.3 78.3	78.8	5.5 5.4	5.4	5.4	13.2 13.0	13.1		13.4 12.6	13.0	

## Water Quality Monitoring Results at CS4 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Sampli	ing	Tempera	ature (°C)	p	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	ı (mg/L)	1	Furbidity(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*
23-Sep-16	Sunny	Moderate	13:17		Surface	1.0	28.6 28.6	28.6	8.2 8.2	8.2	19.6 19.8	19.7	85.3 84.3	84.8	5.9 5.9	5.9	5.8	6.1 6.0	6.1		5.4 5.3	5.4	
				18.1	Middle	9.1	28.4 28.3	28.3	8.1 8.1	8.1	20.5 21.2	20.8	82.4 82.0	82.2	5.7 5.7	5.7	5.0	6.2 6.1	6.2	6.2	4.6 5.7	5.2	5.5
					Bottom	17.1	28.3 28.2	28.3	8.1 8.1	8.1	20.6 21.2	20.9	82.1 81.7	81.9	5.7 5.7	5.7	5.7	6.2 6.4	6.3		5.8 6.1	6.0	
26-Sep-16	Sunny	Moderate	16:43		Surface	1.0	29.6 29.6	29.6	8.1 8.1	8.1	22.5 22.5	22.5	90.0 90.3	90.2	6.1 6.0	6.0	6.0	2.8 2.7	2.8		4.9 6.1	5.5	
				16.0	Middle	8.0	29.3 29.1	29.2	8.1 8.1	8.1	23.4 23.6	23.5	87.9 89.2	88.6	5.9 6.0	5.9	0.0	2.8 2.8	2.8	2.8	5.7 5.1	5.4	5.5
					Bottom	15.0	29.1 29.1	29.1	8.0 8.0	8.0	26.3 26.3	26.3	86.8 88.7	87.8	5.9 5.9	5.9	5.9	2.9 2.9	2.9		5.7 5.7	5.7	
28-Sep-16	Fine	Rough	17:12		Surface	1.0	29.0 29.0	29.0	8.3 8.3	8.3	25.5 25.5	25.5	89.9 89.3	89.6	6.0 6.0	6.0	6.0	5.4 5.5	5.5		4.0 5.6	4.8	
				16.2	Middle	8.1	29.0 29.0	29.0	8.3 8.3	8.3	26.5 26.5	26.5	88.6 89.4	89.0	5.9 5.9	5.9	0.0	5.2 5.6	5.4	5.9	6.0 4.2	5.1	5.4
					Bottom	15.2	29.0 29.0	29.0	8.3 8.3	8.3	26.5 26.5	26.5	88.7 89.6	89.2	5.9 6.0	5.9	5.9	6.5 7.1	6.8		5.3 7.2	6.3	
30-Sep-16	Cloudy	Moderate	07:26		Surface	1.0	28.0 28.0	28.0	8.2 8.2	8.2	28.7 28.5	28.6	85.7 86.4	86.1	5.7 5.7	5.7	5.7	6.9 6.8	6.9		7.2 7.6	7.4	
				16.2	Middle	8.1	28.1 28.1	28.1	8.2 8.2	8.2	29.5 29.5	29.5	85.4 85.1	85.3	5.7 5.7	5.7	5.7	7.1 7.2	7.2	7.2	8.3 7.1	7.7	8.1
					Bottom	15.2	28.1 28.1	28.1	8.2 8.2	8.2	29.7 29.7	29.7	84.8 84.6	84.7	5.7 5.6	5.6	5.6	7.3 7.6	7.5		9.0 9.2	9.1	

#### 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.

^ The scheduled water quality monitoring during mid-flood tide on 9 September 2016 was cancelled due to thunderstorm Signal hoisted 3 hours before the scheduled monitoring time.

Remarks:

\* DA: Depth-Averaged

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

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	Η	Salini	ity (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	(mg/L)	Г	Furbidity(NTL	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-Sep-16	Fine	Moderate	13:41		Surface	1.0	28.2 28.2	28.2	8.3 8.3	8.3	26.1 26.0	26.1	82.5 75.8	79.2	5.6 5.2	5.4		7.3 7.2	7.3		10.1 8.5	9.3	
				11.9	Middle	6.0	28.0 28.0	28.0	8.3 8.3	8.3	26.2 26.2	26.2	75.7 78.8	77.3	5.1 5.4	5.3	5.4	8.3 8.1	8.2	8.0	9.6 9.5	9.6	9.0
					Bottom	10.9	27.9	27.9	8.3 8.3	8.3	27.5 28.6	28.0	78.5	76.3	5.4 5.1	5.2	5.2	8.2 8.5	8.4		8.5 7.9	8.2	1
5-Sep-16	Fine	Moderate	15:16		Surface	1.0	28.0 27.9	28.0	8.2 8.1	8.1	24.5 24.6	24.6	77.6	76.2	5.3 5.2	5.2		7.5 7.4	7.5		4.6 4.0	4.3	
				12.1	Middle	6.1	27.8 27.6	27.7	8.1 8.1	8.1	27.6 28.0	27.8	74.6 77.2	75.9	5.1 5.2	5.2	5.2	7.4	7.4	7.5	6.6 8.0	7.3	6.3
					Bottom	11.1	27.4	27.6	8.1 8.1	8.1	29.8 29.6	29.7	73.0 75.6	74.3	5.0 5.2	5.1	5.1	7.5	7.5		8.0 6.8	7.4	1
7-Sep-16	Cloudy	Moderate	16:27		Surface	1.0	27.9 28.1	28.0	8.2 8.2	8.2	25.4 23.4	24.4	75.7	81.7	5.2 6.0	5.6		6.2 6.3	6.3		4.0 5.4	4.7	
				11.8	Middle	5.9	27.7	27.7	8.1 8.2	8.2	27.1 27.3	27.2	74.5 80.0	77.3	5.1 5.5	5.3	5.5	6.6 6.6	6.6	6.5	6.3 5.6	6.0	5.9
					Bottom	10.8	27.6	27.6	8.1 8.1	8.1	28.9	28.5	78.2 74.1	76.2	5.4 5.1	5.3	5.3	6.6 6.5	6.6		7.0	6.9	
9-Sep-16	Fine	Moderate	18:16		Surface	1.0	28.4 28.5	28.5	8.2 8.2	8.2	16.7 17.4	17.1	77.0 82.0	79.5	5.5 5.8	5.6		3.4 3.3	3.4		2.3 2.1	2.2	
				12.1	Middle	6.1	27.6 27.8	27.7	8.1 8.1	8.1	26.9 27.2	27.1	76.3 78.6	77.5	5.2 5.3	5.2	5.4	3.3 3.3	3.3	3.3	2.0	2.2	2.3
					Bottom	11.1	27.7 27.2	27.5	8.1 8.0	8.1	29.7 30.4	30.1	72.1 72.3	72.2	4.9 5.0	4.9	4.9	3.3 3.3	3.3		2.3 2.4	2.4	
12-Sep-16	Sunny	Moderate	09:16		Surface	1.0	28.4 28.5	28.4	8.2 8.2	8.2	20.0 20.1	20.1	84.1 84.3	84.2	5.8 6.0	5.9	5.0	3.1 3.2	3.2		0.9 0.9	0.9	
				12.4	Middle	6.2	27.7 27.6	27.6	8.1 8.1	8.1	27.9 28.1	28.0	81.7 83.9	82.8	5.7 5.7	5.7	5.8	4.4 4.4	4.4	4.0	1.3 1.5	1.4	1.4
					Bottom	11.4	27.8 27.6	27.7	8.0 8.0	8.0	30.8 31.4	31.1	79.0 77.1	78.1	5.5 5.3	5.4	5.4	4.4 4.4	4.4		1.7 2.0	1.9	
14-Sep-16	Sunny	Moderate	10:47		Surface	1.0	28.7 28.7	28.7	8.3 8.3	8.3	21.1 21.2	21.1	75.4 76.5	76.0	5.2 5.3	5.2	5.2	3.8 3.6	3.7		2.9 2.9	2.9	
				12.4	Middle	6.2	27.9 27.5	27.7	8.2 8.2	8.2	29.1 28.2	28.6	76.0 76.6	76.3	5.1 5.1	5.1	5.2	4.5 4.6	4.6	4.3	2.6 2.5	2.6	2.8
					Bottom	11.4	27.4 27.8	27.6	8.2 8.2	8.2	30.1 29.8	30.0	71.5 71.8	71.7	4.8 4.8	4.8	4.8	4.5 4.5	4.5		2.7 3.0	2.9	
16-Sep-16	Sunny	Moderate	12:11		Surface	1.0	28.1 27.9	28.0	8.3 8.3	8.3	27.0 27.2	27.1	80.1 79.2	79.7	5.5 5.5	5.5	5.5	8.5 8.1	8.3		6.3 7.8	7.1	
				12.5	Middle	6.3	27.3 27.5	27.4	8.3 8.3	8.3	29.0 28.2	28.6	77.7 79.8	78.8	5.3 5.5	5.4	5.5	10.5 10.7	10.6	9.7	9.3 9.0	9.2	8.3
					Bottom	11.5	27.1 27.2	27.2	8.3 8.3	8.3	30.5 30.5	30.5	75.2 76.9	76.1	5.2 5.3	5.3	5.3	10.2 10.1	10.2		9.0 7.9	8.5	
19-Sep-16	Sunny	Moderate	14:05		Surface	1.0	28.5 28.4	28.5	8.3 8.3	8.3	27.4 27.5	27.5	65.7 66.0	65.9	5.2 5.2	5.2	5.2	6.6 6.7	6.7		7.5 8.2	7.9	
				13.0	Middle	6.5	28.2 28.2	28.2	8.3 8.3	8.3	27.7 27.8	27.8	65.6 64.7	65.2	5.2 5.1	5.2	0.2	6.7 6.8	6.8	6.8	9.0 9.0	9.0	8.7
					Bottom	12.0	27.9 27.9	27.9	8.3 8.3	8.3	28.5 28.7	28.6	65.3 64.7	65.0	5.2 5.1	5.1	5.1	6.8 6.9	6.9		9.6 8.7	9.2	
21-Sep-16	Sunny	Moderate	16:12		Surface	1.0	28.8 28.8	28.8	8.3 8.3	8.3	27.6 27.5	27.6	79.2 82.9	81.1	5.3 5.6	5.4	5.4	5.5 5.3	5.4		5.6 5.9	5.8	
				12.1	Middle	6.1	28.1 28.0	28.1	8.3 8.3	8.3	28.5 28.6	28.6	78.6 80.1	79.4	5.2 5.4	5.3	0.7	5.8 5.6	5.7	5.6	6.8 6.9	6.9	7.2
					Bottom	11.1	28.2 28.0	28.1	8.3 8.3	8.3	28.5 28.7	28.6	76.9 79.9	78.4	5.2 5.3	5.2	5.2	5.7 5.6	5.7		9.8 8.0	8.9	

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

Date	Weather	Sea	Sampling	Water	Samplir	ng	Tempera	ature (°C)	F	Η	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ved Oxygen	(mg/L)	Т	urbidity(NTL	J)	Suspe	ended 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-Sep-16	Sunny	Moderate	18:28		Surface	1.0	28.3 28.3	28.3	8.4 8.4	8.4	28.1 28.2	28.1	81.5 81.7	81.6	5.4 5.4	5.4	5.4	4.5 4.6	4.6		4.6 4.9	4.8	
				12.1	Middle	6.1	28.1 28.1	28.1	8.3 8.4	8.4	29.3 29.2	29.2	81.4 77.0	79.2	5.4 5.1	5.3	5.4	5.2 5.2	5.2	5.0	6.5 7.3	6.9	6.2
					Bottom	11.1	28.1 28.1	28.1	8.3 8.4	8.4	29.3 29.2	29.2	78.4 76.4	77.4	5.3 5.1	5.2	5.2	5.3 5.2	5.3		6.4 7.2	6.8	
26-Sep-16	Sunny	Moderate	09:15		Surface	1.0	28.8 28.7	28.7	8.3 8.3	8.3	27.0 27.1	27.1	82.6 80.4	81.5	5.5 5.4	5.4	5.3	1.5 1.6	1.6		4.7 4.7	4.7	
				13.6	Middle	6.8	28.4 28.4	28.4	8.3 8.3	8.3	29.1 29.8	29.4	78.5 78.7	78.6	5.2 5.2	5.2	0.0	2.2 2.3	2.3	2.0	4.5 5.7	5.1	4.7
					Bottom	12.6	28.4 28.4	28.4	8.3 8.3	8.3	29.7 30.5	30.1	80.1 82.1	81.1	5.3 5.4	5.3	5.3	2.0 2.1	2.1		4.5 3.9	4.2	
28-Sep-16	Fine	Rough	10:51		Surface	1.0	28.8 28.8	28.8	8.3 8.3	8.3	27.2 27.1	27.2	83.3 83.4	83.4	5.5 5.5	5.5	5.5	4.6 4.7	4.7		7.6 8.5	8.1	
				12.6	Middle	6.3	28.8 28.8	28.8	8.2 8.2	8.2	27.7 27.7	27.7	82.9 83.3	83.1	5.5 5.5	5.5	5.5	5.2 5.4	5.3	5.1	8.0 9.6	8.8	9.6
					Bottom	11.6	28.8 28.8	28.8	8.2 8.2	8.2	29.5 27.9	28.7	82.2 82.4	82.3	5.4 5.5	5.5	5.5	5.3 5.2	5.3		12.5 11.5	12.0	
30-Sep-16	Fine	Moderate	12:39		Surface	1.0	28.2 28.2	28.2	8.4 8.4	8.4	27.5 27.5	27.5	86.3 83.3	84.8	5.7 5.5	5.6	5.6	5.4 5.5	5.5		7.2 6.1	6.7	
				12.1	Middle	6.1	28.2 28.2	28.2	8.4 8.4	8.4	27.5 27.5	27.5	83.4 82.7	83.1	5.6 5.5	5.6	5.0	5.5 5.4	5.5	5.5	5.7 6.7	6.2	6.8
					Bottom	11.1	28.2 28.2	28.2	8.4 8.4	8.4	29.6 29.7	29.7	83.3 82.0	82.7	5.6 5.5	5.5	5.5	5.5 5.4	5.5		7.8 7.3	7.6	

### 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

## 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)	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-Sep-16	Fine	Moderate	06:46		Surface	1.0	27.5 27.5	27.5	8.2 8.2	8.2	29.1 29.5	29.3	74.5 73.9	74.2	5.1 5.0	5.0	5.0	7.4 7.5	7.5		5.8 4.5	5.2	
				12.4	Middle	6.2	27.4 27.4	27.4	8.2 8.2	8.2	29.8 29.8	29.8	73.8 73.9	73.9	5.0 5.0	5.0	5.0	7.7 7.8	7.8	7.7	6.2 6.1	6.2	7.1
					Bottom	11.4	27.4 27.4	27.4	8.2 8.2	8.2	29.9 29.8	29.8	73.7 73.5	73.6	5.0 5.0	5.0	5.0	7.6 7.8	7.7		10.3 9.7	10.0	
5-Sep-16	Fine	Moderate	08:46		Surface	1.0	28.2 28.1	28.2	8.2 8.2	8.2	26.6 26.5	26.5	77.3 77.3	77.3	5.2 5.3	5.2	5.2	8.3 8.3	8.3		4.6 5.8	5.2	
				12.5	Middle	6.3	27.8 27.8	27.8	8.2 8.2	8.2	27.6 27.5	27.6	75.5 76.6	76.1	5.1 5.2	5.2	5.2	8.4 8.5	8.5	8.4	6.2 6.4	6.3	6.8
					Bottom	11.5	27.5 27.8	27.7	8.2 8.2	8.2	30.6 30.5	30.5	73.0 72.4	72.7	4.9 4.9	4.9	4.9	8.3 8.5	8.4		8.1 9.6	8.9	
7-Sep-16	Rainy	Moderate	10:06		Surface	1.0	28.0 28.0	28.0	8.1 8.1	8.1	24.9 24.9	24.9	74.3 74.3	74.3	5.1 5.1	5.1	5.1	7.3 6.9	7.1		8.0 7.5	7.8	
				12.4	Middle	6.2	27.6 27.6	27.6	8.1 8.1	8.1	28.0 28.0	28.0	74.2 74.0	74.1	5.1 5.1	5.1	5.1	7.1 7.1	7.1	7.1	8.5 7.7	8.1	7.6
					Bottom	11.4	27.6 27.5	27.5	8.1 8.1	8.1	28.9 28.8	28.8	72.3 72.1	72.2	4.9 4.9	4.9	4.9	7.2 7.1	7.2		6.9 6.8	6.9	
9-Sep-16 ^	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-	_	-	-		-	-	
				-	Middle	ŀ	-	-	-	-	-	-	-	-		-	-	-	-	=	-	-	=
					Bottom	-	-	-	-	-	-	-	-	-		-	-	-	-		-	-	
12-Sep-16	Sunny	Moderate	17:17		Surface	1.0	29.5 29.3	29.4	8.4 8.4	8.4	20.4 20.7	20.6	84.0 82.0	83.0	5.8 5.7	5.8	5.7	2.6 2.8	2.7		2.2 2.6	2.4	
				12.8	Middle	6.4	27.0 27.3	27.2	8.3 8.3	8.3	29.9 29.7	29.8	80.5 81.3	80.9	5.5 5.6	5.5	0.1	4.2 4.4	4.3	3.7	3.7 2.5	3.1	3.0
					Bottom	11.8	26.7 27.0	26.8	8.3 8.3	8.3	31.1 31.6	31.4	69.1 70.1	69.6	4.8 4.8	4.8	4.8	4.1 4.1	4.1		4.0 3.2	3.6	
14-Sep-16	Sunny	Moderate	18:21		Surface	1.0	29.1 29.1	29.1	8.5 8.5	8.5	20.2 20.1	20.2	82.7 83.4	83.1	5.7 5.6	5.6	5.5	7.3 7.2	7.3		3.2 3.6	3.4	
				12.5	Middle	6.3	27.2 27.1	27.2	8.4 8.4	8.4	29.2 29.4	29.3	78.6 79.4	79.0	5.3 5.3	5.3	0.0	7.2 7.2	7.2	7.4	4.9 3.5	4.2	4.1
					Bottom	11.5	27.0 27.0	27.0	8.4 8.4	8.4	30.1 30.0	30.1	72.9 71.6	72.3	5.0 4.9	5.0	5.0	7.2 7.9	7.6		5.0 4.2	4.6	
16-Sep-16	Fine	Moderate	19:12		Surface	1.0	28.9 28.8	28.9	8.4 8.4	8.4	25.1 25.2	25.2	87.7 80.9	84.3	5.9 5.4	5.7	5.5	8.4 8.5	8.5		7.9 6.1	7.0	
				12.7	Middle	6.4	27.7 27.8	27.8	8.4 8.4	8.4	27.8 27.6	27.7	79.6 75.5	77.6	5.4 5.1	5.2		10.4 10.1	10.3	9.7	9.1 7.1	8.1	7.7
					Bottom	11.7	27.6 27.7	27.7	8.4 8.4	8.4	28.0 28.1	28.0	71.0 72.5	71.8	4.8 4.9	4.8	4.8	10.2 10.2	10.2		7.9 7.8	7.9	
19-Sep-16	Sunny	Moderate	08:08		Surface	1.0	28.0 28.1	28.0	8.3 8.3	8.3	29.5 29.3	29.4	65.9 65.8	65.9	5.2 5.2	5.2	5.2	6.4 6.3	6.4		9.3 8.4	8.9	
				13.2	Middle	6.6	27.9 27.9	27.9	8.3 8.3	8.3	29.8 29.7	29.8	65.5 65.4	65.5	5.2 5.2	5.2		6.5 6.4	6.5	6.5	8.0 7.3	7.7	8.3
					Bottom	12.2	28.0 27.9	28.0	8.3 8.3	8.3	29.7 29.8	29.8	65.1 65.4	65.3	5.1 5.2	5.1	5.1	6.6 6.5	6.6		8.5 7.8	8.2	
21-Sep-16	Sunny	Moderate	09:59		Surface	1.0	28.2 28.3	28.2	8.1 8.1	8.1	27.9 27.8	27.8	76.1 76.2	76.2	5.1 5.1	5.1	5.1	7.5	7.5		6.6 6.7	6.7	
				12.5	Middle	6.3	28.1 28.0	28.1	8.1 8.1	8.1	28.9 28.9	28.9	75.6 75.1	75.4	5.1 5.0	5.0	-	7.6 7.7	7.7	7.6	8.1 7.6	7.9	7.4
					Bottom	11.5	28.0 28.1	28.1	8.1 8.1	8.1	29.2 29.1	29.2	74.9 74.8	74.9	5.0 5.0	5.0	5.0	7.8 7.6	7.7		7.7 7.6	7.7	

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

Date	Weather	Sea	Sampling	Water	Samplin	ng	Tempera	ature (°C)	p	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Т	urbidity(NTl	))	Suspe	nded Solids	; (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth (n	n)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Sep-16	Sunny	Moderate	12:31		Surface	1.0	28.4 28.5	28.5	8.2 8.2	8.2	27.9 27.8	27.8	76.9 77.1	77.0	5.1 5.1	5.1	5.1	6.3 6.3	6.3		5.2 5.4	5.3	Í
				12.5	Middle	6.3	28.1 28.1	28.1	8.2 8.2	8.2	28.1 28.1	28.1	76.8 76.7	76.8	5.1 5.1	5.1	5.1	6.4 6.4	6.4	6.4	5.8 5.4	5.6	5.4
					Bottom	11.5	28.1 28.2	28.1	8.2 8.2	8.2	28.7 28.7	28.7	74.3 75.1	74.7	5.0 5.0	5.0	5.0	6.5 6.5	6.5		5.5 5.1	5.3	
26-Sep-16	Sunny	Moderate	17:00		Surface	1.0	29.3 29.4	29.3	8.4 8.4	8.4	26.4 26.5	26.4	84.5 85.8	85.2	5.6 5.7	5.6	5.4	1.8 1.9	1.9		3.9 3.7	3.8	
				13.3	Middle	6.7	28.6 28.5	28.5	8.4 8.4	8.4	29.0 29.1	29.1	78.9 79.0	79.0	5.2 5.2	5.2	0.4	2.9 3.1	3.0	3.3	3.0 2.9	3.0	3.6
					Bottom	12.3	28.5 28.5	28.5	8.4 8.4	8.4	29.2 29.2	29.2	80.7 81.4	81.1	5.3 5.4	5.4	5.4	5.0 5.2	5.1		3.9 4.0	4.0	
28-Sep-16	Fine	Rough	18:06		Surface	1.0	28.8 28.8	28.8	8.4 8.4	8.4	26.4 26.4	26.4	83.6 82.9	83.3	5.6 5.5	5.5	5.5	5.7 5.5	5.6		5.7 8.0	6.9	
				12.8	Middle	6.4	28.7 28.7	28.7	8.4 8.4	8.4	27.8 28.1	27.9	82.7 81.1	81.9	5.5 5.4	5.4	5.5	5.5 5.6	5.6	5.6	7.6 5.9	6.8	7.1
					Bottom	11.8	28.7 28.7	28.7	8.4 8.4	8.4	28.7 28.9	28.8	80.6 80.4	80.5	5.3 5.3	5.3	5.3	5.5 5.5	5.5		7.8 7.1	7.5	
30-Sep-16	Cloudy	Moderate	06:01		Surface	1.0	27.9 27.9	27.9	8.4 8.3	8.4	27.9 27.9	27.9	80.6 80.2	80.4	5.4 5.4	5.4	5.4	7.5 7.6	7.6		5.6 3.9	4.8	
				12.4	Middle	6.2	28.2 28.2	28.2	8.3 8.3	8.3	30.1 30.1	30.1	80.0 80.5	80.3	5.3 5.3	5.3	5.7	7.8 7.6	7.7	7.7	6.6 5.2	5.9	6.2
					Bottom	11.4	28.2 28.2	28.2	8.3 8.3	8.3	30.2 30.1	30.2	79.6 79.4	79.5	5.3 5.2	5.2	5.2	7.7 7.8	7.8		7.4 8.3	7.9	

#### 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.

^ The scheduled water quality monitoring during mid-flood tide on 9 September 2016 was cancelled due to thunderstorm Signal hoisted 3 hours before the scheduled monitoring time.

Remarks:

\* DA: Depth-Averaged

## Water Quality Monitoring Results at CS6 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	ĥ	ЪН	Salini	ity (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Т	urbidity(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-Sep-16	Fine	Moderate	14:01		Surface	1.0	28.2 28.3	28.2	8.1 8.1	8.1	19.7 19.3	19.5	79.8 79.5	79.7	5.6 5.6	5.6		4.5 4.5	4.5		7.9 9.1	8.5	
				11.6	Middle	5.8	28.2 28.3	28.3	8.1 8.1	8.1	19.5 19.7	19.6	77.3 76.8	77.1	5.4 5.4	5.4	5.5	4.5 4.6	4.6	4.6	10.6 10.5	10.6	9.8
					Bottom	10.6	28.3 28.1	28.2	8.1 8.1	8.1	19.8 20.5	20.1	75.7 76.9	76.3	5.3 5.4	5.3	5.3	4.7	4.7		9.4	10.4	
5-Sep-16	Fine	Moderate	15:58		Surface	1.0	27.8	27.7	7.9 7.9	7.9	28.4 28.8	28.6	77.2	77.5	5.3 5.3	5.3		6.9 6.9	6.9		8.6 7.6	8.1	
				10.7	Middle	5.4	27.6 27.6	27.6	7.9 7.8	7.9	29.0 30.6	29.8	76.9 77.3	77.1	5.3 5.3	5.3	5.3	7.0	7.1	7.1	7.5	8.1	7.9
					Bottom	9.7	27.5	27.6	7.8	7.8	30.8 30.5	30.6	76.2 75.9	76.1	5.2 5.2	5.2	5.2	7.3	7.3		7.2	7.4	
7-Sep-16	Cloudy	Moderate	17:05		Surface	1.0	28.0 28.0	28.0	7.8	7.7	19.3 21.3	20.3	77.1	78.0	5.7 5.8	5.7		2.9 2.8	2.9		6.3 5.1	5.7	
				10.1	Middle	5.1	27.6 27.8	27.7	7.7	7.7	22.4 25.3	23.8	73.9 75.1	74.5	5.4 5.4	5.4	5.6	2.9 2.9	2.9	3.0	5.8 7.0	6.4	5.8
					Bottom	9.1	27.6 27.6	27.6	7.5 7.7	7.6	28.0 23.5	25.7	77.2 75.1	76.2	5.5 5.5	5.5	5.5	3.2 3.0	3.1		5.3 5.2	5.3	
9-Sep-16	Fine	Moderate	18:51		Surface	1.0	28.5 28.4	28.5	8.0 8.0	8.0	18.1 16.1	17.1	83.4 82.7	83.1	5.9 5.9	5.9	5.7	2.2 2.1	2.2		2.2 2.6	2.4	
				10.1	Middle	5.1	28.0 28.0	28.0	8.0 7.9	8.0	21.4 24.1	22.7	76.2 77.4	76.8	5.4 5.4	5.4	5.7	2.2 2.4	2.3	2.2	3.2 2.5	2.9	2.8
					Bottom	9.1	27.8 28.0	27.9	7.9 7.9	7.9	27.0 25.6	26.3	81.0 82.7	81.9	5.5 5.7	5.6	5.6	2.3 2.1	2.2		3.0 3.3	3.2	
12-Sep-16	Sunny	Moderate	08:39		Surface	1.0	28.6 28.7	28.6	8.0 8.0	8.0	21.0 20.2	20.6	83.1 87.3	85.2	6.0 6.3	6.1	5.8	2.4 2.6	2.5		3.1 2.5	2.8	
				10.1	Middle	5.1	28.0 28.0	28.0	7.9 7.9	7.9	25.8 25.7	25.8	75.9 76.1	76.0	5.4 5.4	5.4		2.7 2.3	2.5	2.5	3.0 2.8	2.9	2.8
					Bottom	9.1	28.0 28.0	28.0	7.9 7.9	7.9	26.0 25.9	25.9	76.7 77.7	77.2	5.4 5.5	5.5	5.5	2.3 2.4	2.4		3.0 2.4	2.7	
14-Sep-16	Sunny	Moderate	10:37		Surface	1.0	29.0 28.9	28.9	8.1 8.1	8.1	20.7 20.5	20.6	95.0 91.6	93.3	6.5 6.2	6.4	6.2	2.1 2.2	2.2		5.8 5.1	5.5	
				10.2	Middle	5.1	28.4 28.5	28.5	8.1 8.0	8.1	24.9 24.9	24.9	87.3 84.5	85.9	6.0 5.7	5.9		2.2 2.1	2.2	2.2	4.7 5.5	5.1	5.7
					Bottom	9.2	28.4 28.3	28.4	8.0 8.0	8.0	25.6 25.6	25.6	85.5 84.5	85.0	5.8 5.7	5.8	5.8	2.2 2.3	2.3		5.6 7.4	6.5	
16-Sep-16	Sunny	Moderate	11:47		Surface	1.0	28.0 28.0	28.0	8.1 8.1	8.1	29.0 29.0	29.0	82.1 82.9	82.5	5.7 5.7 5.2	5.7	5.5	4.6	4.7		6.7 6.7	6.7	
				10.2	Middle	5.1	27.3 27.2 27.2	27.3	8.0 8.0 8.0	8.0	31.6 31.8 32.0	31.7	75.8 76.8 81.2	76.3	5.2 5.3 5.6	5.3		4.3 4.4 4.2	4.4	4.5	6.8 7.4 6.5	7.1	6.7
19-Sep-16	Sunny	Moderate	15:17	1	Bottom	9.2	27.2 27.3 28.6	27.2	8.0 8.1	8.0	31.9 30.4	31.9	80.0 75.1	80.6	5.5 5.3	5.6	5.6	4.5	4.4		6.2 4.7	6.4	
19-9eh-10	Suriny	moderate	15.17		Surface	1.0	28.6 28.5	28.6	8.1 8.1	8.1	30.4 30.4 30.7	30.4	75.4	75.3	5.3 5.3	5.3	5.3	4.4 4.5 4.6	4.5		4.7 5.5 4.9	5.1	
				10.9	Middle	5.5	28.5 28.5	28.5	8.1 8.1	8.1	30.7 30.7 30.8	30.7	74.4	74.6	5.3 5.2	5.3		4.0	4.7	4.7	4.9	4.8	5.4
21-Sep-16	Sunny	Moderate	16:51		Bottom	9.9	28.5 28.9	28.5	8.1 7.8	8.1	<u>30.8</u> 29.7	30.8	73.8 80.9	73.8	5.2 5.2 5.5	5.2	5.2	4.8	4.8		5.7 6.2	6.2	
21 000 10	Curry	moderate	10.01		Surface	1.0	28.6 28.2	28.7	7.9 7.9	7.9	27.9 29.1	28.8	78.1	79.5	5.3	5.4	5.4	3.7 3.8	3.6		5.1 5.3	5.7	
				9.7	Middle	4.9	28.2	28.2	7.8	7.8	31.7 32.1	30.4	79.4 82.4	78.5	5.4 5.6	5.4		4.1	4.0	4.0	5.9 5.2	5.6	5.6
					Bottom	8.7	28.2	28.2	7.9	7.8	29.8	31.0	78.8	80.6	5.4	5.5	5.5	4.4	4.4		5.8	5.5	

## Water Quality Monitoring Results at CS6 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samplir	ng	Tempera	ature (°C)	p	Η	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ved Oxygen	(mg/L)	Т	urbidity(NTL	J)	Suspe	ended 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-Sep-16	Sunny	Moderate	18:06		Surface	1.0	28.3 28.2	28.3	8.1 8.1	8.1	26.2 31.4	28.8	80.2 88.2	84.2	5.4 5.8	5.6	5.5	2.5 2.4	2.5		5.9 6.3	6.1	
				10.1	Middle	5.1	28.2 28.2	28.2	8.1 8.1	8.1	32.2 28.0	30.1	84.4 78.6	81.5	5.5 5.2	5.4	5.5	2.5 2.5	2.5	2.5	4.7 4.3	4.5	5.3
					Bottom	9.1	28.2 28.2	28.2	8.1 8.1	8.1	29.4 32.4	30.9	77.5 81.6	79.6	5.2 5.4	5.3	5.3	2.5 2.5	2.5		5.7 4.8	5.3	
26-Sep-16	Sunny	Moderate	08:12		Surface	1.0	28.5 28.5	28.5	8.0 8.0	8.0	29.8 29.4	29.6	84.3 84.2	84.3	5.6 5.5	5.5	5.5	1.2 1.1	1.2		4.3 4.3	4.3	
				10.9	Middle	5.5	28.5 28.5	28.5	8.0 8.0	8.0	30.3 30.9	30.6	83.9 83.9	83.9	5.5 5.5	5.5	0.0	1.5 1.4	1.5	1.4	4.9 5.0	5.0	4.7
					Bottom	9.9	28.5 28.5	28.5	8.0 8.0	8.0	31.1 31.3	31.2	82.3 83.2	82.8	5.4 5.4	5.4	5.4	1.5 1.5	1.5		4.7 5.1	4.9	
28-Sep-16	Fine	Rough	10:27		Surface	1.0	28.8 28.8	28.8	8.1 8.1	8.1	29.3 29.3	29.3	85.9 86.1	86.0	5.6 5.7	5.6	5.5	2.4 2.4	2.4		6.0 3.8	4.9	
				10.1	Middle	5.1	28.7 28.7	28.7	8.1 8.1	8.1	30.6 30.3	30.5	83.0 82.8	82.9	5.4 5.4	5.4	J.J	2.9 2.6	2.8	2.7	9.4 8.4	8.9	7.2
					Bottom	9.1	28.7 28.7	28.7	8.1 8.0	8.1	31.5 31.2	31.3	84.8 84.4	84.6	5.5 5.5	5.5	5.5	2.7 3.0	2.9		7.3 8.1	7.7	
30-Sep-16	Fine	Moderate	13:39		Surface	1.0	28.0 28.0	28.0	8.2 8.2	8.2	29.6 28.0	28.8	93.6 92.3	93.0	6.2 6.2	6.2	6.1	2.6 2.6	2.6		5.3 5.3	5.3	
				11.1	Middle	5.6	28.0 28.0	28.0	8.2 8.2	8.2	28.7 29.9	29.3	91.4 91.0	91.2	6.1 6.0	6.0	0.1	2.7 2.7	2.7	2.7	4.8 3.7	4.3	5.1
					Bottom	10.1	28.0 28.0	28.0	8.2 8.2	8.2	30.7 30.1	30.4	88.6 89.7	89.2	5.9 6.0	6.0	6.0	2.9 2.8	2.9		5.0 6.6	5.8	

#### 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

## 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)	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-Sep-16	Fine	Moderate	06:20		Surface	1.0	27.3 27.3	27.3	7.8 7.9	7.8	31.1 31.1	31.1	77.2 77.9	77.6	5.4 5.4	5.4	5.4	9.4 9.4	9.4		14.1 12.5	13.3	
				11.7	Middle	5.9	27.3 27.3	27.3	7.8 7.9	7.8	31.1 31.1	31.1	76.3 76.9	76.6	5.3 5.3	5.3	5.4	9.5 9.6	9.6	9.6	12.2 10.5	11.4	13.9
					Bottom	10.7	27.3 27.3	27.3	7.9 7.9	7.9	31.1 31.1	31.1	75.6 75.1	75.4	5.2 5.2	5.2	5.2	9.7 9.8	9.8		17.9 16.2	17.1	
5-Sep-16	Fine	Moderate	08:12		Surface	1.0	28.0 28.1	28.1	7.8 7.8	7.8	27.9 27.5	27.7	77.7 76.9	77.3	5.3 5.3	5.3	5.3	4.9 4.8	4.9		7.5 8.4	8.0	
				10.9	Middle	5.5	28.0 28.0	28.0	7.7 7.8	7.8	28.6 28.4	28.5	75.6 76.3	76.0	5.2 5.2	5.2	5.3	5.0 5.0	5.0	5.0	7.8 8.1	8.0	8.3
					Bottom	9.9	27.9 28.0	28.0	7.7 7.8	7.7	28.8 28.6	28.7	74.8 75.4	75.1	5.1 5.2	5.1	5.1	5.2 5.1	5.2		8.4 9.4	8.9	
7-Sep-16	Rainy	Moderate	09:54		Surface	1.0	28.1 28.1	28.1	7.7 7.7	7.7	25.9 25.9	25.9	80.8 81.1	81.0	5.8 5.8	5.8	5.8	3.3 3.2	3.3		3.8 3.3	3.6	
				10.1	Middle	5.1	28.1 28.1	28.1	7.8 7.7	7.7	26.1 26.1	26.1	80.5 80.8	80.7	5.8 5.8	5.8	5.0	3.3 3.5	3.4	3.4	2.8 4.4	3.6	3.5
					Bottom	9.1	28.1 28.1	28.1	7.7 7.7	7.7	26.2 26.1	26.2	80.2 80.8	80.5	5.7 5.8	5.8	5.8	3.6 3.3	3.5		3.1 3.6	3.4	
9-Sep-16 ^	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	=
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
12-Sep-16	Sunny	Moderate	17:47		Surface	1.0	27.9 28.1	28.0	8.0 8.0	8.0	28.3 27.1	27.7	87.9 86.6	87.3	6.3 6.2	6.2	6.0	2.6 2.5	2.6		3.6 3.1	3.4	
				10.3	Middle	5.2	27.5 27.3	27.4	8.0 8.0	8.0	30.2 31.3	30.7	81.3 80.8	81.1	5.8 5.7	5.8	0.0	3.0 3.1	3.1	3.0	3.5 3.9	3.7	3.5
					Bottom	9.3	27.5 27.2	27.4	8.0 7.9	8.0	30.4 31.8	31.1	73.9 73.3	73.6	5.2 5.2	5.2	5.2	3.3 3.2	3.3		3.6 2.9	3.3	
14-Sep-16	Sunny	Moderate	18:23		Surface	1.0	29.1 29.1	29.1	8.4 8.4	8.4	10.7 11.5	11.1	110.6 111.7	111.2	8.0 8.1	8.0	7.1	4.4 4.5	4.5		4.9 4.1	4.5	
				10.0	Middle	5.0	28.3 28.6	28.5	8.3 8.3	8.3	14.3 13.3	13.8	83.3 87.2	85.3	5.9 6.3	6.1		4.6 4.6	4.6	4.6	4.5 4.9	4.7	4.5
					Bottom	9.0	27.6 27.7	27.7	8.2 8.2	8.2	18.0 18.4	18.2	78.4 81.3	79.9	5.6 5.8	5.7	5.7	4.6 4.6	4.6		4.6 3.9	4.3	
16-Sep-16	Fine	Moderate	19:44		Surface	1.0	27.8 27.8	27.8	8.2 8.2	8.2	27.5 25.6	26.5	80.6 80.3	80.5	5.6 5.6	5.6	5.4	6.4 6.7	6.6		4.6 5.5	5.1	
				10.1	Middle	5.1	27.1 27.1	27.1	8.1 8.1	8.1	29.9 28.4	29.2	75.9 73.9	74.9	5.3 5.2	5.2	-	6.3 6.5	6.4	6.4	5.4 5.2	5.3	5.4
					Bottom	9.1	27.1 27.0	27.1	8.1 8.1	8.1	30.2 29.1	29.7	76.9 75.3	76.1	5.4 5.3	5.3	5.3	6.2 6.4	6.3		5.5 5.9	5.7	
19-Sep-16	Sunny	Moderate	07:40		Surface	1.0	28.1 28.1	28.1	8.0 8.0	8.0	30.0 30.0	30.0	75.8 75.5	75.7	5.4 5.4	5.4	5.4	4.1 4.2	4.2		7.3 7.4	7.4	
				11.1	Middle	5.6	28.1 28.1	28.1	8.0 8.0	8.0	30.0 30.0	30.0	75.4 74.7	75.1	5.3 5.3	5.3	-	4.3 4.4	4.4	4.3	8.1 8.1	8.1	7.7
					Bottom	10.1	28.1 28.1	28.1	8.0 8.0	8.0	30.0 30.0	30.0	74.2 74.5	74.4	5.3 5.3	5.3	5.3	4.5 4.3	4.4		7.9 7.5	7.7	
21-Sep-16	Sunny	Moderate	09:39		Surface	1.0	28.2 28.2	28.2	8.0 8.0	8.0	30.6 30.6	30.6	79.1 79.6	79.4	5.4 5.4	5.4	5.4	5.2 5.3	5.3		4.6 6.2	5.4	
				10.1	Middle	5.1	28.1 28.1	28.1	8.0 8.0	8.0	30.8 30.9	30.8	78.6 78.7	78.7	5.4 5.4	5.4	-	5.2 5.3	5.3	5.3	6.8 7.2	7.0	6.9
					Bottom	9.1	28.1 28.1	28.1	8.0 8.0	8.0	30.8 30.9	30.9	79.0 79.8	79.4	5.4 5.4	5.4	5.4	5.1 5.2	5.2		8.0 8.4	8.2	

## Water Quality Monitoring Results at CS6 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Sampli	ing	Temper	ature (°C)	p	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(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-Sep-16	Sunny	Moderate	12:09		Surface	1.0	28.6 28.5	28.6	8.0 8.0	8.0	30.2 30.2	30.2	85.1 84.6	84.9	5.6 5.6	5.6	5.6	4.0 4.2	4.1		6.2 6.2	6.2	
				10.1	Middle	5.1	28.5 28.5	28.5	8.0 8.0	8.0	30.2 30.3	30.3	84.6 84.0	84.3	5.6 5.5	5.5	5.0	4.0 4.3	4.2	4.2	6.1 6.9	6.5	6.2
					Bottom	9.1	28.4 28.4	28.4	8.0 8.0	8.0	30.3 30.3	30.3	84.3 83.4	83.9	5.5 5.5	5.5	5.5	4.1 4.3	4.2		5.7 6.3	6.0	
26-Sep-16	Sunny	Moderate	18:22		Surface	1.0	29.2 29.2	29.2	8.1 8.1	8.1	29.0 29.0	29.0	91.1 90.8	91.0	6.0 6.1	6.0	6.0	1.4 1.4	1.4		4.3 5.5	4.9	
				11.0	Middle	5.5	29.2 29.2	29.2	8.1 8.1	8.1	29.0 29.0	29.0	89.9 89.8	89.9	5.9 5.9	5.9	0.0	1.6 1.6	1.6	1.6	5.7 4.5	5.1	5.5
					Bottom	10.0	29.2 29.2	29.2	8.1 8.1	8.1	29.0 29.0	29.0	89.3 88.8	89.1	5.8 5.8	5.8	5.8	1.7 1.8	1.8		5.3 7.4	6.4	
28-Sep-16	Fine	Rough	18:49		Surface	1.0	28.8 28.8	28.8	8.2 8.2	8.2	29.2 27.9	28.6	86.2 87.1	86.7	5.7 5.8	5.7	5.7	3.0 2.9	3.0		5.6 5.7	5.7	
				10.2	Middle	5.1	28.8 28.8	28.8	8.2 8.2	8.2	29.8 29.4	29.6	86.4 84.6	85.5	5.7 5.6	5.6	5.7	3.1 3.2	3.2	3.2	8.3 9.1	8.7	7.7
					Bottom	9.2	28.7 28.8	28.7	8.2 8.2	8.2	30.5 30.3	30.4	83.8 87.8	85.8	5.5 5.7	5.6	5.6	3.4 3.6	3.5		8.0 9.6	8.8	
30-Sep-16	Cloudy	Moderate	05:34		Surface	1.0	28.1 28.1	28.1	8.0 8.1	8.1	32.7 32.8	32.8	82.4 82.3	82.4	5.4 5.4	5.4	5.4	4.3 4.4	4.4		7.6 8.0	7.8	
				11.3	Middle	5.7	28.1 28.1	28.1	8.0 8.1	8.1	32.8 32.9	32.8	82.2 82.0	82.1	5.4 5.3	5.3	5.4	4.5 4.6	4.6	4.6	7.9 6.7	7.3	8.4
					Bottom	10.3	28.1 28.1	28.1	8.1 8.1	8.1	32.9 32.9	32.9	81.9 81.7	81.8	5.3 5.3	5.3	5.3	4.9 4.7	4.8		11.0 9.1	10.1	

### 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.

^ The scheduled water quality monitoring during mid-flood tide on 9 September 2016 was cancelled due to thunderstorm Signal hoisted 3 hours before the scheduled monitoring time.

Remarks:

\* DA: Depth-Averaged

## Water Quality Monitoring Results at CSA - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	Η	Salini	ity (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	(mg/L)	Г	Furbidity(NTl	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-Sep-16	Fine	Moderate	14:20		Surface	1.0	28.3 28.3	28.3	8.1 8.1	8.1	19.0 19.0	19.0	75.7 75.2	75.5	5.3 5.3	5.3	5.2	4.2 4.2	4.2		7.7 9.8	8.8	
				36.5	Middle	18.3	28.2 28.2	28.2	8.1 8.1	8.1	19.3 19.1	19.2	75.0 74.4	74.7	5.3 5.2	5.2	5.3	4.3 4.2	4.3	4.3	10.6 10.5	10.6	10.3
					Bottom	35.5	28.1 28.2	28.1	8.1 8.1	8.1	20.0 19.5	19.7	73.9 74.5	74.2	5.2 5.2	5.2	5.2	4.3	4.3		10.7	11.4	
5-Sep-16	Fine	Moderate	16:12		Surface	1.0	27.7 27.6	27.7	7.9 7.9	7.9	27.7 30.0	28.9	76.7 77.4	77.1	5.3 5.3	5.3		6.7 6.8	6.8		5.7 6.4	6.1	
				35.6	Middle	17.8	27.7 27.6	27.7	7.9 7.9	7.9	28.7 29.5	29.1	76.9 76.3	76.6	5.3 5.2	5.3	5.3	6.9 6.8	6.9	6.9	5.3 6.8	6.1	6.2
					Bottom	34.6	27.6	27.6	7.9	7.9	28.4 30.6	29.5	75.4	75.8	5.2 5.2	5.2	5.2	6.9 6.9	6.9		5.5 7.1	6.3	
7-Sep-16	Cloudy	Moderate	17:22		Surface	1.0	28.1 28.1	28.1	7.9 7.9	7.9	18.1 17.9	18.0	80.4 78.1	79.3	6.0 5.8	5.9		2.8 3.2	3.0		3.5 5.1	4.3	
				34.2	Middle	17.1	27.4	27.4	7.8	7.8	22.4 21.7	22.1	71.3 72.8	72.1	5.3 5.4	5.3	5.6	2.9 3.1	3.0	3.0	3.7 3.8	3.8	4.1
					Bottom	33.2	27.4	27.4	7.8	7.8	21.9 23.0	22.4	74.1	73.5	5.5 5.4	5.4	5.4	3.0	2.9		4.2	4.2	
9-Sep-16	Fine	Moderate	19:05		Surface	1.0	28.4 28.4	28.4	8.1 8.1	8.1	14.0 14.6	14.3	83.1 81.6	82.4	6.0 5.9	6.0		2.3	2.3		3.0 3.0	3.0	
				34.6	Middle	17.3	27.7	27.7	8.0 7.9	8.0	22.1 22.7	22.4	73.7	74.5	5.2 5.3	5.2	5.6	2.2	2.2	2.2	3.0 2.7	2.9	2.8
					Bottom	33.6	27.7	27.8	7.9	7.9	23.2	23.5	80.5 78.0	79.3	5.6 5.4	5.5	5.5	2.2	2.1		2.0	2.5	
12-Sep-16	Sunny	Moderate	08:25		Surface	1.0	28.6 28.6	28.6	7.9 7.9	7.9	20.7	20.8	84.8 84.6	84.7	6.1 6.1	6.1		1.8 1.6	1.7		3.1 2.5	2.8	
				35.4	Middle	17.7	28.0 28.0	28.0	7.9 7.9	7.9	26.2 26.2	26.2	76.6 77.0	76.8	5.4 5.5	5.4	5.8	2.2	2.3	2.4	3.2	2.9	2.8
					Bottom	34.4	27.9 28.0	28.0	7.8 7.9	7.8	26.6 26.3	26.4	82.3 80.2	81.3	5.8 5.7	5.7	5.7	3.2 3.3	3.3		2.6 3.0	2.8	
14-Sep-16	Sunny	Moderate	10:26		Surface	1.0	28.9 28.9	28.9	8.1 8.0	8.0	20.3 20.5	20.4	90.8 88.9	89.9	6.3 6.0	6.1		2.0 2.0	2.0		5.7 5.8	5.8	
				36.1	Middle	18.1	28.4 28.4	28.4	7.9 8.0	7.9	25.2 25.0	25.1	88.2 90.1	89.2	6.1 6.1	6.1	6.1	2.0 2.2	2.1	2.1	6.7 6.6	6.7	6.0
					Bottom	35.1	28.5 28.3	28.4	7.9 7.9	7.9	25.6 25.8	25.7	85.5 86.1	85.8	5.8 5.8	5.8	5.8	2.2 2.2	2.2		5.8 5.0	5.4	
16-Sep-16	Sunny	Moderate	11:34		Surface	1.0	28.0 28.0	28.0	8.0 4.0	6.0	29.0 29.0	29.0	83.7 84.3	84.0	5.8 5.8	5.8	5.0	4.0 3.8	3.9		8.8 8.8	8.8	
				35.2	Middle	17.6	27.1 27.0	27.1	8.0 8.0	8.0	32.3 32.4	32.4	79.0 74.4	76.7	5.5 5.2	5.3	5.6	3.5 3.3	3.4	3.8	11.3 9.2	10.3	10.0
					Bottom	34.2	27.1 27.0	27.1	8.0 8.0	8.0	32.4 32.6	32.5	82.1 79.7	80.9	5.7 5.5	5.6	5.6	4.0 4.0	4.0		12.2 9.7	11.0	
19-Sep-16	Sunny	Moderate	15:32		Surface	1.0	28.5 28.7	28.6	8.1 8.1	8.1	29.9 30.1	30.0	75.8 75.9	75.9	5.4 5.4	5.4	5.4	4.4 4.3	4.4		6.4 5.0	5.7	
				35.5	Middle	17.8	28.4 28.6	28.5	8.1 8.1	8.1	30.3 30.6	30.5	75.2 75.4	75.3	5.3 5.3	5.3	5.4	4.6 4.4	4.5	4.5	5.3 6.3	5.8	6.0
					Bottom	34.5	28.5 28.6	28.5	8.1 8.1	8.1	30.5 30.7	30.6	74.8 74.5	74.7	5.3 5.3	5.3	5.3	4.7	4.7		6.2 6.8	6.5	
21-Sep-16	Sunny	Moderate	17:04		Surface	1.0	29.1 29.0	29.1	8.0 8.0	8.0	24.6 25.7	25.2	83.0 80.4	81.7	5.8 5.5	5.6		3.1 3.3	3.2		5.7 5.2	5.5	
				34.6	Middle	17.3	28.2	28.2	8.0 8.0	8.0	27.5 26.2	26.8	76.0 76.9	76.5	5.3 5.4	5.3	5.5	3.8 4.0	3.9	3.7	4.7	4.4	5.7
					Bottom	33.6	28.2	28.2	8.0 7.9	8.0	26.5 28.2	27.4	77.7	77.5	5.4 5.3	5.4	5.4	3.8 4.0	3.9		6.3	7.1	

## Water Quality Monitoring Results at CSA - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampling	Ter	perature (°C)		рН	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	1	urbidity(NTL	J)	Suspe	ended Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth (m)	) Val	e Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Sep-16	Sunny	Moderate	18:25		Surface 1	.0 28 28		8.1 8.1	8.1	23.6 24.4	24.0	80.1 79.3	79.7	5.5 5.4	5.4	5.4	2.4 2.3	2.4		4.1 5.6	4.9	
				36.0	Middle 18	8.0 28 28	28.3	8.1 8.1	8.1	24.7 25.6	25.2	79.8 79.1	79.5	5.4 5.3	5.4	5.4	2.4 2.3	2.4	2.4	3.5 4.9	4.2	4.7
					Bottom 35	5.0 28 28	28.2	8.1 8.1	8.1	25.0 26.5	25.8	79.4 78.8	79.1	5.4 5.3	5.4	5.4	2.4 2.3	2.4		6.0 4.1	5.1	
26-Sep-16	Sunny	Moderate	08:01		Surface 1	.0 28 28		7.9 8.0	8.0	29.6 29.2	29.4	86.1 85.6	85.9	5.7 5.6	5.7	5.7	1.3 1.3	1.3		4.3 4.1	4.2	
				35.7	Middle 17	7.9 28 28	28.5	8.0 7.9	7.9	29.7 30.3	30.0	85.4 85.8	85.6	5.6 5.6	5.6	0.1	1.4 1.5	1.5	1.5	5.5 5.2	5.4	5.3
					Bottom 34	4.7 28 28	28.5	8.0 8.0	8.0	30.3 30.7	30.5	84.5 84.4	84.5	5.5 5.5	5.5	5.5	1.6 1.6	1.6		6.9 5.6	6.3	
28-Sep-16	Fine	Rough	10:17		Surface 1	.0 28 28	28.8	8.1 8.0	8.1	29.3 29.3	29.3	84.4 87.0	85.7	5.5 5.7	5.6	5.4	2.2 2.0	2.1		3.2 5.3	4.3	
				35.3	Middle 17	7.7 28 28	28 h	8.0 8.0	8.0	32.6 31.7	32.1	79.9 79.9	79.9	5.2 5.2	5.2	5.4	3.1 2.8	3.0	2.7	3.7 5.9	4.8	5.3
					Bottom 34	4.3 28 28		8.0 8.0	8.0	32.7 32.3	32.5	81.9 82.2	82.1	5.3 5.3	5.3	5.3	3.0 2.8	2.9		7.7 5.6	6.7	
30-Sep-16	Fine	Moderate	13:51		Surface 1	.0 28 28	28.0	8.2 8.2	8.2	25.2 25.9	25.5	89.4 88.4	88.9	6.0 6.0	6.0	6.0	2.6 2.6	2.6		5.9 4.2	5.1	
				35.8	Middle 17	7.9 28 28	1 28.1	8.2 8.2	8.2	25.7 26.7	26.2	89.4 87.5	88.5	6.0 5.9	6.0	0.0	2.7 2.7	2.7	2.7	4.9 4.6	4.8	5.0
					Bottom 34	4.8 28 28	1 28.1	8.2 8.2	8.2	28.4 27.8	28.1	87.2 87.2	87.2	5.9 5.9	5.9	5.9	2.8 2.8	2.8		4.1 6.1	5.1	

#### 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

## Water Quality Monitoring Results at CSA - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	н	Salini	ty (ppt)	DO Satu	iration (%)	Dissol	ved Oxygen	(mg/L)	Г	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-Sep-16	Fine	Moderate	06:09		Surface	1.0	27.4 27.4	27.4	7.9 7.9	7.9	30.9 30.9	30.9	76.3 76.6	76.5	5.3 5.3	5.3	5.3	8.4 8.4	8.4		13.0 12.6	12.8	
				36.6	Middle	18.3	27.4 27.4	27.4	7.9 7.9	7.9	31.1 31.1	31.1	75.6 75.5	75.6	5.2 5.2	5.2	5.3	8.6 8.6	8.6	8.6	13.7 13.3	13.5	14.4
					Bottom	35.6	27.3 27.3	27.3	7.9 7.9	7.9	31.2 31.1	31.2	74.8 74.7	74.8	5.2 5.2	5.2	5.2	8.7 8.8	8.8		16.8 16.8	16.8	
5-Sep-16	Fine	Moderate	08:01		Surface	1.0	28.0 28.0	28.0	7.6 7.7	7.6	27.7 28.0	27.8	77.7 77.4	77.6	5.3 5.3	5.3	5.0	4.5 4.6	4.6		6.6 7.3	7.0	
				35.8	Middle	17.9	28.0 28.0	28.0	7.7 7.7	7.7	28.5 28.3	28.4	76.3 76.9	76.6	5.2 5.3	5.3	5.3	4.7 4.6	4.7	4.7	5.8 6.8	6.3	7.3
					Bottom	34.8	28.0 28.0	28.0	7.6 7.6	7.6	28.3 28.6	28.5	76.1 75.6	75.9	5.2 5.2	5.2	5.2	4.8 4.9	4.9		9.0 8.0	8.5	
7-Sep-16	Rainy	Moderate	09:39		Surface	1.0	28.1 28.1	28.1	7.7 7.7	7.7	26.2 26.2	26.2	80.0 80.5	80.3	5.7 5.8	5.7		2.7 3.0	2.9		5.5 5.8	5.7	1
				34.9	Middle	17.5	28.0 28.1	28.0	7.7	7.7	27.3 26.6	27.0	78.8 78.0	78.4	5.6 5.6	5.6	5.7	2.6 2.8	2.7	3.0	5.3 5.5	5.4	5.8
					Bottom	33.9	28.0 28.0	28.0	7.7 7.7	7.7	27.5 27.1	27.3	78.2 79.4	78.8	5.6 5.7	5.6	5.6	3.2 3.3	3.3		6.6 5.7	6.2	
9-Sep-16 ^	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-
					Bottom	-	-	-	-	-	-	-	-	-		-	-	-	-		-	-	
12-Sep-16	Sunny	Moderate	17:59		Surface	1.0	28.0 28.5	28.3	8.0 8.1	8.0	27.1 24.5	25.8	80.8 81.8	81.3	5.7 5.8	5.8	F 7	2.7 2.6	2.7		2.6 3.9	3.3	
				35.3	Middle	17.7	27.1 26.8	27.0	8.0 8.0	8.0	32.2 32.8	32.5	75.9 76.8	76.4	5.5 5.6	5.5	5.7	3.1 3.0	3.1	3.1	3.9 3.9	3.9	3.6
					Bottom	34.3	27.3 27.2	27.2	8.0 8.0	8.0	32.5 32.0	32.3	74.2 73.8	74.0	5.2 5.2	5.2	5.2	3.4 3.6	3.5		3.1 4.0	3.6	
14-Sep-16	Sunny	Moderate	18:41		Surface	1.0	29.1 29.1	29.1	8.4 8.4	8.4	10.8 11.9	11.4	106.8 106.6	106.7	7.7 7.7	7.7	7.2	4.4 4.5	4.5		3.6 4.9	4.3	
				35.9	Middle	18.0	28.2 28.2	28.2	8.3 8.3	8.3	13.7 13.2	13.4	91.4 97.6	94.5	6.5 6.9	6.7	1.2	4.5 4.6	4.6	4.6	4.9 4.9	4.9	4.6
					Bottom	34.9	27.8 27.6	27.7	8.3 8.2	8.3	17.9 18.4	18.1	89.9 85.9	87.9	6.5 6.2	6.4	6.4	4.7 4.6	4.7		4.1 5.0	4.6	
16-Sep-16	Fine	Moderate	19:58		Surface	1.0	28.1 27.7	27.9	8.2 8.2	8.2	24.1 23.8	23.9	81.5 80.0	80.8	5.7 5.6	5.7	5.5	5.7 6.0	5.9		3.6 4.8	4.2	
				34.8	Middle	17.4	26.9 26.8	26.9	8.1 8.1	8.1	26.9 28.0	27.5	76.2 73.3	74.8	5.4 5.2	5.3	5.5	5.5 5.5	5.5	5.7	6.0 5.4	5.7	4.9
					Bottom	33.8	26.9 27.0	27.0	8.1 8.1	8.1	28.2 27.3	27.7	71.9 73.8	72.9	5.1 5.2	5.2	5.2	5.7 5.7	5.7		4.4 4.9	4.7	
19-Sep-16	Sunny	Moderate	07:29		Surface	1.0	28.1 28.1	28.1	8.0 7.9	7.9	30.0 30.0	30.0	75.4 75.6	75.5	5.3 5.4	5.4	5.4	3.5 3.4	3.5		7.1 7.6	7.4	
				35.7	Middle	17.9	28.1 28.1	28.1	7.9 7.9	7.9	30.1 30.0	30.0	75.1 74.7	74.9	5.3 5.3	5.3	0.7	3.7 3.6	3.7	3.7	8.4 8.2	8.3	7.6
					Bottom	34.7	28.0 28.1	28.1	7.9 7.9	7.9	30.3 30.0	30.2	74.2 74.0	74.1	5.3 5.2	5.3	5.3	3.8 3.7	3.8		7.1 7.3	7.2	
21-Sep-16	Sunny	Moderate	09:25		Surface	1.0	28.2 28.2	28.2	7.9 7.9	7.9	30.5 30.6	30.6	79.8 79.8	79.8	5.4 5.4	5.4	5.4	4.9 4.5	4.7		6.3 5.6	6.0	
				34.9	Middle	17.5	28.1 28.1	28.1	7.9 7.8	7.9	30.7 31.0	30.9	77.3 77.9	77.6	5.3 5.3	5.3	0.7	4.6 4.4	4.5	4.6	6.9 6.8	6.9	6.4
					Bottom	33.9	28.1 28.1	28.1	7.8 7.9	7.8	31.1 30.9	31.0	79.2 77.9	78.6	5.4 5.3	5.4	5.4	4.7 4.6	4.7		5.9 6.9	6.4	

## Water Quality Monitoring Results at CSA - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samplin	ng	Tempera	ature (°C)	p	Н	Salinit	y (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Т	urbidity(NTl	J)	Suspe	nded Solids	; (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth (n	n)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Sep-16	Sunny	Moderate	11:54		Surface	1.0	28.5 28.6	28.6	8.0 8.0	8.0	30.2 30.2	30.2	85.3 89.2	87.3	5.6 5.9	5.7	5.7	4.0 4.0	4.0		6.1 6.1	6.1	Í
				36.0	Middle	18.0	28.5 28.5	28.5	7.9 8.0	8.0	30.3 30.2	30.3	86.3 85.0	85.7	5.7 5.6	5.6	5.7	4.0 4.1	4.1	4.1	6.7 8.0	7.4	7.0
					Bottom	35.0	28.5 28.4	28.5	8.0 7.8	7.9	30.3 30.3	30.3	85.0 86.1	85.6	5.6 5.6	5.6	5.6	4.1 4.1	4.1		7.2 7.6	7.4	
26-Sep-16	Sunny	Moderate	18:32		Surface	1.0	29.2 29.1	29.2	8.1 8.1	8.1	29.0 29.2	29.1	87.8 88.0	87.9	5.7 5.7	5.7	5.7	1.5 1.5	1.5		5.5 4.3	4.9	
				35.9	Middle	18.0	29.1 29.0	29.1	8.1 8.1	8.1	29.2 29.6	29.4	87.7 87.8	87.8	5.7 5.7	5.7	0.7	1.6 1.6	1.6	1.6	5.9 4.6	5.3	5.3
					Bottom	34.9	29.1 29.0	29.0	8.1 8.1	8.1	29.4 29.8	29.6	86.5 87.7	87.1	5.7 5.7	5.7	5.7	1.8 1.8	1.8		5.8 5.5	5.7	
28-Sep-16	Fine	Rough	19:06		Surface	1.0	28.8 28.8	28.8	8.2 8.2	8.2	24.6 25.1	24.9	85.7 85.5	85.6	5.8 5.7	5.8	5.7	2.4 2.5	2.5		6.1 5.9	6.0	
				35.3	Middle	17.7	28.7 28.7	28.7	8.2 8.2	8.2	27.1 26.5	26.8	83.3 82.6	83.0	5.6 5.5	5.5	5.7	2.8 2.8	2.8	2.7	5.8 7.9	6.9	7.1
					Bottom	34.3	28.7 28.7	28.7	8.2 8.2	8.2	26.6 27.2	26.9	83.1 85.0	84.1	5.6 5.7	5.6	5.6	2.9 2.7	2.8		7.7 9.1	8.4	
30-Sep-16	Cloudy	Moderate	05:22		Surface	1.0	28.1 28.1	28.1	8.1 8.0	8.1	32.7 32.7	32.7	82.8 82.7	82.8	5.4 5.4	5.4	5.4	4.4 4.4	4.4		8.2 7.0	7.6	
				35.9	Middle	18.0	28.1 28.1	28.1	8.0 8.1	8.0	32.7 32.8	32.8	82.6 82.6	82.6	5.4 5.4	5.4	5.4	4.5 4.6	4.6	4.6	7.0 9.1	8.1	8.0
					Bottom	34.9	28.1 28.1	28.1	8.1 8.1	8.1	32.8 32.8	32.8	82.4 82.5	82.5	5.4 5.4	5.4	5.4	4.8 4.8	4.8		8.4 7.9	8.2	

#### 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.

^ The scheduled water quality monitoring during mid-flood tide on 9 September 2016 was cancelled due to thunderstorm Signal hoisted 3 hours before the scheduled monitoring time.

Remarks:

\* DA: Depth-Averaged

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

Date	Weather	Sea	Sampling	Water	Samp	oling	Tempera	ature (°C)	p	ЪН	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	(mg/L)	Т	urbidity(NTL	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-Sep-16	Fine	Moderate	12:32		Surface	1.0	28.2 28.2	28.2	8.4 8.4	8.4	26.2 26.2	26.2	91.5 84.9	88.2	6.2 5.8	6.0	6.0	14.3 14.5	14.4		20.6 21.0	20.8	
				3.1	Middle	-	-	-		-	-	-	-	-	-	-	6.0	-	-	14.8	-	-	18.3
					Bottom	2.1	28.2 28.2	28.2	8.4 8.4	8.4	26.2 26.3	26.2	86.7 84.0	85.4	5.9 5.7	5.8	5.8	15.2 15.2	15.2		16.1 15.4	15.8	
5-Sep-16	Fine	Moderate	13:49		Surface	1.0	28.3 28.3	28.3	8.1 8.1	8.1	25.2 25.3	25.3	92.6 90.7	91.7	6.3 6.2	6.3		8.3 8.2	8.3		7.1 8.1	7.6	
				3.4	Middle	-	-	-	-	-	-	-	-	-	-	-	6.3	-	-	8.4	-	-	7.5
					Bottom	2.4	28.4 28.4	28.4	8.1 8.1	8.1	25.4 25.5	25.5	91.9 95.8	93.9	6.3 6.5	6.4	6.4	8.5 8.3	8.4		7.5 7.1	7.3	
7-Sep-16	Cloudy	Moderate	14:58		Surface	1.0	28.0 28.0	28.0	8.1 8.1	8.1	24.9 24.9	24.9	88.5 85.7	87.1	6.1 5.9	6.0		6.6 6.4	6.5		8.0 8.2	8.1	
				3.3	Middle	-	-	-	-	-	-	-	-	-	-	-	6.0	-	-	6.6	-	-	7.7
					Bottom	2.3	28.0 28.0	28.0	8.1 8.1	8.1	25.3 25.1	25.2	86.2 84.9	85.6	5.9 5.9	5.9	5.9	6.5 6.8	6.7		7.2 7.1	7.2	
9-Sep-16	Fine	Moderate	16:58		Surface	1.0	28.6 28.6	28.6	7.9 7.9	7.9	19.9 19.9	19.9	87.6 85.9	86.8	6.1 5.9	6.0	<u> </u>	5.6 5.6	5.6		3.7 4.0	3.9	
				3.2	Middle	-	-	-		-	-	-	-	-	-	-	6.0	-	-	5.7	-	-	3.9
					Bottom	2.2	28.6 28.6	28.6	7.9 7.9	7.9	19.6 21.5	20.6	83.1 83.4	83.3	5.8 5.8	5.8	5.8	5.6 5.7	5.7		3.4 4.4	3.9	
12-Sep-16	Sunny	Moderate	10:28		Surface	1.0	28.7 28.7	28.7	8.2 8.3	8.3	21.9 21.8	21.8	83.6 84.3	84.0	5.8 5.9	5.9	5.9	5.0 5.2	5.1		3.5 3.8	3.7	
				3.2	Middle	-	-	-	-	-	-	-	-	-	-	-	5.5	-	-	5.2	-	-	4.1
					Bottom	2.2	28.5 28.6	28.5	8.2 8.2	8.2	23.2 25.0	24.1	84.4 84.1	84.3	5.9 5.8	5.8	5.8	5.5 5.1	5.3		4.3 4.4	4.4	
14-Sep-16	Sunny	Moderate	12:00		Surface	1.0	28.9 29.0	29.0	8.4 8.4	8.4	22.7 22.7	22.7	81.5 84.1	82.8	5.5 5.7	5.6	5.6	6.2 6.3	6.3		4.5 4.8	4.7	
				3.1	Middle	-	-	-	-	-	-	-	-	-	-	-	5.0	-	-	6.3	-	-	5.1
					Bottom	2.1	29.0 28.6	28.8	8.4 8.3	8.4	23.6 24.2	23.9	83.1 82.5	82.8	5.6 5.6	5.6	5.6	6.2 6.2	6.2		5.3 5.4	5.4	
16-Sep-16	Sunny	Moderate	13:25		Surface	1.0	29.0 28.9	28.9	8.4 8.4	8.4	24.6 24.8	24.7	86.1 87.5	86.8	5.8 5.9	5.8	5.8	5.1 5.3	5.2		4.4 4.2	4.3	
				3.2	Middle	-	-	-		-	-	-	-	-	-	-	5.0	-	-	5.3	-	-	4.9
					Bottom	2.2	28.6 28.9	28.8	8.4 8.4	8.4	25.1 24.8	25.0	82.8 87.4	85.1	5.6 5.9	5.7	5.7	5.3 5.3	5.3		5.3 5.4	5.4	
19-Sep-16	Sunny	Moderate	13:08		Surface	1.0	28.9 28.9	28.9	8.4 8.4	8.4	25.7 25.7	25.7	72.0 72.9	72.5	5.6 5.7	5.6	5.6	9.9 10.0	10.0		14.5 13.7	14.1	
				3.5	Middle	-	-	-	-	-	-	-	-	-	-	-	0.0	-	-	10.0	-	-	14.4
					Bottom	2.5	28.9 29.0	29.0	8.4 8.4	8.4	25.7 25.7	25.7	74.1 71.4	72.8	5.7 5.6	5.7	5.7	10.0 9.9	10.0		15.1 14.3	14.7	
21-Sep-16	Sunny	Moderate	14:47		Surface	1.0	28.7 28.7	28.7	8.4 8.4	8.4	25.9 25.9	25.9	84.2 80.1	82.2	5.7 5.4	5.5	5.5	9.6 9.3	9.5		8.1 7.5	7.8	
				3.6	Middle	-	-	-	-	-	-	-	-	-	-	-	0.0	-	-	9.5	-	-	7.9
					Bottom	2.6	28.6 28.5	28.5	8.4 8.4	8.4	25.9 25.9	25.9	77.3 78.5	77.9	5.2 5.3	5.2	5.2	9.4 9.5	9.5		8.2 7.5	7.9	

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

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	F	ЪН	Salini	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-Sep-16	Sunny	Moderate	17:07		Surface	1.0	28.8 28.8	28.8	8.5 8.5	8.5	26.9 26.8	26.8	92.8 97.4	95.1	6.2 6.5	6.3	6.3	6.3 6.1	6.2		8.3 7.6	8.0	
				3.3	Middle	-	-	-	-	-	-	-	-	-	-	-	0.5	-	-	6.2	-	-	8.0
					Bottom	2.3	28.8 28.7	28.7	8.5 8.5	8.5	26.8 26.8	26.8	91.9 94.1	93.0	6.1 6.3	6.2	6.2	6.2 6.2	6.2		7.9 8.1	8.0	
26-Sep-16	Sunny	Moderate	10:28		Surface	1.0	28.7 28.7	28.7	8.3 8.3	8.3	28.4 28.6	28.5	88.4 91.4	89.9	5.8 6.0	5.9	5.9	6.3 6.8	6.6		3.1 2.3	2.7	
				3.3	Middle	-	-	-	-	-	-	-		-		-	5.5	-	-	7.2	-	-	3.0
					Bottom	2.3	28.7 28.7	28.7	8.3 8.3	8.3	28.6 28.6	28.6	96.1 89.6	92.9	6.3 5.9	6.1	6.1	8.0 7.3	7.7		2.9 3.4	3.2	
28-Sep-16	Fine	Rough	12:10		Surface	1.0	29.0 29.0	29.0	8.3 8.4	8.4	26.7 26.7	26.7	91.9 90.2	91.1	6.1 6.0	6.0	6.0	7.5 7.6	7.6		9.3 9.2	9.3	
				3.3	Middle	-	-	-	-	-	-	-	-	-	-	-	0.0	-	-	7.6	-	-	9.8
					Bottom	2.3	29.0 29.0	29.0	8.3 8.3	8.3	26.6 26.7	26.7	94.1 90.9	92.5	6.3 6.0	6.1	6.1	7.5 7.6	7.6		10.9 9.4	10.2	
30-Sep-16	Fine	Moderate	11:34		Surface	1.0	27.7 27.7	27.7	8.4 8.4	8.4	26.2 26.2	26.2	87.6 89.7	88.7	6.0 6.1	6.0	6.0	10.9 10.5	10.7		15.3 15.7	15.5	
				3.3	Middle	-	-	-	-	-	-	-	-	-	-	-	0.0	-	-	10.6	-	-	15.6
					Bottom	2.3	27.7 27.7	27.7	8.4 8.4	8.4	26.2 26.2	26.2	92.6 88.6	90.6	6.3 6.0	6.2	6.2	10.2 10.6	10.4		15.3 16.1	15.7	

### 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

## 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 Oxygen	(mg/L)	T T	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-Sep-16	Fine	Moderate	07:47		Surface	1.0	28.1 28.1	28.1	8.3 8.3	8.3	26.2 26.2	26.2	80.7 82.5	81.6	5.5 5.6	5.6	5.6	9.5 9.2	9.4		10.9 9.2	10.1	
				3.2	Middle	-	-	-	-	-	-	-	-	-	-	-	5.0	-	-	9.5	-	-	11.1
					Bottom	2.2	28.1 28.1	28.1	8.3 8.3	8.3	26.3 26.3	26.3	85.0 81.6	83.3	5.8 5.6	5.7	5.7	9.5 9.5	9.5		13.0 11.1	12.1	
5-Sep-16	Fine	Moderate	09:49		Surface	1.0	28.3 28.3	28.3	8.2 8.2	8.2	25.9 26.1	26.0	92.6 88.8	90.7	6.3 6.0	6.2	6.2	7.1 7.2	7.2		4.1 2.0	3.1	
				3.4	Middle	-	-	-	-	-		-	-	-	-	-	0.2	-	-	7.3	-	-	4.6
					Bottom	2.4	28.3 28.3	28.3	8.2 8.2	8.2	26.1 26.1	26.1	88.0 89.7	88.9	6.0 6.1	6.0	6.0	7.5 7.3	7.4		5.7 6.5	6.1	
7-Sep-16	Rainy	Moderate	11:12		Surface	1.0	28.0 28.0	28.0	8.2 8.2	8.2	25.6 25.5	25.6	85.0 85.9	85.5	5.8 5.9	5.9	5.0	6.2 6.2	6.2		5.3 5.3	5.3	
				3.4	Middle	-	-	-	-	-	-	-		-	-	-	5.9	-	-	6.2	-	-	5.5
					Bottom	2.4	28.0 28.0	28.0	8.2 8.2	8.2	25.7 25.9	25.8	84.8 83.9	84.4	5.8 5.8	5.8	5.8	6.1 6.1	6.1		5.7 5.7	5.7	
9-Sep-16 ^	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	1
				-	Middle	-	-	-	-	-		-	-	-		-	-	-	-	-	-	-	-
					Bottom	-	-	-	-	-		-	-	-		-	-	-	-		-	-	
12-Sep-16	Sunny	Moderate	16:02		Surface	1.0	30.8 30.8	30.8	8.5 8.5	8.5	17.2 17.4	17.3	92.7 94.8	93.8	6.3 6.4	6.4	6.4	3.2 3.1	3.2		2.5 2.9	2.7	
				3.4	Middle	-	-	-	-	-		-	-	-	-	-	6.4	-	-	3.2	-	-	2.6
					Bottom	2.4	29.5 29.3	29.4	8.5 8.5	8.5	19.0 19.3	19.2	94.6 91.3	93.0	6.5 6.3	6.4	6.4	3.2 3.2	3.2		2.6 2.4	2.5	
14-Sep-16	Sunny	Moderate	17:05		Surface	1.0	29.2 29.2	29.2	8.5 8.5	8.5	22.3 22.3	22.3	98.5 99.3	98.9	6.7 6.7	6.7	0.7	8.2 8.2	8.2		14.1 13.6	13.9	
				3.3	Middle	-	-	-	-	-		-	-	-	-	-	6.7	-	-	8.2	-	-	14.1
					Bottom	2.3	29.2 29.2	29.2	8.5 8.5	8.5	22.3 22.3	22.3	98.7 98.9	98.8	6.7 6.7	6.7	6.7	8.3 8.1	8.2		14.7 13.6	14.2	
16-Sep-16	Fine	Moderate	18:00		Surface	1.0	28.9 28.9	28.9	8.4 8.4	8.4	24.8 24.8	24.8	94.8 96.3	95.6	6.4 6.5	6.4		7.1 6.8	7.0		5.8 7.3	6.6	
				3.5	Middle	-	-	-	-	-		-	-	-	-	-	6.4	-	-	7.0	-	-	6.0
					Bottom	2.5	28.9 28.9	28.9	8.4 8.4	8.4	24.9 25.1	25.0	97.3 96.0	96.7	6.5 6.5	6.5	6.5	6.9 7.1	7.0		4.6 6.2	5.4	
19-Sep-16	Sunny	Moderate	09:06		Surface	1.0	28.6 28.8	28.7	8.3 8.3	8.3	27.1 26.9	27.0	71.5 78.5	75.0	5.6 6.0	5.8	E 0	8.8 8.6	8.7		7.9 7.5	7.7	
				3.4	Middle	-	-	-	-	-	-	-	-	-	-	-	5.8	-	-	8.8	-	-	7.9
					Bottom	2.4	28.6 28.6	28.6	8.3 8.3	8.3	27.0 27.0	27.0	73.8 70.7	72.3	5.7 5.5	5.6	5.6	8.7 8.8	8.8		7.2 8.7	8.0	
21-Sep-16	Sunny	Moderate	11:00		Surface	1.0	28.4 28.3	28.4	8.3 8.3	8.3	27.0 27.1	27.0	75.3 75.2	75.3	5.0 5.0	5.0	5.0	7.6 7.7	7.7		9.2 10.3	9.8	
				3.2	Middle		-	-	-	-	-	-	-	-	-	-	5.0	-	-	7.7	-	-	10.3
					Bottom	2.2	28.3 28.2	28.3	8.3 8.3	8.3	27.0 27.1	27.1	75.2 75.2	75.2	5.0 5.0	5.0	5.0	7.7	7.6		10.0 11.3	10.7	1

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

Date	Weather	Sea	Sampling	Water	Sampli	ing	Tempera	ature (°C)	p	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	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-Sep-16	Sunny	Moderate	13:34		Surface	1.0	28.6 28.6	28.6	8.3 8.3	8.3	27.6 27.7	27.7	92.1 89.3	90.7	6.1 5.9	6.0	6.0	6.7 6.6	6.7		9.4 8.0	8.7	
				3.2	Middle	-	-	-	-	-	-	-	-	-	-	-	0.0	-	-	6.8	-	-	8.2
					Bottom	2.2	28.6 28.6	28.6	8.3 8.3	8.3	27.6 27.7	27.6	95.6 90.7	93.2	6.4 6.0	6.2	6.2	6.8 6.9	6.9		7.1 8.2	7.7	
26-Sep-16	Sunny	Moderate	15:36		Surface	1.0	29.4 29.4	29.4	8.3 8.3	8.3	27.3 27.1	27.2	96.3 96.1	96.2	6.3 6.3	6.3	6.3	4.0 3.8	3.9		5.3 6.4	5.9	
				3.3	Middle		-	-	-	-	-	-	-	-		-	0.0	-	-	3.8	-	-	7.6
					Bottom	2.3	29.4 29.4	29.4	8.3 8.4	8.4	27.2 27.0	27.1	96.1 96.9	96.5	6.3 6.4	6.4	6.4	3.7 3.6	3.7		9.1 9.4	9.3	
28-Sep-16	Fine	Rough	16:54		Surface	1.0	29.0 29.0	29.0	8.5 8.5	8.5	25.7 25.7	25.7	92.7 88.8	90.8	6.2 5.9	6.1	6.1	7.7 7.9	7.8		17.4 19.2	18.3	
				3.3	Middle	-		-		-		-		-		-	0.1	-	-	7.9	-	-	19.0
					Bottom	2.3	29.0 29.1	29.1	8.5 8.5	8.5	25.8 25.8	25.8	89.6 90.7	90.2	6.0 6.1	6.0	6.0	8.0 7.8	7.9		20.8 18.5	19.7	
30-Sep-16	Cloudy	Moderate	07:05		Surface	1.0	27.6 27.6	27.6	8.3 8.3	8.3	26.1 26.1	26.1	84.6 84.6	84.6	5.8 5.8	5.8	5.8	10.5 10.5	10.5		9.7 11.9	10.8	
				3.2	Middle	-	-	-	-	-	-	-	-	-		-	5.0	-	-	10.4	-	-	11.1
					Bottom	2.2	27.6 27.6	27.6	8.3 8.3	8.3	26.2 26.2	26.2	84.7 84.8	84.8	5.8 5.8	5.8	5.8	10.4 10.2	10.3	<u> </u>	10.9 11.9	11.4	

### 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.

^ The scheduled water quality monitoring during mid-flood tide on 9 September 2016 was cancelled due to thunderstorm Signal hoisted 3 hours before the scheduled monitoring time.

Remarks:

\* DA: Depth-Averaged

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

Date	Weather	Sea	Sampling	Water	Samp	oling	Tempera	ature (°C)	þ	Η	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	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
2-Sep-16	Fine	Moderate	12:49		Surface	1.0	28.3 28.3	28.3	8.3 8.3	8.3	26.5 26.5	26.5	81.5 83.7	82.6	5.5 5.7	5.6		7.2 7.2	7.2		9.4 10.7	10.1	1
				3.6	Middle	-	-	-	-	-	-	-	-	-	-	-	5.6	-	-	7.2	-	-	9.1
					Bottom	2.6	28.3 28.2	28.2	8.3 8.3	8.3	26.5 26.6	26.6	81.0 81.8	81.4	5.5 5.6	5.5	5.5	7.1 7.1	7.1		8.6 7.5	8.1	
5-Sep-16	Fine	Moderate	14:03		Surface	1.0	28.5 28.5	28.5	8.1 8.1	8.1	25.3 25.3	25.3	90.3 92.8	91.6	6.2 6.3	6.2		4.6 4.5	4.6		5.1 6.2	5.7	
				3.6	Middle	-	-	-	-	-	-	-	-	-	-	-	6.2	-	-	4.6	-	-	6.4
					Bottom	2.6	28.5 28.5	28.5	8.1 8.0	8.1	25.4 25.3	25.4	91.5 95.5	93.5	6.2 6.5	6.4	6.4	4.6 4.6	4.6		6.8 7.3	7.1	
7-Sep-16	Cloudy	Moderate	15:13		Surface	1.0	28.0 28.0	28.0	8.1 8.1	8.1	24.6 24.8	24.7	90.1 88.8	89.5	6.2 6.1	6.2		5.1 5.3	5.2		7.0	7.1	
				3.7	Middle	-		-	-	-	-	-	-	-	-	-	6.2	-	-	5.2	-	-	6.9
					Bottom	2.7	28.0 28.0	28.0	8.1 8.1	8.1	25.3 25.1	25.2	88.8 88.5	88.7	6.1 6.1	6.1	6.1	5.1 5.0	5.1		6.8 6.4	6.6	
9-Sep-16	Fine	Moderate	17:16		Surface	1.0	28.5 28.5	28.5	8.0 8.0	8.0	20.0 20.2	20.1	76.6 76.8	76.7	5.3 5.3	5.3	5.0	6.5 6.5	6.5		3.6 4.6	4.1	i
				3.7	Middle	-	-	-	-	-	-	-	-	-	-	-	5.3	-	-	6.6	-	-	4.6
					Bottom	2.7	28.4 28.3	28.4	7.9 7.9	7.9	22.1 22.4	22.3	77.1 77.9	77.5	5.3 5.4	5.3	5.3	6.6 6.6	6.6		4.9 5.3	5.1	
12-Sep-16	Sunny	Moderate	10:14		Surface	1.0	28.5 28.5	28.5	8.2 8.2	8.2	20.4 20.8	20.6	76.1 75.7	75.9	5.4 5.3	5.4	5.4	3.5 3.5	3.5		3.2 2.8	3.0	
				3.6	Middle	-	-	-	-	-	-	-	-	-	-	-	5.4	-	-	3.6	-	-	3.4
					Bottom	2.6	28.4 28.1	28.2	8.1 8.1	8.1	25.6 25.9	25.7	77.0 76.7	76.9	5.3 5.3	5.3	5.3	3.6 3.5	3.6		4.4 3.0	3.7	
14-Sep-16	Sunny	Moderate	11:46		Surface	1.0	28.9 28.9	28.9	8.3 8.3	8.3	24.2 24.1	24.1	78.4 76.0	77.2	5.3 5.1	5.2	5.2	7.9 7.7	7.8		4.2 3.8	4.0	
				3.6	Middle	-	-	-		-		-	-	-	-	-	5.2	-	-	7.8	-	-	4.1
					Bottom	2.6	28.4 28.9	28.7	8.3 8.3	8.3	25.0 24.2	24.6	72.9 77.3	75.1	4.9 5.2	5.1	5.1	7.7 7.8	7.8		4.4 4.0	4.2	
16-Sep-16	Sunny	Moderate	13:08		Surface	1.0	28.8 28.9	28.9	8.4 8.4	8.4	24.7 24.7	24.7	89.2 88.4	88.8	6.0 5.9	6.0	6.0	6.0 5.9	6.0		3.8 4.8	4.3	
				3.7	Middle	-	-	-		-		-	-	-	-	-	0.0	-	-	6.0	-	-	4.8
					Bottom	2.7	28.8 28.7	28.8	8.4 8.4	8.4	24.8 25.0	24.9	88.4 88.0	88.2	5.9 5.9	5.9	5.9	5.9 5.9	5.9		5.6 5.0	5.3	
19-Sep-16	Sunny	Moderate	13:22		Surface	1.0	29.1 29.0	29.1	8.4 8.4	8.4	25.9 25.9	25.9	74.7 79.2	77.0	5.8 6.1	5.9	5.9	5.6 5.6	5.6		6.0 7.1	6.6	
				3.3	Middle	-	-	-	-	-		-	-	-	-	-	0.0	-	-	5.7	-	-	6.8
					Bottom	2.3	29.1 28.9	29.0	8.4 8.4	8.4	25.9 25.9	25.9	74.0 75.4	74.7	5.7 5.8	5.8	5.8	5.7 5.7	5.7		6.6 7.4	7.0	<u> </u>
21-Sep-16	Sunny	Moderate	15:26		Surface	1.0	29.7 29.2	29.4	8.3 8.3	8.3	26.3 26.5	26.4	81.8 79.5	80.7	5.5 5.3	5.4	5.4	6.8 6.8	6.8		5.7 6.5	6.1	
				4.1	Middle	-	-	-	-	-	-	-	-	-	-	-	0	-	-	6.8	-	-	6.6
					Bottom	3.1	28.5 29.0	28.7	8.4 8.3	8.4	26.7 26.5	26.6	80.4 78.6	79.5	5.3 5.2	5.2	5.2	6.7 6.8	6.8		6.4 7.7	7.1	

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

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	F	ЪН	Salini	y (ppt)	DO Satu	ration (%)	Dissolv	ved Oxygen	(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-Sep-16	Sunny	Moderate	17:24		Surface	1.0	28.6 28.6	28.6	8.4 8.4	8.4	26.8 26.9	26.8	93.4 91.0	92.2	6.2 6.1	6.2	6.2	6.2 6.2	6.2		8.2 7.5	7.9	
				3.7	Middle	-	-	-	-	-	-	-	-	-	-	-	0.2	-	-	6.2	-	-	8.2
					Bottom	2.7	28.6 28.6	28.6	8.4 8.4	8.4	26.7 26.8	26.8	96.4 91.9	94.2	6.4 6.1	6.3	6.3	6.0 6.2	6.1		8.0 9.0	8.5	
26-Sep-16	Sunny	Moderate	10:13		Surface	1.0	28.7 28.7	28.7	8.3 8.3	8.3	27.8 27.7	27.8	91.2 89.1	90.2	6.0 5.9	6.0	6.0	4.4 4.0	4.2		4.6 4.0	4.3	
				3.5	Middle	-	-	-	-	-		-		-		-	0.0	-	-	4.8	-	-	4.3
					Bottom	2.5	28.8 28.7	28.8	8.3 8.3	8.3	28.1 28.0	28.1	89.4 94.3	91.9	5.9 6.2	6.1	6.1	5.2 5.5	5.4		4.4 4.1	4.3	
28-Sep-16	Fine	Rough	11:55		Surface	1.0	29.2 29.2	29.2	8.3 8.3	8.3	26.5 26.3	26.4	89.1 92.4	90.8	5.9 6.1	6.0	6.0	5.5 5.5	5.5		8.4 6.9	7.7	
				3.7	Middle	-	-	-	-	-	-	-	-	-		-	0.0	-	-	5.6	-	-	8.6
					Bottom	2.7	29.1 29.2	29.1	8.3 8.3	8.3	26.8 26.6	26.7	88.2 90.4	89.3	5.8 6.0	5.9	5.9	5.6 5.8	5.7		8.8 9.9	9.4	
30-Sep-16	Fine	Moderate	11:50		Surface	1.0	27.7 27.7	27.7	8.4 8.4	8.4	26.1 26.0	26.0	91.0 93.7	92.4	6.2 6.4	6.3	6.3	4.9 5.0	5.0		5.5 4.4	5.0	
				3.6	Middle	-	-	-	-	-		-	-	-		-	0.0	-	-	5.0	-	-	5.6
					Bottom	2.6	27.7 27.7	27.7	8.4 8.4	8.4	26.0 26.0	26.0	92.4 96.4	94.4	6.3 6.6	6.4	6.4	4.9 5.1	5.0		5.6 6.5	6.1	

### 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

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

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	F	ъН	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	(mg/L)	٦ ا	Furbidity(NT	J)	Suspe	nded Solids	ه (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-Sep-16	Fine	Moderate	07:35		Surface	1.0	28.1 28.1	28.1	8.2 8.2	8.2	25.4 25.8	25.6	86.3 90.6	88.5	5.9 6.2	6.0		6.2 6.2	6.2		6.1 7.4	6.8	
				3.8	Middle	-	-	-		-	-	-	-	-	-	-	6.0	-	-	6.3	-	-	7.1
					Bottom	2.8	28.1 28.0	28.1	8.2 8.2	8.2	26.5 26.3	26.4	87.4 86.1	86.8	6.0 5.9	5.9	5.9	6.1 6.4	6.3		7.1 7.6	7.4	
5-Sep-16	Fine	Moderate	09:33		Surface	1.0	28.3 28.3	28.3	8.2 8.2	8.2	26.0 26.0	26.0	91.2 88.3	89.8	6.2 6.0	6.1		5.6 5.6	5.6		4.7 3.1	3.9	
				3.7	Middle	-	-	-	-	-	-	-	-	-	-	-	6.1	-	-	5.6	-	-	4.6
					Bottom	2.7	28.2 28.3	28.2	8.2 8.2	8.2	26.3 26.2	26.2	95.4 90.0	92.7	6.5 6.1	6.3	6.3	5.5 5.7	5.6		5.1 5.5	5.3	
7-Sep-16	Rainy	Moderate	10:55		Surface	1.0	28.0 28.0	28.0	8.2 8.2	8.2	25.4 25.3	25.3	84.7 89.7	87.2	5.8 6.2	6.0		11.5 11.1	11.3		10.9 10.3	10.6	
				3.8	Middle	-	-	-	-	-	-	-	-	-	-	-	6.0	-	-	11.3	-	-	10.7
					Bottom	2.8	27.9 28.0	28.0	8.2 8.2	8.2	25.5 25.5	25.5	85.7 83.7	84.7	5.9 5.8	5.8	5.8	11.2 11.1	11.2		11.0 10.6	10.8	
9-Sep-16 ^	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	-	-	-		-	-	-		-	-	-	-	-	-	=	-	-	-
					Bottom	-	-	-		-	-	-		-	-	-	-	-	-		-	-	
12-Sep-16	Sunny	Moderate	16:17		Surface	1.0	29.3 29.2	29.3	8.4 8.4	8.4	19.1 19.2	19.2	81.5 79.2	80.4	5.6 5.5	5.5	5.5	11.2 11.1	11.2		5.0 5.9	5.5	
				3.7	Middle	-	-	-	-	-	-	-	-	-	-	-	5.5	-	-	11.3	-	-	5.8
					Bottom	2.7	28.9 29.1	29.0	8.4 8.4	8.4	21.0 20.7	20.9	79.3 80.8	80.1	5.5 5.5	5.5	5.5	11.2 11.4	11.3		6.0 6.0	6.0	
14-Sep-16	Sunny	Moderate	17:25		Surface	1.0	29.2 29.3	29.3	8.5 8.5	8.5	20.8 20.8	20.8	118.0 117.4	117.7	8.1 8.0	8.0	8.0	10.5 10.6	10.6		12.4 12.5	12.5	
				3.8	Middle	-	-	-	-	-	-	-	-	-	-	-	0.0	-	-	10.7	-	-	12.4
					Bottom	2.8	29.2 29.2	29.2	8.5 8.5	8.5	20.9 21.0	21.0	117.8 116.6	117.2	8.0 8.0	8.0	8.0	10.5 10.8	10.7		11.8 12.6	12.2	
16-Sep-16	Fine	Moderate	18:15		Surface	1.0	28.8 28.8	28.8	8.4 8.4	8.4	24.8 24.7	24.8	84.1 82.4	83.3	5.7 5.5	5.6	5.6	9.1 9.2	9.2		6.4 6.1	6.3	
				3.7	Middle	-	-	-	-	-	-	-	-	-	-	-	5.0	-	-	9.3	-	-	6.4
					Bottom	2.7	28.5 28.7	28.6	8.4 8.4	8.4	25.9 25.5	25.7	82.0 84.5	83.3	5.5 5.7	5.6	5.6	9.1 9.5	9.3		7.3 5.4	6.4	
19-Sep-16	Sunny	Moderate	08:51		Surface	1.0	28.4 28.4	28.4	8.3 8.3	8.3	27.3 27.3	27.3	74.3 79.7	77.0	5.8 6.1	5.9	5.9	6.2 6.1	6.2		7.4 6.6	7.0	
				3.4	Middle	-	-	-		-	-	-	-	-	-	-	5.5	-	-	6.2	-	-	6.8
					Bottom	2.4	28.4 28.4	28.4	8.3 8.3	8.3	27.2 27.3	27.3	75.9 73.1	74.5	5.9 5.7	5.8	5.8	6.1 6.2	6.2		7.4 5.8	6.6	
21-Sep-16	Sunny	Moderate	10:45		Surface	1.0	28.4 28.4	28.4	8.3 8.3	8.3	27.2 27.2	27.2	79.8 79.8	79.8	5.4 5.4	5.4	5.4	8.4 8.3	8.4		7.8 8.5	8.2	
				3.8	Middle	-	-	-	-	-	-	-	-	-	-	-	3.4	-	-	8.4	-	-	9.1
					Bottom	2.8	28.3 28.4	28.3	8.3 8.3	8.3	27.3 27.2	27.2	80.0 79.9	80.0	5.4 5.4	5.4	5.4	8.3 8.5	8.4		9.9 9.9	9.9	

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

Date	Weather	Sea	Sampling	Water	Sampli	ing	Tempera	ature (°C)	p	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Т	urbidity(NTl	J)	Susper	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-Sep-16	Sunny	Moderate	13:21		Surface	1.0	28.5 28.5	28.5	8.3 8.3	8.3	27.7 27.7	27.7	85.5 86.8	86.2	5.7 5.8	5.7	5.7	12.7 13.0	12.9		14.5 15.1	14.8	
				3.8	Middle	-	-	-	-	-	-	-	-	-	-	-	5.7	-	-	12.9	-	-	15.3
					Bottom	2.8	28.5 28.5	28.5	8.3 8.3	8.3	27.7 27.7	27.7	88.3 86.1	87.2	5.9 5.7	5.8	5.8	12.9 12.7	12.8		15.0 16.3	15.7	
26-Sep-16	Sunny	Moderate	15:50		Surface	1.0	29.6 29.7	29.6	8.3 8.3	8.3	27.6 27.4	27.5	97.2 98.9	98.1	6.4 6.5	6.4	6.4	8.5 8.0	8.3		8.0 9.2	8.6	
				3.6	Middle	-		-		-		-	• •	-		-	0.4	-	-	8.7	-	-	9.8
					Bottom	2.6	29.2 29.6	29.4	8.3 8.3	8.3	27.8 27.6	27.7	96.1 97.8	97.0	6.3 6.4	6.4	6.4	9.1 8.8	9.0		9.9 12.0	11.0	
28-Sep-16	Fine	Rough	17:10		Surface	1.0	29.1 29.1	29.1	8.5 8.5	8.5	25.9 25.9	25.9	93.9 94.7	94.3	6.3 6.3	6.3	6.3	8.3 8.1	8.2		12.3 13.2	12.8	
				3.6	Middle	-	-	-	-	-	-	-	-	-	-	-	0.5	-	-	8.2	-	-	12.8
					Bottom	2.6	29.1 29.1	29.1	8.5 8.5	8.5	25.9 25.9	25.9	93.6 94.0	93.8	6.2 6.3	6.2	6.2	8.0 8.1	8.1		13.6 11.8	12.7	
30-Sep-16	Cloudy	Moderate	06:51		Surface	1.0	27.9 27.9	27.9	8.4 8.4	8.4	26.6 26.6	26.6	85.3 85.3	85.3	5.8 5.8	5.8	5.8	9.5 9.6	9.6		10.0 10.7	10.4	
				3.6	Middle	-		-	• •	-	-	-	-	-		-	5.0	-	-	9.6	-	-	13.0
					Bottom	2.6	27.9 27.9	27.9	8.4 8.4	8.4	26.6 26.6	26.6	85.3 85.3	85.3	5.8 5.8	5.8	5.8	9.6 9.6	9.6	<u> </u>	14.6 16.4	15.5	

### 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.

^ The scheduled water quality monitoring during mid-flood tide on 9 September 2016 was cancelled due to thunderstorm Signal hoisted 3 hours before the scheduled monitoring time.

Remarks:

\* DA: Depth-Averaged

## 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(NTL	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-Sep-16	Fine	Moderate	13:19		Surface	1.0	28.1 28.1	28.1	8.1 8.1	8.1	25.8 26.2	26.0	79.3 79.3	79.3	5.4 5.4	5.4		12.2 12.1	12.2		14.2 16.4	15.3	
				12.2	Middle	6.1	28.3 28.3	28.3	8.1 8.1	8.1	25.9 25.6	25.8	78.7	78.9	5.3 5.3	5.3	5.4	12.4	12.5	12.5	15.0 15.4	15.2	15.7
					Bottom	11.2	28.2	28.2	8.1 8.1	8.1	26.2 25.6	25.9	78.7 78.4	78.6	5.3 5.3	5.3	5.3	12.8	12.9	ļ	15.7	16.6	
5-Sep-16	Fine	Moderate	14:59		Surface	1.0	28.2 28.2	28.2	7.9	7.9	27.0 23.6	25.3	77.6	77.7	5.3 5.3	5.3		5.2	5.3		4.6	4.7	
				10.8	Middle	5.4	28.1	28.2	7.9 7.9 8.0	7.9	23.6 27.4 22.5	24.9	76.6 76.5	76.6	5.3 5.2	5.2	5.3	5.3 5.4 5.5	5.5	5.6	5.5 4.4	5.0	5.5
					Bottom	9.8	28.2 28.2 28.1	28.2	7.9	7.9	27.5	27.6	75.4 75.9	75.7	5.2 5.2 5.2	5.2	5.2	5.9 5.8	5.9	ļ	6.8 6.7	6.8	
7-Sep-16	Cloudy	Moderate	16:11		Surface	1.0	28.3 28.3	28.3	7.9	7.9	20.3	20.5	73.4	73.4	5.4	5.4		7.5	7.5		9.1 9.5	9.3	
				10.5	Middle	5.3	28.3 28.1 28.1	28.1	7.8 7.8 7.8	7.8	20.8 22.3 22.0	22.2	73.3 73.2 72.6	72.9	5.4 5.4 5.3	5.3	5.4	7.4 7.2 7.5	7.4	7.5	9.5 9.5 8.5	9.0	9.2
					Bottom	9.5	28.1	28.1	7.8	7.8	22.6	22.8	73.5	73.5	5.4	5.4	5.4	7.5	7.5	ļ	9.0	9.2	
9-Sep-16	Fine	Moderate	17:57		Surface	1.0	28.1 28.7	28.7	7.8 8.0	8.0	22.9 14.4	14.6	73.5 79.0	79.3	5.4 5.7	5.7		7.4 3.4	3.4		9.3 3.4	3.1	
				10.5	Middle	5.3	28.7 27.7 27.9	27.8	8.0 7.8 7.8	7.8	14.9 25.2 24.9	25.1	79.5 78.8 78.3	78.6	5.7 5.6 5.6	5.6	5.7	3.4 5.5 5.2	5.4	4.7	2.7 3.1 2.8	3.0	2.9
					Bottom	9.5	27.9 27.7 28.0	27.9	7.8	7.8	24.9 26.9 27.1	27.0	76.0 76.8	76.4	5.0 5.2 5.2	5.2	5.2	5.2 5.3 5.0	5.2	ļ	2.7	2.5	
12-Sep-16	Sunny	Moderate	09:37		Surface	1.0	29.1 28.9	29.0	8.1 8.1	8.1	18.2 18.0	18.1	82.3 83.6	83.0	6.0 6.1	6.0		3.6 3.4	3.5		4.2	3.7	
				10.6	Middle	5.3	28.2	28.1	7.9	7.9	26.0	26.3	81.5 80.1	80.8	5.7	5.7	5.9	5.0	5.1	4.7	3.1 3.2 3.5	3.4	3.7
					Bottom	9.6	28.1 28.1 28.2	28.1	7.9	7.9	26.6 26.8 26.5	26.7	75.4 76.3	75.9	5.6 5.3 5.4	5.4	5.4	5.2 5.5 5.2	5.4	ļ	3.6	3.9	
14-Sep-16	Sunny	Moderate	11:24		Surface	1.0	29.4	29.4	8.2	8.3	13.7	13.6	109.7	113.5	7.8	8.0		3.2	3.1		4.1 5.2	4.7	┍──┤
				11.1	Middle	5.6	29.4 29.2	29.2	8.3 8.2	8.2	13.5 14.8	14.8	117.3 99.6	106.4	8.3 7.0	7.5	7.8	2.9 3.2	3.1	3.2	4.1	4.4	4.7
					Bottom	10.1	29.2 28.9	29.1	8.2 8.1 8.2	8.2	14.8 15.4 15.9	15.7	113.1 94.5	103.3	7.9 6.7	7.3	7.3	2.9 3.3	3.3	ļ	4.5	4.9	
16-Sep-16	Sunny	Moderate	12:42		Surface	1.0	29.2 28.6	28.7	8.2	8.2	26.7	26.6	112.1 90.6	89.8	7.9 6.3	6.2		3.2 5.9	6.0		5.1 7.2	7.5	
				10.3	Middle	5.2	28.8 28.4	28.4	8.2 8.2	8.2	26.5 27.1	27.1	88.9 86.4	86.5	6.1 6.0	6.0	6.1	6.1 6.4	6.7	6.4	7.8	4.9	5.6
					Bottom	9.3	28.4 28.5	28.5	8.2 8.2	8.2	27.2	27.2	86.6 88.6	87.6	6.0 6.1	6.1	6.1	6.9 6.3	6.6	ļ	5.5 4.1	4.3	
19-Sep-16	Sunny	Moderate	14:19		Surface	1.0	28.4 28.9	28.9	8.2	8.0	27.2	28.3	86.5 76.2	76.4	6.0 5.4	5.4		6.8	6.7		4.5 8.0	8.2	
				11.8	Middle	5.9	28.9 28.4	28.5	8.0 8.0	8.0	28.3	29.0	76.6 75.6	75.8	5.4 5.4	5.4	5.4	6.8 6.9	7.0	7.0	8.4 8.2	8.0	7.7
					Bottom	10.8	28.5 28.4	28.4	8.0 8.0	8.0	28.8 29.3	29.2	75.9 74.8	75.0	5.4 5.3	5.3	5.3	7.0	7.4		7.8	7.0	
21-Sep-16	Sunny	Moderate	15:56		Surface	1.0	28.5 28.3	28.3	<u>8.0</u> 8.1	8.1	29.1 28.1	27.7	75.1 79.0	78.5	5.3 5.4	5.4		7.3 6.7	6.9		7.0 6.9	6.7	
				10.6	Middle	5.3	28.3 28.2	28.2	8.1 8.1	8.1	27.4 29.1	28.7	77.9 78.4	78.1	5.4 5.4	5.4	5.4	7.0 7.3	7.0	7.2	6.4 7.7	7.4	7.1
					Bottom	9.6	28.2 28.2	28.2	8.1 8.0	8.1	28.4 29.1	28.8	77.8 79.1	78.8	5.4 5.4	5.4	5.4	6.6 7.9	7.8		7.1 7.5	7.3	
		L			Dottom	0.0	28.2	20.2	8.1	0.1	28.5	20.0	78.5	, 5.0	5.4	5.7	0.7	7.7	7.0		7.0		<u> </u>

## Water Quality Monitoring Results at IS10 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampling	g	Tempera	ature (°C)	p	Η	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ved Oxygen	(mg/L)	Т	urbidity(NTL	J)	Suspe	ended Solids	, (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth (m	ו)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Sep-16	Sunny	Moderate	17:31		Surface	1.0	28.5 28.4	28.5	8.2 8.2	8.2	20.1 20.3	20.2	80.3 79.7	80.0	5.6 5.5	5.6	5.6	4.6 4.7	4.7		7.2 6.4	6.8	
				11.0	Middle	5.5	28.2 28.2	28.2	8.1 8.1	8.1	22.4 22.3	22.4	79.1 80.2	79.7	5.4 5.5	5.5	5.0	4.7 4.6	4.7	4.7	7.3 7.7	7.5	6.9
					Bottom 1	10.0	28.3 28.2	28.2	8.1 8.1	8.1	22.4 22.5	22.5	80.0 78.1	79.1	5.5 5.4	5.4	5.4	4.8 4.8	4.8		6.1 6.4	6.3	
26-Sep-16	Sunny	Moderate	09:19		Surface	1.0	28.9 29.0	29.0	8.0 8.0	8.0	25.7 25.4	25.5	90.8 89.3	90.1	6.1 6.0	6.0	6.0	1.7 1.8	1.8		4.7 4.8	4.8	
				11.2	Middle 5	5.6	29.0 28.9	28.9	8.0 8.0	8.0	25.6 26.2	25.9	88.9 88.4	88.7	5.9 5.9	5.9	0.0	2.0 1.9	2.0	2.0	3.8 4.4	4.1	4.3
					Bottom 1	10.2	28.9 28.9	28.9	8.0 8.0	8.0	26.2 26.5	26.4	86.7 87.2	87.0	5.8 5.8	5.8	5.8	2.3 2.2	2.3		4.7 3.0	3.9	
28-Sep-16	Fine	Rough	11:22		Surface	1.0	29.0 29.0	29.0	8.1 8.2	8.2	27.2 27.1	27.2	93.5 94.8	94.2	6.2 6.3	6.2	6.1	5.5 5.5	5.5		8.5 8.0	8.3	
				10.6	Middle	5.3	29.0 29.0	29.0	8.1 8.2	8.2	27.3 27.3	27.3	90.7 90.7	90.7	6.0 6.0	6.0	0.1	7.1 7.3	7.2	6.7	9.9 8.7	9.3	8.7
					Bottom	9.6	28.9 29.0	29.0	8.1 8.2	8.2	27.3 27.3	27.3	91.6 90.5	91.1	6.1 6.0	6.0	6.0	7.5 7.0	7.3		8.4 8.3	8.4	
30-Sep-16	Fine	Moderate	12:41		Surface	1.0	27.9 28.0	27.9	8.2 8.2	8.2	25.4 26.5	25.9	88.3 87.9	88.1	6.0 6.0	6.0	6.0	4.9 5.1	5.0		7.2 7.1	7.2	
				11.4	Middle	5.7	27.9 27.9	27.9	8.2 8.2	8.2	26.1 25.9	26.0	87.1 87.8	87.5	5.9 6.0	5.9	0.0	5.3 5.2	5.3	5.3	6.7 7.2	7.0	7.5
					Bottom 1	10.4	28.0 28.0	28.0	8.2 8.2	8.2	27.8 26.3	27.0	86.2 86.4	86.3	5.8 5.9	5.8	5.8	5.5 5.6	5.6		8.1 8.6	8.4	

#### 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

## 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)	T T	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-Sep-16	Fine	Moderate	07:09		Surface	1.0	28.0 28.0	28.0	7.9 7.9	7.9	26.3 26.4	26.4	80.9 79.5	80.2	5.6 5.5	5.6	5.6	13.9 13.8	13.9		15.5 16.9	16.2	
				12.2	Middle	6.1	28.0 28.0	28.0	7.9 7.9	7.9	26.9 26.6	26.8	78.8 79.4	79.1	5.5 5.5	5.5	5.0	14.2 14.1	14.2	14.2	18.8 17.3	18.1	17.5
					Bottom	11.2	28.0 28.0	28.0	7.9 7.9	7.9	26.7 26.7	26.7	78.6 78.1	78.4	5.5 5.4	5.4	5.4	14.3 14.4	14.4		18.8 17.5	18.2	
5-Sep-16	Fine	Moderate	08:59		Surface	1.0	28.3 28.3	28.3	8.0 8.0	8.0	25.3 25.1	25.2	80.4 79.4	79.9	5.5 5.5	5.5		8.2 8.3	8.3		4.7 4.8	4.8	
				11.0	Middle	5.5	28.1 28.1	28.1	8.0 8.0	8.0	27.0 26.5	26.7	78.4 79.1	78.8	5.4 5.4	5.4	5.5	8.5 8.6	8.6	8.6	6.5 6.4	6.5	6.1
					Bottom	10.0	28.1	28.1	7.9 7.9	7.9	27.6 27.5	27.6	77.9	77.7	5.3 5.3	5.3	5.3	8.7 8.9	8.8		5.9 8.0	7.0	
7-Sep-16	Rainy	Moderate	10:47		Surface	1.0	28.2 28.1	28.1	7.7	7.8	23.8 23.8	23.8	74.8 74.1	74.5	5.4 5.4	5.4		8.9 9.3	9.1		5.9 5.2	5.6	
				10.5	Middle	5.3	27.8	27.8	7.7	7.7	27.7 27.9	27.8	70.8	71.1	5.1 5.1	5.1	5.3	10.5 10.1	10.3	10.6	6.7 6.9	6.8	6.0
					Bottom	9.5	27.8 27.8	27.8	7.7	7.7	28.2	28.2	71.9	72.1	5.1 5.2	5.1	5.1	12.2	12.4		5.5 5.5	5.5	
9-Sep-16 ^	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<u>-</u>	-	-	-
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
12-Sep-16	Sunny	Moderate	16:50		Surface	1.0	28.9 28.9	28.9	8.0 8.0	8.0	21.7 21.7	21.7	78.6 79.7	79.2	5.6 5.7	5.6		5.0 5.3	5.2		2.9 3.1	3.0	
				10.6	Middle	5.3	27.5 27.5	27.5	7.9 7.9	7.9	31.0 30.7	30.9	77.8 76.5	77.2	5.4 5.3	5.4	5.5	8.0 7.8	7.9	7.5	3.0 3.2	3.1	3.1
					Bottom	9.6	27.5 27.5	27.5	7.9 7.9	7.9	31.2 31.2	31.2	72.2 71.8	72.0	5.1 5.0	5.0	5.0	9.5 9.0	9.3		3.0 3.1	3.1	
14-Sep-16	Sunny	Moderate	17:44		Surface	1.0	29.0 29.1	29.1	8.3 8.3	8.3	13.4 12.9	13.1	96.5 100.4	98.5	6.9 7.2	7.0		5.2 5.2	5.2		3.9 4.1	4.0	
				11.0	Middle	5.5	28.8 28.9	28.8	8.2 8.2	8.2	15.1 14.8	14.9	95.9 95.7	95.8	6.7 6.8	6.7	6.9	5.4 5.5	5.5	5.4	4.0 4.2	4.1	4.1
					Bottom	10.0	29.0 28.7	28.9	8.2 8.2	8.2	17.7 18.0	17.9	95.2 92.1	93.7	6.7 6.5	6.6	6.6	5.5 5.4	5.5		4.2 4.1	4.2	
16-Sep-16	Fine	Moderate	18:58		Surface	1.0	28.3 28.3	28.3	8.2 8.2	8.2	21.1 21.6	21.4	90.0 86.4	88.2	6.3 6.1	6.2	6.1	6.6 6.2	6.4		4.3 4.4	4.4	
				10.3	Middle	5.2	28.1 28.1	28.1	8.2 8.2	8.2	22.1 21.8	21.9	84.9 82.9	83.9	6.0 5.9	6.0	0.1	7.7 7.3	7.5	7.4	4.0 4.5	4.3	4.4
					Bottom	9.3	27.8 28.0	27.9	8.2 8.2	8.2	23.6 23.9	23.8	76.1 75.0	75.6	5.4 5.4	5.4	5.4	8.5 8.2	8.4		4.8 4.0	4.4	
19-Sep-16	Sunny	Moderate	08:29		Surface	1.0	28.4 28.3	28.3	8.0 8.0	8.0	29.1 29.3	29.2	80.6 79.5	80.1	5.7 5.6	5.7	5.7	23.3 23.4	23.4		17.8 19.3	18.6	
				12.0	Middle	6.0	28.3 28.3	28.3	8.0 8.0	8.0	29.3 29.3	29.3	78.8 79.8	79.3	5.6 5.7	5.6	5.7	23.7 23.5	23.6	23.6	20.8 19.3	20.1	21.0
					Bottom	11.0	28.3 28.3	28.3	8.0 8.0	8.0	29.3 29.4	29.3	79.1 78.3	78.7	5.6 5.6	5.6	5.6	23.8 23.9	23.9		25.3 23.2	24.3	
21-Sep-16	Sunny	Moderate	10:33		Surface	1.0	28.3 28.3	28.3	8.0 7.9	7.9	29.9 29.8	29.9	82.2 79.2	80.7	5.6 5.4	5.5	5.5	12.2 11.8	12.0		13.8 14.4	14.1	
				10.3	Middle	5.2	28.1 28.2	28.1	7.8 7.9	7.9	30.2 30.1	30.1	80.8 77.3	79.1	5.5 5.3	5.4	5.5	12.0 12.7	12.4	12.6	13.8 13.8	13.8	13.6
					Bottom	9.3	28.1 28.2	28.2	7.8 7.9	7.9	30.2 30.1	30.2	77.9 77.8	77.9	5.3 5.3	5.3	5.3	13.2 13.5	13.4		12.8 13.0	12.9	

## Water Quality Monitoring Results at IS10 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samplin	g	Tempera	ature (°C)	p	Н	Salini	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	n)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Sep-16	Sunny	Moderate	12:54		Surface	1.0	28.3 28.3	28.3	8.2 8.2	8.2	21.3 21.1	21.2	84.0 89.7	86.9	5.8 6.2	6.0	6.0	5.7 5.5	5.6		4.9 6.2	5.6	
				11.0	Middle	5.5	28.2 28.2	28.2	8.2 8.2	8.2	21.8 21.8	21.8	86.0 83.8	84.9	5.9 5.8	5.9	0.0	5.5 5.7	5.6	5.7	4.5 4.9	4.7	5.4
					Bottom 1	10.0	28.2 28.2	28.2	8.2 8.2	8.2	22.1 22.0	22.1	83.4 84.5	84.0	5.8 5.9	5.8	5.8	5.9 5.7	5.8		5.9 6.0	6.0	
26-Sep-16	Sunny	Moderate	17:31		Surface	1.0	29.7 29.7	29.7	8.1 8.1	8.1	22.5 22.5	22.5	89.0 89.2	89.1	6.0 6.0	6.0	6.0	2.6 2.7	2.7		6.0 4.3	5.2	
				11.3	Middle	5.7	29.1 29.3	29.2	8.1 8.1	8.1	26.1 23.5	24.8	88.8 89.5	89.2	6.0 5.9	5.9	0.0	2.8 2.8	2.8	2.8	4.5 6.2	5.4	5.5
					Bottom	10.3	29.1 29.2	29.1	8.0 8.0	8.0	26.5 27.4	27.0	87.8 88.5	88.2	5.8 5.8	5.8	5.8	3.0 2.9	3.0		6.1 5.4	5.8	
28-Sep-16	Fine	Rough	17:54		Surface	1.0	29.0 29.0	29.0	8.2 8.2	8.2	24.7 24.4	24.5	91.5 90.4	91.0	6.2 6.1	6.1	6.1	4.2 4.3	4.3		7.8 7.9	7.9	
				10.3	Middle	5.2	28.9 28.9	28.9	8.2 8.2	8.2	26.4 25.8	26.1	89.7 89.8	89.8	6.0 6.0	6.0	0.1	5.5 5.4	5.5	5.2	8.9 7.5	8.2	8.1
					Bottom	9.3	28.9 28.9	28.9	8.2 8.2	8.2	26.0 26.6	26.3	90.3 89.7	90.0	6.0 6.0	6.0	6.0	5.7 5.8	5.8		8.7 7.6	8.2	
30-Sep-16	Cloudy	Moderate	06:25		Surface	1.0	28.1 28.1	28.1	8.2 8.2	8.2	29.6 29.7	29.7	89.1 86.2	87.7	5.9 5.7	5.8	5.8	7.4 7.3	7.4		7.6 8.0	7.8	
				11.5	Middle	5.8	27.9 28.0	28.0	8.2 8.2	8.2	28.4 29.0	28.7	85.0 85.3	85.2	5.6 5.7	5.7	5.0	7.5 7.6	7.6	7.6	6.8 8.5	7.7	9.2
					Bottom	10.5	28.1 28.1	28.1	8.2 8.2	8.2	29.6 29.4	29.5	85.2 84.8	85.0	5.6 5.6	5.6	5.6	7.7 7.8	7.8		11.6 12.7	12.2	<u> </u>

#### 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.

^ The scheduled water quality monitoring during mid-flood tide on 9 September 2016 was cancelled due to thunderstorm Signal hoisted 3 hours before the scheduled monitoring time.

Remarks:

\* DA: Depth-Averaged

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

Date	Weather	Sea	Sampling	Water	Sampl	ing	Tempera	ature (°C)	F	Η	Salini	ity (ppt)	DO Satu	ration (%)	Dissolv	ved Oxygen	(mg/L)	Т	urbidity(NTL	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-Sep-16	Fine	Moderate	13:30		Surface	1.0	28.3 28.3	28.3	8.1 8.1	8.1	25.5 24.5	25.0	80.6 80.1	80.4	5.5 5.5	5.5	5.5	8.4 8.5	8.5		13.1 14.4	13.8	
				12.3	Middle	6.2	28.2 28.2	28.2	8.1 8.1	8.1	26.0 24.8	25.4	80.2 80.0	80.1	5.4 5.4	5.4	5.5	8.6 8.7	8.7	8.7	11.6 11.1	11.4	12.9
					Bottom	11.3	28.1 28.1	28.1	8.1 8.1	8.1	25.3 26.6	25.9	79.8 79.5	79.7	5.4 5.4	5.4	5.4	8.9 8.7	8.8		13.9 12.9	13.4	
5-Sep-16	Fine	Moderate	15:11		Surface	1.0	28.3 28.3	28.3	8.0 7.9	8.0	23.7 25.6	24.7	79.3 79.4	79.4	5.4 5.5	5.4	5.4	6.2 6.3	6.3		6.0 5.9	6.0	
				10.7	Middle	5.4	28.2 28.2	28.2	7.9 7.9	7.9	25.7 25.9	25.8	78.4 78.4	78.4	5.4 5.4	5.4	5.4	6.5 6.4	6.5	6.5	7.7 6.7	7.2	6.6
					Bottom	9.7	28.2 28.2	28.2	7.9 7.9	7.9	26.9 26.9	26.9	77.9 77.4	77.7	5.3 5.3	5.3	5.3	6.7 6.6	6.7		6.2 6.8	6.5	
7-Sep-16	Cloudy	Moderate	16:19		Surface	1.0	28.2 28.2	28.2	7.8 7.9	7.9	14.9 14.9	14.9	71.4 71.0	71.2	5.4 5.4	5.4	5.0	6.2 5.9	6.1		7.0 7.1	7.1	
				10.3	Middle	5.2	27.7 27.8	27.8	7.7 7.8	7.8	21.1 20.8	20.9	68.9 69.7	69.3	5.1 5.2	5.1	5.3	8.3 8.4	8.4	7.5	7.6 7.7	7.7	7.7
					Bottom	9.3	27.8 27.7	27.8	7.8 7.7	7.8	20.9 21.3	21.1	70.6 69.3	70.0	5.2 5.1	5.2	5.2	8.0 8.2	8.1		8.2 8.5	8.4	
9-Sep-16	Fine	Moderate	18:07		Surface	1.0	28.7 28.7	28.7	8.1 8.1	8.1	9.5 9.5	9.5	80.9 83.8	82.4	6.0 6.2	6.1	<u> </u>	3.1 3.1	3.1		2.8 2.4	2.6	
				10.4	Middle	5.2	27.9 27.9	27.9	7.9 7.9	7.9	20.0 21.0	20.5	79.0 78.8	78.9	5.9 5.8	5.8	6.0	2.9 3.0	3.0	3.2	3.6 3.7	3.7	3.0
					Bottom	9.4	27.8 27.9	27.8	7.9 7.9	7.9	21.5 21.3	21.4	73.5 73.8	73.7	5.2 5.2	5.2	5.2	3.4 3.3	3.4		2.7 2.4	2.6	
12-Sep-16	Sunny	Moderate	09:27		Surface	1.0	29.0 29.0	29.0	8.1 8.0	8.1	17.7 18.3	18.0	82.2 85.8	84.0	5.9 6.2	6.1	6.0	3.6 3.2	3.4		2.8 3.3	3.1	
				10.6	Middle	5.3	27.8 27.6	27.7	7.9 7.9	7.9	29.7 30.1	29.9	81.0 81.8	81.4	5.7 5.8	5.8	0.0	4.0 4.3	4.2	4.3	3.4 4.3	3.9	3.2
					Bottom	9.6	27.7 27.5	27.6	7.9 7.8	7.9	30.2 30.4	30.3	75.5 73.7	74.6	5.3 5.2	5.2	5.2	5.3 5.3	5.3		2.9 2.4	2.7	
14-Sep-16	Sunny	Moderate	11:10		Surface	1.0	29.4 29.5	29.5	8.3 8.3	8.3	13.5 14.1	13.8	116.2 120.8	118.5	8.2 8.5	8.4	8.2	3.1 3.0	3.1		3.8 4.3	4.1	
				11.0	Middle	5.5	29.2 29.3	29.2	8.3 8.3	8.3	15.1 15.6	15.3	111.4 113.3	112.4	7.9 7.9	7.9	0.2	3.2 3.2	3.2	3.2	4.6 5.3	5.0	4.3
					Bottom	10.0	29.2 29.2	29.2	8.3 8.3	8.3	16.5 15.4	16.0	112.4 111.0	111.7	7.9 7.8	7.9	7.9	3.3 3.3	3.3		3.9 3.4	3.7	
16-Sep-16	Sunny	Moderate	12:32		Surface	1.0	28.2 28.2	28.2	8.1 8.1	8.1	27.6 27.6	27.6	80.3 79.1	79.7	5.6 5.5	5.5	5.5	6.3 6.7	6.5		6.7 5.3	6.0	
				10.7	Middle	5.4	27.7 27.6	27.7	8.1 8.1	8.1	29.3 29.6	29.4	78.0 78.4	78.2	5.4 5.4	5.4	5.5	7.3 7.2	7.3	7.5	3.8 4.2	4.0	4.8
					Bottom	9.7	27.8 27.5	27.7	8.1 8.1	8.1	29.7 30.0	29.8	76.1 75.3	75.7	5.3 5.2	5.3	5.3	8.5 8.8	8.7		4.2 4.6	4.4	<u> </u>
19-Sep-16	Sunny	Moderate	14:28		Surface	1.0	28.9 28.6	28.7	8.0 8.0	8.0	27.9 28.4	28.2	78.1 77.9	78.0	5.5 5.5	5.5	5.5	6.5 6.4	6.5		7.0 6.4	6.7	
				11.6	Middle	5.8	28.6 28.8	28.7	8.0 8.0	8.0	28.4 28.2	28.3	77.3 77.6	77.5	5.5 5.5	5.5	0.0	6.6 6.7	6.7	6.7	7.6 7.4	7.5	7.2
					Bottom	10.6	28.7 28.8	28.8	8.0 8.0	8.0	28.3 28.4	28.4	76.3 76.7	76.5	5.4 5.4	5.4	5.4	6.9 6.9	6.9		6.6 8.2	7.4	<u> </u>
21-Sep-16	Sunny	Moderate	16:07		Surface	1.0	28.5 28.5	28.5	8.0 8.0	8.0	23.6 23.5	23.6	77.9 79.9	78.9	5.5 5.6	5.6	5.5	6.0 5.6	5.8		5.9 5.4	5.7	
				10.7	Middle	5.4	28.2 28.2	28.2	7.9 8.0	7.9	24.5 24.7	24.6	78.3 76.1	77.2	5.5 5.4	5.4	0.0	8.1 7.9	8.0	7.1	6.0 4.5	5.3	6.1
					Bottom	9.7	28.2 28.2	28.2	7.8 8.0	7.9	24.6 25.1	24.9	79.8 78.4	79.1	5.6 5.5	5.6	5.6	7.7 7.5	7.6		6.6 7.9	7.3	l

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

Date	Weather	Sea	Sampling	Water	Sampling	Temp	erature (°C)	F	Η	Salini	y (ppt)	DO Satu	ration (%)	Dissolv	ved Oxygen	(mg/L)	1	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-Sep-16	Sunny	Moderate	17:39		Surface 1	.0 28.4 28.4	28.4	8.1 8.1	8.1	24.3 22.5	23.4	90.8 82.6	86.7	6.1 5.6	5.9	5.8	4.4 4.3	4.4		5.3 4.9	5.1	
				11.1	Middle 5	.6 28.2 28.2	28.2	8.1 8.1	8.1	23.3 26.1	24.7	81.6 84.3	83.0	5.6 5.7	5.6	5.8	4.4 4.4	4.4	4.5	5.4 6.5	6.0	5.6
					Bottom 10	0.1 28.2 28.2	28.2	8.1 8.1	8.1	27.9 23.9	25.9	83.7 80.4	82.1	5.7 5.5	5.6	5.6	4.6 4.5	4.6		5.8 5.3	5.6	
26-Sep-16	Sunny	Moderate	09:02		Surface 1	.0 28.9 28.8	28.8	8.0 8.0	8.0	27.6 27.6	27.6	87.2 87.2	87.2	5.7 5.8	5.8	5.8	1.7 1.8	1.8		3.8 3.8	3.8	
				11.0	Middle 5	.5 28.7 28.7	28.7	8.0 8.0	8.0	27.6 27.7	27.6	86.8 86.9	86.9	5.8 5.8	5.8	0.0	2.1 1.9	2.0	2.0	3.5 3.6	3.6	3.6
					Bottom 10	0.0 28.7 28.8	28.7	8.0 8.0	8.0	28.9 28.7	28.8	86.2 86.9	86.6	5.7 5.7	5.7	5.7	2.0 2.2	2.1		3.4 3.5	3.5	
28-Sep-16	Fine	Rough	11:13		Surface 1	.0 29.0 29.0	29.0	8.1 8.1	8.1	27.4 27.4	27.4	88.9 89.7	89.3	5.9 5.9	5.9	5.8	6.1 5.9	6.0		9.4 10.4	9.9	
				10.3	Middle 5	.2 28.9 28.9	28.9	8.1 8.1	8.1	27.7 27.7	27.7	86.5 87.0	86.8	5.7 5.8	5.7	5.0	6.2 6.3	6.3	6.6	10.5 8.7	9.6	10.0
					Bottom 9	.3 29.0 28.9	28.9	8.1 8.1	8.1	28.8 28.5	28.7	89.0 88.6	88.8	5.9 5.8	5.8	5.8	7.3 7.7	7.5		10.3 10.9	10.6	
30-Sep-16	Fine	Moderate	12:55		Surface 1	.0 28.0 28.0	28.0	8.2 8.2	8.2	26.0 25.4	25.7	89.1 88.9	89.0	6.0 6.0	6.0	6.0	4.1 4.2	4.2		6.7 7.0	6.9	
				11.5	Middle 5	.8 28.1 28.0	28.0	8.2 8.2	8.2	26.1 27.2	26.6	88.0 88.1	88.1	5.9 6.0	5.9	0.0	4.3 4.3	4.3	4.3	8.4 7.3	7.9	7.8
					Bottom 10	0.5 28.1 28.0	28.1	8.2 8.2	8.2	26.6 28.4	27.5	86.5 86.4	86.5	5.9 5.9	5.9	5.9	4.4 4.5	4.5		8.3 8.6	8.5	

#### 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

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

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	н	Salini	ty (ppt)	DO Satu	iration (%)	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-Sep-16	Fine	Moderate	07:03		Surface	1.0	28.0 28.0	28.0	7.9 7.9	7.9	26.1 26.1	26.1	76.9 77.3	77.1	5.3 5.4	5.3	5.3	6.4 6.3	6.4		7.0 8.6	7.8	
				12.3	Middle	6.2	28.0 28.0	28.0	7.9 7.9	7.9	26.2 26.2	26.2	76.5 76.2	76.4	5.3 5.3	5.3	5.5	6.5 6.5	6.5	6.6	7.1 5.7	6.4	7.7
					Bottom	11.3	27.9 28.0	27.9	7.9 7.9	7.9	28.1 26.2	27.1	75.8 75.2	75.5	5.3 5.2	5.2	5.2	6.8 6.7	6.8		9.8 7.8	8.8	
5-Sep-16	Fine	Moderate	08:53		Surface	1.0	28.2 28.2	28.2	7.9 7.9	7.9	26.5 26.5	26.5	80.5 81.1	80.8	5.5 5.6	5.6	5.0	5.3 5.1	5.2		6.9 7.2	7.1	
				10.9	Middle	5.5	28.1 28.1	28.1	7.9 7.9	7.9	26.9 27.0	26.9	80.4 79.8	80.1	5.5 5.5	5.5	5.6	5.4 5.4	5.4	5.4	6.8 6.6	6.7	6.6
					Bottom	9.9	28.1 28.1	28.1	7.9 7.9	7.9	27.5 27.4	27.4	78.6 79.4	79.0	5.4 5.5	5.4	5.4	5.5 5.5	5.5		5.7 6.0	5.9	
7-Sep-16	Rainy	Moderate	10:39		Surface	1.0	27.9 27.9	27.9	7.8 7.7	7.7	26.5 26.6	26.6	73.9 73.5	73.7	5.3 5.3	5.3		9.8 9.3	9.6		10.5 10.5	10.5	
				10.2	Middle	5.1	27.9 27.8	27.9	7.7	7.7	27.9 27.8	27.8	72.2 72.4	72.3	5.2 5.2	5.2	5.3	9.5 10.0	9.8	10.3	10.3	10.4	10.6
					Bottom	9.2	27.8 27.8	27.8	7.7 7.7	7.7	28.0 28.0	28.0	73.7 73.7	73.7	5.3 5.3	5.3	5.3	11.3 11.5	11.4		10.6 11.4	11.0	
9-Sep-16 ^	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	=	-	-	<u>-</u>
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
12-Sep-16	Sunny	Moderate	17:01		Surface	1.0	28.8 28.9	28.9	8.1 8.1	8.1	21.1 21.0	21.0	91.7 91.1	91.4	6.3 6.5	6.4		5.6 5.8	5.7		5.1 5.0	5.1	
				10.6	Middle	5.3	28.3 27.8	28.1	8.0 7.9	8.0	25.0 25.5	25.2	82.1 83.5	82.8	5.8 5.8	5.8	6.1	5.6 5.5	5.6	6.8	6.1 6.2	6.2	5.6
					Bottom	9.6	27.8 28.4	28.1	7.9 8.0	7.9	30.7 29.8	30.3	76.1 74.0	75.1	5.4 5.3	5.3	5.3	9.3 9.0	9.2		5.4 5.7	5.6	
14-Sep-16	Sunny	Moderate	17:55		Surface	1.0	28.9 28.8	28.9	8.3 8.3	8.3	19.3 16.7	18.0	98.1 92.7	95.4	6.8 6.5	6.7		4.5 4.4	4.5		6.1 6.0	6.1	
				11.2	Middle	5.6	28.1 28.2	28.2	8.2 8.2	8.2	21.6 18.5	20.0	87.5 80.4	84.0	5.9 5.6	5.7	6.2	4.7 4.6	4.7	4.7	7.1 7.2	7.2	6.6
					Bottom	10.2	28.0 27.9	28.0	8.1 8.2	8.2	26.6 28.2	27.4	75.3 78.2	76.8	5.3 5.4	5.3	5.3	4.7 4.8	4.8		6.4 6.7	6.6	
16-Sep-16	Fine	Moderate	19:06		Surface	1.0	28.2 28.2	28.2	8.2 8.2	8.2	21.5 20.8	21.2	78.5 81.4	80.0	5.6 5.8	5.7	5.6	6.8 6.6	6.7		6.6 8.3	7.5	
				10.3	Middle	5.2	27.7 27.7	27.7	8.1 8.1	8.1	23.8 24.7	24.2	77.4 78.6	78.0	5.5 5.5	5.5	5.0	8.5 8.3	8.4	7.6	8.0 10.4	9.2	9.0
					Bottom	9.3	27.7 27.8	27.8	8.1 8.1	8.1	25.5 23.9	24.7	72.7 73.0	72.9	5.2 5.2	5.2	5.2	7.5 7.7	7.6		11.2 9.6	10.4	
19-Sep-16	Sunny	Moderate	08:20		Surface	1.0	28.3 28.3	28.3	8.0 8.0	8.0	29.4 29.3	29.4	79.4 80.2	79.8	5.6 5.7	5.7	5.7	22.7 22.6	22.7		8.8 10.3	9.6	
				11.8	Middle	5.9	28.3 28.3	28.3	8.0 8.0	8.0	29.5 29.5	29.5	79.5 78.8	79.2	5.6 5.6	5.6	5.7	22.8 22.9	22.9	22.9	13.2 13.8	13.5	12.8
					Bottom	10.8	28.3 28.3	28.3	8.0 8.0	8.0	29.5 29.4	29.5	78.7 78.3	78.5	5.6 5.6	5.6	5.6	23.1 23.1	23.1		15.2 15.2	15.2	
21-Sep-16	Sunny	Moderate	10:24		Surface	1.0	28.2 28.2	28.2	7.9 7.9	7.9	29.8 29.9	29.9	79.9 78.3	79.1	5.5 5.4	5.4	5.4	8.9 9.0	9.0		5.7 5.3	5.5	
				10.6	Middle	5.3	28.1 28.1	28.1	7.9 7.9	7.9	30.4 30.5	30.4	78.0 77.7	77.9	5.3 5.3	5.3	5.4	9.2 8.8	9.0	8.9	6.9 7.0	7.0	6.9
					Bottom	9.6	28.1 28.1	28.1	7.9 7.8	7.9	30.4 30.5	30.5	78.1 78.7	78.4	5.3 5.4	5.4	5.4	8.8 8.5	8.7		7.8 8.3	8.1	1

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

Date	Weather	Sea	Sampling	Water	Samplin	ng	Tempera	ature (°C)	F	н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(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-Sep-16	Sunny	Moderate	12:46		Surface	1.0	28.3 28.3	28.3	8.2 8.2	8.2	24.1 23.6	23.8	81.7 82.6	82.2	5.6 5.6	5.6	5.6	5.2 5.3	5.3		10.7 10.9	10.8	
				11.0	Middle	5.5	28.3 28.3	28.3	8.1 8.2	8.2	24.4 24.0	24.2	81.6 81.8	81.7	5.6 5.6	5.6	5.0	5.2 5.4	5.3	5.4	10.4 10.8	10.6	10.6
					Bottom	10.0	28.3 28.3	28.3	8.2 8.1	8.2	24.0 24.7	24.4	81.7 81.2	81.5	5.6 5.5	5.5	5.5	5.5 5.5	5.5		10.5 10.3	10.4	
26-Sep-16	Sunny	Moderate	17:43		Surface	1.0	28.9 29.1	29.0	8.0 8.1	8.0	28.9 27.6	28.3	86.3 86.2	86.3	5.7 5.7	5.7	5.7	4.9 4.8	4.9		5.0 5.2	5.1	
				11.2	Middle	5.6	28.8 28.8	28.8	8.0 8.0	8.0	29.4 29.6	29.5	85.5 85.8	85.7	5.6 5.6	5.6	0.7	5.1 5.2	5.2	5.2	5.4 4.8	5.1	5.4
					Bottom	10.2	28.8 28.8	28.8	8.0 8.0	8.0	29.6 29.7	29.7	84.3 85.6	85.0	5.5 5.6	5.6	5.6	5.4 5.3	5.4		6.4 5.7	6.1	
28-Sep-16	Fine	Rough	18:02		Surface	1.0	28.9 28.9	28.9	8.2 8.2	8.2	26.9 25.6	26.2	89.9 88.2	89.1	6.0 5.9	5.9	5.8	4.7 5.0	4.9		5.7 4.8	5.3	
				10.8	Middle	5.4	28.9 28.9	28.9	8.2 8.2	8.2	28.6 27.0	27.8	87.2 86.4	86.8	5.7 5.7	5.7	5.0	5.9 6.2	6.1	5.8	6.7 6.4	6.6	5.9
					Bottom	9.8	28.9 28.9	28.9	8.2 8.2	8.2	28.7 27.4	28.0	88.5 88.8	88.7	5.8 5.9	5.9	5.9	6.3 6.6	6.5		5.0 6.3	5.7	
30-Sep-16	Cloudy	Moderate	06:14		Surface	1.0	28.0 28.0	28.0	8.1 8.1	8.1	29.3 29.3	29.3	85.4 85.7	85.6	5.7 5.7	5.7	5.7	6.5 6.4	6.5		8.3 9.3	8.8	
				11.6	Middle	5.8	28.0 28.0	28.0	8.1 8.1	8.1	29.4 29.4	29.4	85.8 85.5	85.7	5.7 5.7	5.7	5.7	6.6 6.6	6.6	6.6	9.1 9.2	9.2	9.9
					Bottom	10.6	28.0 28.0	28.0	8.1 8.1	8.1	29.4 29.4	29.4	85.4 85.4	85.4	5.7 5.7	5.7	5.7	6.7 6.8	6.8		10.8 12.5	11.7	

#### 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.

^ The scheduled water quality monitoring during mid-flood tide on 9 September 2016 was cancelled due to thunderstorm Signal hoisted 3 hours before the scheduled monitoring time.

Remarks:

\* DA: Depth-Averaged

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

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	H	Salini	ity (ppt)	DO Satu	ration (%)	Dissolv	ved Oxygen	(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*
2-Sep-16	Fine	Moderate	13:13		Surface	1.0	28.4 28.4	28.4	8.3 8.3	8.3	26.0 26.0	26.0	77.3 77.2	77.3	5.3 5.3	5.3		7.9 7.8	7.9		6.1 7.9	7.0	
				6.2	Middle	3.1	28.1 28.0	28.1	8.3 8.3	8.3	26.7 26.9	26.8	76.9 76.5	76.7	5.2 5.2	5.2	5.3	7.8	7.8	7.8	11.6 10.2	10.9	9.3
					Bottom	5.2	28.1 27.9	28.0	8.3 8.3	8.3	26.9 27.3	27.1	75.5 75.4	75.5	5.1 5.1	5.1	5.1	7.8	7.8		9.2	10.0	
5-Sep-16	Fine	Moderate	14:29		Surface	1.0	28.2	28.2	8.1 8.0	8.1	25.3 25.5	25.4	83.2 83.8	83.5	5.6 5.7	5.7		7.7	7.7		5.6	5.6	
				6.3	Middle	3.2	28.1 28.0	28.1	8.1 8.0	8.0	26.4 26.7	26.5	81.9 83.1	82.5	5.6 5.7	5.6	5.7	7.6	7.6	7.7	6.8 6.5	6.7	6.1
					Bottom	5.3	28.0 27.8	27.9	8.0 8.0	8.0	27.8 28.0	27.9	80.6 82.9	81.8	5.5 5.7	5.6	5.6	7.8	7.8		6.9 5.2	6.1	
7-Sep-16	Cloudy	Moderate	15:46		Surface	1.0	28.0 27.9	28.0	8.2 8.2	8.2	25.5 25.7	25.6	88.3 80.6	84.5	6.0 5.5	5.8		7.2	7.5		6.4 6.9	6.7	
				6.1	Middle	3.1	27.9 27.9	27.9	8.2 8.2	8.2	26.0 26.0	26.0	82.8 78.4	80.6	5.7 5.4	5.5	5.7	7.4 7.3	7.4	7.4	6.9 7.5	7.2	7.1
					Bottom	5.1	27.9 27.8	27.9	8.2 8.2	8.2	26.5 26.7	26.6	78.2	80.4	5.4 5.7	5.5	5.5	7.1	7.2		7.4	7.5	
9-Sep-16	Fine	Moderate	17:38		Surface	1.0	28.4 28.4	28.4	8.1 8.1	8.1	19.8 19.9	19.9	75.0 73.7	74.4	5.1 5.1	5.1		6.5 6.5	6.5		6.5 6.4	6.5	
				6.2	Middle	3.1	28.2	28.1	8.1 8.0	8.1	21.5	21.6	73.1 73.4	73.3	5.1 5.1	5.1	5.1	6.2 6.2	6.2	6.4	6.1 6.2	6.2	6.4
					Bottom	5.2	28.2 27.9	28.0	8.0 8.0	8.0	25.9 26.3	26.1	73.7 70.0	71.9	5.0 4.8	4.9	4.9	6.5 6.4	6.5		6.6 6.5	6.6	
12-Sep-16	Sunny	Moderate	09:47		Surface	1.0	28.5 28.6	28.6	8.2 8.2	8.2	19.9 19.8	19.8	84.8 81.6	83.2	5.8 5.8	5.8	5.7	7.7 7.5	7.6		3.8 3.4	3.6	
				6.1	Middle	3.1	28.1 28.2	28.2	8.2 8.2	8.2	21.4 22.1	21.7	76.9 82.7	79.8	5.3 5.8	5.5	5.7	7.5 7.6	7.6	7.6	2.9 3.4	3.2	3.8
					Bottom	5.1	27.8 28.3	28.1	8.1 8.1	8.1	28.9 28.7	28.8	72.7 80.4	76.6	5.1 5.7	5.4	5.4	7.5 7.5	7.5		4.6 4.5	4.6	
14-Sep-16	Sunny	Moderate	11:22		Surface	1.0	28.8 28.7	28.7	8.3 8.3	8.3	24.6 24.3	24.4	77.0 81.6	79.3	5.2 5.5	5.3	5.2	5.4 5.6	5.5		4.8 4.4	4.6	
				6.2	Middle	3.1	28.4 28.5	28.4	8.3 8.3	8.3	25.6 25.6	25.6	75.3 75.1	75.2	5.0 5.1	5.1	5.2	5.5 5.5	5.5	5.5	3.9 4.4	4.2	4.8
					Bottom	5.2	28.3 28.4	28.4	8.2 8.3	8.3	26.6 26.9	26.7	73.9 72.4	73.2	5.0 4.9	4.9	4.9	5.5 5.6	5.6		5.6 5.5	5.6	
16-Sep-16	Sunny	Moderate	12:42		Surface	1.0	28.6 28.4	28.5	8.4 8.4	8.4	24.7 24.8	24.7	78.4 81.5	80.0	5.3 5.5	5.4	5.3	5.1 5.2	5.2		5.3 5.8	5.6	
				6.3	Middle	3.2	27.8 27.9	27.9	8.4 8.4	8.4	26.8 26.9	26.8	77.1 76.5	76.8	5.2 5.2	5.2	0.0	5.4 5.5	5.5	5.4	5.6 8.4	7.0	6.1
					Bottom	5.3	27.9 27.4	27.7	8.4 8.3	8.4	28.1 28.7	28.4	74.0 71.7	72.9	5.0 4.9	4.9	4.9	5.4 5.5	5.5		6.0 5.3	5.7	
19-Sep-16	Sunny	Moderate	13:42		Surface	1.0	28.7 28.7	28.7	8.3 8.3	8.3	26.5 26.6	26.5	76.6 67.5	72.1	5.9 5.3	5.6	5.6	5.9 6.0	6.0		9.4 8.8	9.1	
				7.1	Middle	3.6	28.3 28.3	28.3	8.3 8.3	8.3	27.3 27.3	27.3	67.1 72.9	70.0	5.3 5.7	5.5		6.0 5.9	6.0	6.0	9.2 9.4	9.3	9.4
					Bottom	6.1	28.2 28.2	28.2	8.3 8.3	8.3	27.7 27.7	27.7	67.0 70.3	68.7	5.3 5.5	5.4	5.4	6.0 6.1	6.1		9.5 9.9	9.7	
21-Sep-16	Sunny	Moderate	15:50		Surface	1.0	28.5 28.6	28.5	8.3 8.3	8.3	27.2 27.1	27.1	91.0 82.8	86.9	6.1 5.5	5.8	5.8	8.5 8.6	8.6		11.0 11.1	11.1	
				6.1	Middle	3.1	28.5 28.5	28.5	8.3 8.3	8.3	27.4 27.4	27.4	82.1 86.7	84.4	5.5 5.8	5.7		8.4 8.5	8.5	8.5	15.0 16.1	15.6	15.5
					Bottom	5.1	28.5 28.5	28.5	8.3 8.3	8.3	27.6 27.5	27.5	84.6 81.5	83.1	5.7 5.5	5.6	5.6	8.2 8.3	8.3		20.2 19.3	19.8	

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

Date	Weather	Sea	Sampling	Water	Samplin	ng	Tempera	ature (°C)	p	Η	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ved Oxygen	(mg/L)	Т	urbidity(NTL	J)	Suspe	ended 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-Sep-16	Sunny	Moderate	17:46		Surface	1.0	28.4 28.4	28.4	8.4 8.4	8.4	27.5 27.5	27.5	83.9 89.9	86.9	5.6 6.0	5.8	5.7	6.9 7.0	7.0		9.2 9.4	9.3	
				6.3	Middle	3.2	28.4 28.3	28.4	8.4 8.4	8.4	27.7 27.7	27.7	82.5 85.4	84.0	5.5 5.7	5.6	5.7	7.0 7.2	7.1	7.0	11.3 10.3	10.8	10.5
					Bottom	5.3	28.4 28.3	28.3	8.4 8.4	8.4	27.7 27.9	27.8	82.3 84.2	83.3	5.5 5.6	5.6	5.6	6.9 7.1	7.0		12.2 10.7	11.5	
26-Sep-16	Sunny	Moderate	09:42		Surface	1.0	28.6 28.7	28.7	8.4 8.4	8.4	26.5 26.4	26.5	80.2 80.0	80.1	5.4 5.4	5.4	5.4	3.7 3.9	3.8		4.1 4.8	4.5	
				6.4	Middle	3.2	28.5 28.6	28.5	8.3 8.3	8.3	27.9 28.1	28.0	78.9 79.8	79.4	5.2 5.3	5.3	5.4	4.5 4.4	4.5	4.2	5.7 6.0	5.9	5.6
					Bottom	5.4	28.6 28.5	28.5	8.3 8.3	8.3	28.5 28.6	28.6	80.5 79.5	80.0	5.3 5.3	5.3	5.3	4.1 4.3	4.2		5.5 7.1	6.3	
28-Sep-16	Fine	Rough	11:29		Surface	1.0	28.9 29.0	28.9	8.3 8.3	8.3	27.2 27.2	27.2	86.2 81.1	83.7	5.7 5.4	5.5	5.5	7.8 8.1	8.0		10.5 10.3	10.4	
				6.2	Middle	3.1	28.9 28.9	28.9	8.3 8.3	8.3	27.7 27.2	27.5	81.6 80.7	81.2	5.4 5.4	5.4	5.5	8.1 8.1	8.1	8.1	11.3 9.0	10.2	12.2
					Bottom	5.2	28.8 28.9	28.8	8.3 8.3	8.3	28.3 28.2	28.3	81.4 79.8	80.6	5.4 5.3	5.3	5.3	8.1 8.0	8.1		15.0 16.9	16.0	
30-Sep-16	Fine	Moderate	12:11		Surface	1.0	28.0 28.0	28.0	8.4 8.4	8.4	26.8 26.7	26.7	85.3 85.8	85.6	5.8 5.8	5.8	5.8	4.6 4.5	4.6		7.3 7.5	7.4	
				6.1	Middle	3.1	28.1 28.1	28.1	8.4 8.4	8.4	26.8 26.6	26.7	84.9 85.9	85.4	5.7 5.8	5.8	5.0	4.5 4.4	4.5	4.5	7.1 8.1	7.6	7.6
					Bottom	5.1	28.2 28.1	28.1	8.3 8.3	8.3	28.0 28.3	28.2	87.8 85.8	86.8	5.9 5.7	5.8	5.8	4.5 4.5	4.5		7.1 8.7	7.9	

#### 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

## 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	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-Sep-16	Fine	Moderate	07:09		Surface	1.0	28.1 28.1	28.1	8.2 8.3	8.3	25.4 25.6	25.5	86.9 88.9	87.9	5.9 6.1	6.0	6.0	5.6 5.8	5.7		6.5 7.9	7.2	
				6.2	Middle	3.1	28.1 28.1	28.1	8.2 8.3	8.3	25.7 25.7	25.7	86.4 87.6	87.0	5.9 6.0	6.0	0.0	6.3 6.5	6.4	6.2	8.5 7.7	8.1	7.5
					Bottom	5.2	28.1 28.0	28.1	8.2 8.3	8.3	25.8 25.9	25.9	86.4 87.3	86.9	5.9 6.0	5.9	5.9	6.2 6.6	6.4		7.4 7.0	7.2	
5-Sep-16	Fine	Moderate	09:09		Surface	1.0	28.2 28.2	28.2	8.2 8.3	8.3	26.3 26.4	26.3	83.1 88.2	85.7	5.7 6.0	5.8		9.2 9.2	9.2		4.6 3.5	4.1	
				6.3	Middle	3.2	28.1 28.1	28.1	8.2 8.2	8.2	26.7 26.7	26.7	82.6 85.8	84.2	5.6 5.8	5.7	5.8	9.6 9.3	9.5	9.3	4.6	4.7	4.7
					Bottom	5.3	28.2 28.1	28.2	8.2 8.3	8.3	26.6 26.8	26.7	82.2 84.4	83.3	5.6 5.7	5.7	5.7	9.2 9.2	9.2		5.2	5.4	
7-Sep-16	Rainy	Moderate	10:33		Surface	1.0	28.0 28.0	28.0	8.2 8.2	8.2	24.8 24.8	24.8	84.0 91.7	87.9	5.8 6.3	6.0		6.6 6.5	6.6		8.2 9.1	8.7	
				6.2	Middle	3.1	27.9 28.0	28.0	8.2 8.2	8.2	25.6 25.6	25.6	86.5 82.1	84.3	5.9 5.6	5.8	5.9	9.3 9.3	9.3	8.4	8.8 8.8	8.8	8.5
					Bottom	5.2	27.9 28.0	28.0	8.2 8.2	8.2	25.7 25.7	25.7	84.8 81.7	83.3	5.8 5.6	5.7	5.7	9.2 9.1	9.2		8.0 7.8	7.9	
9-Sep-16 ^	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<u>-</u>
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
12-Sep-16	Sunny	Moderate	16:40		Surface	1.0	29.7 29.2	29.5	8.4 8.4	8.4	18.3 18.6	18.5	82.5 82.9	82.7	5.6 5.7	5.6	5.0	3.2 3.1	3.2		2.2 2.7	2.5	
				6.3	Middle	3.2	28.2 28.2	28.2	8.3 8.3	8.3	23.7 23.0	23.3	82.6 80.9	81.8	5.6 5.6	5.6	5.6	3.9 3.8	3.9	3.6	2.1 2.1	2.1	2.4
					Bottom	5.3	28.1 28.0	28.1	8.3 8.3	8.3	26.0 26.2	26.1	74.6 73.7	74.2	5.1 5.1	5.1	5.1	3.8 3.8	3.8		2.3 3.0	2.7	
14-Sep-16	Sunny	Moderate	17:45		Surface	1.0	28.9 29.0	29.0	8.5 8.5	8.5	21.9 21.8	21.8	97.6 97.5	97.6	6.6 6.7	6.6	0.5	8.6 8.5	8.6		3.2 3.7	3.5	
				6.2	Middle	3.1	28.7 28.6	28.7	8.5 8.5	8.5	23.0 22.6	22.8	95.4 91.8	93.6	6.5 6.3	6.4	6.5	8.8 8.6	8.7	8.7	3.1 3.1	3.1	3.4
					Bottom	5.2	28.4 28.6	28.5	8.5 8.5	8.5	24.1 25.0	24.6	88.9 92.8	90.9	6.1 6.3	6.2	6.2	8.8 8.7	8.8		3.3 4.0	3.7	
16-Sep-16	Fine	Moderate	18:39		Surface	1.0	28.6 28.5	28.6	8.4 8.4	8.4	24.9 25.0	25.0	80.3 80.3	80.3	5.4 5.4	5.4	5.3	5.9 5.9	5.9		8.1 5.8	7.0	
				6.4	Middle	3.2	28.0 27.7	27.9	8.4 8.4	8.4	26.5 27.2	26.9	78.0 75.1	76.6	5.2 5.1	5.2	5.5	6.0 5.8	5.9	5.9	8.6 7.7	8.2	7.5
					Bottom	5.4	27.4 27.8	27.6	8.3 8.3	8.3	28.8 28.2	28.5	69.7 71.6	70.7	4.7 4.8	4.8	4.8	5.9 5.9	5.9		6.7 7.6	7.2	
19-Sep-16	Sunny	Moderate	08:33		Surface	1.0	28.3 28.4	28.3	8.3 8.3	8.3	27.6 27.5	27.6	67.3 72.6	70.0	5.3 5.7	5.5	5.5	15.8 15.9	15.9		17.0 17.3	17.2	
				7.1	Middle	3.6	28.3 28.3	28.3	8.3 8.3	8.3	27.6 27.5	27.6	67.2 69.4	68.3	5.3 5.4	5.4	5.5	15.9 16.0	16.0	16.0	17.1 16.3	16.7	17.2
					Bottom	6.1	28.3 28.3	28.3	8.3 8.3	8.3	27.4 27.6	27.5	68.3 66.5	67.4	5.4 5.2	5.3	5.3	16.0 16.0	16.0		17.5 17.8	17.7	
21-Sep-16	Sunny	Moderate	10:23		Surface	1.0	28.3 28.3	28.3	8.3 8.3	8.3	27.2 27.1	27.2	77.6 76.5	77.1	5.2 5.1	5.2	5.2	7.2 7.4	7.3		9.4 10.1	9.8	
				6.1	Middle	3.1	28.2 28.2	28.2	8.2 8.3	8.3	27.6 27.6	27.6	76.0 76.3	76.2	5.1 5.1	5.1	5.2	7.6 7.9	7.8	7.6	11.3 10.2	10.8	10.6
					Bottom	5.1	28.2	28.2	8.3 8.2	8.2	27.6	27.6	74.9 75.2	75.1	5.0	5.0	5.0	7.6 7.5	7.6		10.7	11.1	

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

Date	Weather	Sea	Sampling	Water	Sampli	ing	Temper	ature (°C)	p	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Т	urbidity(NTl	J)	Susper	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-Sep-16	Sunny	Moderate	12:58		Surface	1.0	28.4 28.4	28.4	8.3 8.3	8.3	27.3 27.3	27.3	85.8 81.2	83.5	5.7 5.4	5.6	5.6	5.1 5.3	5.2		7.0 6.9	7.0	
				6.3	Middle	3.2	28.2 28.2	28.2	8.3 8.3	8.3	27.8 27.7	27.7	80.8 82.5	81.7	5.4 5.5	5.5	5.0	5.7 5.6	5.7	5.6	6.2 5.4	5.8	6.6
					Bottom	5.3	28.2 28.2	28.2	8.3 8.3	8.3	27.8 27.8	27.8	82.1 80.1	81.1	5.5 5.4	5.4	5.4	5.6 5.9	5.8		7.7 6.5	7.1	
26-Sep-16	Sunny	Moderate	16:25		Surface	1.0	29.2 29.2	29.2	8.4 8.4	8.4	26.1 26.0	26.1	88.7 89.0	88.9	5.9 5.9	5.9	5.9	3.4 3.3	3.4		4.3 4.3	4.3	
				6.2	Middle	3.1	29.0 29.0	29.0	8.4 8.4	8.4	26.8 27.0	26.9	87.5 86.8	87.2	5.8 5.8	5.8	0.0	4.7 4.5	4.6	4.6	4.4 2.7	3.6	4.0
					Bottom	5.2	29.0 29.0	29.0	8.4 8.4	8.4	27.5 27.7	27.6	92.1 88.4	90.3	6.1 5.8	6.0	6.0	5.6 6.2	5.9		3.2 5.0	4.1	
28-Sep-16	Fine	Rough	17:35		Surface	1.0	28.9 28.9	28.9	8.4 8.4	8.4	25.8 25.8	25.8	89.3 88.3	88.8	6.0 5.9	5.9	5.9	7.0 7.1	7.1		12.2 11.2	11.7	
				6.2	Middle	3.1	28.9 28.9	28.9	8.4 8.4	8.4	25.8 25.8	25.8	88.0 88.3	88.2	5.9 5.9	5.9	5.5	7.2 7.4	7.3	7.2	14.0 16.2	15.1	14.3
					Bottom	5.2	28.9 28.9	28.9	8.4 8.4	8.4	26.4 26.3	26.3	87.3 87.0	87.2	5.8 5.8	5.8	5.8	7.3 7.2	7.3		16.9 15.0	16.0	
30-Sep-16	Cloudy	Moderate	06:28		Surface	1.0	28.0 28.0	28.0	8.4 8.4	8.4	26.6 26.5	26.5	84.5 89.0	86.8	5.6 5.9	5.8	5.8	8.4 8.1	8.3		6.4 5.1	5.8	
				6.3	Middle	3.2	28.2 28.2	28.2	8.3 8.3	8.3	27.3 27.3	27.3	84.5 83.1	83.8	5.7 5.6	5.7	5.0	8.2 8.2	8.2	8.3	5.8 8.3	7.1	7.6
					Bottom	5.3	28.2 28.1	28.2	8.3 8.3	8.3	28.0 28.2	28.1	85.0 83.3	84.2	5.7 5.6	5.6	5.6	8.2 8.5	8.4		9.5 10.1	9.8	

#### 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.

^ The scheduled water quality monitoring during mid-flood tide on 9 September 2016 was cancelled due to thunderstorm Signal hoisted 3 hours before the scheduled monitoring time.

Remarks:

\* DA: Depth-Averaged

## Water Quality Monitoring Results at IS5 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	ĥ	ЪН	Salini	ity (ppt)	DO Satu	ration (%)	Dissolv	/ed Oxygen	(mg/L)	Т	urbidity(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-Sep-16	Fine	Moderate	12:26		Surface	1.0	28.2 28.2	28.2	8.5 8.5	8.5	25.3 25.0	25.2	83.5 83.7	83.6	5.7 5.7	5.7		16.2 16.7	16.5		21.2 23.0	22.1	
				8.4	Middle	4.2	28.2 28.2	28.2	8.5 8.5	8.5	25.0 25.3	25.2	83.1 83.2	83.2	5.7 5.7	5.7	5.7	16.5 16.8	16.7	16.5	21.5 24.4	23.0	23.6
					Bottom	7.4	28.2	28.2	8.5 8.5	8.5	25.3 25.0	25.1	83.2 83.1	83.2	5.7 5.7	5.7	5.7	16.4 16.2	16.3		26.0 25.3	25.7	
5-Sep-16	Fine	Moderate	13:41		Surface	1.0	28.4 28.4	28.4	7.9 8.0	8.0	25.9 25.9	25.9	87.4 86.4	86.9	5.9 5.9	5.9		9.6 9.5	9.6		8.4 9.1	8.8	
				8.4	Middle	4.2	28.3 28.3	28.3	8.0 7.9	7.9	26.3 26.3	26.3	86.4 86.6	86.5	5.9 5.9	5.9	5.9	9.6 9.6	9.6	9.6	9.9 9.4	9.7	9.1
					Bottom	7.4	28.3 28.3	28.3	7.9 7.9 7.9	7.9	26.4 26.3	26.3	86.4 85.9	86.2	5.9 5.8	5.9	5.9	9.5 9.7	9.6		9.4 8.7 9.1	8.9	
7-Sep-16	Cloudy	Moderate	14:51		Surface	1.0	28.0 28.0	28.0	8.0 7.9	7.9	26.3 25.0 24.5	24.7	81.2 83.8	82.5	5.6 5.8	5.7		6.9 6.9	6.9		8.2 9.0	8.6	
				8.3	Middle	4.2	28.0 28.0 28.0	28.0	7.9 7.9 7.9	7.9	24.5 25.4 25.5	25.5	81.6 79.8	80.7	5.6 5.5	5.6	5.7	6.8 6.8	6.8	6.9	8.0 7.4	7.7	8.3
					Bottom	7.3	28.0 28.0 28.0	28.0	7.9 7.8	7.9	25.9 25.8	25.9	79.3	80.3	5.5 5.6	5.5	5.5	6.9 6.8	6.9		8.3 8.6	8.5	
9-Sep-16	Fine	Moderate	16:51		Surface	1.0	28.5 28.5	28.5	7.8 7.8 7.8	7.8	19.6 19.8	19.7	79.9	78.6	5.8 5.4 5.3	5.3		5.3 5.5	5.4		3.8 3.0	3.4	
				8.6	Middle	4.3	28.3 28.4	28.4	7.8 7.8 7.8	7.8	22.4 23.4	22.9	75.9	76.7	5.3 5.2 5.4	5.3	5.3	5.8 5.8	5.8	5.7	3.9 2.8	3.4	3.3
					Bottom	7.6	28.0 28.2	28.1	7.8	7.8	27.8	28.0	73.3	72.9	5.0 5.0	5.0	5.0	5.8 5.8	5.8		3.9	3.2	
12-Sep-16	Sunny	Moderate	10:36		Surface	1.0	28.7 28.6	28.7	8.3 8.3	8.3	21.8 21.3	21.6	75.3	77.7	5.2 5.5	5.3		7.7	7.7		4.1	4.1	
				8.1	Middle	4.1	27.9 27.9	27.9	8.2 8.2	8.2	29.3 29.5	29.4	75.2	74.9	5.3 5.1	5.2	5.3	9.8 9.5	9.7	9.0	4.7	4.0	4.0
					Bottom	7.1	28.1 27.9	28.0	8.2 8.1	8.2	29.9 30.2	30.0	71.8	73.2	4.9 5.1	5.0	5.0	9.5 9.5	9.5		4.5 3.1	3.8	
14-Sep-16	Sunny	Moderate	12:12		Surface	1.0	29.0 29.1	29.0	8.4 8.4	8.4	21.6 21.5	21.6	83.7 80.0	81.9	5.6 5.5	5.5		8.0 7.7	7.9		5.3 5.1	5.2	
				8.1	Middle	4.1	28.6 28.6	28.6	8.4 8.3	8.4	25.4 25.3	25.3	79.6 79.3	79.5	5.4 5.3	5.4	5.5	8.6 8.8	8.7	8.5	5.7 4.3	5.0	5.0
					Bottom	7.1	28.7 28.4	28.5	8.4 8.3	8.3	27.0 27.1	27.1	78.0	76.1	5.3 5.0	5.1	5.1	8.8 8.8	8.8		5.5	4.8	
16-Sep-16	Sunny	Moderate	13:33		Surface	1.0	28.8 28.7	28.7	8.4 8.4	8.4	24.6 24.8	24.7	78.7	78.4	5.2 5.2	5.2		10.2 10.2	10.2		4.3 3.7	4.0	
				8.3	Middle	4.2	27.9 28.0	27.9	8.4 8.4	8.4	26.8 26.6	26.7	74.6	75.4	5.0 5.1	5.1	5.2	10.2	10.2	10.2	3.8 4.9	4.4	4.3
					Bottom	7.3	28.3 27.6	28.0	8.4 8.4	8.4	27.4 28.0	27.7	72.6	72.2	4.9	4.9	4.9	10.1	10.1		4.8	4.5	
19-Sep-16	Sunny	Moderate	13:02		Surface	1.0	28.9 28.9	28.9	8.6 8.5	8.6	25.0 25.2	25.1	69.2 69.0	69.1	5.4 5.4	5.4		9.0 9.0	9.0		11.6 11.3	11.5	
				9.0	Middle	4.5	28.9 28.7	28.8	8.6 8.5	8.6	24.9 25.4	25.2	69.1 68.8	69.0	5.4 5.4	5.4	5.4	9.2 9.1	9.2	9.2	12.3 11.8	12.1	11.8
					Bottom	8.0	28.5 28.6	28.6	8.6 8.6	8.6	25.3 25.5	25.4	69.1 68.8	69.0	5.4 5.4	5.4	5.4	9.2 9.3	9.3		12.8 11.0	11.9	
21-Sep-16	Sunny	Moderate	14:40		Surface	1.0	28.6 28.6	28.6	8.5 8.5	8.5	25.2 25.0	25.1	75.6 76.9	76.3	5.1 5.2	5.1	<b>F</b> 4	7.3 7.7	7.5		7.2 7.2	7.2	
				8.4	Middle	4.2	28.5 28.5	28.5	8.5 8.5	8.5	24.9 25.2	25.0	75.8 75.5	75.7	5.1 5.1	5.1	5.1	7.5	7.7	7.6	7.4	7.6	7.8
					Bottom	7.4	28.4 28.6	28.5	8.5 8.5	8.5	24.9 25.1	25.0	75.7	75.6	5.1 5.1	5.1	5.1	7.4	7.6		8.1 9.3	8.7	

## Water Quality Monitoring Results at IS5 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampl	ing	Tempera	ature (°C)	F	Η	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	T	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-Sep-16	Sunny	Moderate	16:59		Surface	1.0	28.6 28.6	28.6	8.5 8.5	8.5	26.5 26.3	26.4	87.1 87.5	87.3	5.8 5.9	5.9	5.9	5.9 5.8	5.9		7.1 7.7	7.4	
				8.3	Middle	4.2	28.6 28.5	28.6	8.5 8.5	8.5	26.2 26.5	26.3	87.1 86.9	87.0	5.8 5.8	5.8	5.9	6.4 6.7	6.6	6.4	6.9 7.8	7.4	7.8
					Bottom	7.3	28.4 28.6	28.5	8.5 8.5	8.5	26.2 26.4	26.3	86.7 86.5	86.6	5.8 5.8	5.8	5.8	6.5 6.6	6.6		8.2 8.9	8.6	
26-Sep-16	Sunny	Moderate	10:37		Surface	1.0	28.8 28.8	28.8	8.4 8.4	8.4	28.4 28.5	28.4	88.9 87.9	88.4	5.9 5.8	5.8	5.8	3.7 3.5	3.6		2.9 3.7	3.3	
				8.5	Middle	4.3	28.7 28.7	28.7	8.4 8.4	8.4	28.5 28.6	28.6	87.5 88.9	88.2	5.8 5.9	5.8	0.0	3.7 3.4	3.6	3.6	4.5 3.3	3.9	3.4
					Bottom	7.5	28.7 28.6	28.7	8.4 8.4	8.4	28.5 28.8	28.7	88.4 90.4	89.4	5.8 6.0	5.9	5.9	3.7 3.6	3.7		2.8 3.2	3.0	
28-Sep-16	Fine	Rough	12:17		Surface	1.0	29.0 29.0	29.0	8.4 8.4	8.4	26.9 26.9	26.9	88.7 86.9	87.8	5.9 5.8	5.8	5.8	14.0 14.3	14.2		12.1 12.1	12.1	
				8.3	Middle	4.2	28.9 28.9	28.9	8.4 8.4	8.4	27.1 27.1	27.1	87.4 86.6	87.0	5.8 5.7	5.8	5.0	14.5 14.2	14.4	14.2	15.2 16.1	15.7	14.7
					Bottom	7.3	28.9 28.9	28.9	8.4 8.4	8.4	27.1 27.1	27.1	86.4 87.2	86.8	5.7 5.8	5.8	5.8	14.1 14.1	14.1		17.2 15.1	16.2	
30-Sep-16	Fine	Moderate	11:26		Surface	1.0	27.7 27.7	27.7	8.4 8.4	8.4	26.4 26.4	26.4	86.0 85.9	86.0	5.9 5.8	5.8	5.8	13.6 14.1	13.9		16.7 17.8	17.3	
				8.6	Middle	4.3	27.7 27.7	27.7	8.4 8.4	8.4	26.4 26.4	26.4	85.8 85.9	85.9	5.8 5.8	5.8	5.0	14.5 14.2	14.4	14.2	17.8 18.3	18.1	17.5
					Bottom	7.6	27.7 27.7	27.7	8.4 8.4	8.4	26.4 26.4	26.4	85.7 85.8	85.8	5.8 5.8	5.8	5.8	14.1 14.2	14.2		16.9 17.1	17.0	

#### 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

## 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	(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-Sep-16	Fine	Moderate	07:59		Surface	1.0	28.1 28.1	28.1	8.2 8.3	8.3	26.3 26.2	26.3	78.4 78.8	78.6	5.4 5.4	5.4	5.4	10.4 10.4	10.4		12.1 11.9	12.0	
				8.5	Middle	4.3	28.1 28.1	28.1	8.3 8.2	8.3	26.4 26.4	26.4	78.5 78.1	78.3	5.4 5.3	5.4	5.4	10.5 10.6	10.6	10.5	13.8 12.3	13.1	12.2
					Bottom	7.5	28.1	28.1	8.2 8.3	8.3	26.4 26.4	26.4	78.0 78.3	78.2	5.3 5.4	5.3	5.3	10.5	10.4		12.1	11.6	1
5-Sep-16	Fine	Moderate	09:56		Surface	1.0	28.4 28.3	28.4	8.2 8.2	8.2	26.0 26.1	26.0	91.7 87.2	89.5	6.2 5.9	6.1		7.5	7.6		7.1	7.6	
				8.7	Middle	4.4	28.3 28.3	28.3	8.2 8.2	8.2	26.3 26.1	26.2	86.3 88.4	87.4	5.9 6.0	5.9	6.0	7.6	7.6	7.6	9.3 7.5	8.4	8.0
					Bottom	7.7	28.3 28.3	28.3	8.2 8.2	8.2	26.6 26.4	26.5	87.8 86.1	87.0	6.0 5.9	5.9	5.9	7.5	7.5		8.4 7.3	7.9	
7-Sep-16	Rainy	Moderate	11:20		Surface	1.0	28.0 28.0	28.0	8.2 8.2 8.2	8.2	25.5 25.6	25.6	83.0 82.3	82.7	5.7 5.7	5.7		5.8 5.7	5.8		4.6	4.6	
				8.8	Middle	4.4	28.0 28.0 27.9	28.0	8.2 8.2	8.2	25.8 25.9	25.9	81.5 81.5	81.5	5.6 5.6	5.6	5.7	5.8 5.8	5.8	5.8	5.6 5.1	5.4	5.6
					Bottom	7.8	28.0 27.9	27.9	8.2 8.2	8.2	25.9 26.3	26.1	81.2 80.4	80.8	5.6 5.5	5.5	5.5	5.8 5.9	5.9		7.3	6.7	
9-Sep-16 ^	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<u>-</u>
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
12-Sep-16	Sunny	Moderate	15:50		Surface	1.0	30.0 29.3	29.6	8.5 8.5	8.5	17.7 18.8	18.3	81.2 78.1	79.7	5.6 5.4	5.5		7.1 6.8	7.0		3.5 3.9	3.7	
				8.4	Middle	4.2	28.2 28.3	28.3	8.5 8.5	8.5	23.9 23.7	23.8	76.2 80.5	78.4	5.4 5.6	5.5	5.5	6.5 6.6	6.6	6.8	3.0 3.1	3.1	3.3
					Bottom	7.4	28.0 28.0	28.0	8.5 8.5	8.5	26.1 25.9	26.0	71.5 73.2	72.4	5.0 5.1	5.1	5.1	6.7 6.6	6.7		2.6 3.3	3.0	
14-Sep-16	Sunny	Moderate	16:56		Surface	1.0	29.1 29.2	29.2	8.5 8.5	8.5	21.8 21.5	21.7	90.8 89.6	90.2	6.2 6.1	6.1	6.4	9.6 9.3	9.5		12.3 13.0	12.7	
				8.4	Middle	4.2	28.9 28.9	28.9	8.5 8.5	8.5	21.8 22.2	22.0	89.1 88.3	88.7	6.1 6.0	6.0	6.1	9.5 9.2	9.4	9.4	11.7 12.0	11.9	12.5
					Bottom	7.4	28.9 28.6	28.8	8.5 8.5	8.5	23.2 23.5	23.4	86.7 83.1	84.9	5.9 5.7	5.8	5.8	9.2 9.5	9.4		12.4 13.6	13.0	
16-Sep-16	Fine	Moderate	17:52		Surface	1.0	28.6 28.8	28.7	8.4 8.4	8.4	25.0 24.7	24.9	85.7 89.8	87.8	5.8 6.1	5.9	5.8	9.5 9.5	9.5		3.6 4.1	3.9	
				8.3	Middle	4.2	28.0 28.1	28.1	8.4 8.4	8.4	26.7 26.5	26.6	80.1 88.2	84.2	5.5 6.0	5.7	5.0	9.1 9.4	9.3	9.4	4.4 4.5	4.5	4.0
					Bottom	7.3	28.3 28.2	28.2	8.4 8.4	8.4	27.9 28.0	28.0	81.6 78.3	80.0	5.6 5.3	5.5	5.5	9.5 9.3	9.4		3.5 3.5	3.5	
19-Sep-16	Sunny	Moderate	09:13		Surface	1.0	28.5 28.5	28.5	8.3 8.3	8.3	27.3 27.3	27.3	71.4 68.0	69.7	5.6 5.3	5.4	5.4	8.0 7.8	7.9		9.4 9.9	9.7	
				9.1	Middle	4.6	28.5 28.5	28.5	8.3 8.3	8.3	27.3 27.4	27.4	69.6 67.8	68.7	5.4 5.3	5.4	5.7	8.0 8.0	8.0	8.0	9.0 10.5	9.8	10.2
					Bottom	8.1	28.5 28.5	28.5	8.3 8.3	8.3	27.4 27.3	27.4	67.8 68.6	68.2	5.3 5.4	5.3	5.3	8.0 8.0	8.0		11.3 10.9	11.1	
21-Sep-16	Sunny	Moderate	11:11		Surface	1.0	28.3 28.3	28.3	8.3 8.3	8.3	27.1 27.1	27.1	87.1 83.0	85.1	5.9 5.6	5.7	5.7	7.2 7.1	7.2		9.1 8.4	8.8	
				8.5	Middle	4.3	28.3 28.3	28.3	8.3 8.3	8.3	27.1 27.1	27.1	82.3 84.4	83.4	5.5 5.7	5.6	0.1	7.3 7.5	7.4	7.3	8.6 10.1	9.4	8.8
					Bottom	7.5	28.3 28.3	28.3	8.3 8.3	8.3	27.1 27.2	27.2	82.3 83.5	82.9	5.5 5.6	5.6	5.6	7.3 7.5	7.4		8.1 8.3	8.2	

## Water Quality Monitoring Results at IS5 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Sampl	ling	Temper	ature (°C)	F	ъH	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	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-Sep-16	Sunny	Moderate	13:45		Surface	1.0	28.5 28.5	28.5	8.3 8.3	8.3	27.8 27.9	27.8	86.0 86.0	86.0	5.7 5.7	5.7	5.9	6.2 5.9	6.1		7.4 8.9	8.2	
				8.7	Middle	4.4	28.5 28.5	28.5	8.3 8.3	8.3	27.8 27.9	27.9	89.2 92.5	90.9	5.9 6.2	6.1	5.9	6.0 5.8	5.9	6.0	8.9 8.4	8.7	9.2
					Bottom	7.7	28.5 28.4	28.5	8.3 8.3	8.3	27.9 27.8	27.8	86.6 87.6	87.1	5.8 5.8	5.8	5.8	6.0 5.9	6.0		9.9 11.5	10.7	
26-Sep-16	Sunny	Moderate	15:27		Surface	1.0	29.4 29.3	29.4	8.3 8.3	8.3	25.9 26.2	26.1	91.8 91.1	91.5	6.1 6.0	6.1	6.1	6.5 6.8	6.7		8.6 8.1	8.4	
				8.6	Middle	4.3	29.1 29.1	29.1	8.3 8.3	8.3	26.6 26.3	26.4	90.3 91.4	90.9	6.0 6.1	6.0	0.1	8.4 8.2	8.3	7.8	7.7 8.5	8.1	8.4
					Bottom	7.6	29.1 29.1	29.1	8.3 8.3	8.3	26.1 26.7	26.4	91.8 90.5	91.2	6.1 6.0	6.1	6.1	8.0 8.8	8.4		8.5 8.9	8.7	
28-Sep-16	Fine	Rough	16:47		Surface	1.0	29.1 29.1	29.1	8.5 8.5	8.5	25.2 25.4	25.3	87.5 87.4	87.5	5.8 5.8	5.8	5.8	10.6 10.1	10.4		15.6 15.0	15.3	
				8.6	Middle	4.3	29.1 29.1	29.1	8.5 8.5	8.5	25.4 25.2	25.3	87.2 87.2	87.2	5.8 5.8	5.8	5.0	10.6 10.5	10.6	10.5	15.9 16.2	16.1	16.8
					Bottom	7.6	29.1 29.1	29.1	8.5 8.5	8.5	25.4 25.3	25.3	87.0 86.7	86.9	5.8 5.8	5.8	5.8	10.5 10.6	10.6		18.5 19.3	18.9	
30-Sep-16	Cloudy	Moderate	07:16		Surface	1.0	27.7 27.7	27.7	8.3 8.3	8.3	26.3 26.3	26.3	84.6 84.4	84.5	5.8 5.7	5.7	5.7	11.3 11.3	11.3		8.9 9.3	9.1	
				8.6	Middle	4.3	27.7 27.7	27.7	8.3 8.3	8.3	26.3 26.3	26.3	84.2 84.2	84.2	5.7 5.7	5.7	5.7	11.7 11.7	11.7	11.5	9.1 10.3	9.7	10.0
					Bottom	7.6	27.7 27.7	27.7	8.3 8.3	8.3	26.3 26.3	26.3	84.2 84.2	84.2	5.7 5.7	5.7	5.7	11.5 11.7	11.6		10.2 11.9	11.1	

#### 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.

^ The scheduled water quality monitoring during mid-flood tide on 9 September 2016 was cancelled due to thunderstorm Signal hoisted 3 hours before the scheduled monitoring time.

Remarks:

\* DA: Depth-Averaged

## Water Quality Monitoring Results at IS7 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	F	ЪН	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ved Oxygen	(mg/L)	T	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-Sep-16	Fine	Moderate	12:40		Surface	1.0	28.2 28.2	28.2	8.3 8.3	8.3	26.3 26.3	26.3	81.2 81.1	81.2	5.5 5.5	5.5		15.6 15.4	15.5		18.0 16.3	17.2	
				3.3	Middle	-		-	-	-	-	-	-	-	-	-	5.5	-	-	15.5	-	-	17.1
					Bottom	2.3	28.2 28.1	28.2	8.3 8.3	8.3	26.4 26.4	26.4	81.1 81.3	81.2	5.5 5.5	5.5	5.5	15.2 15.5	15.4		17.7 16.0	16.9	
5-Sep-16	Fine	Moderate	13:56		Surface	1.0	28.3 28.3	28.3	8.1 8.1	8.1	25.2 25.3	25.2	88.8 88.6	88.7	6.1 6.0	6.1		8.5 8.6	8.6		5.5 5.9	5.7	
				3.2	Middle	-	-	-	-	-	-	-	-	-	-	-	6.1	-	-	8.6	-	-	5.9
					Bottom	2.2	28.3 28.4	28.4	8.1 8.1	8.1	25.4 25.7	25.5	88.1 87.7	87.9	6.0 6.0	6.0	6.0	8.4 8.5	8.5		6.8 5.2	6.0	
7-Sep-16	Cloudy	Moderate	15:05		Surface	1.0	28.0 28.0	28.0	8.1 8.1	8.1	24.8 24.8	24.8	82.3 82.3	82.3	5.7 5.7	5.7	5.7	6.5 6.6	6.6		5.9 6.4	6.2	
				3.3	Middle	-	-	-		-		-	-	-	-	-	5.7	-	-	6.7	-	-	7.1
					Bottom	2.3	28.0 28.0	28.0	8.1 8.1	8.1	25.4 25.6	25.5	82.4 83.1	82.8	5.7 5.7	5.7	5.7	6.7 6.6	6.7		8.2 7.8	8.0	
9-Sep-16	Fine	Moderate	17:07		Surface	1.0	28.6 28.6	28.6	8.0 8.0	8.0	19.2 19.1	19.2	82.0 83.3	82.7	5.7 5.8	5.8	5.8	4.3 4.1	4.2		4.0 4.4	4.2	
				3.3	Middle	-	-	-	-	-	-	-	-	-	-	-	0.0	-	-	4.2	-	-	4.2
					Bottom	2.3	28.6 28.6	28.6	7.9 8.0	8.0	20.4 20.3	20.3	81.3 82.7	82.0	5.6 5.7	5.7	5.7	4.2 4.2	4.2		4.8 3.6	4.2	
12-Sep-16	Sunny	Moderate	10:21		Surface	1.0	28.9 28.8	28.9	8.2 8.2	8.2	20.4 20.4	20.4	77.2 79.2	78.2	5.4 5.6	5.5	5.5	3.2 3.0	3.1		2.2 2.4	2.3	
				3.2	Middle	-	-	-	-	-	-	-	-	-	-	-		-	-	3.1	-	-	2.7
					Bottom	2.2	28.5 28.0	28.3	8.1 8.1	8.1	24.2 24.3	24.3	79.3 76.1	77.7	5.5 5.3	5.4	5.4	3.1 3.1	3.1		3.7 2.3	3.0	
14-Sep-16	Sunny	Moderate	11:55		Surface	1.0	29.0 29.0	29.0	8.4 8.4	8.4	22.6 22.8	22.7	84.4 85.6	85.0	5.7 5.8	5.8	5.8	7.1 6.9	7.0		3.2 3.4	3.3	
				3.2	Middle	-	-	-	-	-	-	-	-	-	-	-		-	-	7.1	-	-	3.7
					Bottom	2.2	29.0 28.7	28.9	8.3 8.3	8.3	23.6 24.1	23.9	85.7 84.9	85.3	5.8 5.7	5.8	5.8	7.0	7.1		4.7 3.3	4.0	
16-Sep-16	Sunny	Moderate	13:18		Surface	1.0	29.0 29.0	29.0	8.4 8.4	8.4	24.6 24.6	24.6	91.0 90.0	90.5	6.1 6.0	6.1	6.1	4.7 4.6	4.7		5.0 4.6	4.8	
				3.3	Middle	-	-	-	-	-	-	-	-	-	-	-		-	-	4.7	-	-	4.6
10.0		Malanda	40.45		Bottom	2.3	28.9 28.7	28.8	8.4 8.4	8.4	24.7 25.2	25.0	90.7 87.5	89.1	6.1 5.9	6.0	6.0	4.7 4.7	4.7		3.7 4.9	4.3	
19-Sep-16	Sunny	Moderate	13:15		Surface	1.0	28.7 28.8	28.8	8.4 8.4	8.4	25.9 25.9	25.9	72.2 70.1	71.2	5.6 5.5	5.6	5.6	8.7 8.8	8.8		6.0 7.0	6.5	
				3.5	Middle	-		-	8.4	-	25.9	-	- - 69.7	-	-	-		-	-	8.8	7.4	-	6.7
21 Sep 10	Suppy	Madarata	15:11		Bottom	2.5	28.7	28.8	8.4	8.4	25.8	25.9	70.8	70.3	5.5 5.5	5.5	5.5	8.8 8.8	8.8		6.1	6.8	
21-Sep-16	Sunny	Moderate	15:11		Surface	1.0	29.0 29.0	29.0	8.4 8.4	8.4	26.3 26.2	26.2	85.3 88.8	87.1	5.7 5.9	5.8	5.8	4.6 4.8	4.7		5.9 6.0	6.0	
				3.9	Middle	-	28.8	-	- 8.4	-	26.3	-	-	-	-	-		-	-	4.8	5.4	-	5.7
					Bottom	2.9	28.8 28.7	28.7	8.4 8.4	8.4	26.3 26.2	26.3	85.1 86.7	85.9	5.7 5.8	5.7	5.7	4.8 4.8	4.8		5.4 5.2	5.3	

## Water Quality Monitoring Results at IS7 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	F	ЪН	Salini	y (ppt)	DO Satu	ration (%)	Dissolv	ved Oxygen	(mg/L)	Т	urbidity(NTl	))	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-Sep-16	Sunny	Moderate	17:14		Surface	1.0	28.8 28.8	28.8	8.5 8.5	8.5	27.0 27.0	27.0	89.6 89.6	89.6	6.0 6.0	6.0	6.0	7.8 7.8	7.8		9.3 8.5	8.9	
				3.3	Middle	-	-	-	-	-	-	-	-	-	-	-	0.0	-	-	7.9	-	-	8.6
					Bottom	2.3	28.8 28.7	28.8	8.5 8.5	8.5	27.0 27.0	27.0	89.6 89.7	89.7	6.0 6.0	6.0	6.0	7.9 7.8	7.9		8.2 8.2	8.2	
26-Sep-16	Sunny	Moderate	10:21		Surface	1.0	28.7 28.7	28.7	8.3 8.3	8.3	27.6 27.8	27.7	82.9 85.8	84.4	5.5 5.7	5.6	5.6	3.3 3.6	3.5		4.9 4.1	4.5	
				3.2	Middle	•	-	-	-	-		-		-		-	5.0	-	-	4.5	-	-	4.9
					Bottom	2.2	28.6 28.7	28.6	8.3 8.3	8.3	28.4 28.0	28.2	79.6 84.5	82.1	5.3 5.6	5.4	5.4	5.2 5.5	5.4		5.4 5.1	5.3	
28-Sep-16	Fine	Rough	12:02		Surface	1.0	29.2 29.2	29.2	8.4 8.4	8.4	26.5 26.5	26.5	89.0 88.6	88.8	5.9 5.9	5.9	5.9	5.7 5.7	5.7		8.7 7.4	8.1	
				3.2	Middle	-	-	-	-	-		-		-	-	-	5.5	-	-	5.7	-	-	8.4
					Bottom	2.2	29.2 29.2	29.2	8.4 8.4	8.4	26.6 26.6	26.6	88.9 88.0	88.5	5.9 5.8	5.9	5.9	5.7 5.6	5.7		8.2 9.1	8.7	
30-Sep-16	Fine	Moderate	11:41		Surface	1.0	27.7 27.7	27.7	8.4 8.4	8.4	26.3 26.3	26.3	85.5 85.5	85.5	5.8 5.8	5.8	5.8	11.0 11.1	11.1		11.6 11.1	11.4	
				3.4	Middle	-	-	-	-	-	-	-	-	-	-	-	5.0	-	-	11.3	-	-	11.3
					Bottom	2.4	27.7 27.7	27.7	8.4 8.4	8.4	26.3 26.3	26.3	85.5 85.5	85.5	5.8 5.8	5.8	5.8	11.7 11.2	11.5		10.9 11.2	11.1	

#### 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

## 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)	1	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-Sep-16	Fine	Moderate	07:43		Surface	1.0	28.1 28.0	28.0	8.2 8.2	8.2	25.6 26.0	25.8	83.6 83.0	83.3	5.7 5.7	5.7	5.7	6.1 6.2	6.2		7.1 6.8	7.0	
				3.3	Middle	-	-	-	-	-		-		-	-	-	5.7	-	-	6.3	-	-	7.3
					Bottom	2.3	28.0 28.0	28.0	8.2 8.2	8.2	26.2 26.4	26.3	83.3 83.2	83.3	5.7 5.7	5.7	5.7	6.3 6.3	6.3		8.4 6.8	7.6	
5-Sep-16	Fine	Moderate	09:40		Surface	1.0	28.3 28.3	28.3	8.2 8.2	8.2	26.0 26.0	26.0	85.0 85.1	85.1	5.8 5.8	5.8	5.0	5.2 5.1	5.2		4.1 5.0	4.6	
				3.4	Middle	-	-	-	-	-	-	-	-	-	-	-	5.8	-	-	5.3	-	-	4.9
					Bottom	2.4	28.2 28.3	28.2	8.2 8.2	8.2	26.2 26.2	26.2	85.0 85.2	85.1	5.8 5.8	5.8	5.8	5.3 5.3	5.3		5.3 4.9	5.1	
7-Sep-16	Rainy	Moderate	11:02		Surface	1.0	28.0 28.0	28.0	8.2 8.2	8.2	25.3 25.3	25.3	81.6 81.9	81.8	5.6 5.6	5.6	5.6	5.8 5.9	5.9		9.4 9.2	9.3	
				3.3	Middle	-	-	-	-	-	-	-		-	-	-	0.0	-	-	5.9	-	-	10.5
					Bottom	2.3	28.0 28.0	28.0	8.2 8.2	8.2	25.6 25.4	25.5	81.0 81.7	81.4	5.6 5.6	5.6	5.6	5.9 5.9	5.9		12.1 11.2	11.7	
9-Sep-16 ^	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	-	-	-		-	-	-		-	-	-	-	-	-	-	-	-	-
					Bottom	-	-	-	-	-		-		-	-	-	-	-	-		-	-	
12-Sep-16	Sunny	Moderate	16:09		Surface	1.0	30.7 30.7	30.7	8.4 8.4	8.4	17.5 17.5	17.5	94.0 93.2	93.6	6.4 6.3	6.4	6.4	3.3 3.2	3.3		2.5 3.4	3.0	
				3.3	Middle	-	-	-	-	-	-	-	-	-	-	-	0.4	-	-	3.3	-	-	2.7
					Bottom	2.3	29.2 29.8	29.5	8.4 8.4	8.4	19.7 19.2	19.5	93.8 93.4	93.6	6.5 6.4	6.4	6.4	3.3 3.3	3.3		2.4 2.4	2.4	
14-Sep-16	Sunny	Moderate	17:13		Surface	1.0	29.2 29.2	29.2	8.5 8.5	8.5	22.5 22.4	22.5	98.1 98.1	98.1	6.6 6.6	6.6	6.6	8.5 8.5	8.5		8.3 9.1	8.7	
				3.4	Middle	I	-	-		-		-		-	-	-	0.0	-	-	8.5	-	-	9.3
					Bottom	2.4	29.2 29.2	29.2	8.5 8.5	8.5	22.5 22.5	22.5	98.1 98.1	98.1	6.6 6.6	6.6	6.6	8.4 8.5	8.5		9.2 10.3	9.8	
16-Sep-16	Fine	Moderate	18:08		Surface	1.0	28.7 28.7	28.7	8.4 8.4	8.4	25.4 25.3	25.3	83.9 82.0	83.0	5.6 5.5	5.6	5.6	10.1 10.2	10.2		5.2 5.3	5.3	
				3.4	Middle	I	-	-		-		-		-	-	-	5.0	-	-	10.2	-	-	5.8
					Bottom	2.4	28.6 28.7	28.6	8.4 8.4	8.4	25.7 25.6	25.7	81.7 80.5	81.1	5.5 5.4	5.5	5.5	10.1 10.2	10.2		6.6 6.0	6.3	
19-Sep-16	Sunny	Moderate	08:57		Surface	1.0	28.4 28.4	28.4	8.3 8.3	8.3	27.4 27.4	27.4	67.8 68.2	68.0	5.3 5.4	5.3	5.3	6.0 6.0	6.0		8.1 6.1	7.1	
				3.5	Middle	-	-	-	-	-		-		-	-	-	0.0	-	-	6.1	-	-	7.8
					Bottom	2.5	28.4 28.4	28.4	8.3 8.3	8.3	27.4 27.4	27.4	67.7 68.0	67.9	5.3 5.3	5.3	5.3	6.1 6.1	6.1		8.5 8.3	8.4	
21-Sep-16	Sunny	Moderate	10:53		Surface	1.0	28.4 28.4	28.4	8.3 8.3	8.3	26.9 27.0	27.0	82.7 78.2	80.5	5.6 5.2	5.4	5.4	7.4 7.6	7.5		8.2 9.0	8.6	
				3.2	Middle	-	-	-	-	-	-	-	-	-	-	-	3.4	-	-	7.6	-	-	8.7
					Bottom	2.2	28.3 28.3	28.3	8.3 8.3	8.3	27.0 26.9	27.0	77.1 79.9	78.5	5.2 5.4	5.3	5.3	7.6 7.6	7.6		8.6 8.9	8.8	1

## Water Quality Monitoring Results at IS7 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Sampli	ing	Tempera	ature (°C)	p	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Т	urbidity(NTl	))	Susper	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-Sep-16	Sunny	Moderate	13:28		Surface	1.0	28.5 28.5	28.5	8.3 8.3	8.3	27.8 27.8	27.8	83.6 83.6	83.6	5.6 5.6	5.6	5.6	12.5 12.3	12.4		16.5 17.3	16.9	
				3.1	Middle	-	-	-	-	-	-	-	-	-	-	-	5.0	-	-	12.3	-	-	16.5
					Bottom	2.1	28.4 28.5	28.4	8.3 8.3	8.3	27.8 27.8	27.8	83.6 83.5	83.6	5.6 5.6	5.6	5.6	12.2 12.2	12.2		15.9 16.1	16.0	
26-Sep-16	Sunny	Moderate	15:44		Surface	1.0	29.4 29.4	29.4	8.3 8.3	8.3	27.0 27.1	27.1	94.8 95.7	95.3	6.2 6.3	6.3	6.3	3.7 3.4	3.6		5.7 6.7	6.2	
				3.4	Middle		-	-		-	-	-	-	-	-	-	0.5	-	-	3.7	-	-	7.0
					Bottom	2.4	29.4 29.4	29.4	8.3 8.3	8.3	27.4 27.4	27.4	95.5 94.7	95.1	6.3 6.2	6.3	6.3	3.5 4.0	3.8		7.5 8.1	7.8	
28-Sep-16	Fine	Rough	17:04		Surface	1.0	29.0 29.0	29.0	8.5 8.5	8.5	25.9 25.8	25.8	86.7 86.8	86.8	5.8 5.8	5.8	5.8	7.6 7.6	7.6		14.0 12.1	13.1	
				3.3	Middle	-		-		-		-		-	-	-	5.0	-	-	7.6	-	-	13.9
					Bottom	2.3	29.0 29.1	29.0	8.5 8.5	8.5	25.9 26.0	25.9	86.7 86.9	86.8	5.8 5.8	5.8	5.8	7.7 7.5	7.6		14.3 14.9	14.6	
30-Sep-16	Cloudy	Moderate	06:58		Surface	1.0	27.6 27.6	27.6	8.3 8.3	8.3	26.0 25.9	26.0	87.3 89.6	88.5	6.0 6.1	6.0	6.0	8.5 8.4	8.5		11.8 10.1	11.0	
				3.3	Middle	-	-	-	• •	-	-	-	-	-	-	-	0.0	-	-	8.5	-	-	12.0
					Bottom	2.3	27.6 27.6	27.6	8.3 8.3	8.3	25.9 26.0	25.9	93.3 88.4	90.9	6.4 6.0	6.2	6.2	8.5 8.5	8.5		12.0 14.0	13.0	

#### 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.

^ The scheduled water quality monitoring during mid-flood tide on 9 September 2016 was cancelled due to thunderstorm Signal hoisted 3 hours before the scheduled monitoring time.

Remarks:

\* DA: Depth-Averaged

## Water Quality Monitoring Results at IS8 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	Ł	ЪН	Salini	ty (ppt)	DO Satu	iration (%)	Dissol	ved Oxygen	(mg/L)	Т	urbidity(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-Sep-16	Fine	Moderate	13:06		Surface	1.0	28.3 28.3	28.3	8.3 8.3	8.3	26.5 26.4	26.5	80.1 80.4	80.3	5.5 5.5	5.5		5.0 4.9	5.0		10.1 7.5	8.8	
				3.8	Middle	-	-	-	-	-	-	-	-	-	-	-	5.5	-	-	4.9	-	-	9.0
					Bottom	2.8	28.1 28.2	28.2	8.3 8.3	8.3	26.7 26.6	26.7	80.1 80.2	80.2	5.5 5.5	5.5	5.5	4.8 4.8	4.8		8.7 9.6	9.2	
5-Sep-16	Fine	Moderate	14:18		Surface	1.0	28.4 28.4	28.4	8.1 8.1	8.1	25.4 25.4	25.4	87.6 89.3	88.5	6.0 6.1	6.0		9.6 9.6	9.6		5.3 5.5	5.4	
				4.0	Middle	-	-	-	-	-		-	-	-	-	-	6.0	-	-	9.6	-	-	6.0
					Bottom	3.0	28.3 28.3	28.3	8.1 8.1	8.1	25.6 25.8	25.7	86.3 85.9	86.1	5.9 5.9	5.9	5.9	9.5 9.5	9.5		6.0 7.2	6.6	
7-Sep-16	Cloudy	Moderate	15:27		Surface	1.0	28.1 28.0	28.0	8.2 8.2	8.2	24.8 24.9	24.9	87.8 89.3	88.6	6.0 6.1	6.1		5.3 5.4	5.4		7.4 7.4	7.4	
				3.8	Middle	-	-	-	-	-	-	-	-	-	-	-	6.1	-	-	5.5	-	-	7.4
					Bottom	2.8	28.0 28.0	28.0	8.2 8.2	8.2	25.1 25.5	25.3	87.7 87.0	87.4	6.0 6.0	6.0	6.0	5.5 5.4	5.5		7.6 6.9	7.3	
9-Sep-16	Fine	Moderate	17:34		Surface	1.0	28.4 28.4	28.4	8.1 8.1	8.1	19.5 19.3	19.4	77.3 75.4	76.4	5.3 5.3	5.3	5.3	7.6 7.7	7.7		3.5 4.4	4.0	
				3.9	Middle	-	-	-	-	-	-	-	-	-	-	-	5.5	-	-	7.7	-	-	3.8
					Bottom	2.9	28.2 28.4	28.3	8.0 8.0	8.0	22.7 21.9	22.3	76.2 77.4	76.8	5.2 5.4	5.3	5.3	7.7 7.6	7.7		3.2 4.0	3.6	
12-Sep-16	Sunny	Moderate	09:57		Surface	1.0	28.5 28.5	28.5	8.2 8.2	8.2	21.2 21.5	21.4	74.3 80.4	77.4	5.2 5.6	5.4	5.4	10.2 9.8	10.0		4.6 4.0	4.3	
				3.8	Middle	-	-	-		-		-		-	-	-	0.4	-	-	10.1	-	-	4.3
					Bottom	2.8	28.4 28.2	28.3	8.1 8.1	8.1	25.0 25.8	25.4	75.5 74.0	74.8	5.2 5.2	5.2	5.2	10.1 10.2	10.2		4.4 3.9	4.2	
14-Sep-16	Sunny	Moderate	11:27		Surface	1.0	28.9 28.9	28.9	8.3 8.3	8.3	24.2 24.1	24.2	80.9 79.4	80.2	5.5 5.4	5.4	5.4	6.6 6.5	6.6		4.6 5.0	4.8	
				3.9	Middle	-	-	-	-	-	-	-	-	-	-	-		-	-	6.6	-	-	5.0
					Bottom	2.9	28.8 28.8	28.8	8.3 8.3	8.3	24.7 25.0	24.8	79.6 79.7	79.7	5.4 5.4	5.4	5.4	6.6 6.5	6.6		5.4 4.9	5.2	
16-Sep-16	Sunny	Moderate	12:50		Surface	1.0	28.2 28.2	28.2	8.4 8.4	8.4	25.3 25.3	25.3	77.4 78.3	77.9	5.2 5.3	5.3	5.3	6.1 6.2	6.2		5.4 6.8	6.1	
				4.2	Middle	-	-	-	-	-	-	-	-	-	-	-		-	-	6.2	-	-	6.2
			10.01		Bottom	3.2	28.2 27.9	28.0	8.4 8.4	8.4	27.1 27.1	27.1	78.9 79.8	79.4	5.3 5.4	5.3	5.3	6.3 6.1	6.2		5.5 6.8	6.2	
19-Sep-16	Sunny	Moderate	13:34		Surface	1.0	29.0 29.0	29.0	8.3 8.3	8.3	26.2 26.2	26.2	68.7 69.0	68.9	5.4 5.4	5.4	5.4	6.7 6.6	6.7		9.2 9.2	9.2	
				3.4	Middle	-	- 29.0	-	8.3	-	- - 26.1	-	68.6	-	- - 5.4	-		- - 6.8	-	6.8	9.9	-	9.6
21 Son 10	Suppy	Madarata	15:40		Bottom	2.4	28.9	29.0	8.3	8.3	26.2	26.2	68.9	68.8	5.4	5.4	5.4	6.8	6.8		9.9	9.9	
21-Sep-16	Sunny	Moderate	15:42		Surface	1.0	29.0 29.1	29.1	8.3 8.3	8.3	26.8 26.7	26.7	76.4 76.5	76.5	5.1 5.1	5.1	5.1	10.5 10.5	10.5		9.3 8.2	8.8	
				4.0	Middle	-	28.9	-	- 8.3	-	26.8	-	76.3	-	5.1	-		10.3	-	10.4	9.4	-	9.4
					Bottom	3.0	28.9	28.8	8.3	8.3	26.8	26.8	76.3	76.3	5.1	5.1	5.1	10.3	10.3		9.4 10.4	9.9	

## Water Quality Monitoring Results at IS8 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampl	ling	Tempera	ature (°C)	F	ЪН	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)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Sep-16	Sunny	Moderate	17:37		Surface	1.0	28.5 28.5	28.5	8.4 8.4	8.4	27.1 27.2	27.2	85.3 85.4	85.4	5.7 5.7	5.7	5.7	6.8 7.0	6.9		10.4 9.8	10.1	
				4.1	Middle	-	-	-	-	-		-		-		-	5.7	-	-	6.9	-	-	10.8
					Bottom	3.1	28.5 28.5	28.5	8.4 8.4	8.4	27.1 27.1	27.1	85.2 85.3	85.3	5.7 5.7	5.7	5.7	6.8 6.9	6.9		11.6 11.4	11.5	
26-Sep-16	Sunny	Moderate	09:51		Surface	1.0	28.8 28.8	28.8	8.3 8.3	8.3	28.2 28.1	28.1	90.2 91.6	90.9	6.0 6.1	6.0	6.0	5.9 5.5	5.7		3.5 2.3	2.9	
				3.7	Middle	-	-	-	-	-		-	-	-	-	-	0.0	-	-	6.2	-	-	3.2
					Bottom	2.7	28.9 28.8	28.8	8.3 8.3	8.3	28.3 28.3	28.3	93.0 91.1	92.1	6.1 6.0	6.1	6.1	6.6 6.7	6.7		2.4 4.6	3.5	
28-Sep-16	Fine	Rough	11:37		Surface	1.0	29.2 29.2	29.2	8.3 8.3	8.3	26.4 26.5	26.4	92.7 90.5	91.6	6.2 6.0	6.1	6.1	5.4 5.3	5.4		9.2 9.4	9.3	
				4.1	Middle	-	-	-	-	-		-		-		-	0.1	-	-	5.4	-	-	10.4
					Bottom	3.1	29.1 29.2	29.1	8.3 8.3	8.3	26.6 26.7	26.7	95.8 91.5	93.7	6.4 6.1	6.2	6.2	5.3 5.3	5.3		11.5 11.2	11.4	
30-Sep-16	Fine	Moderate	12:03		Surface	1.0	27.7 27.7	27.7	8.4 8.4	8.4	26.2 26.2	26.2	88.0 88.4	88.2	6.0 6.0	6.0	6.0	4.5 4.4	4.5		5.0 4.5	4.8	
				4.1	Middle	-	-	-	-	-		-		-		-	0.0	-	-	4.5	-	-	5.5
					Bottom	3.1	27.7 27.8	27.8	8.4 8.4	8.4	26.3 26.4	26.3	88.3 88.3	88.3	6.0 6.0	6.0	6.0	4.5 4.5	4.5		5.8 6.6	6.2	

#### 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

## Water Quality Monitoring Results at IS8 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	/ed 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*
2-Sep-16	Fine	Moderate	07:15		Surface	1.0	28.1 28.1	28.1	8.2 8.2	8.2	25.4 25.4	25.4	91.4 87.4	89.4	6.3 6.0	6.1		7.8 8.0	7.9		9.1 10.9	10.0	
				3.7	Middle	-	-	-	-	-	-	-	-	-	-	-	6.1	-	-	7.9	-	-	10.6
					Bottom	2.7	28.1 28.1	28.1	8.2 8.2	8.2	25.6 25.5	25.6	88.0 86.8	87.4	6.0 5.9	6.0	6.0	7.9 7.8	7.9		10.2 12.1	11.2	
5-Sep-16	Fine	Moderate	09:16		Surface	1.0	28.2 28.2	28.2	8.2 8.2	8.2	26.0 26.0	26.0	87.5 92.6	90.1	6.0 6.3	6.1		7.8 7.8	7.8		4.8 3.7	4.3	
				3.8	Middle	-	-	-	-	-	-	-	-	-	-	-	6.1	-	-	7.8	-	-	4.5
					Bottom	2.8	28.2 28.2	28.2	8.2 8.2	8.2	26.1 26.3	26.2	88.2 88.8	88.5	6.0 6.1	6.0	6.0	7.8 7.8	7.8		4.7 4.5	4.6	
7-Sep-16	Rainy	Moderate	10:40		Surface	1.0	28.0 28.0	28.0	8.2 8.2	8.2	24.7 24.7	24.7	88.4 86.4	87.4	6.1 6.0	6.0		10.1 10.4	10.3		12.3 12.7	12.5	
				4.0	Middle	-	-	-	-	-	-	-	-	-	-	-	6.0	-	-	10.3	-	-	12.4
					Bottom	3.0	28.0 28.0	28.0	8.2 8.2	8.2	24.8 24.9	24.9	85.5 86.2	85.9	5.9 5.9	5.9	5.9	10.3 10.2	10.3		12.5 11.8	12.2	
9-Sep-16 ^	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Bottom	I	-	-	-	-		-		-	-	-	-	-	-		-	-	
12-Sep-16	Sunny	Moderate	16:32		Surface	1.0	29.7 29.8	29.7	8.4 8.4	8.4	18.3 18.3	18.3	90.2 88.7	89.5	6.2 6.1	6.1	6.1	2.7 2.9	2.8		2.9 3.2	3.1	
				4.0	Middle	-	-	-	-	-	-	-	-	-	-	-	0.1	-	-	2.8	-	-	3.0
					Bottom	3.0	28.5 28.4	28.5	8.4 8.4	8.4	22.7 23.3	23.0	91.4 90.0	90.7	6.3 6.1	6.2	6.2	2.8 2.8	2.8		3.2 2.6	2.9	
14-Sep-16	Sunny	Moderate	17:39		Surface	1.0	29.2 29.2	29.2	8.5 8.5	8.5	20.8 20.8	20.8	118.5 118.0	118.3	8.1 8.1	8.1	8.1	10.4 10.1	10.3		4.2 4.2	4.2	
				4.1	Middle	-	-	-	-	-		-		-	-	-	0.1	-	-	10.4	-	-	4.1
					Bottom	3.1	29.2 29.2	29.2	8.5 8.5	8.5	21.1 20.8	21.0	119.4 118.5	119.0	8.2 8.1	8.1	8.1	10.2 10.5	10.4		4.2 3.6	3.9	
16-Sep-16	Fine	Moderate	18:32		Surface	1.0	28.1 28.4	28.2	8.4 8.4	8.4	25.9 25.5	25.7	79.0 80.7	79.9	5.3 5.5	5.4	5.4	6.1 6.2	6.2		7.1 5.7	6.4	
				4.2	Middle	-	-	-	-	-	-	-	-	-	-	-	0.4	-	-	6.2	-	-	7.5
					Bottom	3.2	28.0 28.2	28.1	8.4 8.4	8.4	26.9 27.4	27.2	79.2 76.3	77.8	5.4 5.2	5.3	5.3	6.2 6.1	6.2		7.5 9.5	8.5	
19-Sep-16	Sunny	Moderate	08:39		Surface	1.0	28.4 28.4	28.4	8.3 8.3	8.3	27.2 27.2	27.2	74.5 71.3	72.9	5.8 5.6	5.7	5.7	9.3 9.3	9.3		10.4 9.7	10.1	
				3.3	Middle	-	-	-	-	-	-	-	-	-	-	-	5.7	-	-	9.4	-	-	11.1
					Bottom	2.3	28.4 28.4	28.4	8.3 8.3	8.3	27.2 27.2	27.2	72.5 70.4	71.5	5.6 5.5	5.6	5.6	9.4 9.4	9.4		11.8 12.1	12.0	
21-Sep-16	Sunny	Moderate	10:31		Surface	1.0	28.3 28.4	28.3	8.3 8.3	8.3	27.2 27.1	27.1	82.4 83.7	83.1	5.5 5.6	5.6	5.6	11.1 11.1	11.1		10.0 10.5	10.3	
				4.1	Middle	-	-	-	-	-	-	-	-	-	-	-	0.0	-	-	11.3	-	-	10.2
					Bottom	3.1	28.3 28.3	28.3	8.3 8.3	8.3	27.2 27.2	27.2	82.1 81.3	81.7	5.5 5.5	5.5	5.5	11.2 11.5	11.4		9.2 11.0	10.1	

## Water Quality Monitoring Results at IS8 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Sampl	ling	Tempera	ature (°C)	p	ЪН	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	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-Sep-16	Sunny	Moderate	13:06		Surface	1.0	28.5 28.5	28.5	8.3 8.3	8.3	27.6 27.6	27.6	88.6 85.8	87.2	5.9 5.7	5.8	5.8	6.4 6.6	6.5		4.7 5.8	5.3	
				4.1	Middle	-	-	-	-	-	-	-	-	-	-	-	5.0	-	-	6.5	-	-	5.7
					Bottom	3.1	28.4 28.5	28.5	8.3 8.3	8.3	27.7 27.7	27.7	86.6 84.9	85.8	5.8 5.7	5.7	5.7	6.5 6.5	6.5		6.9 5.1	6.0	
26-Sep-16	Sunny	Moderate	16:10		Surface	1.0	29.3 29.3	29.3	8.4 8.4	8.4	26.8 26.9	26.8	88.9 89.0	89.0	5.9 5.9	5.9	5.9	11.8 12.2	12.0		4.4 4.8	4.6	
				3.6	Middle		-	-	-	-	-	-	-	-	-	-	5.5	-	-	13.5	-	-	6.9
					Bottom	2.6	29.2 29.3	29.3	8.4 8.4	8.4	27.3 27.0	27.2	88.9 89.0	89.0	5.9 5.9	5.9	5.9	14.5 15.2	14.9		8.6 9.7	9.2	
28-Sep-16	Fine	Rough	17:27		Surface	1.0	29.1 29.1	29.1	8.4 8.4	8.4	25.8 25.8	25.8	93.1 93.3	93.2	6.2 6.2	6.2	6.2	15.6 15.6	15.6		20.8 22.4	21.6	
				3.8	Middle	-	-	-	-	-	-	-	-	-	-	-	0.2	-	-	15.6	-	-	21.7
					Bottom	2.8	29.1 29.1	29.1	8.4 8.4	8.4	25.8 25.8	25.8	93.0 93.3	93.2	6.2 6.2	6.2	6.2	15.5 15.6	15.6		21.5 22.0	21.8	
30-Sep-16	Cloudy	Moderate	06:35		Surface	1.0	27.9 27.9	27.9	8.4 8.4	8.4	26.5 26.5	26.5	87.0 90.6	88.8	5.9 6.1	6.0	6.0	8.5 8.5	8.5		6.2 5.6	5.9	
				3.9	Middle	-	-	-	-	-	-	-	-	-		-	0.0	-	-	8.5	-	-	7.6
					Bottom	2.9	27.9 27.9	27.9	8.4 8.4	8.4	26.5 26.5	26.5	86.6 88.3	87.5	5.9 6.0	5.9	5.9	8.4 8.3	8.4		8.3 10.0	9.2	

#### 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.

^ The scheduled water quality monitoring during mid-flood tide on 9 September 2016 was cancelled due to thunderstorm Signal hoisted 3 hours before the scheduled monitoring time.

Remarks:

\* DA: Depth-Averaged

## Water Quality Monitoring Results at IS17 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	Η	Salini	ity (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	(mg/L)	T	Furbidity(NTl	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-Sep-16	Fine	Moderate	13:21		Surface	1.0	28.5 28.4	28.4	8.3 8.3	8.3	25.9 26.0	25.9	82.9 77.5	80.2	5.6 5.3	5.4	5.3	7.5 7.2	7.4		7.0 8.7	7.9	
				9.8	Middle	4.9	27.9 27.9	27.9	8.2 8.2	8.2	27.6 27.5	27.6	74.1 77.6	75.9	5.1 5.3	5.2	5.5	7.4 7.3	7.4	7.4	7.7 6.6	7.2	7.7
					Bottom	8.8	27.9 28.1	28.0	8.2 8.2	8.2	27.9 27.5	27.7	76.7 72.6	74.7	5.2 5.0	5.1	5.1	7.5 7.2	7.4		8.6 7.6	8.1	
5-Sep-16	Fine	Moderate	14:47		Surface	1.0	28.0 28.0	28.0	8.1 8.1	8.1	24.4 24.4	24.4	81.4 82.4	81.9	5.6 5.6	5.6	5.0	8.7 8.5	8.6		3.3 3.7	3.5	
				10.1	Middle	5.1	27.9 28.0	28.0	8.1 8.1	8.1	26.7 26.8	26.8	79.6 81.0	80.3	5.5 5.5	5.5	5.6	8.7 8.6	8.7	8.6	6.1 6.4	6.3	5.4
					Bottom	9.1	27.9 27.8	27.8	8.1 8.0	8.1	28.3 28.4	28.4	79.5 78.2	78.9	5.4 5.3	5.4	5.4	8.6 8.6	8.6		6.9 5.6	6.3	
7-Sep-16	Cloudy	Moderate	15:55		Surface	1.0	28.4 28.3	28.3	8.2 8.2	8.2	20.8 22.5	21.7	82.5 86.1	84.3	5.6 6.0	5.8		5.4 5.6	5.5		4.5 5.5	5.0	
				10.6	Middle	5.3	27.7 27.6	27.7	8.1 8.2	8.1	27.5 27.7	27.6	77.8 81.5	79.7	5.4 5.6	5.5	5.7	5.6 5.5	5.6	5.6	5.2 6.9	6.1	5.8
					Bottom	9.6	27.8 27.6	27.7	8.1 8.1	8.1	27.8 28.1	28.0	74.4 76.5	75.5	5.1 5.2	5.2	5.2	5.6 5.5	5.6		6.7 5.6	6.2	
9-Sep-16	Fine	Moderate	17:45		Surface	1.0	28.4 28.5	28.4	8.2 8.2	8.2	18.5 17.9	18.2	77.6 78.6	78.1	5.3 5.5	5.4	5.4	4.3 4.2	4.3		2.3 2.8	2.6	
				10.1	Middle	5.1	27.7 27.6	27.7	8.1 8.0	8.0	25.3 25.9	25.6	78.1 75.7	76.9	5.3 5.2	5.3	5.4	4.6 4.6	4.6	4.5	2.3 3.0	2.7	2.7
					Bottom	9.1	27.4 27.9	27.7	8.0 8.0	8.0	29.2 28.7	28.9	73.7 74.2	74.0	5.1 5.1	5.1	5.1	4.6 4.7	4.7		2.5 3.2	2.9	
12-Sep-16	Sunny	Moderate	09:39		Surface	1.0	28.6 28.6	28.6	8.2 8.2	8.2	19.8 20.0	19.9	80.8 79.3	80.1	5.5 5.5	5.5		7.5 7.2	7.4		2.2 3.3	2.8	
				10.1	Middle	5.1	27.8 27.8	27.8	8.1 8.1	8.1	28.0 28.6	28.3	77.7 74.9	76.3	5.4 5.3	5.4	5.5	7.5 7.4	7.5	7.6	3.0 2.2	2.6	2.7
					Bottom	9.1	27.8 28.0	27.9	8.1 8.1	8.1	29.5 29.4	29.5	68.5 69.4	69.0	4.7 4.8	4.8	4.8	7.8 7.8	7.8		2.9 2.6	2.8	
14-Sep-16	Sunny	Moderate	11:17		Surface	1.0	28.9 28.9	28.9	8.4 8.4	8.4	21.5 20.2	20.8	84.1 88.4	86.3	5.8 5.9	5.8	5.7	6.4 6.6	6.5		3.2 4.3	3.8	
				10.3	Middle	5.2	28.2 27.9	28.0	8.3 8.3	8.3	25.5 26.5	26.0	79.7 83.7	81.7	5.3 5.8	5.5	5.7	6.6 6.5	6.6	6.6	4.3 3.2	3.8	3.8
					Bottom	9.3	27.8 28.2	28.0	8.3 8.3	8.3	29.4 26.9	28.1	72.9 74.5	73.7	4.9 5.0	5.0	5.0	6.8 6.5	6.7		3.9 3.6	3.8	
16-Sep-16	Sunny	Moderate	12:36		Surface	1.0	28.7 28.8	28.7	8.4 8.4	8.4	25.4 25.3	25.3	88.3 90.2	89.3	6.1 6.2	6.1	6.0	9.3 9.5	9.4		6.0 6.6	6.3	
				10.6	Middle	5.3	28.3 28.0	28.1	8.4 8.4	8.4	26.0 26.4	26.2	86.6 85.1	85.9	5.9 5.9	5.9	0.0	11.4 11.3	11.4	10.7	5.0 4.4	4.7	5.7
					Bottom	9.6	27.5 27.3	27.4	8.3 8.3	8.3	29.3 29.1	29.2	84.9 82.4	83.7	5.9 5.7	5.8	5.8	11.5 11.2	11.4		5.0 6.9	6.0	
19-Sep-16	Sunny	Moderate	13:47		Surface	1.0	28.5 28.7	28.6	8.3 8.3	8.3	27.5 27.3	27.4	68.6 66.4	67.5	5.4 5.2	5.3	5.3	8.0 7.8	7.9		7.3 6.5	6.9	
				11.0	Middle	5.5	28.0 28.1	28.1	8.3 8.3	8.3	28.2 28.0	28.1	66.8 65.5	66.2	5.3 5.2	5.2	0.0	8.0 8.0	8.0	8.0	16.7 15.4	16.1	12.9
					Bottom	10.0	28.1 28.0	28.0	8.3 8.3	8.3	28.3 28.4	28.3	64.9 66.5	65.7	5.1 5.2	5.2	5.2	8.1 8.0	8.1		15.8 15.8	15.8	
21-Sep-16	Sunny	Moderate	15:56		Surface	1.0	28.7 28.8	28.8	8.3 8.3	8.3	27.4 27.3	27.3	78.6 79.5	79.1	5.3 5.3	5.3	5.3	7.6 7.6	7.6		8.4 7.9	8.2	
				9.9	Middle	5.0	28.3 28.4	28.4	8.3 8.3	8.3	27.9 27.8	27.8	78.5 78.5	78.5	5.3 5.3	5.3	0.0	7.5 7.7	7.6	7.6	8.5 9.2	8.9	9.5
					Bottom	8.9	28.3 28.1	28.2	8.3 8.3	8.3	28.1 28.1	28.1	77.2	77.3	5.2 5.2	5.2	5.2	7.7	7.6		11.6	11.4	1

## Water Quality Monitoring Results at IS17 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampling	g	Tempera	ature (°C)	p	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ved Oxygen	(mg/L)	Т	urbidity(NTL	J)	Suspe	ended 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-Sep-16	Sunny	Moderate	17:51		Surface	1.0	28.2 28.3	28.2	8.4 8.3	8.4	27.5 27.6	27.6	76.7 79.8	78.3	5.1 5.3	5.2	5.2	10.4 10.2	10.3		13.5 14.6	14.1	
				10.7	Middle	5.4	28.2 28.2	28.2	8.3 8.3	8.3	28.0 28.0	28.0	76.5 75.7	76.1	5.1 5.1	5.1	J.2	10.3 10.5	10.4	10.3	15.3 15.5	15.4	14.9
					Bottom	9.7	28.2 28.2	28.2	8.3 8.3	8.3	28.4 28.1	28.3	74.7 73.5	74.1	5.0 4.9	4.9	4.9	10.3 10.2	10.3		14.8 15.4	15.1	
26-Sep-16	Sunny	Moderate	09:34		Surface	1.0	28.6 28.7	28.7	8.4 8.4	8.4	26.7 26.2	26.4	80.2 83.3	81.8	5.4 5.6	5.5	5.5	4.2 3.8	4.0		4.8 4.8	4.8	
				11.1	Middle	5.6	28.5 28.5	28.5	8.4 8.3	8.4	28.3 28.4	28.4	82.6 79.7	81.2	5.5 5.3	5.4	0.0	5.3 4.9	5.1	4.5	6.0 5.8	5.9	5.3
					Bottom 1	10.1	28.5 28.5	28.5	8.4 8.3	8.4	28.2 28.6	28.4	81.8 81.5	81.7	5.4 5.4	5.4	5.4	4.6 4.4	4.5		4.7 5.6	5.2	
28-Sep-16	Fine	Rough	11:21		Surface	1.0	29.0 29.0	29.0	8.4 8.4	8.4	25.6 25.5	25.6	85.3 83.4	84.4	5.7 5.6	5.6	5.6	10.4 10.5	10.5		14.3 16.2	15.3	
				10.0	Middle	5.0	28.8 28.7	28.8	8.3 8.4	8.4	27.0 28.0	27.5	84.1 83.2	83.7	5.5 5.5	5.5	5.0	10.5 10.3	10.4	10.4	16.6 18.2	17.4	17.2
					Bottom	9.0	28.8 28.7	28.8	8.3 8.3	8.3	28.6 28.6	28.6	82.1 80.3	81.2	5.5 5.3	5.4	5.4	10.4 10.2	10.3		18.7 19.3	19.0	
30-Sep-16	Fine	Moderate	12:17		Surface	1.0	28.1 28.1	28.1	8.4 8.4	8.4	27.0 27.2	27.1	84.1 82.9	83.5	5.7 5.6	5.6	5.6	6.8 6.6	6.7		5.2 6.3	5.8	
				10.2	Middle	5.1	28.2 28.2	28.2	8.4 8.4	8.4	27.5 27.6	27.5	82.5 80.3	81.4	5.5 5.4	5.5	5.0	6.7 6.7	6.7	6.7	8.5 9.0	8.8	7.8
					Bottom	9.2	28.3 28.2	28.2	8.3 8.4	8.4	28.9 28.7	28.8	80.8 83.1	82.0	5.4 5.5	5.4	5.4	6.6 6.6	6.6		8.8 8.5	8.7	

#### 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

## 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)	T T	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-Sep-16	Fine	Moderate	07:02		Surface	1.0	28.0 28.0	28.0	8.3 8.3	8.3	25.4 25.6	25.5	84.1 83.5	83.8	5.7 5.7	5.7	5.7	8.6 8.6	8.6		6.3 7.2	6.8	
				10.8	Middle	5.4	27.8 27.8	27.8	8.3 8.3	8.3	27.6 27.1	27.3	82.1 83.0	82.6	5.6 5.7	5.7	5.7	8.6 8.6	8.6	8.6	7.6 5.5	6.6	7.5
					Bottom	9.8	27.8 27.7	27.8	8.3 8.3	8.3	28.1 28.1	28.1	81.5 81.8	81.7	5.6 5.6	5.6	5.6	8.7 8.6	8.7		9.9 8.2	9.1	
5-Sep-16	Fine	Moderate	09:02		Surface	1.0	28.2 28.2	28.2	8.3 8.3	8.3	25.8 25.6	25.7	85.7 80.8	83.3	5.8 5.5	5.6	5.0	8.5 8.3	8.4		7.0 6.8	6.9	
				10.1	Middle	5.1	28.1 28.1	28.1	8.3 8.3	8.3	26.8 26.9	26.9	79.7 81.5	80.6	5.4 5.5	5.5	5.6	9.2 9.5	9.4	9.1	7.5 7.8	7.7	7.4
					Bottom	9.1	28.1 27.9	28.0	8.3 8.3	8.3	28.3 28.3	28.3	79.2 81.2	80.2	5.4 5.5	5.5	5.5	9.5 9.5	9.5		7.7 7.3	7.5	
7-Sep-16	Rainy	Moderate	10:24		Surface	1.0	28.0 28.0	28.0	8.2 8.2	8.2	25.0 25.1	25.0	81.3 78.1	79.7	5.6 5.3	5.4		8.9 8.9	8.9		6.5 6.7	6.6	
				10.1	Middle	5.1	27.8	27.8	8.1 8.2	8.2	27.4 27.3	27.4	76.3 78.0	77.2	5.3 5.4	5.3	5.4	8.8 8.9	8.9	8.9	6.9 7.9	7.4	7.7
					Bottom	9.1	27.7	27.8	8.1 8.1	8.1	27.7	27.7	77.7	77.0	5.3 5.2	5.3	5.3	8.8 8.9	8.9		9.0 9.1	9.1	
9-Sep-16 ^	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	1
				-	Middle	-		-	-	-	-	-	-	-		-	-	-	-	-	-	-	-
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
12-Sep-16	Sunny	Moderate	16:47		Surface	1.0	29.1 29.1	29.1	8.4 8.4	8.4	19.8 20.1	20.0	87.5 81.5	84.5	6.1 5.7	5.9	EG	4.5 4.5	4.5		2.8 2.9	2.9	
				10.4	Middle	5.2	27.9 27.9	27.9	8.3 8.3	8.3	25.7 27.0	26.3	76.8 72.8	74.8	5.3 5.0	5.2	5.6	4.5 4.6	4.6	4.6	4.4 3.4	3.9	3.4
					Bottom	9.4	27.3 27.4	27.4	8.3 8.3	8.3	29.6 29.4	29.5	68.6 71.6	70.1	4.8 5.0	4.9	4.9	4.8 4.8	4.8		3.2 3.6	3.4	
14-Sep-16	Sunny	Moderate	17:53		Surface	1.0	28.9 29.0	28.9	8.5 8.5	8.5	21.9 21.9	21.9	91.8 86.2	89.0	6.2 5.9	6.0	5.9	8.4 8.6	8.5		3.8 3.9	3.9	
				10.6	Middle	5.3	28.1 28.1	28.1	8.4 8.4	8.4	25.7 25.1	25.4	84.9 86.3	85.6	5.7 5.9	5.8	5.5	8.5 8.5	8.5	8.5	4.4 4.4	4.4	4.2
					Bottom	9.6	28.0 27.7	27.9	8.4 8.4	8.4	27.7 27.9	27.8	74.6 79.3	77.0	5.1 5.4	5.2	5.2	8.6 8.5	8.6		4.2 4.6	4.4	
16-Sep-16	Fine	Moderate	18:48		Surface	1.0	28.6 28.6	28.6	8.4 8.4	8.4	25.5 25.5	25.5	80.5 82.4	81.5	5.4 5.5	5.5	5.5	10.2 10.1	10.2		5.0 6.9	6.0	
				10.5	Middle	5.3	27.8 27.6	27.7	8.4 8.4	8.4	26.8 27.5	27.1	80.5 79.5	80.0	5.4 5.3	5.4	5.5	10.2 10.2	10.2	10.2	6.4 5.8	6.1	5.9
					Bottom	9.5	27.5 27.6	27.6	8.4 8.4	8.4	28.8 28.7	28.8	75.1 74.6	74.9	5.1 5.1	5.1	5.1	10.1 10.1	10.1		6.1 5.0	5.6	
19-Sep-16	Sunny	Moderate	08:25		Surface	1.0	28.3 28.3	28.3	8.3 8.3	8.3	28.0 27.9	27.9	67.5 73.7	70.6	5.3 5.7	5.5	5.5	5.6 5.5	5.6		5.2 5.8	5.5	
				11.1	Middle	5.6	28.2 28.2	28.2	8.3 8.3	8.3	28.1 28.0	28.0	67.4 69.2	68.3	5.3 5.4	5.4	0.0	5.7 5.7	5.7	5.7	7.1 7.1	7.1	6.6
					Bottom	10.1	28.1 28.0	28.1	8.3 8.3	8.3	28.9 28.8	28.9	66.4 68.9	67.7	5.2 5.4	5.3	5.3	5.7 5.8	5.8		6.2 8.0	7.1	
21-Sep-16	Sunny	Moderate	10:16		Surface	1.0	28.4 28.3	28.4	8.2 8.3	8.3	27.1 27.2	27.1	76.3 75.8	76.1	5.1 5.1	5.1	5.1	8.2 8.2	8.2		5.0 6.5	5.8	
				10.3	Middle	5.2	28.1 28.1	28.1	8.2 8.2	8.2	27.9 27.8	27.9	75.3 74.8	75.1	5.0 5.0	5.0	5.1	8.5 8.5	8.5	8.4	7.6 7.2	7.4	6.9
					Bottom	9.3	28.1 28.2	28.2	8.2 8.2	8.2	27.9 27.9	27.9	73.1 73.7	73.4	4.9 4.9	4.9	4.9	8.2 8.5	8.4		7.3 7.4	7.4	

## Water Quality Monitoring Results at IS17 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Sampling	3	Tempera	ture (°C)	p	Н	Salinit	y (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	ı)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Sep-16	Sunny	Moderate	12:52		Surface		28.5 28.5	28.5	8.3 8.3	8.3	27.1 27.1	27.1	80.1 82.1	81.1	5.3 5.5	5.4	5.4	5.5 5.5	5.5		5.7 5.4	5.6	
				10.6	Middle	5.3	28.2 28.2	28.2	8.3 8.3	8.3	27.5 28.2	27.9	80.2 79.5	79.9	5.4 5.3	5.3	5.4	5.6 5.7	5.7	5.6	5.8 5.4	5.6	5.5
					Bottom		28.3 28.1	28.2	8.3 8.3	8.3	28.3 28.2	28.2	78.0 79.2	78.6	5.2 5.3	5.3	5.3	5.5 5.6	5.6		5.1 5.6	5.4	
26-Sep-16	Sunny	Moderate	16:37		Surface		29.2 29.2	29.2	8.4 8.4	8.4	25.6 25.6	25.6	83.8 84.9	84.4	5.6 5.7	5.6	5.5	3.0 3.1	3.1		4.3 2.1	3.2	
				10.8	Middle		28.6 28.6	28.6	8.3 8.3	8.3	28.3 28.4	28.4	81.7 78.2	80.0	5.4 5.2	5.3	0.0	4.8 4.5	4.7	4.5	3.4 2.3	2.9	3.2
					Bottom	98	28.5 28.5	28.5	8.3 8.3	8.3	28.7 28.8	28.7	85.3 80.7	83.0	5.6 5.3	5.5	5.5	5.7 5.4	5.6		2.6 4.4	3.5	
28-Sep-16	Fine	Rough	17:41		Surface	1.0	28.9 28.9	28.9	8.4 8.4	8.4	25.9 26.0	26.0	91.6 85.6	88.6	6.1 5.7	5.9	5.8	6.0 6.1	6.1		7.7 9.1	8.4	
				10.5	Middle	53	28.9 28.9	28.9	8.4 8.4	8.4	26.4 26.2	26.3	84.5 86.6	85.6	5.6 5.8	5.7	5.0	7.5 7.8	7.7	7.2	8.6 7.1	7.9	8.0
					Bottom	95	28.8 28.8	28.8	8.4 8.4	8.4	27.7 27.8	27.8	86.4 83.8	85.1	5.8 5.6	5.7	5.7	7.8 7.9	7.9		7.5 7.9	7.7	
30-Sep-16	Cloudy	Moderate	06:21		Surface		28.0 28.0	28.0	8.4 8.4	8.4	27.1 27.2	27.2	87.6 84.4	86.0	5.8 5.6	5.7	5.7	6.2 6.5	6.4		4.1 3.1	3.6	
				10.6	Middle		28.2 28.1	28.2	8.3 8.4	8.4	28.1 28.1	28.1	84.6 83.7	84.2	5.7 5.6	5.6	5.7	6.3 6.4	6.4	6.4	7.3 6.3	6.8	5.8
					Bottom	96	28.3 28.2	28.2	8.3 8.3	8.3	29.2 29.1	29.1	84.3 83.1	83.7	5.7 5.6	5.6	5.6	6.5 6.3	6.4		5.9 7.8	6.9	 

#### 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.

^ The scheduled water quality monitoring during mid-flood tide on 9 September 2016 was cancelled due to thunderstorm Signal hoisted 3 hours before the scheduled monitoring time.

Remarks:

\* DA: Depth-Averaged

## Water Quality Monitoring Results at SR3 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	þ	н	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ved 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-Sep-16	Fine	Moderate	-		Surface	-	-	-	-	-	-	-	-	-	-	-	6.0	-	-		-	-	
				1.6	Middle	0.8	28.2 28.2	28.2	8.6 8.6	8.6	24.0 23.9	24.0	86.1 86.5	86.3	5.9 6.0	6.0	6.0	14.5 14.7	14.6	14.6	17.9 20.4	19.2	19.2
					Bottom	-		-		-		-		-	-	-	-	-	-		-	-	
5-Sep-16	Fine	Moderate	-		Surface	-	-	-	-	-	-	-	-	-	-	-	6.4	-	-		-	-	
				1.8	Middle	0.9	28.4 28.4	28.4	7.9 7.9	7.9	26.3 26.1	26.2	93.5 94.4	94.0	6.3 6.4	6.4	0.4	9.3 9.4	9.4	9.4	10.7 10.8	10.8	10.8
					Bottom	-		-		-		-		-	-	-	-	-	-		-	-	
7-Sep-16	Cloudy	Moderate	-		Surface	-		-		-		-	-	-	-	-	6.2	-	-		-	-	
				1.4	Middle	0.7	28.0 28.0	28.0	7.9 7.9	7.9	24.9 25.0	24.9	91.9 88.3	90.1	6.3 6.1	6.2	0.2	7.4 7.4	7.4	7.4	8.7 9.2	9.0	9.0
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
9-Sep-16	Fine	Moderate	-		Surface	-	-	-	-	-	-	-		-	-	-	6.3	-	-		-	-	
				1.4	Middle	0.7	28.5 28.5	28.5	7.8 7.8	7.8	20.4 20.4	20.4	90.4 90.0	90.2	6.3 6.2	6.3	0.0	3.2 3.2	3.2	3.2	4.2 3.6	3.9	3.9
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
12-Sep-16	Sunny	Moderate	-		Surface	-	-	-	-	-	-	-	-	-	-	-	5.7	-	-		-	-	
				1.4	Middle	0.7	28.7 29.0	28.8	8.3 8.3	8.3	20.0 20.5	20.2	81.3 82.7	82.0	5.7 5.8	5.7	0.1	4.6 4.6	4.6	4.6	4.0 4.2	4.1	4.1
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
14-Sep-16	Sunny	Moderate	-		Surface	-	-	-	-	-	-	-	-	-	-	-	6.6	-	-		-	-	
				1.6	Middle	0.8	29.3 29.2	29.2	8.4 8.4	8.4	21.6 21.6	21.6	98.7 96.0	97.4	6.7 6.5	6.6		5.8 5.8	5.8	5.8	5.0 5.2	5.1	5.1
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
16-Sep-16	Sunny	Moderate	-		Surface	-	-	-	-	-	-	-	-	-	-	-	6.7	-	-		-	-	
				1.4	Middle	0.7	28.9 29.0	28.9	8.4 8.4	8.4	24.6 24.5	24.5	99.2 99.7	99.5	6.7 6.7	6.7		4.8 4.7	4.8	4.8	6.6 6.0	6.3	6.3
10.0 10					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
19-Sep-16	Sunny	Moderate	-		Surface	-	-	-	-	-	-	-	-	-	-	-	5.7	-	-		-	-	
				1.6	Middle	0.8	29.0 29.0	29.0	8.8 8.8	8.8	23.9 23.7	23.8	72.9 74.3	73.6	5.7 5.8	5.7		9.2 9.2	9.2	9.2	14.3 13.0	13.7	13.7
01.0	0	Madavat			Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
21-Sep-16	Sunny	Moderate	-		Surface	-	-	-	-	-	-	-	-	-	-	-	5.6	-	-			-	
				1.4	Middle	0.7	28.8 28.7	28.7	8.5 8.5	8.5	24.3 24.1	24.2	81.7 83.6	82.7	5.5 5.7	5.6		6.4 6.6	6.5	6.5	7.1 7.1	7.1	7.1
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	

## Water Quality Monitoring Results at SR3 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampl	ling	Tempera	ature (°C)	p	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ved Oxyger	(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*
23-Sep-16	Sunny	Moderate	-		Surface	-	-	-	-	-	-	-	-	-	-	-	6.2	-	-		-	-	
				1.4	Middle	0.7	28.6 28.6	28.6	8.5 8.5	8.5	25.4 25.1	25.2	92.7 95.2	94.0	6.2 6.4	6.3	6.3	5.2 5.3	5.3	5.3	8.6 7.7	8.2	8.2
					Bottom	-	-	-	-	-	-	-	-	-		-	-	-	-		-	-	
26-Sep-16	Sunny	Moderate	-		Surface	-	-	-	-	-	-	-	-	-	-	-	5.9	-	-		-	-	1
				1.6	Middle	0.8	28.8 28.8	28.8	8.4 8.4	8.4	28.5 28.5	28.5	88.7 88.8	88.8	5.9 5.9	5.9	5.5	2.2 2.3	2.3	2.3	3.6 3.0	3.3	3.3
					Bottom	-	-	-	-	-		-		-		-	-	-	-		-	-	
28-Sep-16	Fine	Rough	-		Surface	-	-	-	-	-	-	-	-	-		-	5.8	-	-		-	-	
				1.4	Middle	0.7	29.0 29.0	29.0	8.4 8.4	8.4	26.9 26.9	26.9	87.1 87.2	87.2	5.8 5.8	5.8	5.0	10.5 10.0	10.3	10.3	17.8 19.7	18.8	18.8
					Bottom	-	-	-	-	-	-	-	-	-		-	-	-	-		-	-	
30-Sep-16	Fine	Moderate	-		Surface	-	-	-	-	-	-	-	-	-	-	-	6.2	-	-		-	-	1
				1.6	Middle	0.8	27.7 27.7	27.7	8.4 8.4	8.4	26.1 26.2	26.2	92.6 89.9	91.3	6.3 6.1	6.2	0.2	11.6 11.1	11.4	11.4	18.4 18.7	18.6	18.6
					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

## Water Quality Monitoring Results at SR3 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	þ	Η	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	/ed Oxyger	i (mg/L)	٦	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-Sep-16	Fine	Moderate	-		Surface	-	-	-		-	-	-		-	-	-	5.4		-		-	-	
				1.4	Middle	0.7	28.1 28.1	28.1	8.2 8.2	8.2	26.1 26.0	26.1	79.3 79.6	79.5	5.4 5.5	5.4	5.4	7.5 7.3	7.4	7.4	10.9 12.3	11.6	11.6
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
5-Sep-16	Fine	Moderate	-		Surface	-	-	-	-	-	-	-	-	-	-	-	5.0	-	-		-	-	
				1.4	Middle	0.7	28.4 28.4	28.4	8.2 8.2	8.2	26.0 26.0	26.0	86.8 86.7	86.8	5.9 5.9	5.9	5.9	6.1 5.9	6.0	6.0	8.9 7.9	8.4	8.4
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
7-Sep-16	Rainy	Moderate	-		Surface	-	-	-	-	-	-	-	-	-	-	-	5.0	-	-		-	-	
				1.4	Middle	0.7	28.0 28.0	28.0	8.2 8.2	8.2	25.3 25.5	25.4	85.0 84.9	85.0	5.9 5.8	5.8	5.8	4.2 4.2	4.2	4.2	7.2 7.8	7.5	7.5
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
9-Sep-16 ^	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	-	-	-		-	-	-	-	-	-	-	-	-	-	=	-	-	-
					Bottom	-	-	-		-	-	-		-	-	-	-	-	-		-	-	
12-Sep-16	Sunny	Moderate	-		Surface	-	-	-	-	-	-	-	-	-	-	-	6.6	-	-		-	-	
				1.4	Middle	0.7	30.4 30.4	30.4	8.5 8.5	8.5	16.6 16.5	16.6	96.4 96.7	96.6	6.6 6.6	6.6	0.0	2.8 2.9	2.9	2.9	4.2 3.3	3.8	3.8
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
14-Sep-16	Sunny	Moderate	-		Surface	-	-	-	-	-	-	-	-	-	-	-	6.9	-	-		-	-	
				1.6	Middle	0.8	29.2 29.3	29.2	8.5 8.5	8.5	20.7 20.3	20.5	101.1 100.7	100.9	6.9 6.9	6.9	0.9	7.0 7.1	7.1	7.1	14.3 14.8	14.6	14.6
					Bottom	-	-	-		-	-	-		-	-	-	-	-	-		-	-	
16-Sep-16	Fine	Moderate	-		Surface	-	-	-	-	-	-	-	-	-	-	-	7.2	-	-		-	-	
				1.6	Middle	0.8	28.9 29.1	29.0	8.5 8.5	8.5	24.6 24.5	24.5	105.0 108.3	106.7	7.1 7.3	7.2	1.2	4.9 4.7	4.8	4.8	4.0 4.7	4.4	4.4
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
19-Sep-16	Sunny	Moderate	-		Surface	-	-	-	-	-	-	-	-	-	-	-	5.3	-	-		-	-	
				1.8	Middle	0.9	28.5 28.5	28.5	8.3 8.3	8.3	27.4 27.4	27.4	67.7 67.7	67.7	5.3 5.3	5.3	0.0	7.5 7.6	7.6	7.6	11.4 12.7	12.1	12.1
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
21-Sep-16	Sunny	Moderate	-		Surface	-	-	-	-	-	-	-	-	-	-	-	5.5	-	-		-	-	
				1.6	Middle	0.8	28.3 28.3	28.3	8.3 8.3	8.3	27.1 27.1	27.1	82.2 82.2	82.2	5.5 5.5	5.5	0.0	6.7 6.5	6.6	6.6	10.5 11.8	11.2	11.2
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	

## Water Quality Monitoring Results at SR3 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Sampli	ing	Temper	ature (°C)	F	н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	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-Sep-16	Sunny	Moderate	-		Surface	-	-	-	-	-	-	-	-	-	-	-	5.7	-	-	1	-	-	
				1.6	Middle	0.8	28.6 28.6	28.6	8.3 8.3	8.3	27.9 27.9	27.9	86.3 86.3	86.3	5.7 5.7	5.7	5.7	5.7 5.7	5.7	5.7	12.6 12.7	12.7	12.7
					Bottom	-		-		-	-	-	-	-		-	-	-	-	L	-	-	
26-Sep-16	Sunny	Moderate	-		Surface	-	-	-	-	-	-	-	-	-	-	-	6.3	-	-		-	-	
				1.6	Middle	0.8	29.4 29.4	29.4	8.4 8.4	8.4	24.5 24.7	24.6	94.2 93.9	94.1	6.3 6.3	6.3	0.0	5.2 4.7	5.0	5.0	7.3 7.6	7.5	7.5
					Bottom	-	-	-		-	-	-	-	-		-	-	-	-	L	-	-	
28-Sep-16	Fine	Rough	-		Surface	-	-	-	-	-	-	-	-	-	-	-	6.2	-	-		-	-	
				1.4	Middle	0.7	29.1 29.1	29.1	8.5 8.5	8.5	24.4 24.1	24.3	91.4 92.6	92.0	6.1 6.2	6.2	0.2	7.9 7.7	7.8	7.8	17.0 15.2	16.1	16.1
					Bottom	-	-	-		-	-	-	-	-		-	-	-	-	L	-	-	
30-Sep-16	Cloudy	Moderate	-		Surface	-	-	-	-	-	-	-	-	-	-	-	5.7	-	-		-	-	
				1.6	Middle	0.8	27.7 27.7	27.7	8.3 8.3	8.3	26.3 26.3	26.3	84.5 84.5	84.5	5.8 5.7	5.7	5.7	10.6 10.5	10.6	10.6	10.1 10.7	10.4	10.4
					Bottom	-	-	-		-	-	-	-	-	-	-	-	-	-	L	-	-	

#### 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.

^ The scheduled water quality monitoring during mid-flood tide on 9 September 2016 was cancelled due to thunderstorm Signal hoisted 3 hours before the scheduled monitoring time.

Remarks:

\* DA: Depth-Averaged

## Water Quality Monitoring Results at SR4(N) - 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)	٦	Furbidity(NT	J)	Susp	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-Sep-16	Fine	Moderate	12:57		Surface	1.0	28.3 28.2	28.3	8.3 8.3	8.3	26.5 26.5	26.5	85.2 83.0	84.1	5.8 5.7	5.7		5.4 5.2	5.3		9.1 7.2	8.2	
				3.8	Middle	-	-	-	-	-	-	-	-	-	-	-	5.7	-	-	5.3	-	-	8.5
					Bottom	2.8	28.2 28.1	28.2	8.3 8.3	8.3	26.5 26.7	26.6	84.0 88.2	86.1	5.7 6.0	5.9	5.9	5.2 5.3	5.3		9.1 8.5	8.8	
5-Sep-16	Fine	Moderate	14:10		Surface	1.0	28.4 28.4	28.4	8.1 8.1	8.1	26.0 26.0	26.0	87.2 90.7	89.0	5.9 6.2	6.0		7.1	7.3		6.3 5.8	6.1	
				3.7	Middle	-	-	-	-	-	-	-	-	-	-	-	6.0	-	-	7.4	-	-	5.9
					Bottom	2.7	28.4 28.3	28.3	8.1 8.1	8.1	26.1 26.4	26.3	88.7 97.5	93.1	6.0 6.6	6.3	6.3	7.5 7.3	7.4		5.8 5.6	5.7	
7-Sep-16	Cloudy	Moderate	15:20		Surface	1.0	28.1 28.1	28.1	8.2 8.2	8.2	24.6 24.7	24.7	91.8 89.6	90.7	6.3 6.2	6.2		5.3 5.4	5.4		8.0 8.5	8.3	
				3.7	Middle	-	-	-	-	-	-	-	-	-	-	-	6.2	-	-	5.4	-	-	8.4
					Bottom	2.7	28.1 28.0	28.0	8.2 8.2	8.2	24.9 25.3	25.1	89.2 89.7	89.5	6.1 6.2	6.2	6.2	5.3 5.3	5.3		8.3 8.6	8.5	
9-Sep-16	Fine	Moderate	17:27		Surface	1.0	28.4 28.4	28.4	8.0 8.1	8.1	20.1 19.5	19.8	84.6 85.9	85.3	5.9 6.0	5.9		10.2 10.2	10.2		3.5 3.9	3.7	
				4.0	Middle	-	-	-	-	-	-	-	-	-	-	-	5.9	-	-	10.2	-	-	4.7
					Bottom	3.0	28.4 28.4	28.4	8.0 8.0	8.0	20.4 20.1	20.3	81.9 83.7	82.8	5.7 5.8	5.7	5.7	10.1 10.2	10.2		5.8 5.3	5.6	
12-Sep-16	Sunny	Moderate	10:03		Surface	1.0	28.7 28.7	28.7	8.2 8.2	8.2	20.6 20.6	20.6	82.2 82.7	82.5	5.8 5.8	5.8	5.8	8.4 8.5	8.5		3.1 2.8	3.0	
				3.6	Middle	-	-	-	-	-	-	-		-	-	-	5.8	-	-	8.5	-	-	3.4
					Bottom	2.6	28.6 28.4	28.5	8.2 8.1	8.1	23.4 23.8	23.6	82.4 81.4	81.9	5.7 5.7	5.7	5.7	8.6 8.4	8.5		3.4 3.9	3.7	
14-Sep-16	Sunny	Moderate	11:36		Surface	1.0	28.9 28.9	28.9	8.3 8.3	8.3	24.2 24.1	24.2	80.5 79.2	79.9	5.4 5.3	5.4	5.4	6.6 6.4	6.5		4.1 3.8	4.0	
				3.7	Middle	-	-	-	-	-	-	-		-	-	-	5.4	-	-	6.6	-	-	4.4
					Bottom	2.7	28.8 28.9	28.9	8.3 8.3	8.3	24.7 24.2	24.4	80.1 80.0	80.1	5.4 5.4	5.4	5.4	6.6 6.6	6.6		4.4 4.9	4.7	
16-Sep-16	Sunny	Moderate	12:58		Surface	1.0	28.2 28.1	28.2	8.4 8.4	8.4	25.7 25.8	25.8	81.3 79.6	80.5	5.6 5.4	5.5	5.5	6.2 6.4	6.3		4.8 5.3	5.1	
				3.7	Middle	-	-	-	-	-	-	-	-	-	-	-	5.5	-	-	6.4	-	-	5.8
					Bottom	2.7	27.6 27.8	27.7	8.4 8.3	8.4	27.5 27.5	27.5	80.1 79.0	79.6	5.5 5.4	5.4	5.4	6.5 6.5	6.5		7.2 5.5	6.4	
19-Sep-16	Sunny	Moderate	13:26		Surface	1.0	28.8 28.5	28.7	8.4 8.4	8.4	26.2 26.3	26.3	73.6 77.4	75.5	5.7 6.0	5.8	5.8	6.7 6.8	6.8		6.5 5.6	6.1	
				3.3	Middle	-	-	-	-	-	-	-	-	-	-	-	0.0	-	-	6.8	-	-	7.9
					Bottom	2.3	28.8 28.6	28.7	8.4 8.4	8.4	26.2 26.3	26.3	72.4 75.0	73.7	5.6 5.8	5.7	5.7	6.7 6.8	6.8		9.8 9.4	9.6	
21-Sep-16	Sunny	Moderate	15:36		Surface	1.0	28.9 28.8	28.9	8.3 8.3	8.3	26.7 26.7	26.7	80.5 82.0	81.3	5.4 5.5	5.4	5.4	11.7 11.6	11.7		10.7 10.6	10.7	
				3.9	Middle	-	-	-	-	-	-	-	-	-	-	-	0	-	-	11.6	-	-	10.4
					Bottom	2.9	28.7 28.8	28.7	8.3 8.3	8.3	26.8 26.8	26.8	78.3 79.1	78.7	5.2 5.3	5.2	5.2	11.5 11.5	11.5		9.5 10.4	10.0	

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

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	F	Η	Salini	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-Sep-16	Sunny	Moderate	17:31		Surface	1.0	28.5 28.5	28.5	8.4 8.4	8.4	27.0 26.9	27.0	89.1 94.9	92.0	6.0 6.4	6.2	6.2	7.7 8.1	7.9		8.0 9.2	8.6	
				3.8	Middle	-	-	-	-	-	-	-	-	-	-	-	0.2	-	-	8.0	-	-	9.0
					Bottom	2.8	28.5 28.5	28.5	8.4 8.4	8.4	26.9 27.0	26.9	90.1 87.8	89.0	6.0 5.9	5.9	5.9	8.1 7.9	8.0		9.5 9.2	9.4	
26-Sep-16	Sunny	Moderate	10:02		Surface	1.0	28.8 28.8	28.8	8.4 8.4	8.4	28.1 28.2	28.2	87.9 87.2	87.6	5.8 5.8	5.8	5.8	6.6 6.6	6.6		4.6 3.8	4.2	
				3.7	Middle	-	-	-		-		-	-	-	-	-	0.0	-	-	7.6	-	-	3.8
					Bottom	2.7	28.8 28.9	28.9	8.3 8.3	8.3	28.3 28.6	28.5	87.8 87.2	87.5	5.8 5.7	5.8	5.8	8.7 8.3	8.5		3.0 3.7	3.4	
28-Sep-16	Fine	Rough	11:45		Surface	1.0	29.2 29.1	29.2	8.4 8.4	8.4	26.6 26.6	26.6	89.8 90.3	90.1	6.0 6.0	6.0	6.0	4.8 4.8	4.8		10.4 8.9	9.7	
				3.7	Middle	-	-	-		-		-		-		-	0.0	-	-	4.9	-	-	10.2
					Bottom	2.7	29.2 29.2	29.2	8.4 8.4	8.4	26.7 26.8	26.8	90.4 90.1	90.3	6.0 6.0	6.0	6.0	4.8 4.9	4.9		10.0 11.2	10.6	
30-Sep-16	Fine	Moderate	11:54		Surface	1.0	27.7 27.7	27.7	8.4 8.4	8.4	26.1 26.2	26.2	91.9 89.8	90.9	6.3 6.1	6.2	6.2	4.8 4.8	4.8		6.1 6.7	6.4	
				3.8	Middle	-	-	-		-	-	-	-	-	-	-	0.2	-	-	4.9	-	-	8.6
					Bottom	2.8	27.7 27.7	27.7	8.4 8.4	8.4	26.2 26.2	26.2	90.8 95.2	93.0	6.2 6.5	6.3	6.3	4.8 4.9	4.9		11.6 10.0	10.8	

#### 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

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

Date	Weather	Sea	Sampling	Water	Samp	oling	Tempera	ature (°C)	p	H	Salini	ity (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	T T	urbidity(NT	U)	Suspe	nded Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	ı (m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
2-Sep-16	Fine	Moderate	07:23		Surface	1.0	28.1 28.1	28.1	8.2 8.2	8.2	25.5 25.6	25.5	84.9 84.8	84.9	5.8 5.8	5.8	5.8	7.6 7.6	7.6		11.0 11.6	11.3	
				3.7	Middle	-	-	-	-	-	-	-	-	-	-	-	5.0	-	-	7.6	-	-	11.6
					Bottom	2.7	28.1 28.1	28.1	8.2 8.2	8.2	25.7 25.9	25.8	84.6 84.7	84.7	5.8 5.8	5.8	5.8	7.5 7.5	7.5		11.5 12.1	11.8	
5-Sep-16	Fine	Moderate	09:23		Surface	1.0	28.2 28.2	28.2	8.2 8.2	8.2	26.2 26.1	26.1	84.9 85.0	85.0	5.8 5.8	5.8	5.8	6.6 6.5	6.6		5.3 5.5	5.4	
				3.9	Middle	-	-	-	-	-	-	-	-	-	-	-	5.0	-	-	6.5	-	-	5.6
					Bottom	2.9	28.2 28.2	28.2	8.2 8.2	8.2	26.2 26.5	26.3	85.1 85.5	85.3	5.8 5.8	5.8	5.8	6.2 6.5	6.4		5.5 6.1	5.8	
7-Sep-16	Rainy	Moderate	10:48		Surface	1.0	28.0 28.0	28.0	8.2 8.2	8.2	24.8 24.8	24.8	81.1 81.0	81.1	5.6 5.6	5.6	EG	10.4 10.1	10.3		10.8 9.9	10.4	
				3.7	Middle	-	-	-	-	-	-	-	-	-	-	-	5.6	-	-	10.4	-	-	11.2
					Bottom	2.7	28.0 28.0	28.0	8.2 8.2	8.2	24.8 25.0	24.9	81.1 81.0	81.1	5.6 5.6	5.6	5.6	10.5 10.2	10.4		11.6 12.1	11.9	
9-Sep-16 ^	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
				-	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Bottom	-	-	-	-	-		-		-		-	-	-	-		-	-	
12-Sep-16	Sunny	Moderate	16:29		Surface	1.0	29.6 29.5	29.5	8.4 8.4	8.4	18.4 18.5	18.5	95.1 95.3	95.2	6.5 6.6	6.6	6.6	2.7 2.8	2.8		2.7 2.9	2.8	
				3.7	Middle	-	-	-	-	-	-	-	-	-	-	-	0.0	-	-	2.8	-	-	2.7
					Bottom	2.7	29.2 28.3	28.7	8.4 8.3	8.4	22.5 23.5	23.0	95.5 94.7	95.1	6.5 6.5	6.5	6.5	2.6 2.8	2.7		2.4 2.6	2.5	
14-Sep-16	Sunny	Moderate	17:32		Surface	1.0	29.2 29.2	29.2	8.5 8.5	8.5	20.8 20.8	20.8	120.1 120.2	120.2	8.2 8.2	8.2	8.2	9.9 9.5	9.7		3.7 3.9	3.8	
				3.7	Middle	-	-	-		-		-		-	-	-	0.2	-	-	9.7	-	-	3.7
					Bottom	2.7	29.2 29.2	29.2	8.5 8.5	8.5	20.8 20.9	20.9	120.3 121.0	120.7	8.2 8.3	8.2	8.2	9.8 9.6	9.7		3.4 3.6	3.5	
16-Sep-16	Fine	Moderate	18:24		Surface	1.0	28.4 28.2	28.3	8.4 8.4	8.4	25.2 25.4	25.3	76.6 75.6	76.1	5.2 5.1	5.2	5.2	5.9 6.1	6.0		6.2 5.4	5.8	
				3.8	Middle	-	-	-	-	-	-	-	-	-	-	-	5.2	-	-	6.1	-	-	7.0
					Bottom	2.8	27.9 28.2	28.1	8.4 8.4	8.4	26.8 26.6	26.7	77.4 76.2	76.8	5.2 5.1	5.2	5.2	6.3 6.0	6.2		9.2 7.2	8.2	
19-Sep-16	Sunny	Moderate	08:46		Surface	1.0	28.3 28.4	28.3	8.3 8.3	8.3	27.5 27.5	27.5	67.0 66.9	67.0	5.3 5.3	5.3	5.3	8.6 8.6	8.6		7.3 6.4	6.9	
				3.4	Middle	-	-	-		-		-		-		-	0.0	-	-	8.7	-	-	8.2
					Bottom	2.4	28.4 28.3	28.4	8.3 8.3	8.3	27.5 27.5	27.5	66.9 66.9	66.9	5.3 5.3	5.3	5.3	8.7 8.8	8.8		9.5 9.4	9.5	
21-Sep-16	Sunny	Moderate	10:37		Surface	1.0	28.4 28.4	28.4	8.3 8.3	8.3	27.2 27.2	27.2	80.2 80.4	80.3	5.4 5.4	5.4	5.4	7.6 7.7	7.7		9.2 8.9	9.1	
				3.6	Middle	-	-	-	-	-	-	-	-	-	-	-	5.4	-	-	7.7	-	-	9.0
					Bottom	2.6	28.3 28.4	28.4	8.3 8.3	8.3	27.2 27.2	27.2	80.2 80.3	80.3	5.4 5.4	5.4	5.4	7.5 7.8	7.7		9.1 8.6	8.9	

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

Date	Weather	Sea	Sampling	Water	Sampl	ing	Tempera	ature (°C)	p	Н	Salini	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-Sep-16	Sunny	Moderate	13:10		Surface	1.0	28.5 28.5	28.5	8.3 8.3	8.3	27.6 27.6	27.6	83.0 82.9	83.0	5.5 5.5	5.5	5.5	6.8 6.8	6.8		6.0 6.3	6.2	
				3.8	Middle		-	-	-	-	-	-	-	-	-	-	5.5	-	-	6.9	-	-	6.7
					Bottom	2.8	28.5 28.4	28.4	8.3 8.3	8.3	27.7 27.8	27.8	82.9 82.8	82.9	5.5 5.5	5.5	5.5	6.9 6.9	6.9		6.4 7.9	7.2	
26-Sep-16	Sunny	Moderate	15:58		Surface	1.0	29.3 29.3	29.3	8.4 8.4	8.4	26.3 26.3	26.3	90.0 90.6	90.3	6.0 6.0	6.0	6.0	11.8 11.2	11.5		10.6 10.3	10.5	
				3.6	Middle	-	-	-		-	-	-	-	-	-	-	0.0	-	-	13.2	-	-	11.1
					Bottom	2.6	29.3 29.3	29.3	8.4 8.4	8.4	26.9 27.0	26.9	91.4 90.2	90.8	6.0 5.9	6.0	6.0	14.5 15.1	14.8		11.9 11.2	11.6	
28-Sep-16	Fine	Rough	17:19		Surface	1.0	29.1 29.1	29.1	8.4 8.4	8.4	25.7 25.7	25.7	95.6 94.3	95.0	6.4 6.3	6.3	6.3	14.8 14.3	14.6		19.1 17.9	18.5	
				3.7	Middle	-		-		-		-		-	-	-	0.0	-	-	14.5	-	-	20.3
					Bottom	2.7	29.1 29.1	29.1	8.4 8.4	8.4	25.8 25.8	25.8	94.0 94.5	94.3	6.3 6.3	6.3	6.3	14.3 14.5	14.4		21.6 22.3	22.0	
30-Sep-16	Cloudy	Moderate	06:41		Surface	1.0	27.9 27.9	27.9	8.4 8.4	8.4	26.6 26.6	26.6	85.2 85.3	85.3	5.8 5.8	5.8	5.8	10.1 9.8	10.0		7.4 9.4	8.4	
				3.8	Middle	-	-	-	• •	-	-	-	-	-	-	-	5.0	-	-	10.1	-	-	8.9
					Bottom	2.8	27.9 27.9	27.9	8.4 8.4	8.4	26.6 26.6	26.6	85.2 85.0	85.1	5.8 5.8	5.8	5.8	10.0 10.2	10.1		9.9 8.8	9.4	

#### 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.

^ The scheduled water quality monitoring during mid-flood tide on 9 September 2016 was cancelled due to thunderstorm Signal hoisted 3 hours before the scheduled monitoring time.

Remarks:

\* DA: Depth-Averaged

## Water Quality Monitoring Results at SR5 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	ŀ	ъН	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ved Oxygen	(mg/L)	Т	urbidity(NTl	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-Sep-16	Fine	Moderate	13:09		Surface	1.0	28.3 28.2	28.3	8.1 8.1	8.1	25.9 26.0	26.0	82.6 82.0	82.3	5.6 5.5	5.6	5.0	12.3 12.1	12.2		13.4 14.1	13.8	1
				5.4	Middle	-	-	-		-		-		-	-	-	5.6	-	-	12.5	-	-	14.0
					Bottom	4.4	28.3 28.1	28.2	8.1 8.1	8.1	26.0 26.3	26.1	80.1 78.5	79.3	5.4 5.3	5.4	5.4	12.7 12.6	12.7		14.2 14.0	14.1	
5-Sep-16	Fine	Moderate	14:47		Surface	1.0	28.2 28.2	28.2	7.7	7.8	26.2 27.5	26.9	77.3 77.6	77.5	5.3 5.3	5.3		7.4 7.2	7.3		5.6 4.6	5.1	
				5.2	Middle	-	-	-	-	-	-	-	-	-	-	-	5.3	-	-	7.5	-	-	5.1
					Bottom	4.2	28.1 28.2	28.2	7.7 7.8	7.8	27.6 25.9	26.7	76.1 76.5	76.3	5.2 5.2	5.2	5.2	7.6 7.5	7.6		5.6 4.4	5.0	
7-Sep-16	Cloudy	Moderate	16:01		Surface	1.0	28.3 28.2	28.3	7.7 7.6	7.6	23.7 24.2	23.9	74.0 76.2	75.1	5.4 5.5	5.4	5.4	8.0 8.0	8.0		7.4 6.7	7.1	
				5.1	Middle	-	-	-		-		-		-	-	-	5.4	-	-	7.9	-	-	7.3
					Bottom	4.1	28.2 28.1	28.1	7.6 7.5	7.6	25.7 25.8	25.7	75.4 74.9	75.2	5.4 5.3	5.4	5.4	7.7 7.6	7.7		6.9 7.8	7.4	
9-Sep-16	Fine	Moderate	17:47		Surface	1.0	28.7 28.5	28.6	8.0 7.9	8.0	16.0 16.3	16.2	85.8 83.0	84.4	6.1 5.9	6.0	6.0	3.2 3.0	3.1		3.0 2.8	2.9	
				5.2	Middle	-	-	-		-		-		-	-	-	0.0	-	-	3.2	-	-	2.8
					Bottom	4.2	28.4 28.4	28.4	7.9 7.9	7.9	21.9 20.9	21.4	84.6 85.0	84.8	5.9 6.0	5.9	5.9	3.0 3.3	3.2		3.2 2.1	2.7	<u> </u>
12-Sep-16	Sunny	Moderate	09:46		Surface	1.0	28.7 28.7	28.7	8.1 8.1	8.1	16.2 16.4	16.3	81.7 81.2	81.5	6.0 6.0	6.0	6.0	3.2 3.2	3.2		2.9 3.1	3.0	
				5.1	Middle	-	-	-	-	-	-	-	-	-	-	-		-	-	3.3	-	-	3.1
					Bottom	4.1	28.5 28.4	28.4	8.0 8.0	8.0	25.3 25.2	25.3	84.7 83.1	83.9	6.0 5.9	5.9	5.9	3.4 3.4	3.4		3.4 2.8	3.1	
14-Sep-16	Sunny	Moderate	11:33		Surface	1.0	29.4 29.4	29.4	8.3 8.3	8.3	12.6 12.8	12.7	118.1 118.0	118.1	8.4 8.4	8.4	8.4	3.0 3.0	3.0		3.9 4.1	4.0	
				5.0	Middle	-	-	-	-	-	-	-	-	-	-	-		-	-	3.1	-	-	4.2
					Bottom	4.0	29.3 29.4	29.3	8.3 8.3	8.3	13.9 13.5	13.7	116.7 117.5	117.1	8.3 8.4	8.3	8.3	3.1 3.0	3.1		4.7 3.8	4.3	<u> </u>
16-Sep-16	Sunny	Moderate	12:53		Surface	1.0	28.8 28.7	28.8	8.2 8.2	8.2	25.6 25.8	25.7	95.5 93.6	94.6	6.6 6.5	6.5	6.5	5.5 5.7	5.6		5.4 5.5	5.5	1
				5.1	Middle	-	-	-	-	-	-	-	-	-	-	-		-	-	5.8	-	-	5.1
10.0 10					Bottom	4.1	28.5 28.6	28.6	8.2 8.2	8.2	26.1 25.9	26.0	92.5 93.9	93.2	6.4 6.5	6.5	6.5	6.0 5.9	6.0		5.2 4.0	4.6	<u> </u>
19-Sep-16	Sunny	Moderate	14:09		Surface	1.0	28.8 28.5	28.7	8.0 8.0	8.0	28.4 28.9	28.6	75.1 75.4	75.3	5.3 5.3	5.3	5.3	8.3 8.4	8.4		8.3 8.4	8.4	l
				5.3	Middle	-	-	-	-	-	-	-		-	-	-		-	-	8.7	-	-	7.7
01.0		Maland	45.47		Bottom	4.3	28.7 28.5	28.6	8.0 8.0	8.0	28.9 28.9	28.9	74.5 74.2	74.4	5.3 5.3	5.3	5.3	8.8 8.9	8.9		7.6 6.1	6.9	<u> </u>
21-Sep-16	Sunny	Moderate	15:47		Surface	1.0	28.4 28.4	28.4	7.9 7.9	7.9	29.2 29.1	29.1	81.0 81.9	81.5	5.5 5.6	5.6	5.6	6.2 5.9	6.1		5.9 7.4	6.7	l
				5.1	Middle	-	-	-	-	-	-	-	-	-	-	-		-	-	7.0	-	-	6.6
					Bottom	4.1	28.2 28.2	28.2	7.9 7.8	7.8	30.3 30.3	30.3	80.5 81.0	80.8	5.5 5.5	5.5	5.5	7.6 8.0	7.8		6.1 6.8	6.5	<u> </u>

## Water Quality Monitoring Results at SR5 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampl	ling	Tempera	ature (°C)	F	Н	Salini	y (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-Sep-16	Sunny	Moderate	17:23		Surface	1.0	28.4 28.5	28.4	8.2 8.2	8.2	22.0 22.5	22.3	84.3 92.8	88.6	5.7 6.3	6.0	6.0	4.6 4.6	4.6		6.2 6.0	6.1	
				5.1	Middle	-	-	-	-	-	-	-	-	-	-	-	0.0	-	-	4.7	-	-	6.4
					Bottom	4.1	28.2 28.3	28.2	8.2 8.2	8.2	25.5 24.3	24.9	87.2 82.5	84.9	6.0 5.7	5.8	5.8	4.8 4.6	4.7		6.5 6.6	6.6	1
26-Sep-16	Sunny	Moderate	09:30		Surface	1.0	29.1 29.1	29.1	8.1 8.0	8.1	25.4 25.4	25.4	87.6 87.4	87.5	5.9 5.8	5.8	5.8	1.9 1.9	1.9		3.0 2.5	2.8	
				5.3	Middle	-	-	-	-	-	-	-	-	-	-	-	6.0	-	-	2.0	-	-	3.5
					Bottom	4.3	29.0 28.9	29.0	8.0 8.0	8.0	25.5 25.8	25.7	86.5 86.4	86.5	5.8 5.8	5.8	5.8	1.9 2.0	2.0		4.9 3.5	4.2	
28-Sep-16	Fine	Rough	11:35		Surface	1.0	29.0 29.0	29.0	8.2 8.2	8.2	27.2 27.1	27.1	89.6 90.8	90.2	5.9 6.0	6.0	6.0	3.9 4.1	4.0		6.7 7.9	7.3	
				5.1	Middle	-	-	-	-	-		-		-		-	0.0	-	-	4.2	-	-	7.2
					Bottom	4.1	29.0 29.0	29.0	8.2 8.2	8.2	27.2 27.2	27.2	93.3 90.5	91.9	6.2 6.0	6.1	6.1	4.4 4.3	4.4		7.3 6.6	7.0	
30-Sep-16	Fine	Moderate	12:26		Surface	1.0	28.0 28.0	28.0	8.2 8.2	8.2	28.5 27.8	28.2	89.7 90.3	90.0	6.0 6.0	6.0	6.0	6.2 6.3	6.3		9.4 7.7	8.6	
				5.3	Middle	-	-	-	-	-	-	-	-	-	-	-	0.0	-	-	6.5	-	-	8.4
					Bottom	4.3	28.0 27.9	28.0	8.2 8.2	8.2	28.5 29.0	28.7	87.6 85.7	86.7	5.9 5.8	5.8	5.8	6.5 6.6	6.6		8.7 7.6	8.2	

#### 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

## Water Quality Monitoring Results at SR5 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	Η	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ved Oxyger	ı (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-Sep-16	Fine	Moderate	07:21		Surface	1.0	28.0 28.0	28.0	8.0 8.0	8.0	26.4 26.3	26.3	77.9 77.6	77.8	5.4 5.4	5.4	5.4	12.1 12.2	12.2		16.7 17.0	16.9	
				5.5	Middle	-	-	-	-	-	-	-	-	-	-	-	5.4	-	-	12.4	-	-	16.4
					Bottom	4.5	28.0 28.0	28.0	7.9 8.0	8.0	26.6 26.5	26.5	76.7 76.2	76.5	5.3 5.3	5.3	5.3	12.6 12.4	12.5		14.9 16.6	15.8	
5-Sep-16	Fine	Moderate	09:08		Surface	1.0	28.3 28.2	28.2	7.9 8.0	8.0	25.2 25.4	25.3	77.3 77.4	77.4	5.3 5.3	5.3	5.0	8.1 8.2	8.2		5.2 5.9	5.6	
				5.2	Middle	-	-	-	-	-		-		-	-	-	5.3	-	-	8.4	-	-	5.9
					Bottom	4.2	28.2 28.1	28.2	7.9 7.9	7.9	27.2 26.8	27.0	75.9 76.6	76.3	5.2 5.3	5.2	5.2	8.6 8.5	8.6		5.4 6.8	6.1	
7-Sep-16	Rainy	Moderate	10:58		Surface	1.0	28.2 28.2	28.2	7.9 7.9	7.9	23.4 23.8	23.6	80.7 77.5	79.1	5.8 5.6	5.7		3.5 3.1	3.3		5.2 5.2	5.2	
				4.8	Middle	-	-	-	-	-	-	-	-	-	-	-	5.7	-	-	4.8	-	-	5.4
					Bottom	3.8	28.0 28.1	28.1	7.8 7.8	7.8	26.4 25.9	26.2	78.1 77.7	77.9	5.6 5.6	5.6	5.6	6.2 6.3	6.3		5.6 5.6	5.6	
9-Sep-16 ^	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	-	-	-	-	-		-		-	-	-	-	-	-	=	-	-	-
					Bottom	-	-	-	-	-		-		-	-	-	-	-	-		-	-	
12-Sep-16	Sunny	Moderate	16:44		Surface	1.0	28.8 28.6	28.7	7.9 7.9	7.9	21.5 21.5	21.5	80.1 78.8	79.5	5.7 5.7	5.7	5.7	4.5 4.7	4.6		3.7 3.3	3.5	
				5.2	Middle	-	-	-	-	-		-		-	-	-	5.7	-	-	5.0	-	-	3.6
					Bottom	4.2	27.8 28.4	28.1	7.8 7.9	7.9	29.4 29.0	29.2	83.6 79.8	81.7	5.8 5.5	5.7	5.7	5.3 5.5	5.4		3.9 3.4	3.7	
14-Sep-16	Sunny	Moderate	17:37		Surface	1.0	29.0 29.0	29.0	8.3 8.3	8.3	14.5 14.7	14.6	98.2 98.5	98.4	7.0 7.0	7.0	7.0	5.2 5.2	5.2		4.7 4.3	4.5	
				5.1	Middle	-	-	-	-	-	-	-	-	-	-	-	7.0	-	-	5.3	-	-	4.6
					Bottom	4.1	28.9 28.9	28.9	8.3 8.3	8.3	16.7 16.9	16.8	97.7 98.4	98.1	6.9 6.9	6.9	6.9	5.2 5.5	5.4		4.9 4.4	4.7	
16-Sep-16	Fine	Moderate	18:47		Surface	1.0	28.4 28.4	28.4	8.2 8.2	8.2	23.1 24.0	23.5	88.1 90.3	89.2	6.2 6.3	6.3	6.3	5.2 5.2	5.2		4.7 5.3	5.0	
				5.1	Middle	-	-	-	-	-	-	-	-	-	-	-	0.5	-	-	5.4	-	-	5.2
					Bottom	4.1	28.3 28.3	28.3	8.2 8.2	8.2	25.0 23.4	24.2	91.3 87.7	89.5	6.4 6.2	6.3	6.3	5.6 5.3	5.5		5.3 5.5	5.4	
19-Sep-16	Sunny	Moderate	08:38		Surface	1.0	28.3 28.3	28.3	8.0 8.0	8.0	29.2 29.2	29.2	77.3 77.4	77.4	5.5 5.5	5.5	5.5	24.6 24.5	24.6		23.4 24.0	23.7	
				5.3	Middle	-	-	-	-	-	-	-		-	-	-	5.5	-	-	24.7	-	-	23.9
					Bottom	4.3	28.3 28.3	28.3	8.0 8.0	8.0	29.3 29.3	29.3	76.2 76.5	76.4	5.4 5.4	5.4	5.4	24.7 24.8	24.8		23.3 24.8	24.1	
21-Sep-16	Sunny	Moderate	10:44		Surface	1.0	28.2 28.3	28.3	8.0 8.0	8.0	30.0 29.9	30.0	78.5 78.1	78.3	5.4 5.3	5.4	5.4	11.7 12.2	12.0		14.0 13.8	13.9	
				4.8	Middle	-	-	-	-	-	-	-	-	-	-	-	5.7	-	-	12.5	-	-	15.1
					Bottom	3.8	28.2 28.2	28.2	8.0 8.0	8.0	30.0 30.0	30.0	78.7 77.5	78.1	5.4 5.3	5.3	5.3	12.7 13.3	13.0		15.5 16.9	16.2	

## Water Quality Monitoring Results at SR5 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Sampl	ing	Tempera	ature (°C)	p	H	Salinit	y (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-Sep-16	Sunny	Moderate	13:01		Surface	1.0	28.4 28.4	28.4	8.2 8.2	8.2	20.5 21.4	20.9	83.4 82.4	82.9	5.8 5.7	5.7	5.7	5.7 5.7	5.7		6.0 6.7	6.4	
				5.0	Middle		-	-	-	-	-	-	-	-	-	-	5.7	-	-	5.8	-	-	7.1
					Bottom	4.0	28.3 28.3	28.3	8.2 8.2	8.2	22.0 21.8	21.9	81.9 82.9	82.4	5.7 5.7	5.7	5.7	5.7 5.8	5.8		8.0 7.3	7.7	
26-Sep-16	Sunny	Moderate	17:18		Surface	1.0	29.7 29.5	29.6	8.1 8.1	8.1	22.4 22.6	22.5	89.8 90.1	90.0	6.0 6.0	6.0	6.0	2.9 3.0	3.0		4.2 4.6	4.4	
				5.5	Middle		-	-	-	-		-		-		-	0.0	-	-	3.1	-	-	4.8
					Bottom	4.5	29.1 29.3	29.2	8.0 8.0	8.0	26.3 26.1	26.2	88.8 88.9	88.9	6.0 6.0	6.0	6.0	3.1 3.1	3.1		5.4 4.9	5.2	
28-Sep-16	Fine	Rough	17:44		Surface	1.0	29.0 29.0	29.0	8.2 8.2	8.2	26.2 26.4	26.3	92.4 90.9	91.7	6.2 6.1	6.1	6.1	4.1 4.2	4.2		5.1 6.1	5.6	
				5.3	Middle		-	-	-	-		-		-		-	0.1	-	-	4.7	-	-	6.0
					Bottom	4.3	29.0 29.0	29.0	8.2 8.2	8.2	26.9 26.7	26.8	92.1 92.2	92.2	6.1 6.1	6.1	6.1	5.2 5.0	5.1		5.4 7.2	6.3	
30-Sep-16	Cloudy	Moderate	06:42		Surface	1.0	28.0 27.9	28.0	8.2 8.2	8.2	28.9 28.6	28.8	86.4 87.0	86.7	5.8 5.8	5.8	5.8	6.7 6.7	6.7		9.2 9.9	9.6	
				5.4	Middle	-	-	-	-	-	-	-	-	-		-	5.0	-	-	6.8	-	-	9.3
					Bottom	4.4	28.0 28.0	28.0	8.2 8.2	8.2	29.2 29.1	29.1	85.9 85.5	85.7	5.7 5.7	5.7	5.7	6.8 6.9	6.9		9.5 8.3	8.9	

#### 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.

^ The scheduled water quality monitoring during mid-flood tide on 9 September 2016 was cancelled due to thunderstorm Signal hoisted 3 hours before the scheduled monitoring time.

Remarks:

\* DA: Depth-Averaged

## Water Quality Monitoring Results at SR6 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	oling	Tempera	ature (°C)		ъН	Salini	ty (ppt)	DO Satu	iration (%)	Dissol	ved Oxygen	(mg/L)	Т	Turbidity(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*
2-Sep-16	Fine	Moderate	12:19		Surface	1.0	28.3 28.3	28.3	8.1 8.1	8.1	25.9 25.9	25.9	80.3 79.7	80.0	5.4 5.4	5.4	5.4	10.4 10.5	10.5		15.4 14.3	14.9	
				4.2	Middle	-	-	-	-	-	-	-	-	-	-	-	5.4	-	-	10.7	-	-	15.3
					Bottom	3.2	28.2 28.0	28.1	8.1 8.1	8.1	26.3 26.6	26.4	79.4 78.8	79.1	5.4 5.3	5.3	5.3	10.7 10.8	10.8		16.3 14.8	15.6	
5-Sep-16	Fine	Moderate	13:51		Surface	1.0	28.3 28.3	28.3	7.7 7.8	7.7	25.3 25.2	25.2	80.6 80.5	80.6	5.5 5.5	5.5		7.3 7.2	7.3		7.6 7.5	7.6	
				4.3	Middle	-	-	-	-	-	-	-	-	-	-	-	5.5	-	-	7.4	-	-	8.0
					Bottom	3.3	28.2 28.1	28.2	7.7 7.7	7.7	27.6 27.6	27.6	79.7 80.2	80.0	5.5 5.5	5.5	5.5	7.4 7.4	7.4		8.3 8.4	8.4	
7-Sep-16	Cloudy	Moderate	15:06		Surface	1.0	28.3 28.4	28.4	7.7 7.7	7.7	22.0 22.1	22.0	80.7 81.9	81.3	5.9 5.9	5.9	5.9	5.0 5.3	5.2		5.6 5.3	5.5	
				4.2	Middle	-	-	-	-	-		-	-	-	-	-	5.9	-	-	5.3	-	-	5.7
					Bottom	3.2	28.3 28.3	28.3	7.7 7.6	7.6	22.3 22.3	22.3	81.2 80.7	81.0	5.9 5.9	5.9	5.9	5.3 5.2	5.3		6.0 5.8	5.9	
9-Sep-16	Fine	Moderate	16:55		Surface	1.0	28.6 28.6	28.6	7.9 7.9	7.9	15.3 14.6	15.0	82.6 82.9	82.8	5.9 6.0	5.9	5.9	3.1 3.2	3.2		2.5 3.2	2.9	
				4.2	Middle	-	-	-	-	-	-	-	-	-	-	-	5.5	-	-	3.2	-	-	2.8
					Bottom	3.2	28.5 28.5	28.5	7.8 7.8	7.8	20.1 19.9	20.0	82.6 82.3	82.5	5.8 5.8	5.8	5.8	3.1 3.0	3.1		2.8 2.4	2.6	I
12-Sep-16	Sunny	Moderate	10:40		Surface	1.0	29.2 29.1	29.2	8.1 8.1	8.1	16.4 16.5	16.5	91.9 90.4	91.2	6.7 6.6	6.6	6.6	2.3 2.2	2.3		2.9 2.8	2.9	
				3.9	Middle	-	-	-	-	-		-		-	-	-	0.0	-	-	2.2	-	-	2.7
					Bottom	2.9	29.0 28.8	28.9	8.0 8.0	8.0	19.0 19.3	19.2	90.7 88.7	89.7	6.5 6.4	6.4	6.4	2.2 2.0	2.1		2.6 2.2	2.4	
14-Sep-16	Sunny	Moderate	12:18		Surface	1.0	29.2 29.2	29.2	8.2 8.2	8.2	11.5 11.4	11.4	99.5 100.0	99.8	7.2 7.2	7.2	7.2	2.9 2.8	2.9		6.4 4.9	5.7	
				5.0	Middle	-	-	-	-	-		-		-	-	-	1.2	-	-	3.0	-	-	5.7
					Bottom	4.0	29.2 29.2	29.2	8.2 8.2	8.2	11.4 11.7	11.5	99.7 99.1	99.4	7.2 7.1	7.2	7.2	2.9 3.0	3.0		6.0 5.3	5.7	
16-Sep-16	Sunny	Moderate	13:46		Surface	1.0	28.5 28.5	28.5	8.2 8.2	8.2	26.6 26.0	26.3	84.0 83.7	83.9	5.8 5.8	5.8	5.8	6.1 6.2	6.2		5.9 7.0	6.5	
				4.2	Middle	-	-	-	-	-	-	-	-	-	-	-	0.0	-	-	6.3	-	-	6.5
					Bottom	3.2	28.5 28.5	28.5	8.2 8.1	8.2	26.2 27.1	26.7	84.6 84.1	84.4	5.9 5.8	5.9	5.9	6.2 6.5	6.4		6.8 6.1	6.5	1
19-Sep-16	Sunny	Moderate	13:12		Surface	1.0	28.9 29.0	28.9	8.1 8.1	8.1	28.8 28.8	28.8	80.5 80.6	80.6	5.7 5.7	5.7	5.7	7.4 7.3	7.4		7.0 6.8	6.9	
				4.5	Middle	-	-	-	-	-	-	-	-	-	-	-	0	-	-	7.5	-	-	7.2
					Bottom	3.5	28.8 28.9	28.9	8.0 8.1	8.0	29.1 28.9	29.0	79.8 80.1	80.0	5.7 5.7	5.7	5.7	7.6 7.5	7.6		6.4 8.4	7.4	l
21-Sep-16	Sunny	Moderate	14:51		Surface	1.0	29.0 29.1	29.0	7.9 7.9	7.9	28.7 28.6	28.6	83.9 84.0	84.0	5.7 5.7	5.7	5.7	5.0 4.8	4.9		4.2 4.9	4.6	
				4.2	Middle	-	-	-	-	-	-	-	-	-	-	-	0	-	-	5.1	-	-	5.9
					Bottom	3.2	28.7 28.5	28.6	7.9 7.9	7.9	29.4 29.7	29.5	83.1 83.0	83.1	5.7 5.7	5.7	5.7	5.0 5.3	5.2		6.6 7.8	7.2	

## Water Quality Monitoring Results at SR6 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampl	ing	Tempera	ature (°C)	F	Н	Salini	y (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-Sep-16	Sunny	Moderate	16:51		Surface	1.0	28.4 28.6	28.5	8.3 8.3	8.3	28.1 27.9	28.0	81.1 83.6	82.4	5.4 5.5	5.5	5.5	4.4 4.3	4.4		5.4 5.4	5.4	
				5.1	Middle	-	-	-	-	-	-	-	-	-	-	-	5.5	-	-	4.5	-	-	6.0
					Bottom	4.1	28.3 28.4	28.4	8.2 8.2	8.2	30.3 30.3	30.3	81.1 82.0	81.6	5.3 5.4	5.4	5.4	4.5 4.4	4.5		6.2 7.0	6.6	I
26-Sep-16	Sunny	Moderate	10:25		Surface	1.0	29.0 29.1	29.0	8.1 8.1	8.1	25.0 24.1	24.6	91.2 88.1	89.7	6.1 5.9	6.0	6.0	1.8 1.7	1.8		5.2 4.5	4.9	
				4.3	Middle	-	-	-	-	-		-		-		-	0.0	-	-	1.9	-	-	4.6
					Bottom	3.3	28.9 28.8	28.8	8.0 8.0	8.0	26.7 26.9	26.8	87.2 85.8	86.5	5.8 5.8	5.8	5.8	1.9 1.9	1.9		4.4 4.0	4.2	
28-Sep-16	Fine	Rough	12:26		Surface	1.0	28.9 28.9	28.9	8.2 8.2	8.2	28.1 28.1	28.1	87.4 87.4	87.4	5.8 5.8	5.8	5.8	3.5 3.3	3.4		8.2 7.3	7.8	1
				4.3	Middle	-	-	-	-	-		-		-		-	5.0	-	-	3.7	-	-	8.0
					Bottom	3.3	28.9 28.9	28.9	8.2 8.2	8.2	28.2 28.2	28.2	87.2 87.3	87.3	5.8 5.8	5.8	5.8	3.9 4.1	4.0		7.6 8.8	8.2	
30-Sep-16	Fine	Moderate	11:22		Surface	1.0	27.9 27.8	27.8	8.3 8.3	8.3	29.1 29.3	29.2	89.3 89.7	89.5	6.0 6.0	6.0	6.0	6.2 6.3	6.3		9.2 10.3	9.8	
				4.5	Middle	-	-	-	-	-		-	-	-	-	-	0.0	-	-	6.4	-	-	9.4
					Bottom	3.5	27.9 27.7	27.8	8.3 8.3	8.3	29.0 29.4	29.2	89.2 89.4	89.3	6.0 6.0	6.0	6.0	6.4 6.5	6.5		9.0 8.9	9.0	

#### 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

## 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	/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-Sep-16	Fine	Moderate	08:12		Surface	1.0	28.0 28.0	28.0	8.0 8.0	8.0	26.1 26.2	26.2	76.6 76.3	76.5	5.3 5.3	5.3		12.4 12.3	12.4		17.8 19.2	18.5	
				4.3	Middle	-	-	-	-	-	-	-	-	-	-	-	5.3	-	-	12.6	-	-	19.5
					Bottom	3.3	28.0 28.0	28.0	8.0 8.0	8.0	26.4 26.3	26.4	75.6 75.4	75.5	5.2 5.2	5.2	5.2	12.9 12.7	12.8		19.5 21.3	20.4	
5-Sep-16	Fine	Moderate	10:01		Surface	1.0	28.4 28.3	28.4	8.0 8.0	8.0	24.5 24.5	24.5	76.1 75.8	76.0	5.2 5.2	5.2		5.8 5.7	5.8		4.3 4.8	4.6	
				4.4	Middle	-	-	-	-	-	-	-	-	-	-	-	5.2	-	-	6.1	-	-	4.3
					Bottom	3.4	28.2 28.2	28.2	8.0 8.0	8.0	26.4 27.0	26.7	75.2 74.8	75.0	5.2 5.1	5.1	5.1	6.2 6.3	6.3		3.9 3.8	3.9	
7-Sep-16	Rainy	Moderate	11:48		Surface	1.0	28.3 28.2	28.2	7.9 7.9 7.9	7.9	21.7 21.5	21.6	78.5 78.3	78.4	5.7 5.7	5.7		4.9 5.3	5.1		3.1 3.9	3.5	
				4.1	Middle	-	-	-	-	-	-	-	-	-	-	-	5.7	-	-	6.1	-	-	3.9
					Bottom	3.1	28.0 28.0	28.0	7.9 7.9	7.9	25.2 25.7	25.5	78.0 77.0	77.5	5.6 5.5	5.6	5.6	7.1 6.8	7.0		3.9 4.7	4.3	
9-Sep-16 ^	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<u>-</u>	-	-	<u> </u>
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
12-Sep-16	Sunny	Moderate	15:51		Surface	1.0	29.5 29.2	29.4	8.0 8.0	8.0	20.3 20.4	20.3	91.0 88.2	89.6	6.4 6.3	6.4	6.4	3.5 3.4	3.5		2.9 3.3	3.1	
				3.7	Middle	-	-	-		-	-	-	-	-	-	-	6.4	-	-	3.5	-	-	2.9
					Bottom	2.7	28.9 28.6	28.7	8.0 8.0	8.0	23.5 23.4	23.4	88.9 87.1	88.0	6.3 6.2	6.2	6.2	3.4 3.3	3.4		2.7 2.7	2.7	
14-Sep-16	Sunny	Moderate	16:54		Surface	1.0	29.1 29.2	29.2	8.3 8.3	8.3	20.6 20.3	20.4	98.5 98.4	98.5	6.8 6.7	6.7	6.7	5.0 5.2	5.1		3.9 4.3	4.1	
				5.0	Middle	-	-	-	-	-	-	-	-	-	-	-	0.7	-	-	5.1	-	-	3.9
					Bottom	4.0	28.8 28.8	28.8	8.2 8.2	8.2	23.7 24.2	23.9	87.2 87.5	87.4	5.9 5.9	5.9	5.9	5.2 5.0	5.1		3.7 3.7	3.7	
16-Sep-16	Fine	Moderate	17:52		Surface	1.0	28.3 28.3	28.3	8.2 8.2	8.2	23.4 23.5	23.4	84.0 83.4	83.7	5.9 5.9	5.9	5.9	5.8 5.4	5.6		5.5 4.9	5.2	
				4.4	Middle	-	-	-	-	-	-	-	-	-	-	-	5.9	-	-	6.0	-	-	6.5
					Bottom	3.4	28.2 28.1	28.2	8.2 8.2	8.2	23.8 24.2	24.0	83.8 83.0	83.4	5.9 5.8	5.9	5.9	6.3 6.3	6.3		6.8 8.5	7.7	
19-Sep-16	Sunny	Moderate	09:32		Surface	1.0	28.3 28.3	28.3	8.1 8.1	8.1	29.3 29.3	29.3	81.1 80.6	80.9	5.8 5.7	5.7	5.7	23.3 23.4	23.4		14.4 14.3	14.4	
				4.5	Middle	-	-	-	-	-	-	-	-	-	-	-	5.7	-	-	23.6	-	-	14.4
					Bottom	3.5	28.3 28.3	28.3	8.1 8.1	8.1	29.4 29.4	29.4	80.4 80.2	80.3	5.7 5.7	5.7	5.7	23.7 23.8	23.8		14.5 14.2	14.4	
21-Sep-16	Sunny	Moderate	11:38		Surface	1.0	28.4 28.4	28.4	8.1 8.1	8.1	26.6 26.8	26.7	81.6 81.1	81.4	5.7 5.6	5.6	5.6	5.3 5.1	5.2		8.2 8.6	8.4	
				4.0	Middle	-	-	-	-	-	-	-	-	-	-	-	5.0	-	-	6.2	-	-	9.0
					Bottom	3.0	28.3 28.2	28.2	8.1 8.0	8.1	27.0 27.6	27.3	80.9 80.7	80.8	5.6 5.6	5.6	5.6	6.9 7.2	7.1	1	9.9 9.2	9.6	

## Water Quality Monitoring Results at SR6 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Sampl	ling	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)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
23-Sep-16	Sunny	Moderate	13:34		Surface	1.0	28.5 28.5	28.5	8.1 8.1	8.1	21.0 20.1	20.5	83.4 82.3	82.9	5.8 5.7	5.8	5.8	6.1 6.0	6.1		3.4 3.5	3.5	
				5.0	Middle		-	-	-	-	-	-	-	-	-	-	5.0	-	-	6.1	-	-	4.2
					Bottom	4.0	28.3 28.3	28.3	8.1 8.1	8.1	20.9 20.8	20.8	82.1 83.3	82.7	5.7 5.8	5.7	5.7	6.0 6.1	6.1		4.7 4.8	4.8	
26-Sep-16	Sunny	Moderate	16:22		Surface	1.0	29.6 29.7	29.7	8.0 8.1	8.0	21.7 21.8	21.7	88.3 88.0	88.2	6.0 5.9	6.0	6.0	3.2 3.2	3.2		4.0 3.7	3.9	
				4.4	Middle	-	-	-	-	-	-	-	-	-	-	-	0.0	-	-	3.3	-	-	3.5
					Bottom	3.4	28.8 29.2	29.0	7.9 8.0	8.0	28.0 26.5	27.2	88.1 87.2	87.7	5.8 5.8	5.8	5.8	3.4 3.3	3.4		2.5 3.6	3.1	
28-Sep-16	Fine	Rough	16:52		Surface	1.0	29.0 29.0	29.0	8.3 8.3	8.3	25.5 25.5	25.5	90.1 90.1	90.1	6.0 6.0	6.0	6.0	4.1 4.2	4.2		4.1 5.2	4.7	
				4.2	Middle	-	-	-	-	-	-	-	-	-		-	0.0	-	-	4.5	-	-	5.7
					Bottom	3.2	29.0 29.0	29.0	8.3 8.3	8.3	25.8 26.0	25.9	90.9 89.9	90.4	6.1 6.0	6.0	6.0	4.6 4.9	4.8		7.6 5.8	6.7	
30-Sep-16	Cloudy	Moderate	07:47		Surface	1.0	27.9 27.9	27.9	8.2 8.2	8.2	29.1 29.1	29.1	89.3 89.5	89.4	6.0 5.9	5.9	5.9	6.2 6.2	6.2		7.6 8.0	7.8	
				4.6	Middle	-	-	-	-	-		-	-	-	-	-	5.5	-	-	6.4	-	-	8.5
					Bottom	3.6	27.9 27.9	27.9	8.2 8.2	8.2	29.1 29.2	29.2	88.7 88.3	88.5	5.9 5.9	5.9	5.9	6.5 6.6	6.6		9.2 9.0	9.1	

#### 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.

^ The scheduled water quality monitoring during mid-flood tide on 9 September 2016 was cancelled due to thunderstorm Signal hoisted 3 hours before the scheduled monitoring time.

Remarks:

\* DA: Depth-Averaged

## Water Quality Monitoring Results at SR7 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Temper	ature (°C)	F	ъН	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Т	urbidity(NTl	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-Sep-16	Fine	Moderate	13:37		Surface	1.0	28.2 28.2	28.2	8.1 8.1	8.1	24.1 23.9	24.0	79.5 79.2	79.4	5.4 5.4	5.4	5.4	7.7 7.8	7.8		12.7 12.1	12.4	
				4.5	Middle	-	-	-	-	-	-	-	-	-	-	-	5.4	-	-	7.9	-	-	12.4
					Bottom	3.5	28.3 28.1	28.2	8.1 8.1	8.1	24.1 24.7	24.4	79.0 79.2	79.1	5.4 5.4	5.4	5.4	7.9 7.9	7.9		11.8 12.7	12.3	
5-Sep-16	Fine	Moderate	15:25		Surface	1.0	27.8 27.8	27.8	7.6 7.7	7.7	27.8 27.9	27.9	79.8 79.3	79.6	5.5 5.4	5.5	5.5	7.0 7.1	7.1		7.1 7.2	7.2	
				4.1	Middle	-	-	-	-	-	-	-	-	-	-	-	5.5	-	-	7.2	-	-	7.1
					Bottom	3.1	27.8 27.6	27.7	7.7 7.6	7.7	30.4 30.6	30.5	78.3 78.6	78.5	5.4 5.4	5.4	5.4	7.3 7.2	7.3		7.4 6.4	6.9	
7-Sep-16	Cloudy	Moderate	16:27		Surface	1.0	28.3 28.3	28.3	7.9 7.9	7.9	13.4 13.6	13.5	79.6 79.2	79.4	5.9 6.0	6.0	6.0	3.9 3.8	3.9		7.2 7.5	7.4	
				4.1	Middle	-	-	-	-	-		-	-	-	-	-	6.0	-	-	4.5	-	-	7.0
					Bottom	3.1	28.0 28.2	28.1	7.8 7.8	7.8	17.8 17.5	17.6	72.4 72.5	72.5	5.4 5.4	5.4	5.4	5.3 4.9	5.1		6.5 6.7	6.6	
9-Sep-16	Fine	Moderate	18:12		Surface	1.0	28.6 28.7	28.7	8.0 8.0	8.0	10.2 9.4	9.8	84.1 86.8	85.5	6.2 6.4	6.3	6.2	3.2 3.0	3.1		3.0 2.0	2.5	
				3.8	Middle	-	-	-	-	-		-	-	-	-	-	6.3	-	-	2.9	-	-	2.5
					Bottom	2.8	28.5 28.4	28.5	7.9 7.9	7.9	13.9 14.6	14.3	84.0 83.5	83.8	6.1 6.0	6.1	6.1	2.7 2.6	2.7		2.6 2.2	2.4	
12-Sep-16	Sunny	Moderate	09:18		Surface	1.0	28.6 28.6	28.6	8.0 8.0	8.0	18.6 19.2	18.9	81.0 82.6	81.8	5.9 6.0	5.9	5.9	2.2 2.4	2.3		2.1 2.2	2.2	
				4.2	Middle	-	-	-	-	-	-	-	-	-	-	-	5.5	-	-	2.2	-	-	2.4
					Bottom	3.2	28.5 28.2	28.3	7.9 7.9	7.9	23.5 25.1	24.3	83.0 81.5	82.3	5.9 5.8	5.8	5.8	2.2 2.0	2.1		2.1 2.8	2.5	
14-Sep-16	Sunny	Moderate	11:01		Surface	1.0	29.5 29.5	29.5	8.3 8.3	8.3	15.3 14.8	15.0	119.0 118.3	118.7	8.3 8.3	8.3	8.3	3.0 3.0	3.0		3.1 3.2	3.2	
				4.8	Middle	-	-	-		-		-	-	-	-	-	0.0	-	-	3.1	-	-	3.4
					Bottom	3.8	29.2 29.2	29.2	8.2 8.2	8.2	16.4 18.0	17.2	115.9 111.2	113.6	8.1 7.7	7.9	7.9	3.0 3.3	3.2		3.1 3.8	3.5	
16-Sep-16	Sunny	Moderate	12:23		Surface	1.0	28.3 28.2	28.2	8.1 8.1	8.1	27.7 27.8	27.8	84.2 83.3	83.8	5.8 5.8	5.8	5.8	6.9 6.9	6.9		4.0 5.9	5.0	
				4.3	Middle	-	-	-	-	-	-	-	-	-	-	-	5.0	-	-	7.0	-	-	5.2
					Bottom	3.3	28.1 28.0	28.1	8.1 8.1	8.1	28.1 28.4	28.3	83.1 85.6	84.4	5.8 5.9	5.8	5.8	7.0 6.9	7.0		5.3 5.5	5.4	
19-Sep-16	Sunny	Moderate	14:41		Surface	1.0	28.5 28.4	28.5	8.0 8.0	8.0	28.1 28.4	28.2	75.6 75.4	75.5	5.4 5.3	5.4	5.4	6.7 6.7	6.7		5.3 5.3	5.3	 
				4.5	Middle	-	-	-		-	-	-	-	-	-	-	5.7	-	-	6.8	-	-	6.0
					Bottom	3.5	28.5 28.4	28.4	8.0 8.0	8.0	28.2 29.1	28.7	74.9 74.7	74.8	5.3 5.3	5.3	5.3	6.8 6.9	6.9		6.9 6.5	6.7	
21-Sep-16	Sunny	Moderate	16:14		Surface	1.0	28.6 28.5	28.5	8.0 8.1	8.1	23.1 23.2	23.1	79.8 82.2	81.0	5.6 5.8	5.7	5.7	4.9 4.8	4.9		9.0 9.1	9.1	
				3.9	Middle	-	-	-	-	-	-	-	-	-	-	-	5.7	-	-	5.1	-	-	8.8
					Bottom	2.9	28.5 28.3	28.4	8.0 8.0	8.0	24.0 24.3	24.1	80.4 77.9	79.2	5.6 5.5	5.6	5.6	5.1 5.4	5.3		8.3 8.7	8.5	

## Water Quality Monitoring Results at SR7 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampl	ling	Tempera	ature (°C)	F	Н	Salini	y (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-Sep-16	Sunny	Moderate	17:47		Surface	1.0	28.3 28.4	28.4	8.1 8.1	8.1	21.0 21.3	21.2	81.9 81.6	81.8	5.7 5.6	5.7	5.7	4.4 4.4	4.4		6.6 5.4	6.0	
				5.0	Middle	-	-	-	-	-	-	-	-	-		-	5.7	-	-	4.6	-	-	6.1
					Bottom	4.0	28.3 28.3	28.3	8.1 8.1	8.1	21.3 22.0	21.7	81.4 78.8	80.1	5.6 5.4	5.5	5.5	4.9 4.6	4.8		5.1 7.3	6.2	]
26-Sep-16	Sunny	Moderate	08:52		Surface	1.0	28.8 28.9	28.8	8.0 7.9	8.0	27.7 27.5	27.6	88.9 89.0	89.0	5.9 5.9	5.9	5.9	1.3 1.2	1.3		5.5 5.1	5.3	
				4.3	Middle	-	-	-	-	-	-	-	-	-	-	-	6.0	-	-	1.4	-	-	5.1
					Bottom	3.3	28.8 28.8	28.8	8.0 7.9	7.9	27.9 27.6	27.8	88.3 88.1	88.2	5.8 5.8	5.8	5.8	1.4 1.4	1.4		5.6 4.1	4.9	
28-Sep-16	Fine	Rough	11:04		Surface	1.0	29.0 29.0	29.0	8.1 8.1	8.1	27.4 27.4	27.4	91.0 97.9	94.5	6.0 6.5	6.2	6.2	3.4 3.1	3.3		8.5 9.8	9.2	
				4.3	Middle	-	-	-	-	-		-		-		-	0.2	-	-	3.3	-	-	9.3
					Bottom	3.3	29.0 29.0	29.0	8.0 8.1	8.1	27.4 27.4	27.4	93.8 92.1	93.0	6.2 6.1	6.1	6.1	3.2 3.3	3.3		8.5 10.1	9.3	
30-Sep-16	Fine	Moderate	13:09		Surface	1.0	28.0 28.0	28.0	8.2 8.2	8.2	24.5 24.3	24.4	88.7 88.1	88.4	6.0 6.0	6.0	6.0	3.9 4.0	4.0		4.9 6.5	5.7	
				4.7	Middle	-	-	-	-	-	-	-	-	-	-	-	0.0	-	-	4.1	-	-	6.3
					Bottom	3.7	28.1 28.0	28.0	8.2 8.2	8.2	26.4 24.8	25.6	87.2 87.8	87.5	6.0 6.0	6.0	6.0	4.2 4.1	4.2		6.4 7.4	6.9	

#### 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

## Water Quality Monitoring Results at SR7 - 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)	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-Sep-16	Fine	Moderate	06:50		Surface	1.0	28.0 28.0	28.0	7.9 7.9	7.9	26.1 26.1	26.1	79.4 78.8	79.1	5.5 5.5	5.5		4.9 4.8	4.9		5.9 7.3	6.6	
				4.7	Middle	-	-	-		-	-	-	-	-	-	-	5.5	-	-	5.0	-	-	7.4
					Bottom	3.7	28.0 28.0	28.0	7.9 7.9	7.9	26.1 26.1	26.1	78.4 78.6	78.5	5.4 5.5	5.4	5.4	5.0 4.9	5.0		7.2 9.1	8.2	
5-Sep-16	Fine	Moderate	08:40		Surface	1.0	28.2 28.2	28.2	7.9 7.9	7.9	26.5 26.5	26.5	78.6 78.3	78.5	5.4 5.4	5.4		4.5 4.6	4.6		4.8	5.5	
				4.2	Middle	-	-	-	-	-	-	-	-	-	-	-	5.4	-	-	4.7	-	-	5.7
					Bottom	3.2	28.1 28.0	28.1	7.9 7.9	7.9	27.0 27.7	27.4	77.2 77.4	77.3	5.3 5.3	5.3	5.3	4.7 4.6	4.7		5.3 6.4	5.9	
7-Sep-16	Rainy	Moderate	10:31		Surface	1.0	27.9 27.9	27.9	7.7	7.7	26.6 26.6	26.6	77.6 78.4	78.0	5.6 5.6	5.6		7.0	6.9		11.1 10.8	11.0	
				4.2	Middle	-	-	-	-	-	-	-	-	-	-	-	5.6	-	-	6.3	-	-	12.5
					Bottom	3.2	27.9 27.9	27.9	7.7 7.7	7.7	26.9 26.9	26.9	79.5 77.8	78.7	5.7 5.6	5.6	5.6	5.6 5.8	5.7		13.1 14.8	14.0	
9-Sep-16 ^	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	=	-	-	-
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	1
12-Sep-16	Sunny	Moderate	17:08		Surface	1.0	28.8 28.9	28.8	8.1 8.1	8.1	21.0 21.4	21.2	87.6 90.7	89.2	6.3 6.5	6.4	6.4	5.3 5.6	5.5		4.6 5.0	4.8	
				4.3	Middle	-	-	-		-	-	-		-	-	-	6.4	-	-	5.6	-	-	4.7
					Bottom	3.3	28.5 28.5	28.5	8.0 8.0	8.0	24.6 24.7	24.7	88.9 87.8	88.4	6.3 6.2	6.2	6.2	5.5 5.7	5.6		4.1 4.8	4.5	
14-Sep-16	Sunny	Moderate	18:03		Surface	1.0	28.7 28.8	28.7	8.3 8.3	8.3	15.8 16.0	15.9	97.4 96.6	97.0	6.8 6.8	6.8	6.8	4.7 4.8	4.8		5.6 6.0	5.8	
				5.1	Middle	-	-	-	-	-	-	-	-	-	-	-	0.0	-	-	4.8	-	-	5.7
					Bottom	4.1	28.3 28.7	28.5	8.2 8.3	8.2	18.8 18.6	18.7	91.1 93.3	92.2	6.4 6.6	6.5	6.5	4.8 4.7	4.8		5.1 5.8	5.5	
16-Sep-16	Fine	Moderate	19:16		Surface	1.0	28.2 28.2	28.2	8.2 8.2	8.2	20.3 20.3	20.3	84.5 85.3	84.9	6.0 6.1	6.1	6.1	5.9 5.6	5.8		8.0 7.8	7.9	
				4.2	Middle	-	-	-	-	-	-	-	-	-	-	-	0.1	-	-	6.0	-	-	7.6
					Bottom	3.2	28.1 28.1	28.1	8.2 8.2	8.2	20.4 20.4	20.4	83.0 84.4	83.7	5.9 6.0	6.0	6.0	6.4 6.0	6.2		6.6 7.8	7.2	
19-Sep-16	Sunny	Moderate	08:11		Surface	1.0	28.4 28.4	28.4	8.0 8.0	8.0	29.3 29.3	29.3	78.8 79.3	79.1	5.6 5.6	5.6	5.6	15.0 15.1	15.1		24.0 22.8	23.4	
				4.7	Middle	-	-	-		-		-		-	-	-	0.0	-	-	15.3	-	-	24.3
					Bottom	3.7	28.3 28.4	28.3	7.9 8.0	8.0	29.4 29.3	29.3	78.4 78.1	78.3	5.6 5.5	5.6	5.6	15.4 15.3	15.4		24.8 25.6	25.2	
21-Sep-16	Sunny	Moderate	10:17		Surface	1.0	28.2 28.2	28.2	7.7 7.8	7.8	29.9 29.9	29.9	82.4 81.8	82.1	5.6 5.6	5.6	5.6	7.0 7.3	7.2		6.1 5.8	6.0	
				4.0	Middle	-	-	-	-	-	-	-	-	-	-	-	0.0	-	-	7.6	-	-	6.7
					Bottom	3.0	28.1 28.1	28.1	7.7 7.7	7.7	30.3 30.2	30.2	85.3 82.2	83.8	5.8 5.6	5.7	5.7	8.2 7.8	8.0		6.8 7.7	7.3	

## Water Quality Monitoring Results at SR7 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	F	н	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-Sep-16	Sunny	Moderate	12:39		Surface	1.0	28.3 28.3	28.3	8.1 8.1	8.1	24.8 24.5	24.7	80.5 82.1	81.3	5.5 5.6	5.5	5.5	5.4 5.4	5.4		8.2 7.6	7.9	
				5.0	Middle	-	-	-	-	-	-	-	-	-	-	-	5.5	-	-	5.5	-	-	8.5
					Bottom	4.0	28.2 28.3	28.3	8.1 8.1	8.1	25.0 24.9	24.9	80.1 81.2	80.7	5.4 5.5	5.5	5.5	5.5 5.4	5.5		8.8 9.1	9.0	
26-Sep-16	Sunny	Moderate	17:52		Surface	1.0	28.8 28.9	28.9	8.1 8.1	8.1	29.6 28.4	29.0	83.9 83.6	83.8	5.5 5.5	5.5	5.5	5.3 5.4	5.4		4.4 3.3	3.9	
				4.5	Middle	-	-	-		-		-	-	-	-	-	5.5	-	-	5.5	-	-	4.3
					Bottom	3.5	28.8 28.8	28.8	8.1 8.0	8.0	29.7 29.7	29.7	83.7 83.2	83.5	5.5 5.5	5.5	5.5	5.6 5.6	5.6		4.5 4.9	4.7	
28-Sep-16	Fine	Rough	18:11		Surface	1.0	28.9 28.9	28.9	8.2 8.2	8.2	24.6 25.0	24.8	89.5 89.0	89.3	6.0 6.0	6.0	6.0	3.2 3.4	3.3		6.8 7.5	7.2	
				4.4	Middle	-	-	-	-	-	-	-	-	-		-	0.0	-	-	4.4	-	-	7.6
					Bottom	3.4	28.9 28.9	28.9	8.2 8.2	8.2	25.6 26.7	26.2	89.2 87.5	88.4	6.0 5.8	5.9	5.9	5.2 5.5	5.4		6.8 9.2	8.0	
30-Sep-16	Cloudy	Moderate	06:03		Surface	1.0	28.0 28.0	28.0	8.1 8.1	8.1	29.3 29.4	29.4	85.6 85.9	85.8	5.7 5.7	5.7	5.7	6.1 6.2	6.2		12.9 12.8	12.9	
				4.9	Middle	-	-	-		-	-	-	-	-	-	-	5.7	-	-	6.3	-	-	13.0
					Bottom	3.9	28.0 28.0	28.0	8.1 8.1	8.1	29.4 29.4	29.4	85.5 85.3	85.4	5.7 5.7	5.7	5.7	6.3 6.3	6.3		13.4 12.8	13.1	

#### 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.

^ The scheduled water quality monitoring during mid-flood tide on 9 September 2016 was cancelled due to thunderstorm Signal hoisted 3 hours before the scheduled monitoring time.

Remarks:

\* DA: Depth-Averaged

## Water Quality Monitoring Results at SR10A - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	н	Salini	ity (ppt)	DO Satu	ration (%)	Dissol	/ed Oxygen	(mg/L)	Т	urbidity(NTL	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-Sep-16	Fine	Moderate	14:15		Surface	1.0	28.3 28.3	28.3	8.3 8.3	8.3	26.0 26.0	26.0	77.3 77.6	77.5	5.3 5.3	5.3	5.0	6.2 6.2	6.2		11.4 10.0	10.7	
				6.4	Middle	3.2	28.2 28.2	28.2	8.3 8.3	8.3	26.1 26.1	26.1	77.4 77.1	77.3	5.3 5.3	5.3	5.3	6.2 6.2	6.2	6.2	11.6 12.5	12.1	11.4
					Bottom	5.4	28.3 28.2	28.2	8.3 8.3	8.3	26.1 26.1	26.1	77.4	77.3	5.3 5.3	5.3	5.3	6.3 6.2	6.3		10.9	11.4	
5-Sep-16	Fine	Moderate	15:52		Surface	1.0	28.0 28.0	28.0	8.2 8.2	8.2	24.1 24.2	24.1	83.3 85.6	84.5	5.7 5.8	5.7		5.3 5.5	5.4		4.3 5.0	4.7	
				6.3	Middle	3.2	28.0 28.0	28.0	8.2 8.1	8.2	26.4 26.9	26.6	82.3 81.4	81.9	5.7 5.6	5.6	5.7	6.1 5.9	6.0	5.8	3.2 3.1	3.2	4.6
					Bottom	5.3	27.9 28.0	27.9	8.1 8.1	8.1	27.7	27.7	81.4 81.2	81.3	5.6 5.5	5.5	5.5	5.9 6.0	6.0		6.6 4.9	5.8	
7-Sep-16	Cloudy	Moderate	16:55		Surface	1.0	28.4 28.2	28.3	8.2 8.2	8.2	20.2 21.0	20.6	77.9	78.4	5.5 5.5	5.5		4.5 4.5	4.5		5.3 4.9	5.1	
				6.4	Middle	3.2	28.0 28.0	28.0	8.2 8.1	8.2	25.0 25.1	25.1	76.0 78.3	77.2	5.2 5.4	5.3	5.4	4.9	5.0	4.8	5.2 4.6	4.9	4.9
					Bottom	5.4	27.8 28.0	27.9	8.1 8.1	8.1	26.6 26.5	26.6	75.6	76.7	5.2 5.4	5.3	5.3	4.9	4.9		5.2 4.4	4.8	
9-Sep-16	Fine	Moderate	18:51		Surface	1.0	28.5 28.5	28.5	8.2 8.2	8.2	17.2 17.3	17.3	78.6 77.4	78.0	5.4 5.5	5.4		2.2 2.2	2.2		2.4 2.1	2.3	
				6.5	Middle	3.3	28.3 28.3	28.3	8.1 8.1	8.1	22.0 21.6	21.8	75.9 76.1	76.0	5.4 5.2	5.3	5.4	2.1	2.2	2.2	2.2	2.2	2.5
					Bottom	5.5	28.1 28.2	28.2	8.1 8.1	8.1	23.7 24.2	23.9	73.0 75.3	74.2	5.0 5.2	5.1	5.1	2.2	2.2		3.1 2.6	2.9	
12-Sep-16	Sunny	Moderate	08:41		Surface	1.0	28.5 28.4	28.5	8.1 8.1	8.1	20.7 20.7	20.7	76.7 78.9	77.8	5.3 5.5	5.4	5.0	2.2 2.2	2.2		2.4 2.3	2.4	
				6.4	Middle	3.2	28.4 28.3	28.4	8.1 8.1	8.1	21.0 21.0	21.0	77.5 73.3	75.4	5.4 5.1	5.2	5.3	2.2 2.1	2.2	2.2	2.7 2.6	2.7	2.5
					Bottom	5.4	28.0 28.4	28.2	8.0 8.1	8.1	26.5 24.5	25.5	73.1 77.7	75.4	4.9 5.3	5.1	5.1	2.2 2.2	2.2		2.6 2.2	2.4	
14-Sep-16	Sunny	Moderate	10:12		Surface	1.0	28.7 28.7	28.7	8.3 8.3	8.3	21.8 21.9	21.8	85.7 85.5	85.6	5.9 5.9	5.9	5.8	4.2 4.2	4.2		6.3 5.5	5.9	
				6.5	Middle	3.3	28.5 28.6	28.6	8.3 8.3	8.3	22.1 22.3	22.2	81.6 84.8	83.2	5.6 5.7	5.6	5.6	4.6 4.5	4.6	4.5	7.4 6.0	6.7	6.5
					Bottom	5.5	28.4 27.7	28.0	8.2 8.2	8.2	27.8 29.7	28.8	77.8 78.1	78.0	5.3 5.4	5.3	5.3	4.6 4.5	4.6		6.5 7.5	7.0	
16-Sep-16	Sunny	Moderate	11:36		Surface	1.0	28.1 28.2	28.2	8.3 8.3	8.3	27.2 27.0	27.1	77.6 76.9	77.3	5.3 5.2	5.3	5.3	7.1 6.9	7.0		7.9 8.6	8.3	
				6.5	Middle	3.3	27.7 27.7	27.7	8.3 8.3	8.3	28.3 28.2	28.3	77.1 75.9	76.5	5.2 5.2	5.2	0.0	7.2 7.6	7.4	7.3	9.9 12.1	11.0	10.4
					Bottom	5.5	27.8 27.6	27.7	8.3 8.3	8.3	28.3 28.5	28.4	75.6 75.8	75.7	5.2 5.2	5.2	5.2	7.7 7.2	7.5		10.6 13.1	11.9	
19-Sep-16	Sunny	Moderate	14:28		Surface	1.0	28.4 28.4	28.4	8.3 8.3	8.3	27.6 27.6	27.6	65.5 65.6	65.6	5.2 5.2	5.2	5.2	6.7 6.6	6.7		8.4 8.1	8.3	
				6.5	Middle	3.3	28.3 28.3	28.3	8.3 8.3	8.3	27.7 27.7	27.7	65.6 65.5	65.6	5.2 5.2	5.2	0.2	6.7 6.7	6.7	6.8	7.1 7.3	7.2	7.6
					Bottom	5.5	28.4 28.3	28.3	8.3 8.3	8.3	27.6 27.8	27.7	65.5 65.4	65.5	5.2 5.2	5.2	5.2	6.8 6.9	6.9		7.8 7.0	7.4	
21-Sep-16	Sunny	Moderate	16:41		Surface	1.0	29.0 29.2	29.1	8.3 8.3	8.3	27.6 27.6	27.6	81.7 83.4	82.6	5.4 5.5	5.5	5.5	3.0 3.1	3.1		3.9 4.6	4.3	
				6.5	Middle	3.3	28.9 28.8	28.8	8.3 8.3	8.3	27.8 27.9	27.9	81.3 81.9	81.6	5.4 5.4	5.4		3.2 3.3	3.3	3.2	5.2 5.1	5.2	5.0
					Bottom	5.5	28.9 28.3	28.6	8.3 8.3	8.3	27.8 28.4	28.1	81.4 80.9	81.2	5.4 5.4	5.4	5.4	3.4 3.2	3.3		5.9 5.2	5.6	

## Water Quality Monitoring Results at SR10A - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampli	ing	Tempera	ature (°C)	F	н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(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-Sep-16	Sunny	Moderate	18:58		Surface	1.0	28.2 28.2	28.2	8.4 8.4	8.4	28.2 28.2	28.2	80.3 79.1	79.7	5.4 5.3	5.4	5.4	4.5 4.4	4.5		5.5 6.1	5.8	
				6.3	Middle	3.2	28.1 28.1	28.1	8.3 8.3	8.3	29.0 29.1	29.1	78.4 78.0	78.2	5.3 5.3	5.3	5.4	4.5 4.5	4.5	4.5	5.7 6.2	6.0	6.0
					Bottom	5.3	28.2 28.1	28.1	8.3 8.3	8.3	29.2 29.3	29.3	78.0 78.2	78.1	5.3 5.3	5.3	5.3	4.6 4.5	4.6		5.7 6.7	6.2	
26-Sep-16	Sunny	Moderate	08:41		Surface	1.0	28.7 28.7	28.7	8.3 8.3	8.3	27.4 27.5	27.5	83.0 83.7	83.4	5.5 5.6	5.5	5.5	1.6 1.5	1.6		4.2 4.7	4.5	
				6.7	Middle	3.4	28.6 28.6	28.6	8.3 8.3	8.3	28.2 28.4	28.3	82.6 82.9	82.8	5.5 5.5	5.5	0.0	1.7 1.8	1.8	1.8	4.7 5.2	5.0	4.5
					Bottom	5.7	28.5 28.6	28.6	8.3 8.3	8.3	29.1 29.0	29.1	84.1 83.6	83.9	5.6 5.5	5.5	5.5	1.9 1.8	1.9		4.8 3.4	4.1	
28-Sep-16	Fine	Rough	10:26		Surface	1.0	28.8 28.8	28.8	8.2 8.2	8.2	27.9 28.0	27.9	82.6 82.6	82.6	5.5 5.5	5.5	5.5	8.2 8.3	8.3		7.6 8.3	8.0	
				6.3	Middle	3.2	28.8 28.8	28.8	8.2 8.2	8.2	28.0 27.9	28.0	82.4 82.4	82.4	5.5 5.5	5.5	5.5	8.2 8.6	8.4	8.3	7.5 9.1	8.3	8.8
					Bottom	5.3	28.8 28.8	28.8	8.2 8.2	8.2	28.1 28.0	28.0	82.5 82.5	82.5	5.5 5.5	5.5	5.5	8.3 8.3	8.3		8.8 11.3	10.1	
30-Sep-16	Fine	Moderate	13:10		Surface	1.0	28.2 28.2	28.2	8.4 8.4	8.4	27.5 27.5	27.5	83.4 83.5	83.5	5.6 5.6	5.6	5.6	4.7 4.5	4.6		6.0 5.1	5.6	
				6.4	Middle	3.2	28.1 28.2	28.2	8.4 8.4	8.4	27.6 27.6	27.6	83.4 83.3	83.4	5.6 5.6	5.6	5.0	4.6 4.5	4.6	4.6	7.3 6.5	6.9	7.0
					Bottom	5.4	28.2 28.2	28.2	8.4 8.4	8.4	27.6 27.6	27.6	83.4 83.2	83.3	5.6 5.6	5.6	5.6	4.7 4.5	4.6		8.5 8.3	8.4	

#### 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

## 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	ved Oxygen	(mg/L)	Г	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-Sep-16	Fine	Moderate	06:21		Surface	1.0	27.5 27.6	27.5	8.2 8.2	8.2	29.4 29.1	29.2	75.0 75.3	75.2	5.1 5.1	5.1	5.4	8.5 8.4	8.5		6.4 7.1	6.8	
				6.5	Middle	3.3	27.4 27.4	27.4	8.2 8.2	8.2	29.8 29.8	29.8	75.0 74.6	74.8	5.1 5.1	5.1	5.1	8.6 8.7	8.7	8.7	5.1 4.6	4.9	6.0
					Bottom	5.5	27.4 27.5	27.4	8.2 8.2	8.2	29.9 29.8	29.9	74.7 74.5	74.6	5.1 5.1	5.1	5.1	8.8 8.9	8.9		6.8 5.8	6.3	
5-Sep-16	Fine	Moderate	08:12		Surface	1.0	28.2 28.1	28.2	8.2 8.2	8.2	26.8 26.8	26.8	80.9 81.2	81.1	5.5 5.5	5.5		5.6 5.4	5.5		5.8 5.2	5.5	
				6.6	Middle	3.3	28.1 28.1	28.1	8.2 8.2	8.2	27.2 27.2	27.2	80.1 81.1	80.6	5.4 5.5	5.5	5.5	5.5 5.7	5.6	5.6	8.4 7.9	8.2	6.9
					Bottom	5.6	28.0	28.1	8.2 8.2	8.2	27.8	27.6	80.1 80.9	80.5	5.4 5.5	5.5	5.5	5.6 5.7	5.7		7.7	6.9	
7-Sep-16	Rainy	Moderate	09:36		Surface	1.0	28.0 28.0	28.0	8.1 8.1	8.1	25.0 24.9	24.9	79.6 78.4	79.0	5.5 5.4	5.4		3.8 3.8	3.8		7.3 7.2	7.3	
				6.7	Middle	3.4	27.9 27.9	27.9	8.1 8.1	8.1	25.4 25.5	25.5	79.5 76.5	78.0	5.4 5.2	5.3	5.4	4.1	4.3	4.1	6.5 6.5	6.5	7.2
					Bottom	5.7	27.8 28.0	27.9	8.1 8.1	8.1	27.6 27.5	27.5	75.7 78.5	77.1	5.2 5.4	5.3	5.3	4.4	4.3		7.8	7.7	
9-Sep-16 ^	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	-	-	-	-	-	-	-	-	-		-	-	-	-	=	-	-	-
					Bottom	-	-	-	-	-	-	-	-	-		-	-	-	-		-	-	
12-Sep-16	Sunny	Moderate	17:51		Surface	1.0	29.9 29.9	29.9	8.4 8.4	8.4	19.5 19.5	19.5	79.9 78.9	79.4	5.4 5.4	5.4	5.4	2.6 2.5	2.6		3.4 3.2	3.3	
				6.4	Middle	3.2	28.1 27.9	28.0	8.3 8.3	8.3	23.5 24.0	23.7	77.1 78.2	77.7	5.2 5.3	5.3	5.4	2.8 2.7	2.8	2.7	3.6 4.3	4.0	3.9
					Bottom	5.4	27.5 27.5	27.5	8.3 8.3	8.3	29.2 28.8	29.0	73.4 71.5	72.5	5.0 4.9	5.0	5.0	2.6 2.8	2.7		4.6 4.2	4.4	
14-Sep-16	Sunny	Moderate	18:55		Surface	1.0	29.0 28.9	28.9	8.5 8.5	8.5	20.4 20.4	20.4	96.7 99.9	98.3	6.5 6.7	6.6	6.6	3.6 3.7	3.7		4.4 4.2	4.3	
				6.5	Middle	3.3	28.8 28.8	28.8	8.5 8.5	8.5	24.3 24.0	24.1	95.0 93.3	94.2	6.5 6.4	6.5	0.0	3.7 3.6	3.7	3.7	4.6 5.3	5.0	4.9
					Bottom	5.5	27.8 27.6	27.7	8.4 8.4	8.4	28.5 28.7	28.6	87.8 92.3	90.1	5.9 6.2	6.1	6.1	3.6 3.8	3.7		5.6 5.2	5.4	
16-Sep-16	Fine	Moderate	19:56		Surface	1.0	28.8 28.8	28.8	8.4 8.4	8.4	25.2 25.3	25.2	82.0 82.9	82.5	5.5 5.6	5.5	5.5	7.8 7.4	7.6		4.7 5.3	5.0	
				6.6	Middle	3.3	28.3 28.2	28.2	8.4 8.4	8.4	26.3 26.3	26.3	80.6 80.7	80.7	5.4 5.4	5.4	0.0	7.8 7.8	7.8	7.7	4.8 3.1	4.0	4.8
					Bottom	5.6	27.8 28.0	27.9	8.3 8.4	8.4	27.6 27.5	27.6	77.9 77.5	77.7	5.3 5.2	5.2	5.2	7.8 7.8	7.8		5.3 5.7	5.5	
19-Sep-16	Sunny	Moderate	07:49		Surface	1.0	28.0 28.0	28.0	8.3 8.3	8.3	29.8 29.8	29.8	66.2 66.0	66.1	5.2 5.2	5.2	5.2	6.4 6.5	6.5		8.4 8.6	8.5	
				6.2	Middle	3.1	28.0 28.0	28.0	8.3 8.3	8.3	30.1 30.3	30.2	66.0 66.1	66.1	5.2 5.2	5.2		6.5 6.5	6.5	6.5	8.8 8.0	8.4	8.8
					Bottom	5.2	28.0 27.9	28.0	8.3 8.3	8.3	30.1 30.5	30.3	66.0 65.9	66.0	5.2 5.2	5.2	5.2	6.5 6.6	6.6		9.7 9.1	9.4	
21-Sep-16	Sunny	Moderate	09:31		Surface	1.0	28.2 28.2	28.2	8.0 8.0	8.0	28.0 28.1	28.1	76.3 75.7	76.0	5.1 5.1	5.1	5.1	5.5 5.5	5.5		7.1 6.7	6.9	
				6.6	Middle	3.3	28.1 28.1	28.1	8.0 8.0	8.0	28.4 28.4	28.4	74.9 76.3	75.6	5.0 5.1	5.1		5.5 5.4	5.5	5.6	6.9 7.3	7.1	7.0
					Bottom	5.6	28.1 28.2	28.1	8.0 8.0	8.0	28.9 28.3	28.6	74.9 76.1	75.5	5.0 5.1	5.1	5.1	5.6 5.7	5.7		6.9 7.0	7.0	

## Water Quality Monitoring Results at SR10A - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Sampl	ing	Tempera	ature (°C)	p	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	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-Sep-16	Sunny	Moderate	11:56		Surface	1.0	28.4 28.4	28.4	8.2 8.2	8.2	27.9 27.9	27.9	79.0 78.9	79.0	5.3 5.3	5.3	5.3	3.0 3.1	3.1		3.0 2.7	2.9	
				6.5	Middle	3.3	28.2 28.2	28.2	8.2 8.2	8.2	28.0 28.0	28.0	78.0 78.8	78.4	5.2 5.3	5.2	5.5	3.5 3.4	3.5	3.4	4.6 5.2	4.9	4.5
					Bottom	5.5	28.2 28.2	28.2	8.2 8.2	8.2	28.0 28.1	28.0	78.3 77.6	78.0	5.2 5.2	5.2	5.2	3.4 3.5	3.5		5.7 5.4	5.6	
26-Sep-16	Sunny	Moderate	17:35		Surface	1.0	29.3 29.3	29.3	8.4 8.4	8.4	26.6 26.6	26.6	85.8 86.5	86.2	5.7 5.7	5.7	5.6	1.9 1.8	1.9		5.8 5.4	5.6	
				6.7	Middle	3.4	28.8 28.9	28.9	8.4 8.4	8.4	28.1 27.9	28.0	82.3 82.1	82.2	5.4 5.4	5.4	0.0	2.1 2.1	2.1	2.1	5.6 4.7	5.2	6.0
					Bottom	5.7	28.6 28.7	28.6	8.4 8.4	8.4	29.0 28.8	28.9	82.8 82.1	82.5	5.5 5.4	5.4	5.4	2.5 2.3	2.4		7.8 6.8	7.3	
28-Sep-16	Fine	Rough	18:40		Surface	1.0	28.8 28.8	28.8	8.4 8.4	8.4	26.6 26.6	26.6	85.2 85.2	85.2	5.7 5.7	5.7	5.7	3.5 3.6	3.6		8.2 7.5	7.9	
				6.4	Middle	3.2	28.8 28.8	28.8	8.4 8.4	8.4	26.7 26.7	26.7	85.2 85.3	85.3	5.7 5.7	5.7	5.7	3.5 3.6	3.6	3.6	6.1 6.9	6.5	7.6
					Bottom	5.4	28.8 28.8	28.8	8.4 8.4	8.4	27.1 26.8	27.0	84.7 84.8	84.8	5.6 5.7	5.6	5.6	3.7 3.6	3.7		7.7 9.2	8.5	
30-Sep-16	Cloudy	Moderate	05:25		Surface	1.0	28.2 28.1	28.1	8.3 8.3	8.3	29.5 28.0	28.8	82.2 80.3	81.3	5.4 5.4	5.4	5.4	6.6 6.5	6.6		6.0 5.6	5.8	
				6.5	Middle	3.3	28.2 28.2	28.2	8.3 8.3	8.3	30.1 30.2	30.2	80.0 80.9	80.5	5.3 5.4	5.3	5.4	6.6 6.5	6.6	6.6	5.7 5.1	5.4	5.8
					Bottom	5.5	28.2 28.2	28.2	8.3 8.3	8.3	30.2 30.4	30.3	79.8 80.5	80.2	5.3 5.3	5.3	5.3	6.8 6.5	6.7		5.9 6.6	6.3	

#### 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.

^ The scheduled water quality monitoring during mid-flood tide on 9 September 2016 was cancelled due to thunderstorm Signal hoisted 3 hours before the scheduled monitoring time.

Remarks:

\* DA: Depth-Averaged

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

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	þ	Η	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	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
2-Sep-16	Fine	Moderate	14:26		Surface	1.0	28.3 28.3	28.3	8.2 8.2	8.2	25.9 26.0	25.9	77.9 77.9	77.9	5.3 5.3	5.3	5.0	6.2 6.3	6.3		11.8 10.2	11.0	1
				5.2	Middle	-		-	-	-	-	-		-		-	5.3	-	-	6.3		-	10.7
					Bottom	4.2	28.3 28.3	28.3	8.3 8.2	8.3	26.0 26.0	26.0	77.8 77.9	77.9	5.3 5.3	5.3	5.3	6.3 6.3	6.3		9.9 10.7	10.3	l
5-Sep-16	Fine	Moderate	16:00		Surface	1.0	28.0 28.0	28.0	8.2 8.2	8.2	24.4 24.3	24.3	86.5 85.4	86.0	6.0 5.9	5.9		5.3 5.0	5.2		4.0	4.0	i
				4.8	Middle	-	-	-	-	-	-	-	-	-	-	-	5.9	-	-	5.2	-	-	4.8
					Bottom	3.8	28.0 28.0	28.0	8.2 8.2	8.2	27.1 27.2	27.2	86.6 89.6	88.1	5.9 6.1	6.0	6.0	5.1 5.2	5.2		6.4 4.7	5.6	l
7-Sep-16	Cloudy	Moderate	17:05		Surface	1.0	28.1 28.1	28.1	8.2 8.2	8.2	23.0 21.6	22.3	76.8 77.6	77.2	5.3 5.4	5.4		4.5 4.3	4.4		4.0	3.4	i
				5.0	Middle	-		-	-	-	-	-	-	-	-	-	5.4	-	-	4.5	-	-	3.1
					Bottom	4.0	27.9 28.1	28.0	8.1 8.2	8.1	26.2 26.1	26.1	76.4 77.3	76.9	5.3 5.3	5.3	5.3	4.6 4.6	4.6		2.7 2.7	2.7	
9-Sep-16	Fine	Moderate	19:01		Surface	1.0	28.5 28.5	28.5	8.2 8.2	8.2	16.8 17.0	16.9	78.2 78.5	78.4	5.5 5.5	5.5		2.2	2.2	2.2	2.6 2.1	2.4	i
				5.0	Middle	-		-	-	-	-	-	-	-	-	-	5.5	-	-		-	-	2.5
					Bottom	4.0	28.4 28.3	28.4	8.1 8.1	8.1	23.0 22.2	22.6	79.4 76.7	78.1	5.4 5.3	5.4	5.4	2.1 2.2	2.2		2.2 2.7	2.5	l
12-Sep-16	Sunny	Moderate	08:32		Surface	1.0	28.5 28.4	28.5	8.1 8.1	8.1	21.3 21.7	21.5	80.5 80.9	80.7	5.6 5.6	5.6	5.6	2.1 2.1	2.1		3.4 2.9 3.2	3.2	
				5.1	Middle	-	-	-		-		-	-	-	-	-	5.5	-	-	2.1	-	-	3.0
					Bottom	4.1	28.4 28.3	28.4	8.1 8.1	8.1	22.9 24.0	23.4	80.7 80.2	80.5	5.5 5.5	5.5		2.1 2.0	2.1		2.6 2.7	2.7	l
14-Sep-16	Sunny	Moderate	10:03		Surface	1.0	28.7 28.7	28.7	8.2 8.2	8.2	22.9 23.3	23.1	90.7 90.8	90.8	6.2 6.2	6.2	<u> </u>	3.6 3.6	3.6		5.5 6.3	5.9	
				5.0	Middle	-	-	-	-	-		-	-	-	-	-	6.2 6.2	-	-	3.6	-	-	6.8
					Bottom	4.0	28.6 28.6	28.6	8.2 8.2	8.2	24.3 23.6	23.9	91.3 90.6	91.0	6.2 6.2	6.2		3.6 3.5	3.6		7.8 7.5	7.7	
16-Sep-16	Sunny	Moderate	11:26		Surface	1.0	28.1 28.0	28.1	8.3 8.3	8.3	28.2 28.7	28.5	78.7 79.2	79.0	5.3 5.3	5.3	5.2	7.5 7.7	7.6	7.7	10.1 11.7	10.9	
				5.4	Middle	-	-	-		-		-	-	-	-	-	5.3	-	-		-	-	11.2
					Bottom	4.4	27.7 27.9	27.8	8.3 8.3	8.3	30.2 29.3	29.8	78.5 78.2	78.4	5.3 5.3	5.3	5.3	7.5 7.8	7.7		11.7 11.2	11.5	
19-Sep-16	Sunny	Moderate	14:36		Surface	1.0	28.5 28.5	28.5	8.3 8.3	8.3	27.6 27.6	27.6	65.7 65.6	65.7	5.2 5.2	5.2	5.0	6.6 6.6	6.6		5.9 6.3	6.1	
				5.2	Middle	-	-	-	-	-	-	-	-	-	-	-	5.2	-	-	6.7	-	-	6.6
					Bottom	4.2	28.3 28.4	28.4	8.3 8.3	8.3	27.7 27.6	27.7	65.4 65.7	65.6	5.2 5.2	5.2	5.2	6.8 6.8	6.8		6.6 7.4	7.0	l
21-Sep-16	Sunny	Moderate	16:51		Surface	1.0	29.1 29.1	29.1	8.3 8.3	8.3	27.6 27.6	27.6	84.3 83.6	84.0	5.6 5.5	5.6	5.6	3.1 3.2	3.2		6.9 6.4	6.7	
				4.9	Middle	-	-	-	-	-	-	-	-	-	-	-	0.0	-	-	3.2	-	-	6.8
					Bottom	3.9	28.8 29.1	28.9	8.3 8.3	8.3	27.9 27.7	27.8	82.6 83.9	83.3	5.5 5.6	5.5	5.5	3.1 3.1	3.1		6.9 6.6	6.8	l

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

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	Η	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Т	urbidity(NTL	J)	Suspe	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-Sep-16	Sunny	Moderate	19:10		Surface	1.0	28.2 28.2	28.2	8.3 8.3	8.3	28.2 28.2	28.2	78.3 79.2	78.8	5.3 5.3	5.3	5.3	4.5 4.5	4.5		6.0 6.9	6.5	
				5.0	Middle	-	-	-	-	-	-	-	-	-	-	-	5.5	-	-	4.6	-	-	6.4
					Bottom	4.0	28.2 28.1	28.1	8.3 8.3	8.3	29.0 29.2	29.1	78.9 77.9	78.4	5.3 5.3	5.3	5.3	4.6 4.6	4.6		7.3 5.2	6.3	
26-Sep-16	Sunny	Moderate	08:27		Surface	1.0	28.7 28.7	28.7	8.3 8.3	8.3	28.4 28.7	28.5	85.3 83.9	84.6	5.6 5.5	5.6	5.6	1.5 1.6	1.6		4.4 4.2	4.3	
				4.8	Middle	1	-	-	-	-		-		-		-	5.0	-	-	1.6	-	-	4.8
					Bottom	3.8	28.7 28.6	28.7	8.3 8.3	8.3	28.7 29.8	29.2	84.9 83.7	84.3	5.6 5.5	5.6	5.6	1.6 1.6	1.6		4.8 5.5	5.2	
28-Sep-16	Fine	Rough	10:17		Surface	1.0	28.8 28.8	28.8	8.2 8.2	8.2	29.1 28.8	29.0	83.6 83.1	83.4	5.5 5.5	5.5	5.5	6.2 6.2	6.2		8.6 8.3	8.5	
				5.3	Middle	-	-	-	-	-	-	-	-	-		-	5.5	-	-	6.2	-	-	8.4
					Bottom	4.3	28.8 28.8	28.8	8.2 8.2	8.2	29.5 29.0	29.2	84.2 83.3	83.8	5.5 5.5	5.5	5.5	6.2 6.2	6.2		7.3 9.3	8.3	
30-Sep-16	Fine	Moderate	13:20	4.8	Surface	1.0	28.1 28.1	28.1	8.4 8.4	8.4	27.5 27.5	27.5	83.4 83.4	83.4	5.6 5.6	5.6	5.6	4.6 4.6	4.6		6.3 6.9	6.6	
					Middle	-	-	-	-	-		-		-	-	-	5.0	-	-	4.6	-	-	7.0
					Bottom	3.8	28.1 28.1	28.1	8.4 8.4	8.4	27.6 27.5	27.5	83.4 83.4	83.4	5.6 5.6	5.6	5.6	4.6 4.5	4.6		8.3 6.2	7.3	

#### 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

## 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 (%)	Dissolv	ved Oxygen	(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*
2-Sep-16	Fine	Moderate	06:12		Surface	1.0	27.6 27.6	27.6	8.2 8.2	8.2	29.3 29.3	29.3	76.9 78.3	77.6	5.2 5.3	5.3	5.0	6.5 6.6	6.6		4.5 3.9	4.2	
				5.2	Middle	-	-	-		-		-		-		-	5.3		-	6.6	-	-	5.0
				Bottom	4.2	27.5 27.4	27.5	8.2 8.2	8.2	30.2 30.4	30.3	76.8 76.9	76.9	5.2 5.2	5.2	5.2	6.6 6.5	6.6		5.2 6.2	5.7		
5-Sep-16	Fine	Moderate	08:05		Surface	1.0	28.2 28.2	28.2	8.2 8.3	8.3	27.0 27.0	27.0	82.3 82.3	82.3	5.6 5.6	5.6		5.5 5.6	5.6		5.4 6.4	5.9	
				5.1	Middle	-	-	-	-	-	-	-	-	-	-	-	5.6	-	-	5.6	-	-	6.1
					Bottom	4.1	28.1 28.1	28.1	8.3 8.2	8.3	27.4 27.2	27.3	82.3 82.4	82.4	5.6 5.6	5.6	5.6	5.6 5.6	5.6		5.9 6.5	6.2	
7-Sep-16	Rainy	Moderate	09:26		Surface	1.0	28.0 28.0	28.0	8.1 8.1	8.1	25.0 24.9	25.0	82.2 81.8	82.0	5.7 5.6	5.6		3.8 4.0	3.9		5.5 5.6	5.6	
				4.9	Middle	-	-	-	-	-	-	-	-	-	-	-	5.6	-	-	4.0	-	-	6.4
					Bottom	3.9	27.9 28.0	28.0	8.1 8.1	8.1	26.3 25.5	25.9	84.1 82.2	83.2	5.8 5.7	5.7	5.7	4.1 4.0	4.1		7.3 7.0	7.2	
9-Sep-16 ^	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	=	-	-	<u>-</u>
					Bottom	-	-	-	-	-	-	-	-	-		-	-	-	-		-	-	
12-Sep-16	Sunny	Moderate	18:00		Surface	1.0	29.0 29.2	29.1	8.3 8.3	8.3	21.3 20.5	20.9	85.3 85.2	85.3	5.9 5.9	5.9	E O	2.9 2.8	2.9		3.4 4.3	3.9	
				5.3	Middle	-	-	-	-	-	-	-	-	-	-	-	5.9	-	-	2.9	-	-	3.6
					Bottom	4.3	27.7 27.3	27.5	8.3 8.2	8.3	28.1 28.3	28.2	86.8 82.3	84.6	6.0 5.7	5.9	5.9 2.9 2.8		2.9		2.4 4.2	3.3	
14-Sep-16	Sunny	Moderate	19:07		Surface	1.0	29.1 29.1	29.1	8.5 8.6	8.5	20.3 20.3	20.3	98.4 95.5	97.0	6.6 6.6	6.6		4.1 4.3	4.2		4.6 5.3	5.0	
				5.3	Middle	-	-	-	-	-	-	-	-	-		-		-	-	4.2	-	-	4.7
					Bottom	4.3	28.1 27.8	28.0	8.4 8.4	8.4	27.4 27.6	27.5	94.1 95.2	94.7	6.5 6.4	6.4			4.1		3.4 5.2	4.3	
16-Sep-16	Fine	Moderate	20:05		Surface	1.0	28.7 28.7	28.7	8.4 8.4	8.4	25.5 25.7	25.6	83.0 85.4	84.2	5.6 5.7	5.7	5.7	6.4 6.4	6.4		6.7 4.6	5.7	
				5.0	Middle	•	-	-	-	-	-	-	-	-		-	5.7	-	-	6.5	-	-	5.0
					Bottom	4.0	28.7 28.2	28.4	8.4 8.4	8.4	25.8 26.7	26.3	85.0 81.7	83.4	5.7 5.5	5.6	5.6	6.6 6.6	6.6		4.7 3.9	4.3	
19-Sep-16	Sunny	Moderate	07:43		Surface	1.0	28.0 28.0	28.0	8.4 8.4	8.4	31.6 32.1	31.9	67.9 71.8	69.9	5.3 5.5	5.4	5.4	6.4 6.5	6.5		7.7 7.9	7.8	
				5.1	Middle	-	-	-	-	-	-	-	-	-		-	5.7	-	-	6.5	-	-	9.4
					Bottom	4.1	28.0 28.0	28.0	8.4 8.4	8.4	33.9 32.0	33.0	68.5 67.5	68.0	5.3 5.3	5.3		6.5 6.4	6.5		11.7 10.3	11.0	
21-Sep-16	Sunny	Moderate	09:21		Surface	1.0	28.2 28.1	28.2	7.8 7.8	7.8	28.9 28.7	28.8	79.9 76.9	78.4	5.3 5.2	5.2	5.2	4.6 4.6	4.6		7.2 7.9	7.6	
				5.0	Middle	-	-	-	-	-	-	-	-	-	-	-	5.2	-	-	4.6	-	-	7.8
					Bottom	4.0	28.1 28.1	28.1	7.8 7.8	7.8	29.8 29.1	29.4	77.8 77.3	77.6	5.2 5.2	5.2	5.2	4.6 4.6	4.6		7.8 8.2	8.0	

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

Date	Weather	Sea	Sampling	Water	Sampl	ing	Tempera	ature (°C)	p	Н	Salinit	y (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Т	urbidity(NTl	J)	Susper	; (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-Sep-16	Sunny	Moderate	Moderate 11:48		Surface	1.0	28.5 28.4	28.4	8.2 8.2	8.2	28.5 29.0	28.7	80.7 83.0	81.9	5.4 5.5	5.4	5.4	3.2 3.1	3.2		5.8 5.2	5.5	
				5.2	Middle		-	-	-	-	-	-	-	-	-	-	5.4	-	-	3.2	-	-	5.0
					Bottom	4.2	28.3 28.2	28.2	8.2 8.2	8.2	28.8 29.6	29.2	80.6 81.1	80.9	5.4 5.4	5.4	5.4	3.1 3.2	3.2	<u> </u>	4.2 4.8	4.5	
26-Sep-16	Sunny	Moderate	17:51		Surface	1.0	29.1 29.2	29.2	8.4 8.4	8.4	26.8 26.7	26.7	85.9 86.6	86.3	5.7 5.7	5.7	5.7	2.0 1.8	1.9		4.4 5.2	4.8	
				5.1	Middle			-	-	-	-	-		-	-	-	5.7	-	-	2.1	-	-	6.3
					Bottom	4.1	28.7 28.8	28.8	8.4 8.4	8.4	28.6 28.6	28.6	86.0 86.1	86.1	5.7 5.7	5.7	5.7	2.3 2.1	2.2		7.4 8.1	7.8	
28-Sep-16	Fine	Rough	18:52		Surface	1.0	28.8 28.8	28.8	8.4 8.4	8.4	26.7 26.6	26.7	84.7 85.0	84.9	5.6 5.7	5.7	5.7	3.3 3.4	3.4		7.4 9.0	8.2	
				5.3	Middle	-	-	-	-	-	-	-	-	-	-	-	5.7	-	-	3.4	-	-	8.4
					Bottom	4.3	28.8 28.8	28.8	8.4 8.4	8.4	26.8 26.8	26.8	84.6 84.6	84.6	5.6 5.6	5.6	5.6	3.3 3.5	3.4	<u> </u>	8.1 9.0	8.6	
30-Sep-16	Cloudy	Moderate	05:16		Surface	1.0	28.0 27.9	27.9	8.2 8.2	8.2	29.9 28.7	29.3	84.9 82.1	83.5	5.6 5.5	5.5	5.5	6.1 6.2	6.2		5.1 5.3	5.2	
				5.0	Middle	-		-	• •	-	-	-	-	-		-	5.5	-	-	6.2	-	-	5.9
					Bottom	4.0	28.2 28.2	28.2	8.2 8.1	8.2	30.9 31.5	31.2	81.7 83.3	82.5	5.4 5.5	5.5	5.5	6.1 6.2	6.2	<u> </u>	6.2 6.7	6.5	

#### Remarks:

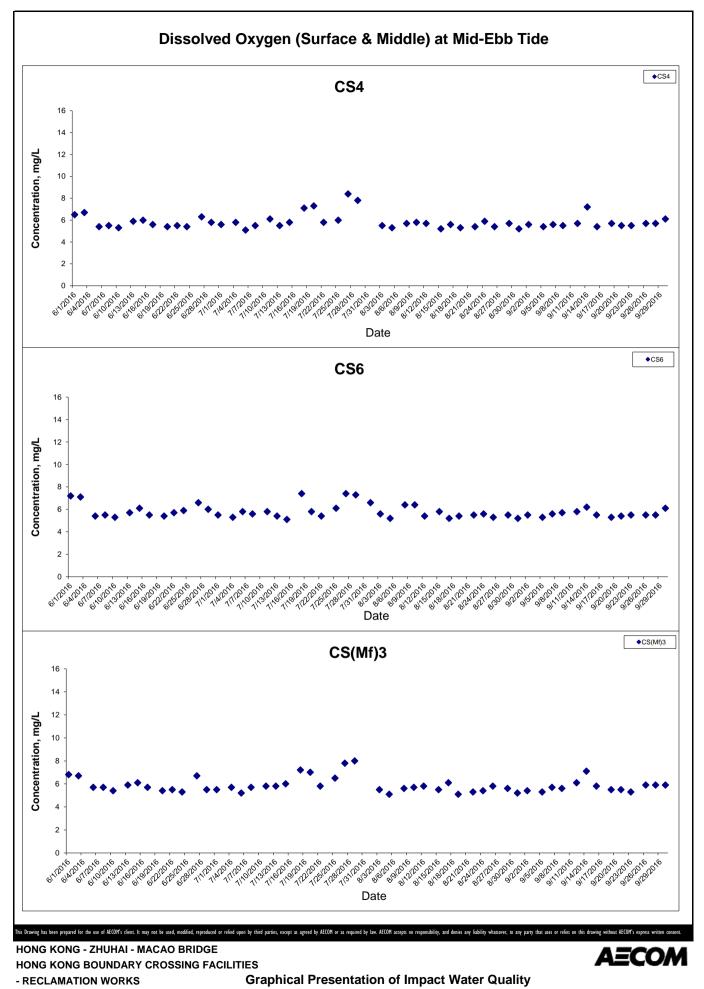
Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

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.

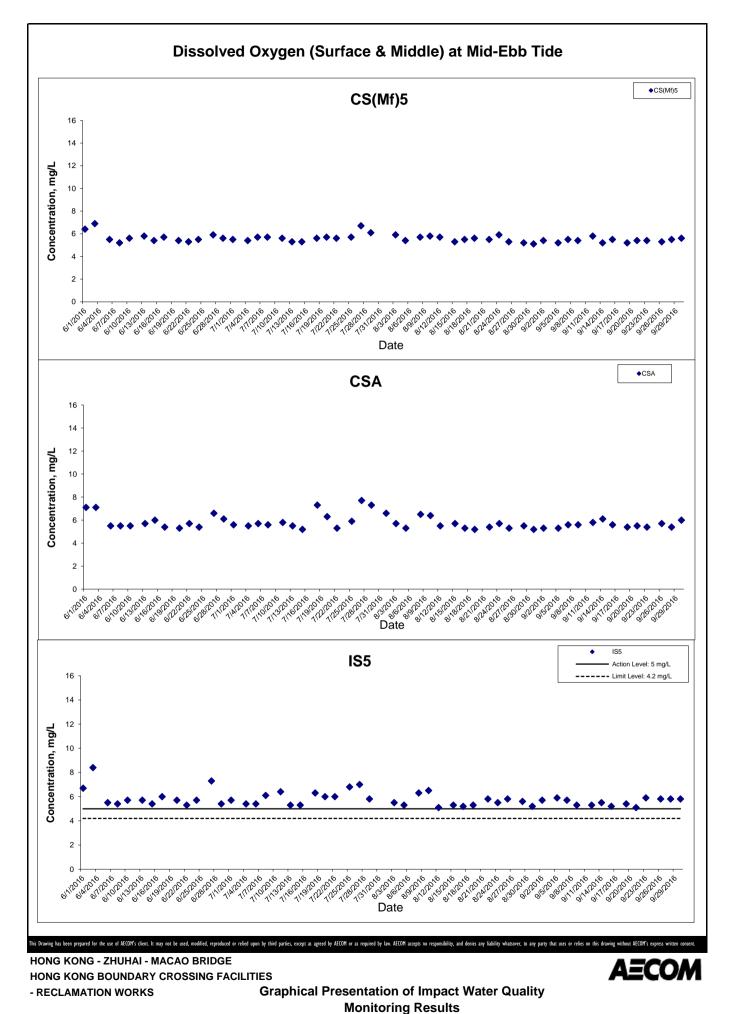
^ The scheduled water quality monitoring during mid-flood tide on 9 September 2016 was cancelled due to thunderstorm Signal hoisted 3 hours before the scheduled monitoring time.

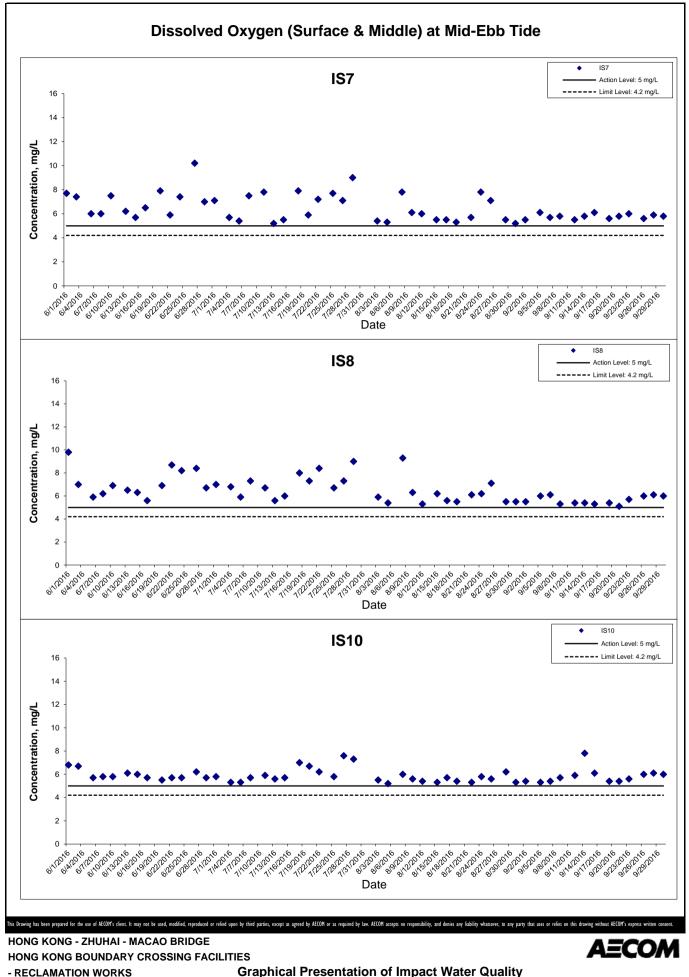
Remarks:

\* DA: Depth-Averaged

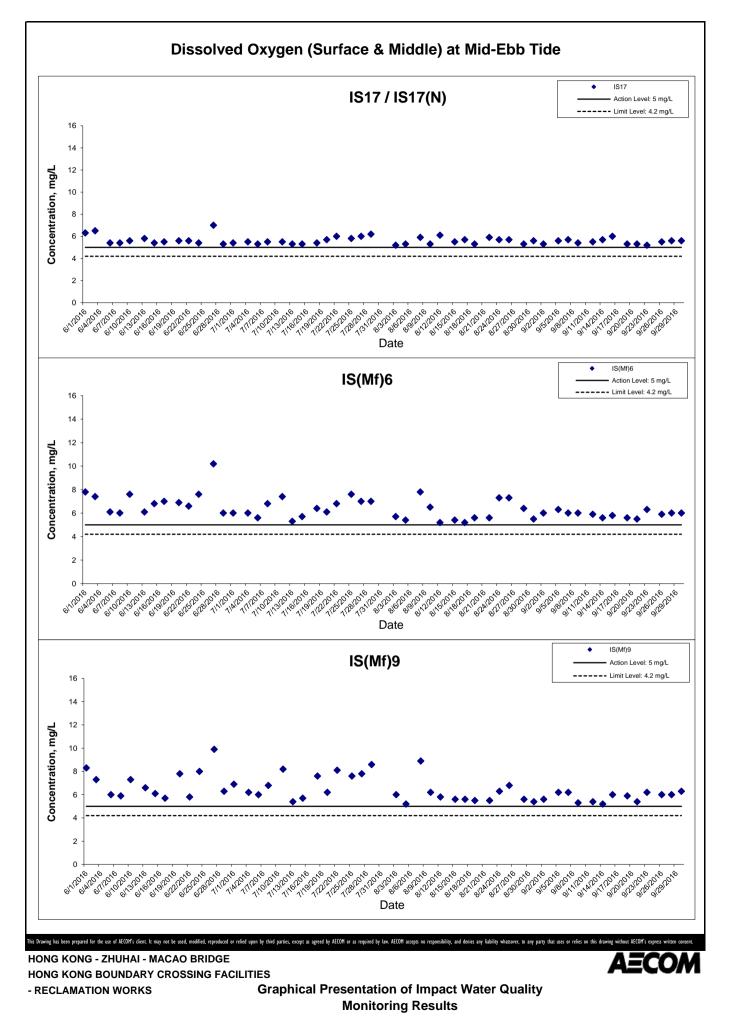


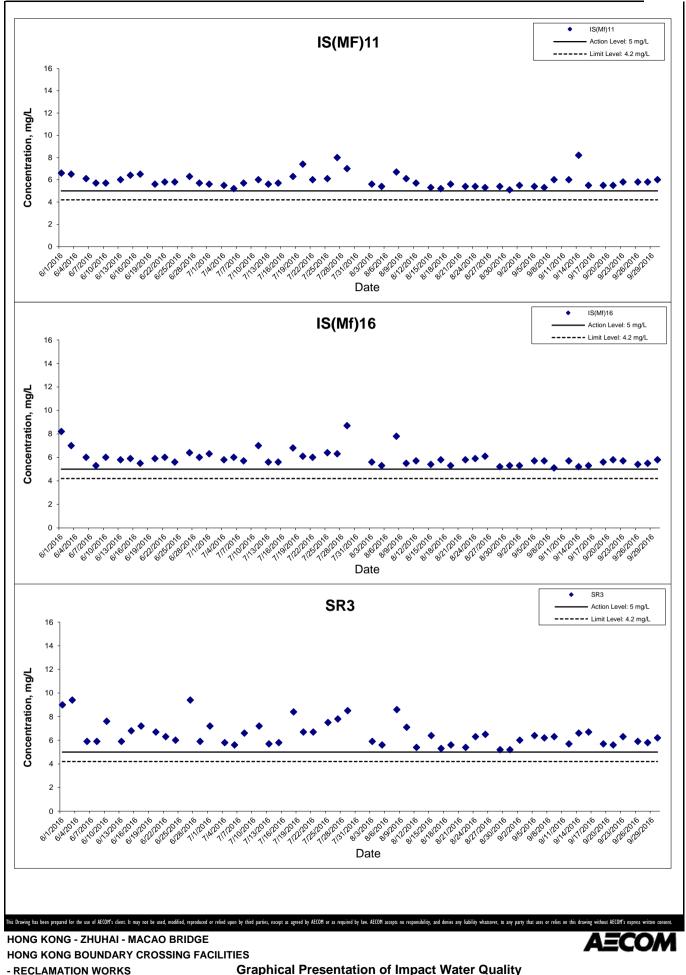
Monitoring Results



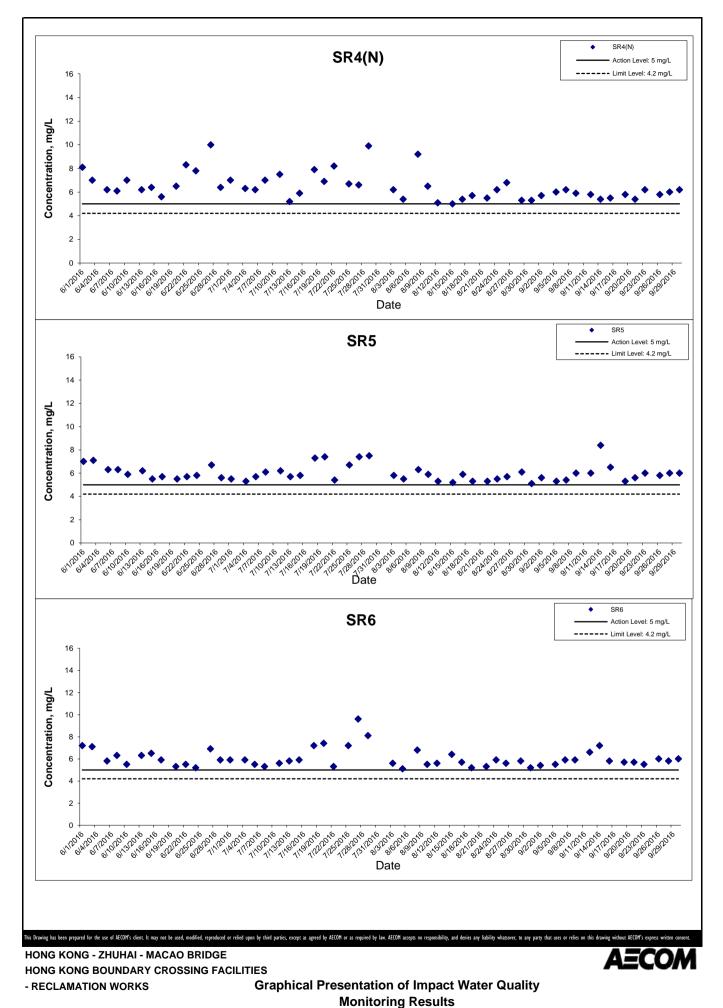


Graphical Presentation of Impact Water Quality Monitoring Results

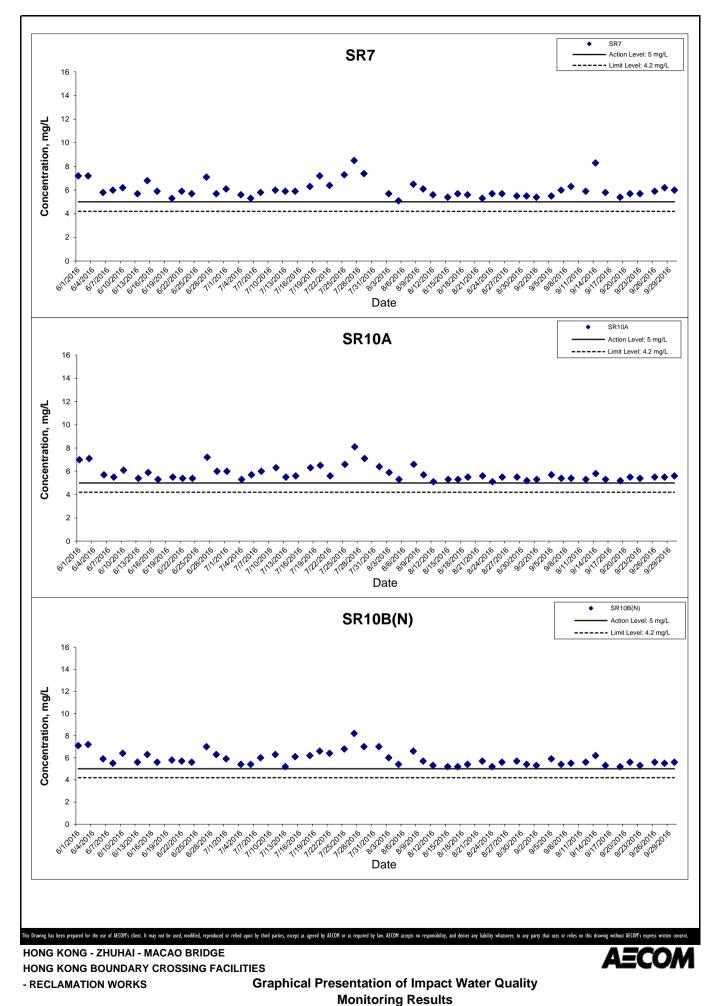




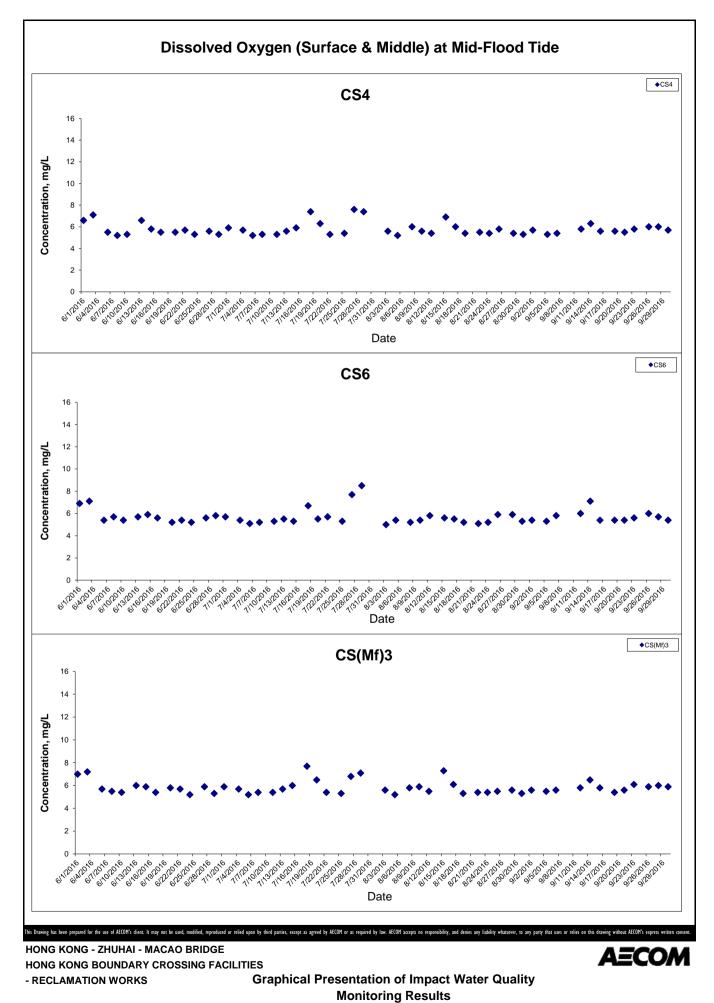
Graphical Presentation of Impact Water Quality Monitoring Results

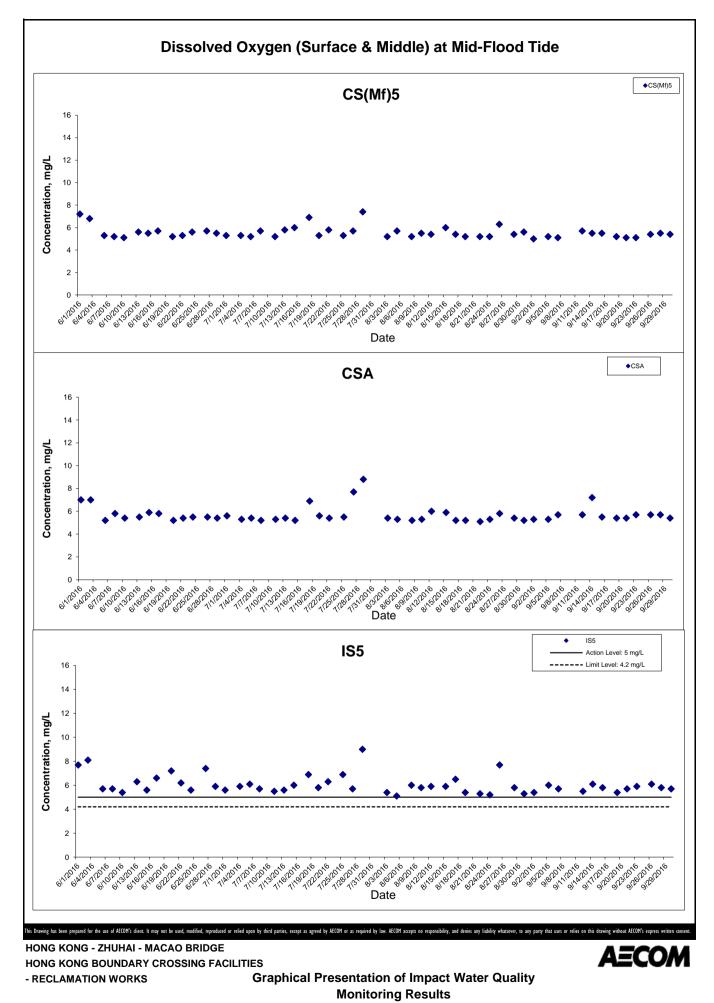


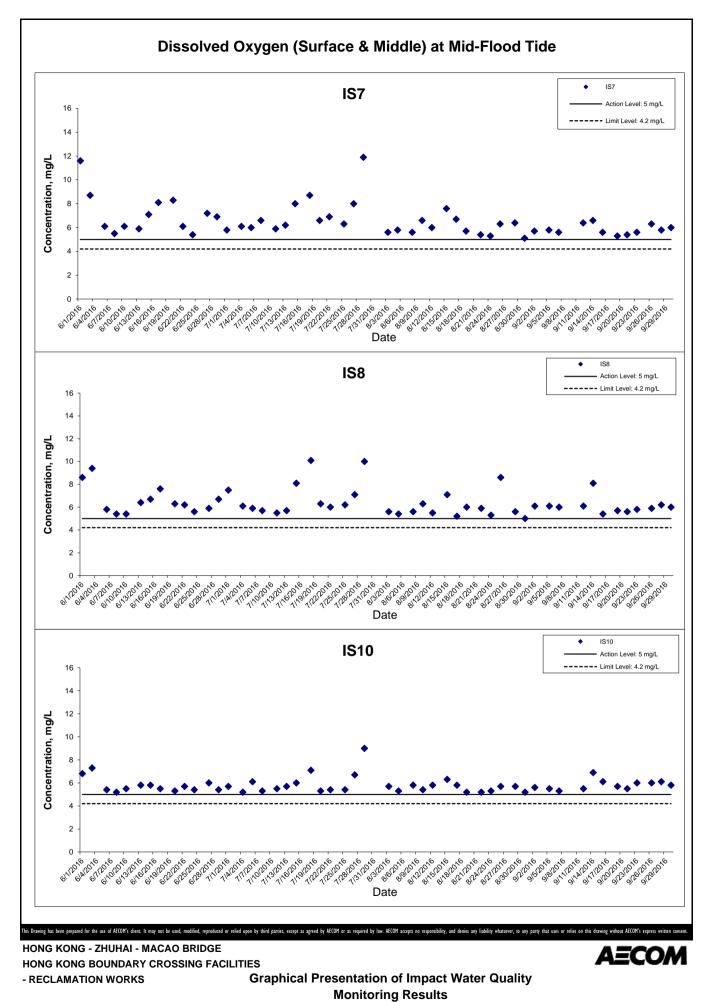
Appendix J



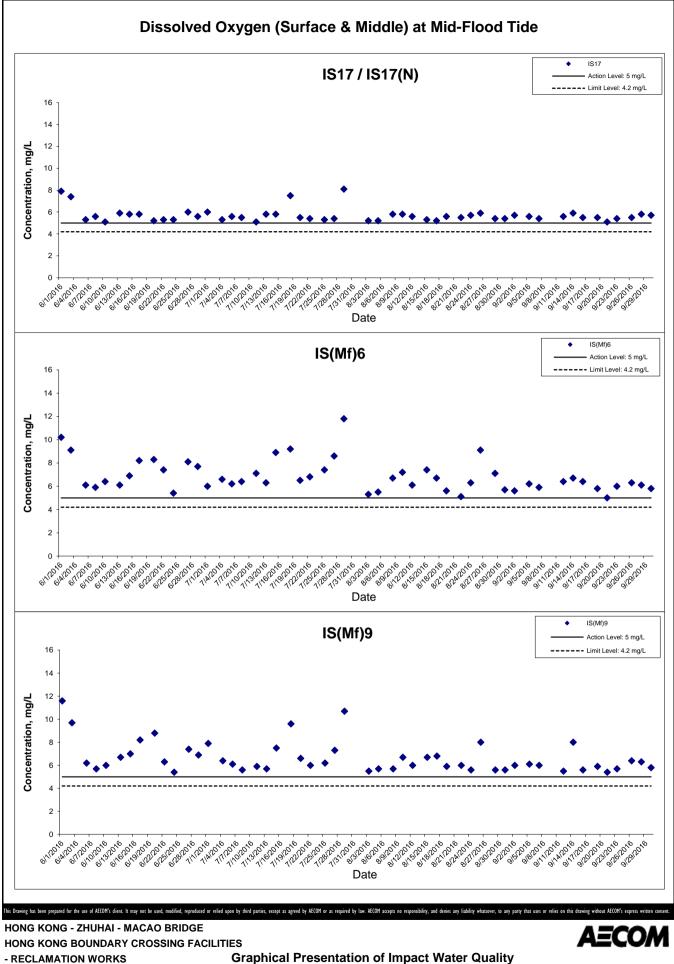
Appendix J



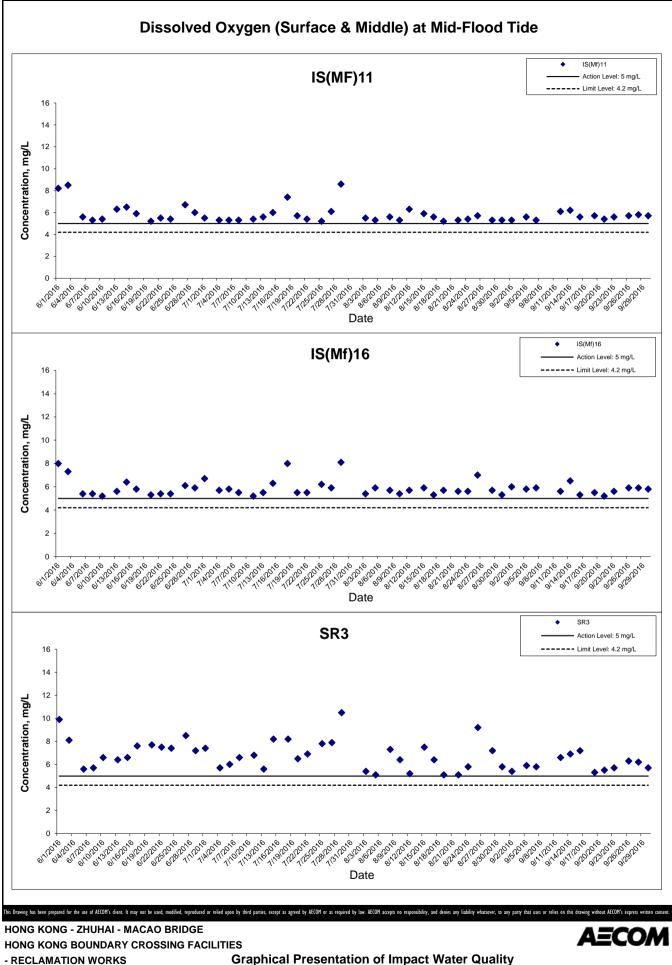




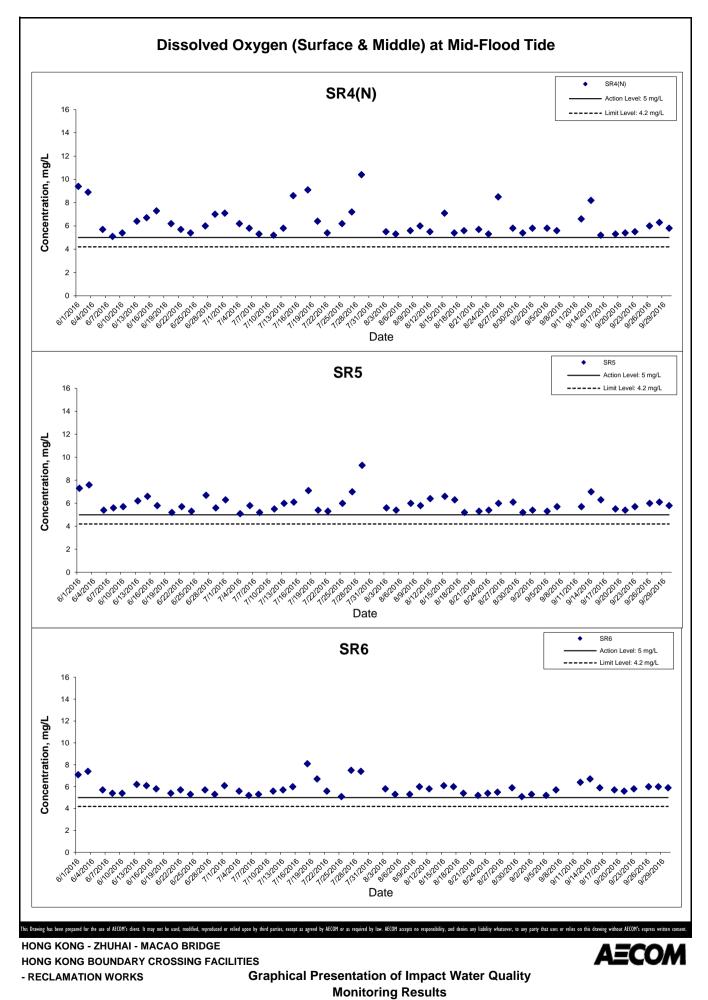
Appendix J



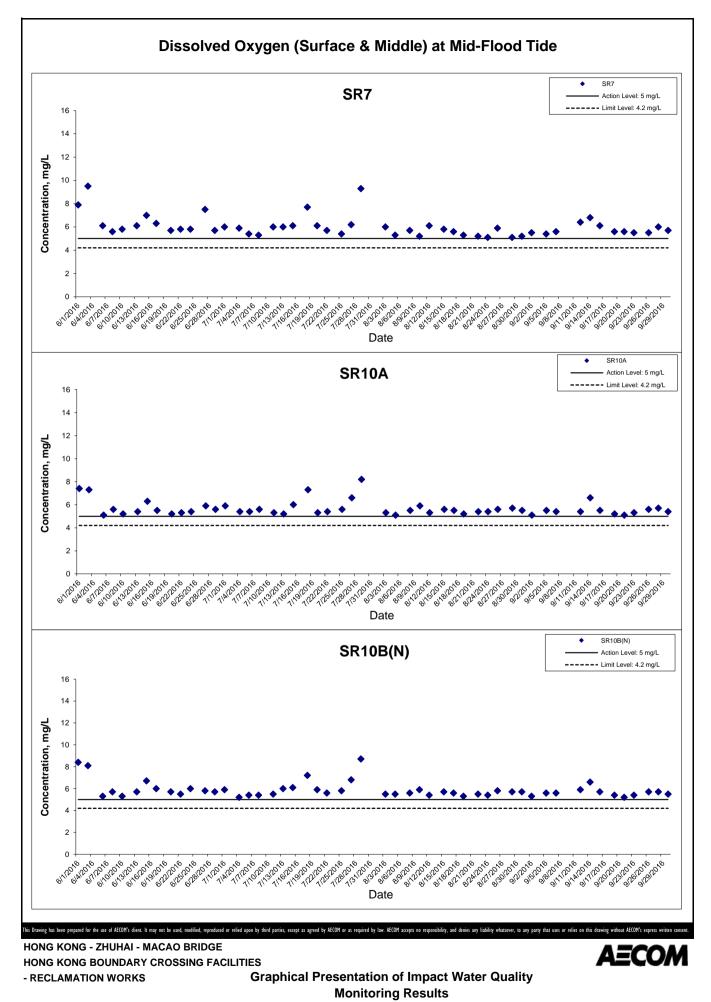
Monitoring Results

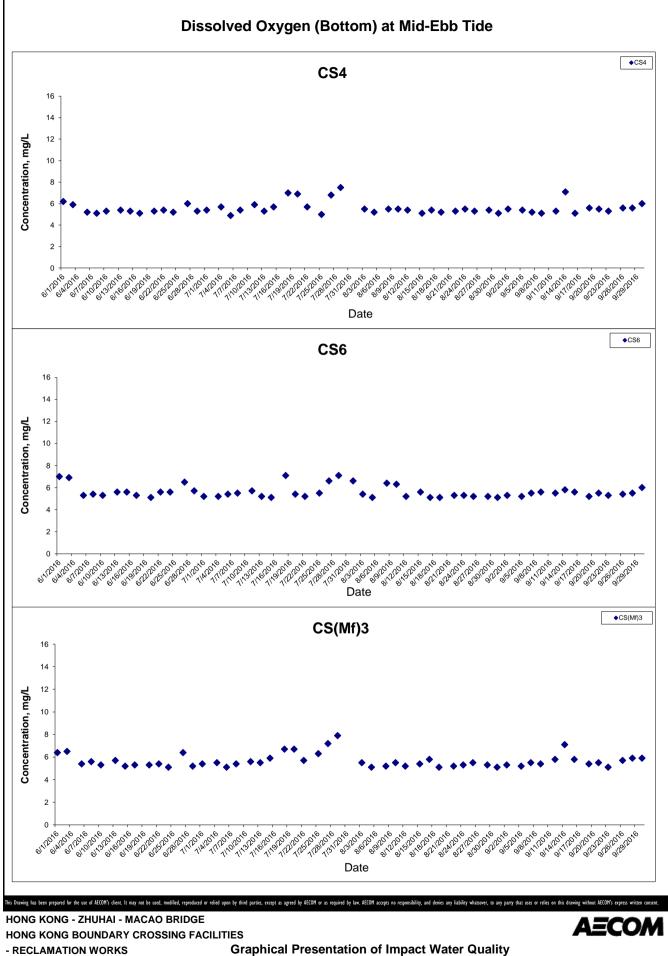


Graphical Presentation of Impact Water Quality Monitoring Results

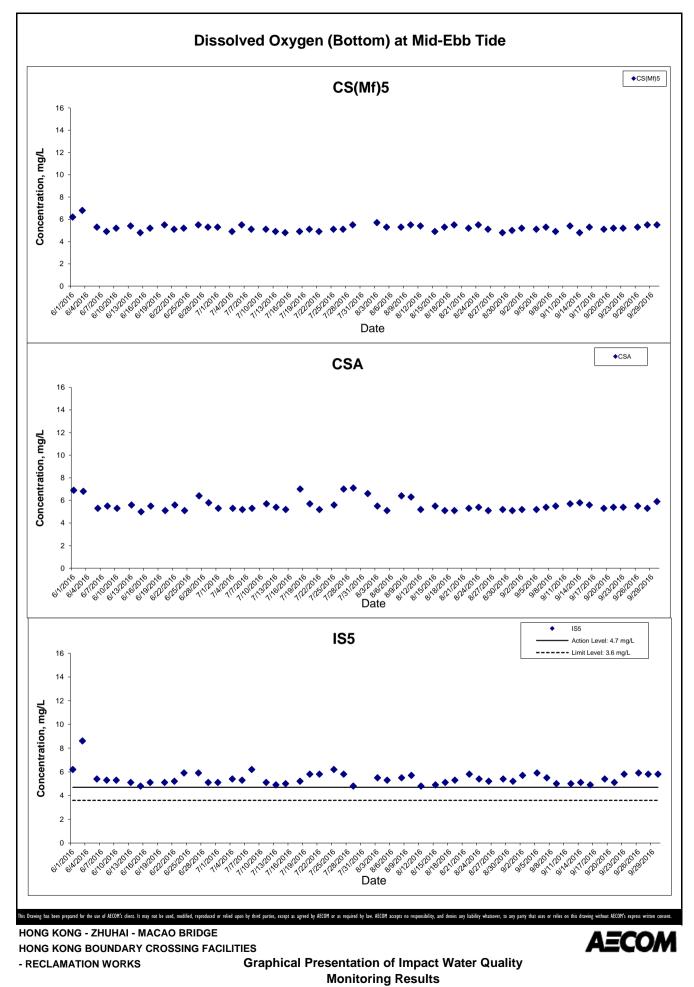


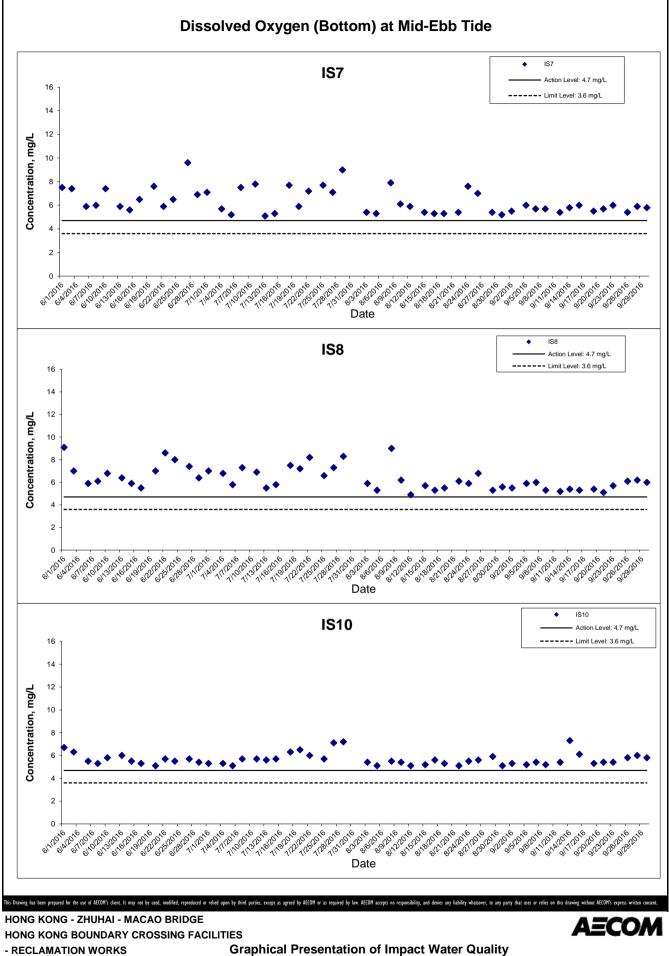
Project No.: 60249820 Date: October 2016



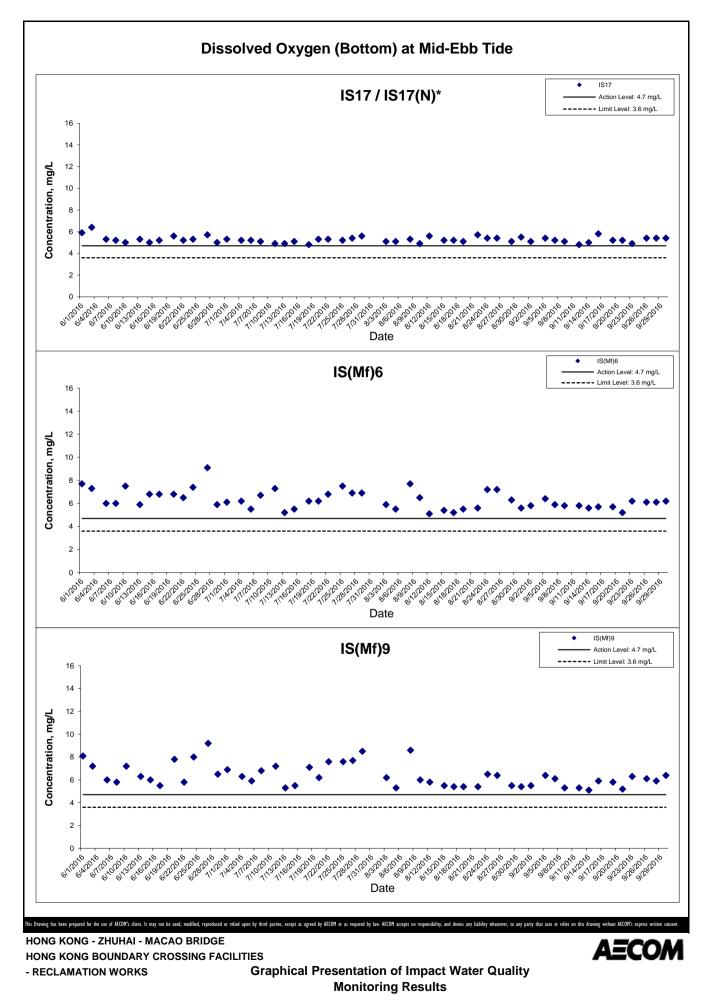


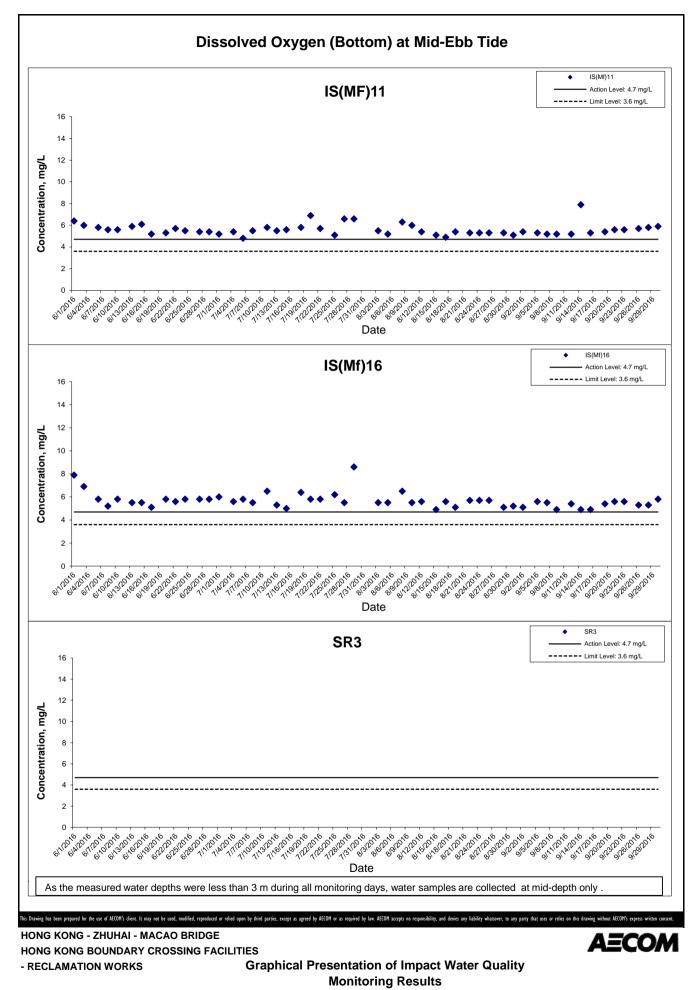
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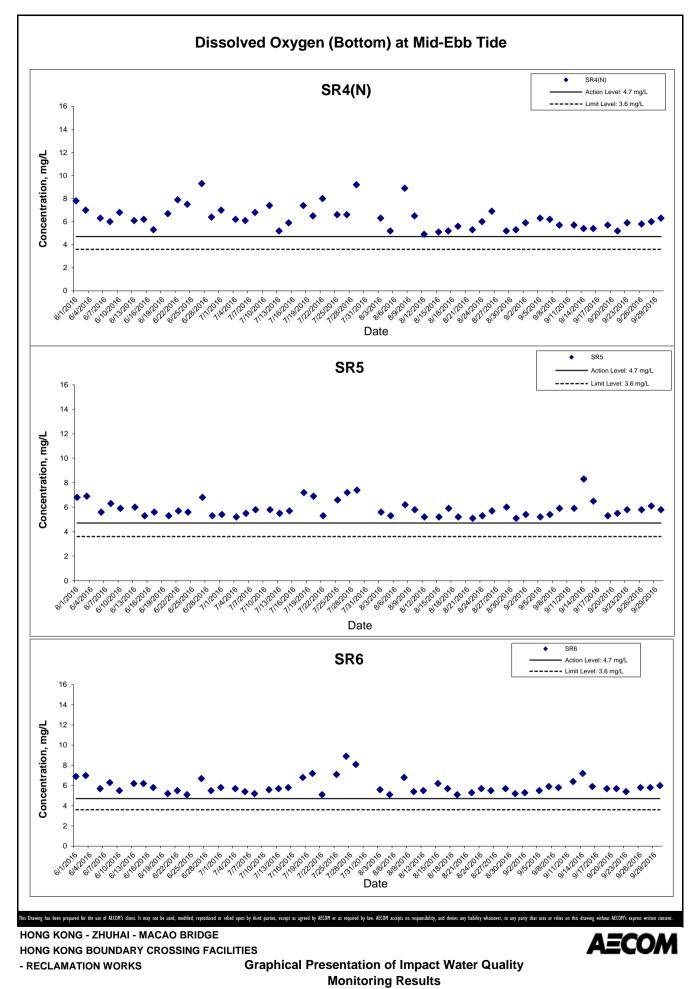


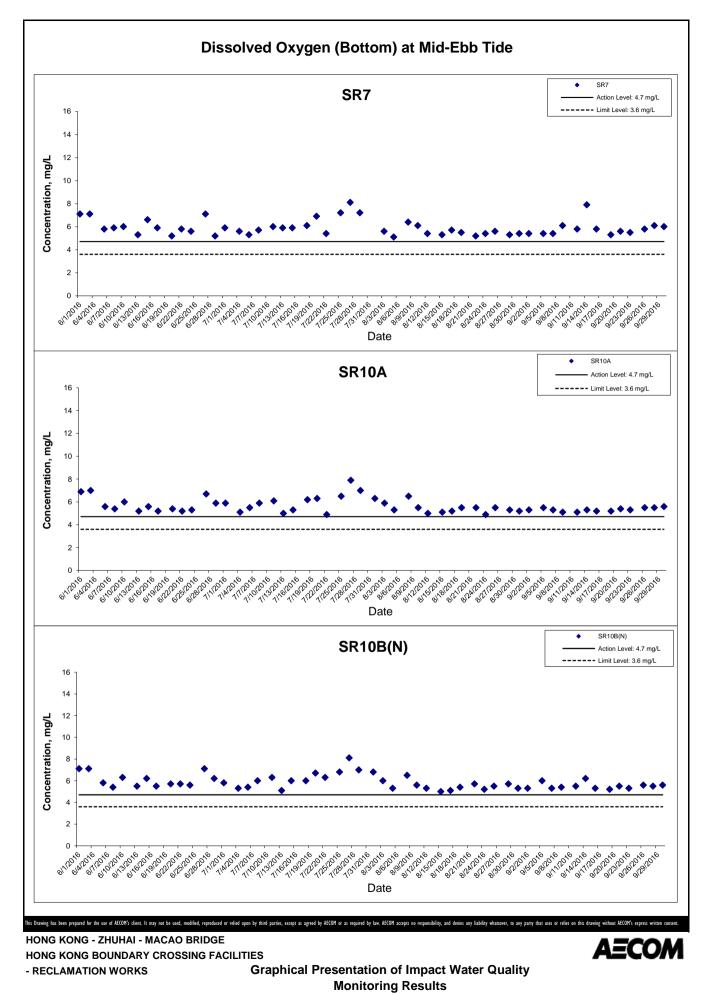
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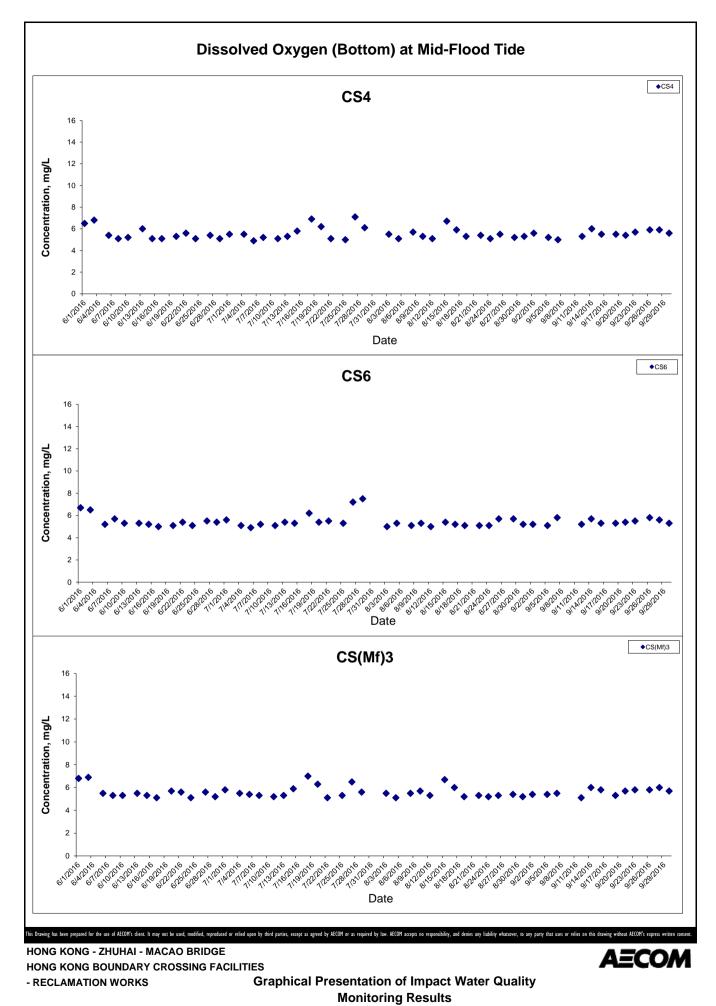


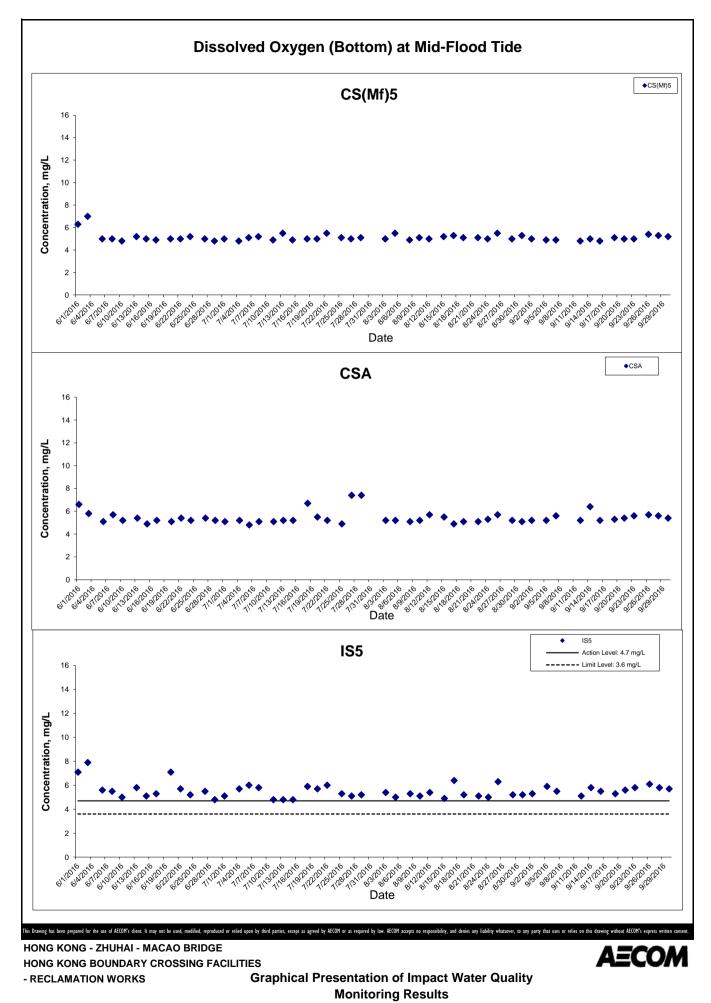


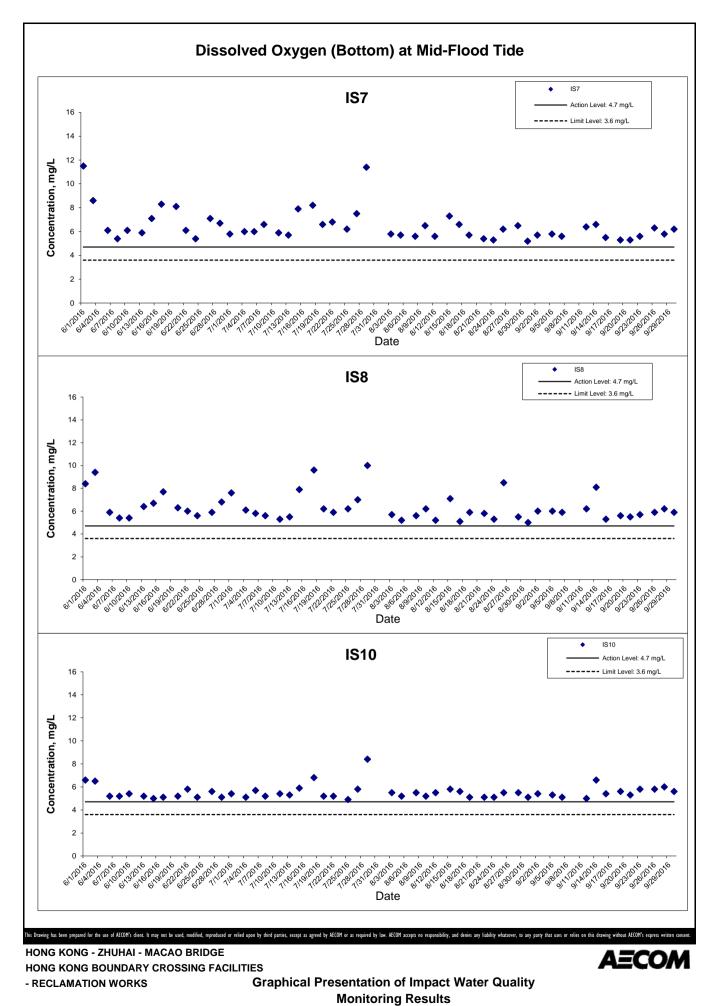
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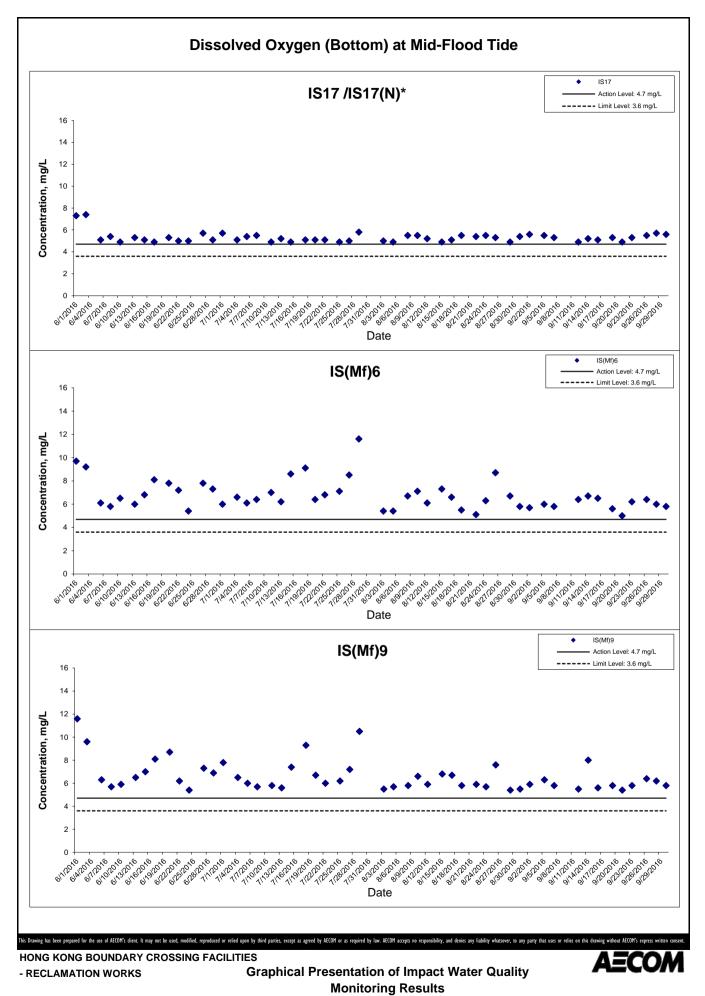


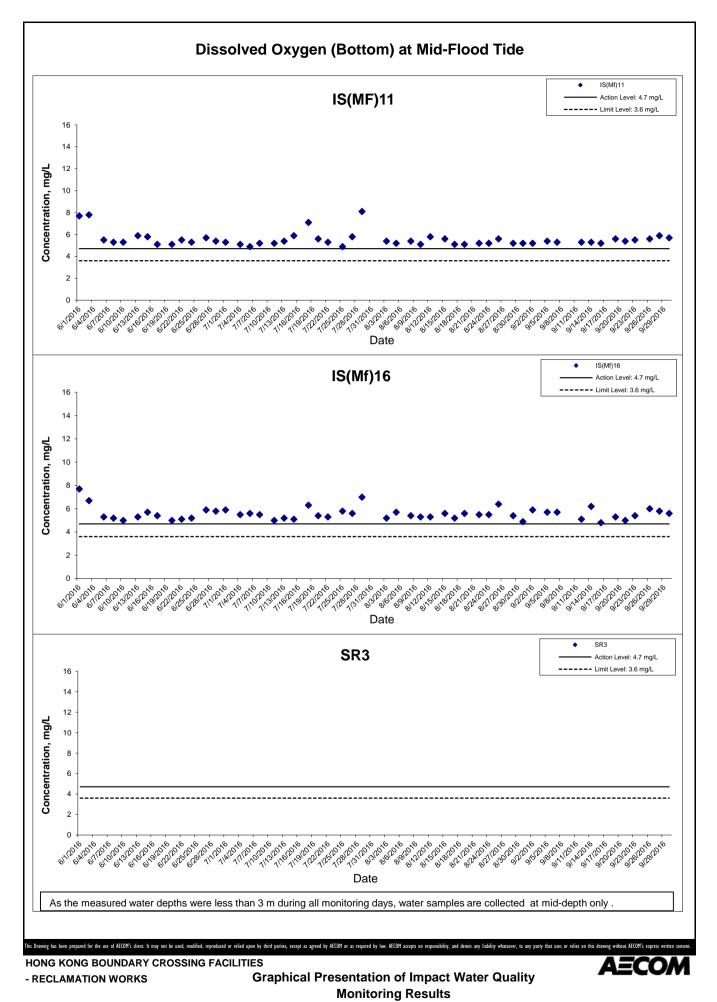


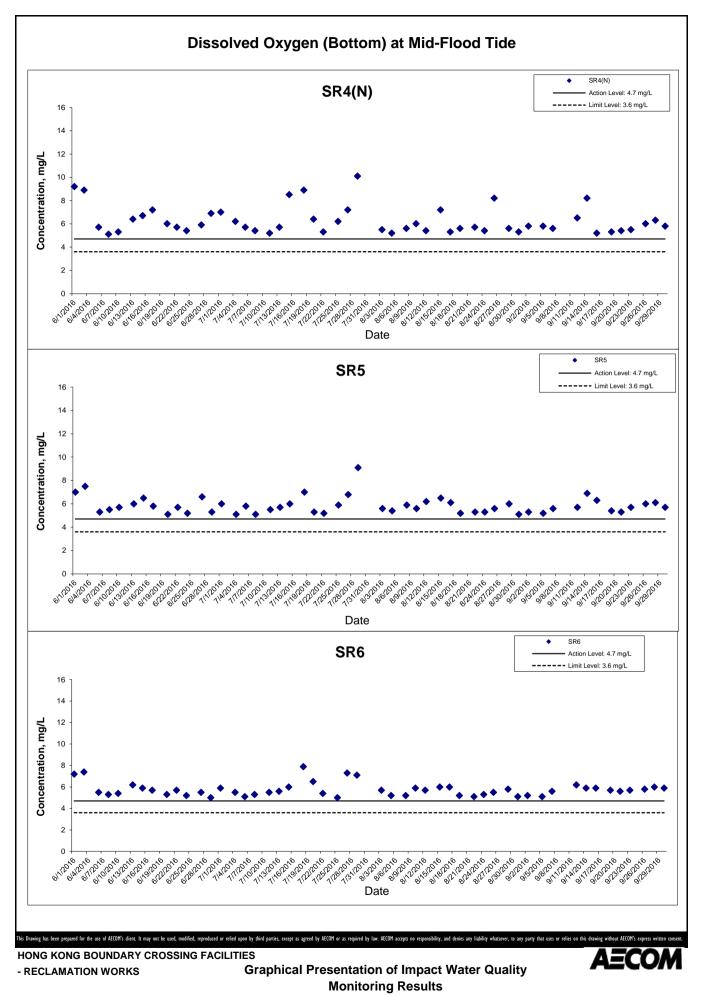


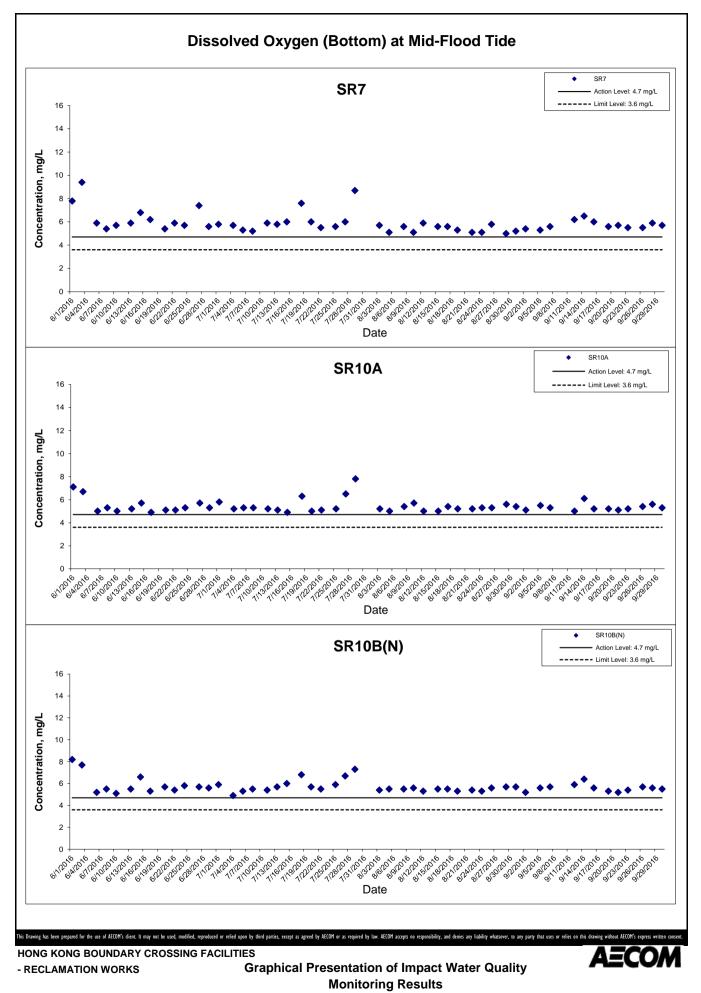


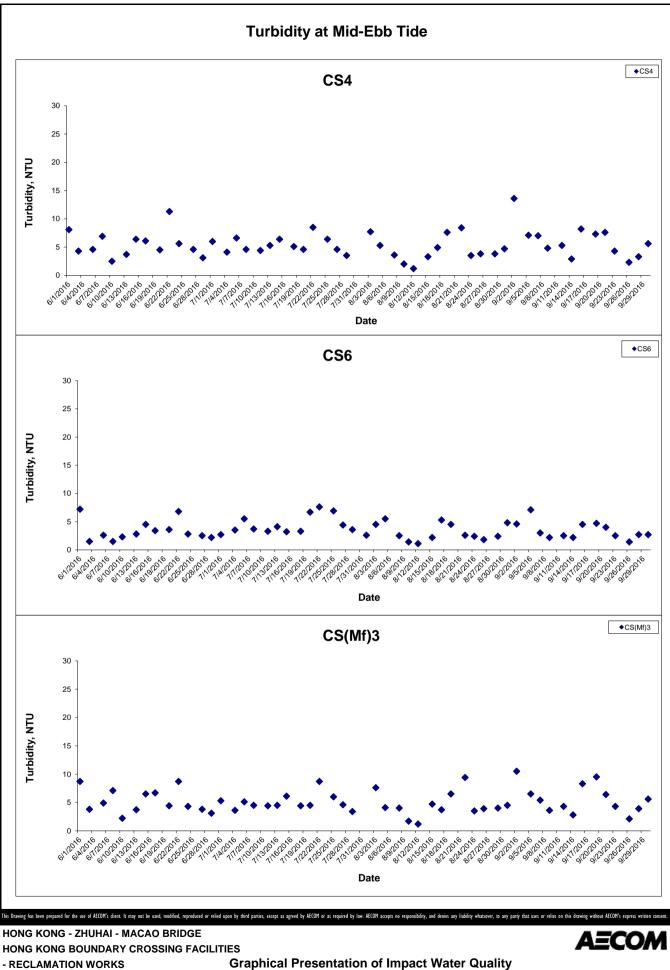
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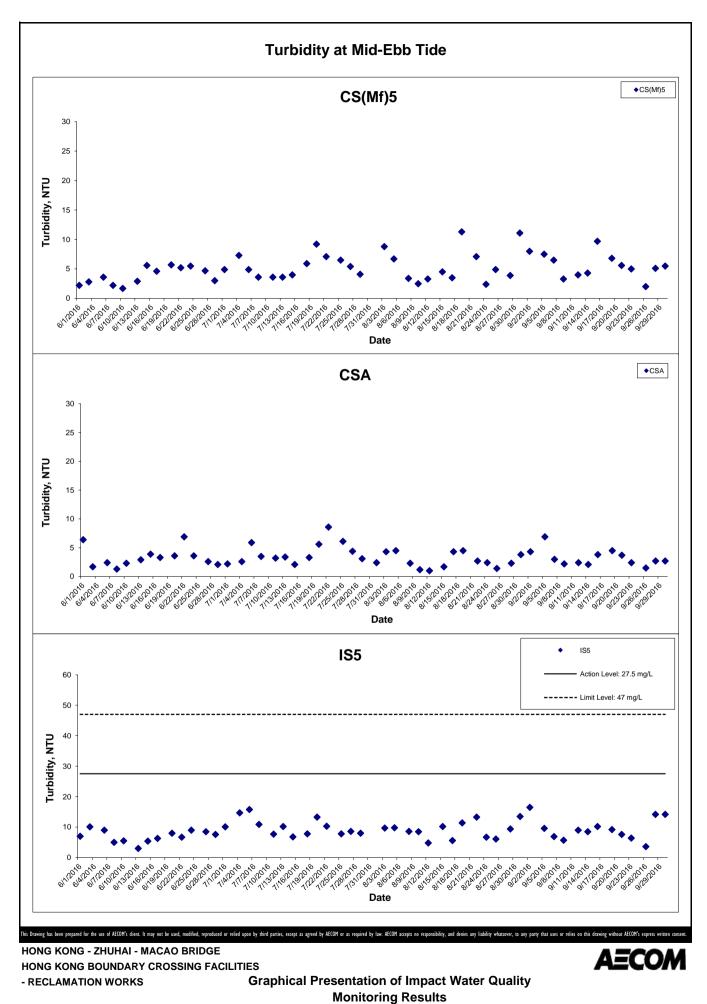




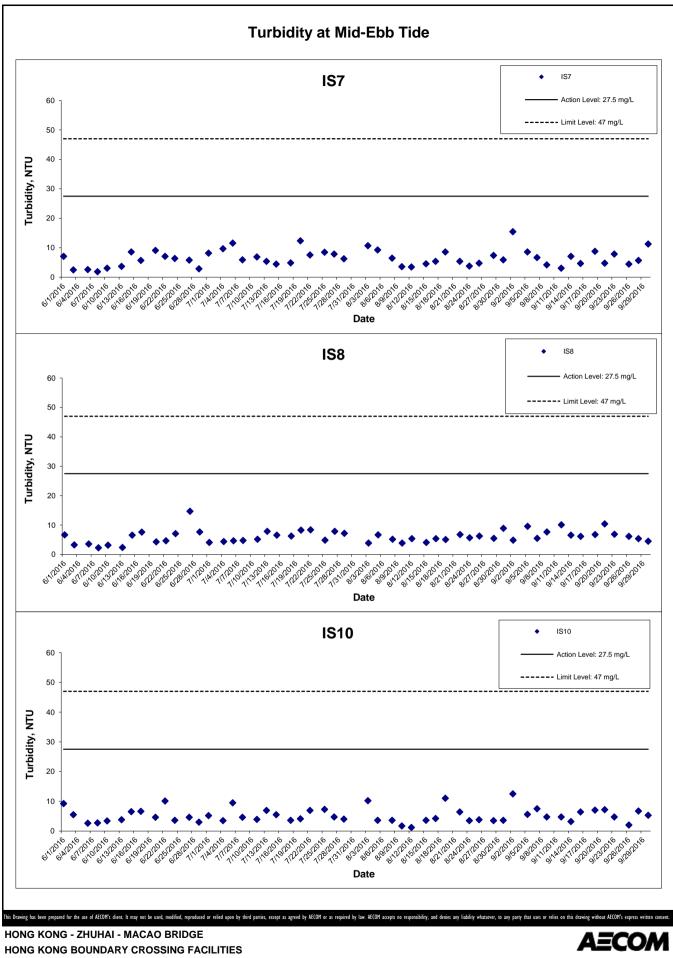




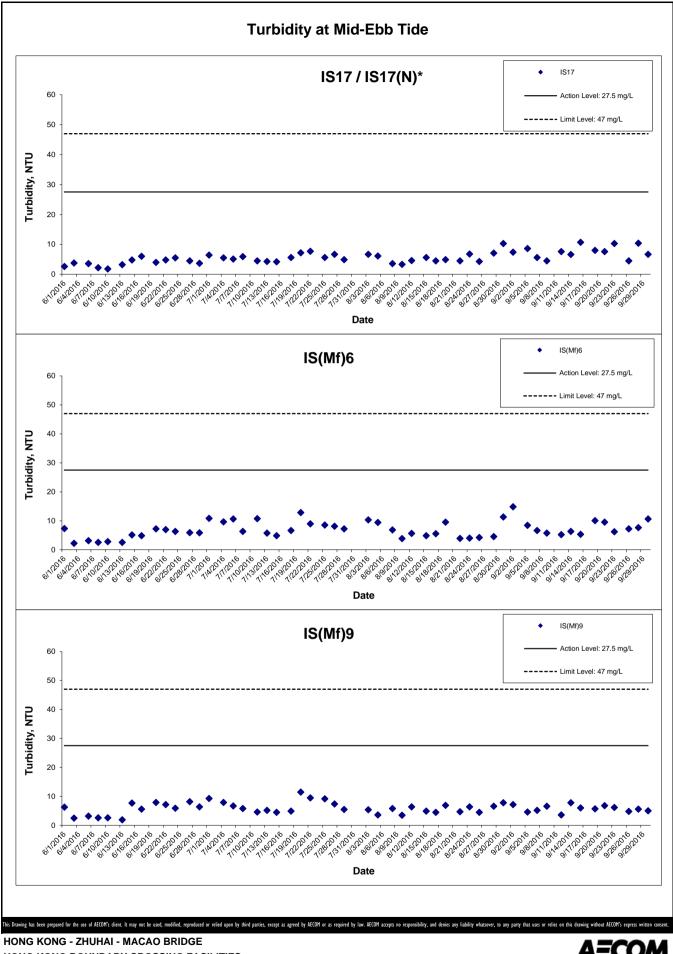




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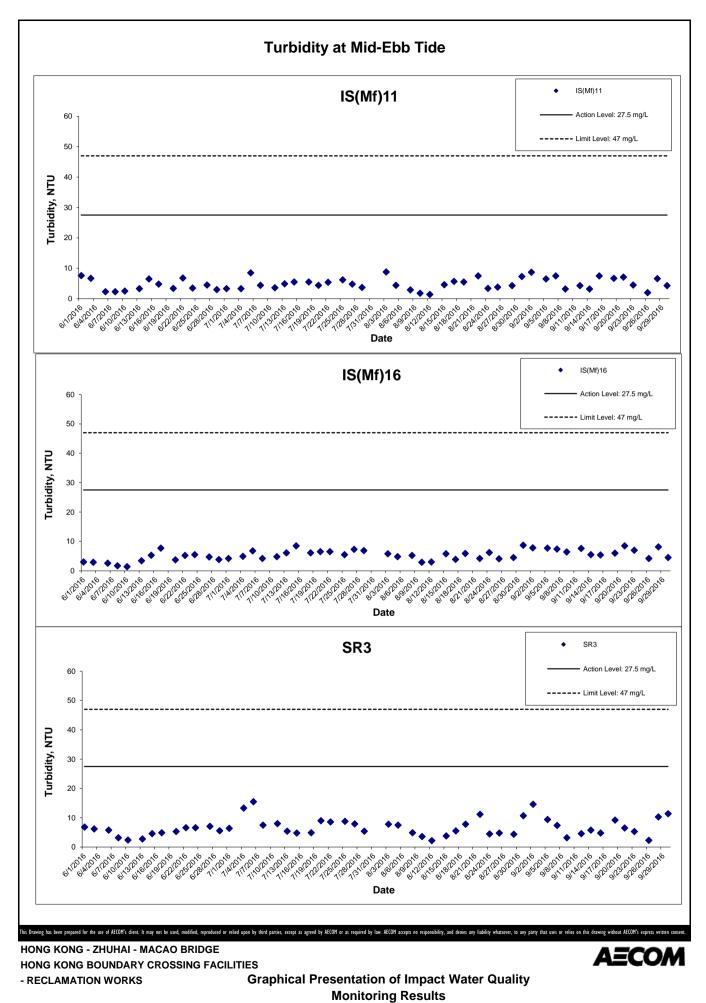
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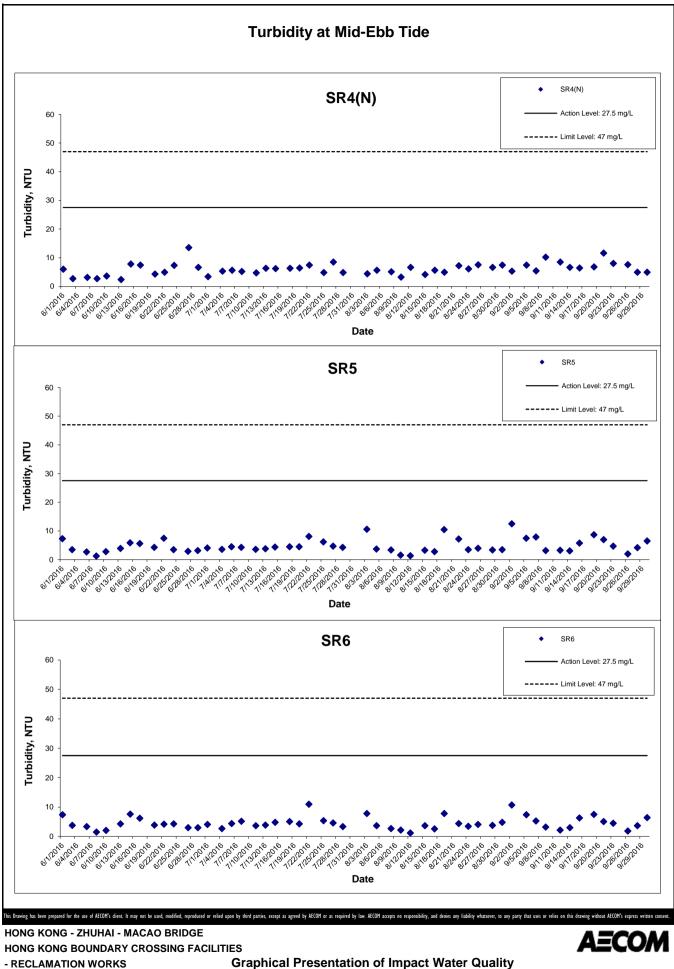
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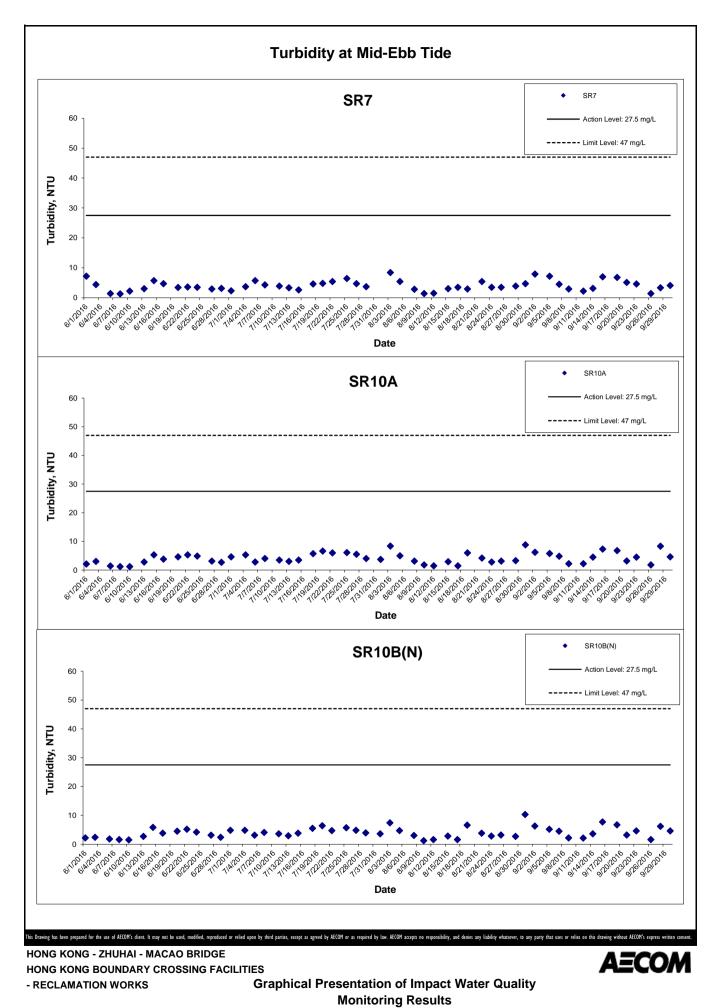
Graphical Presentation of Impact Water Quality Monitoring Results

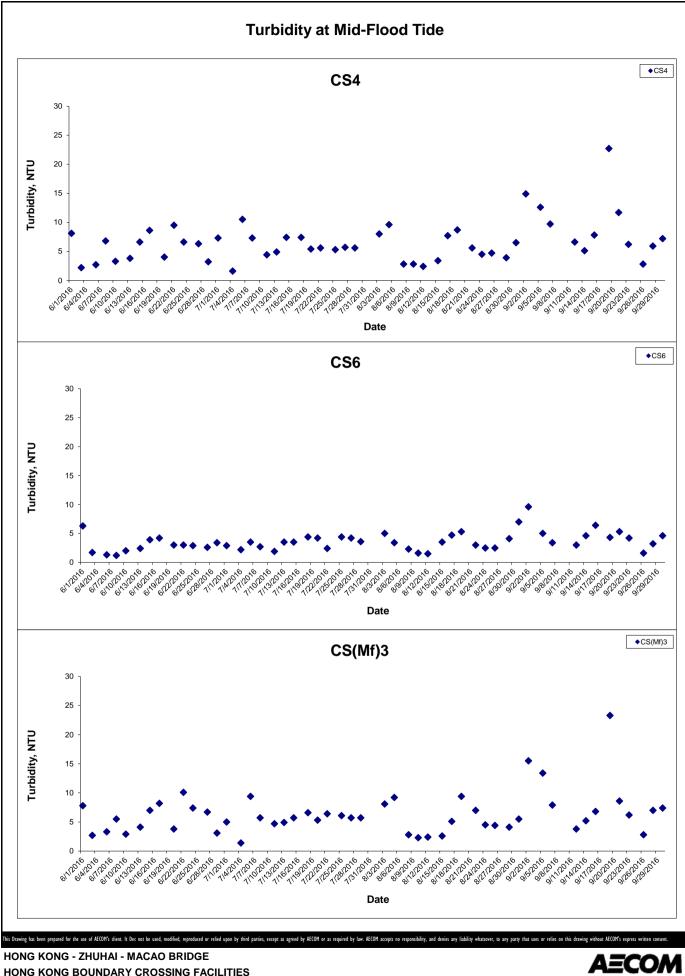
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Appendix J

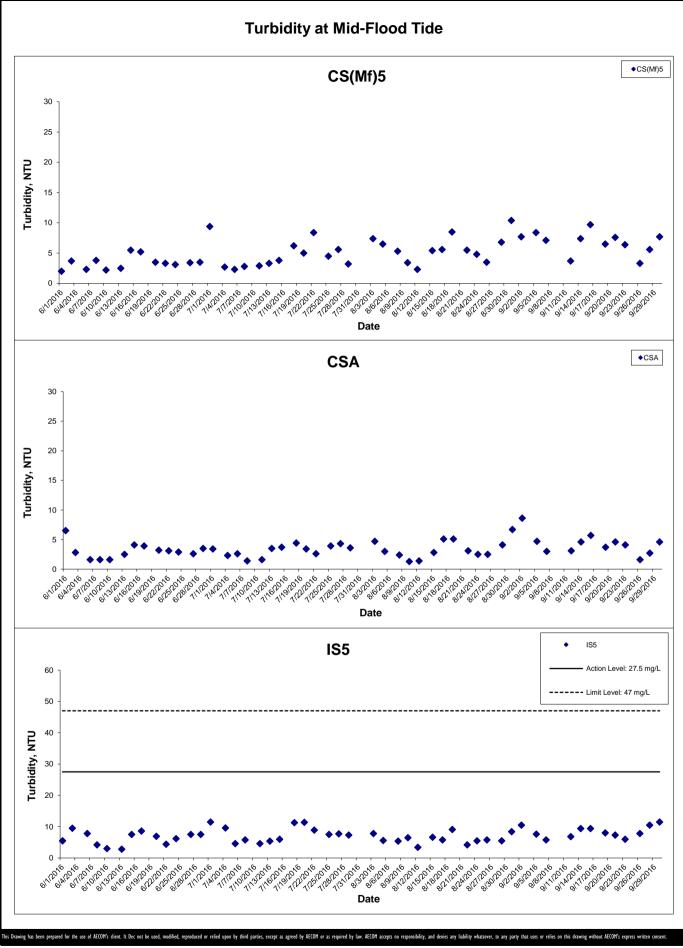






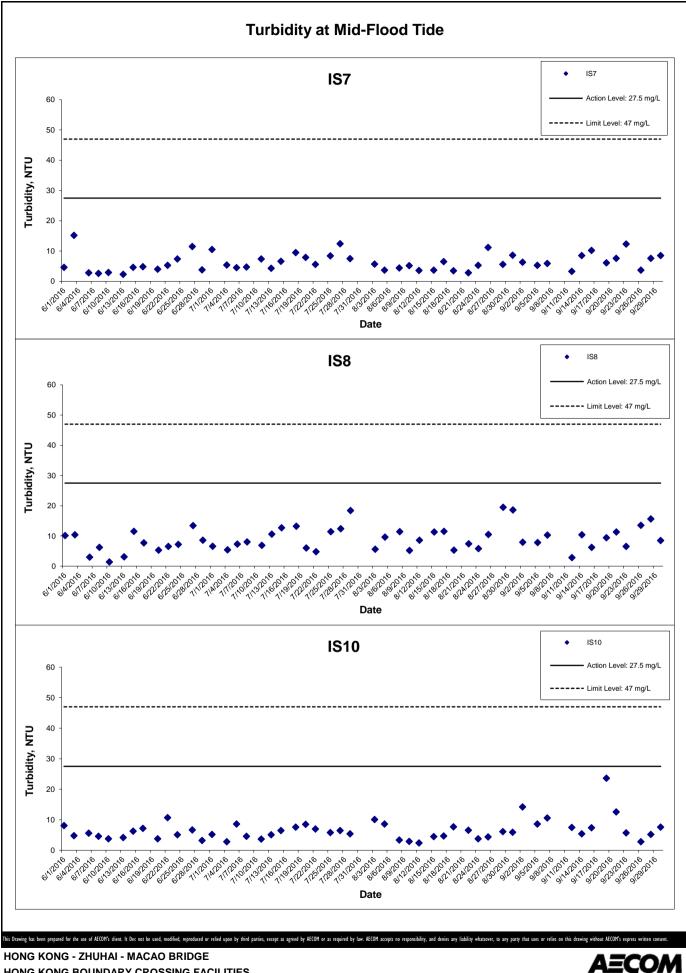
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HONG KONG - ZHUHAI - MACAO BRIDGE HONG KONG BOUNDARY CROSSING FACILITIES - RECLAMATION WORKS Graphical

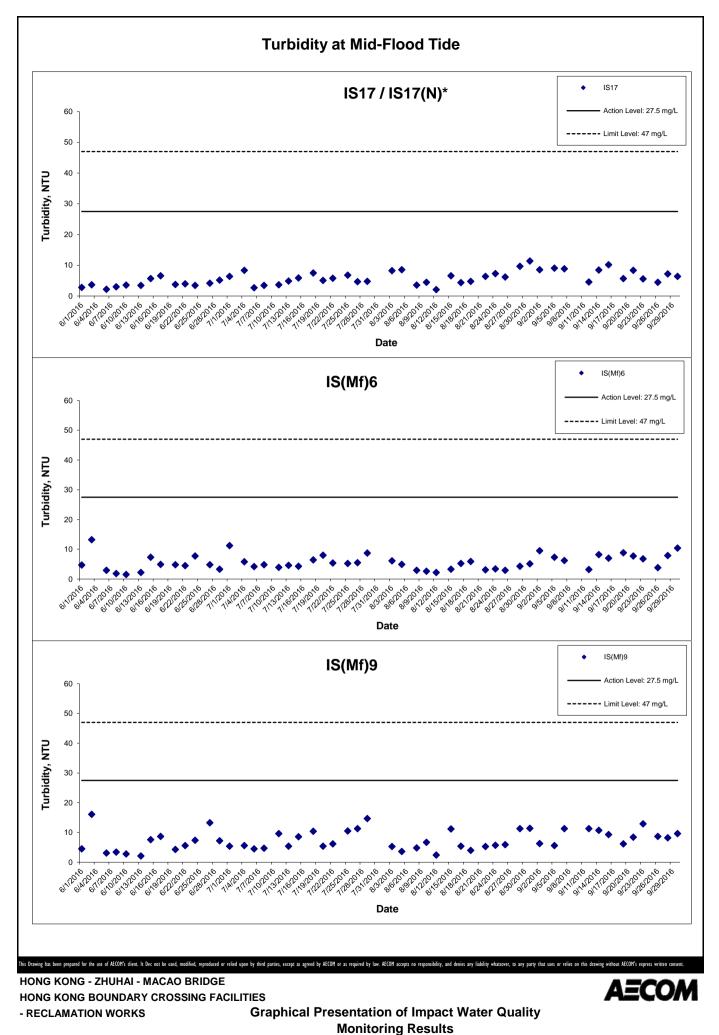
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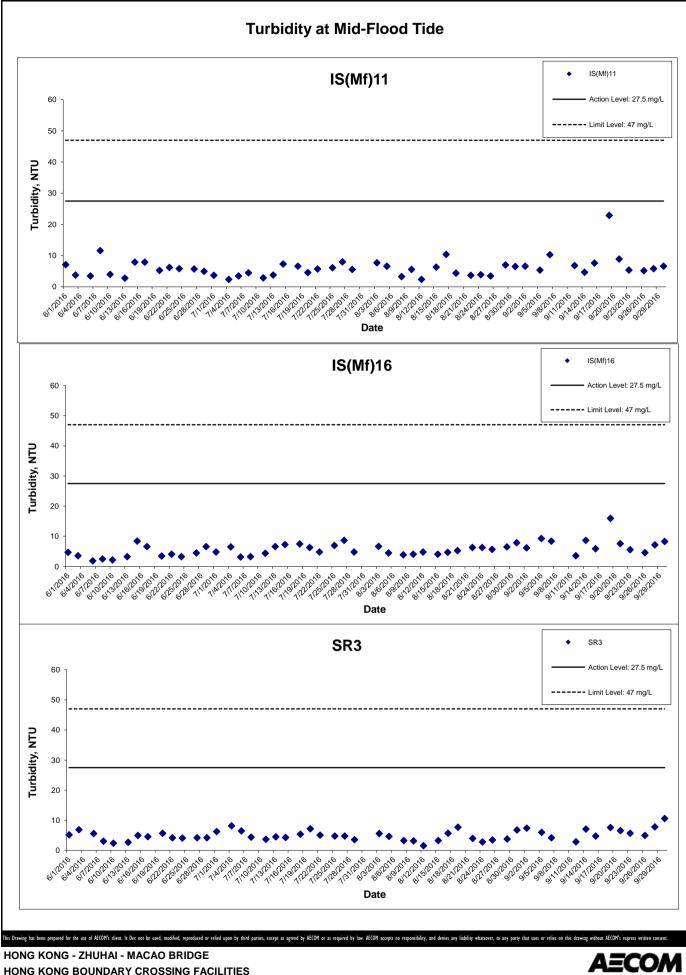


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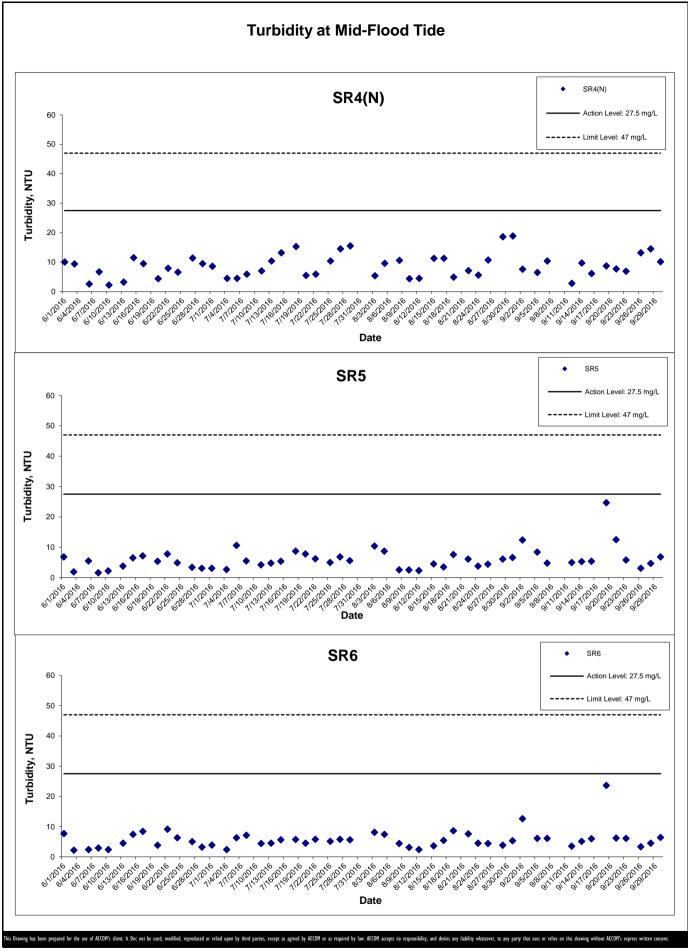
**Graphical Presentation of Impact Water Quality Monitoring Results** 

- RECLAMATION WORKS



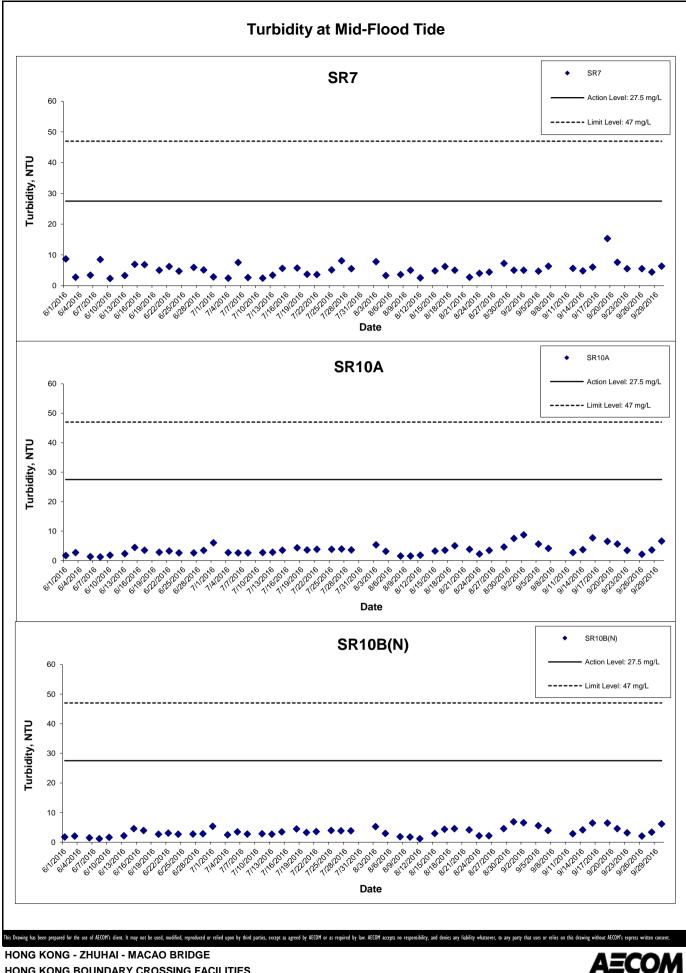


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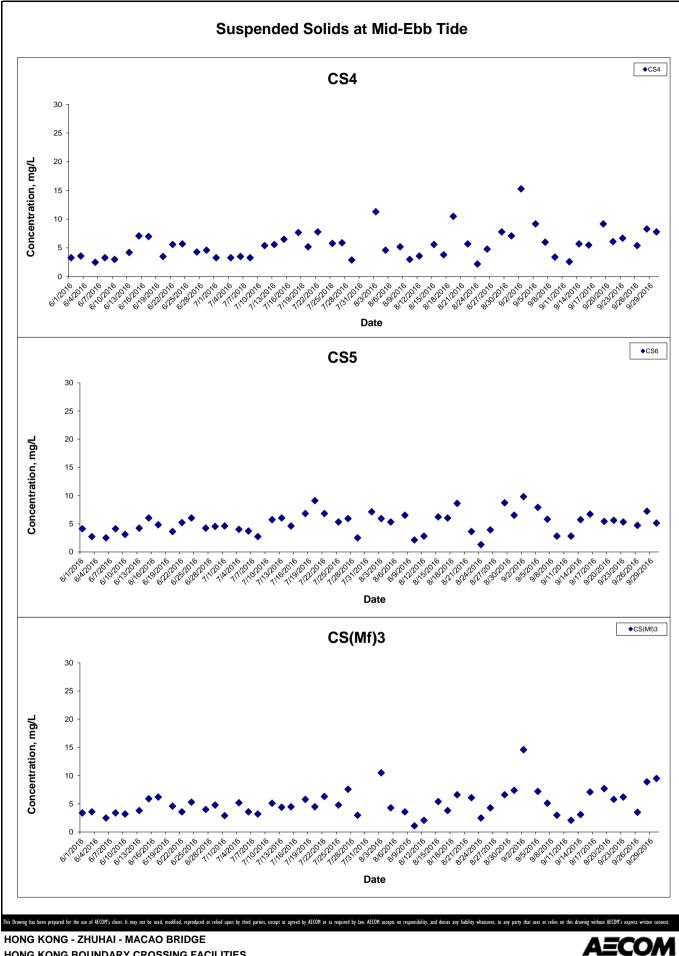


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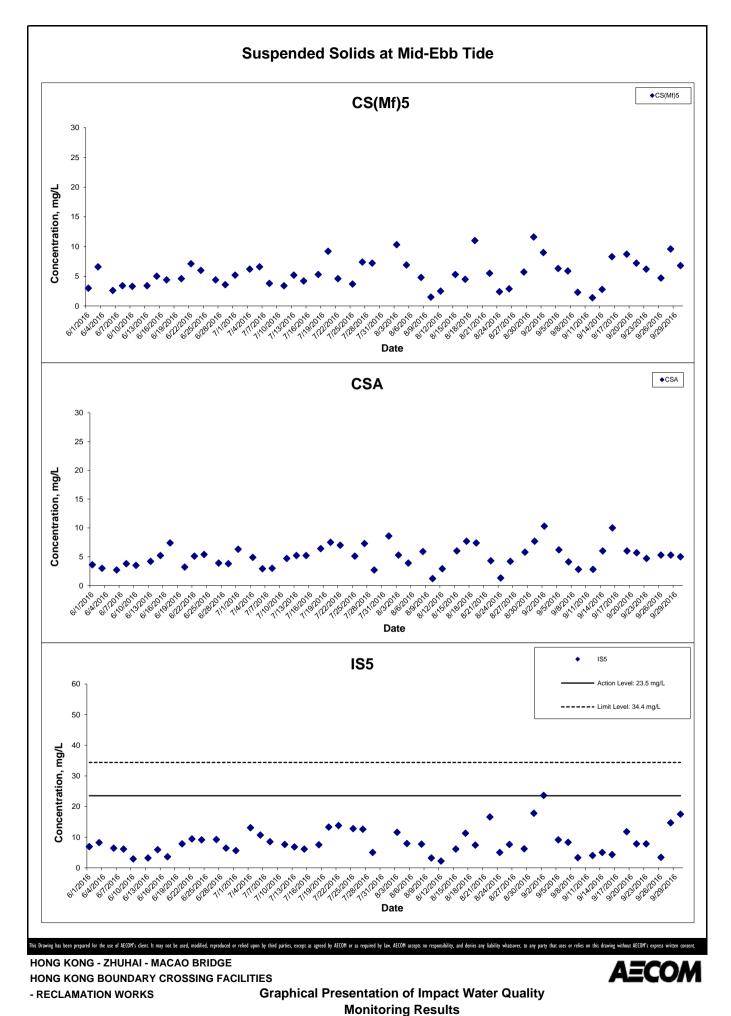
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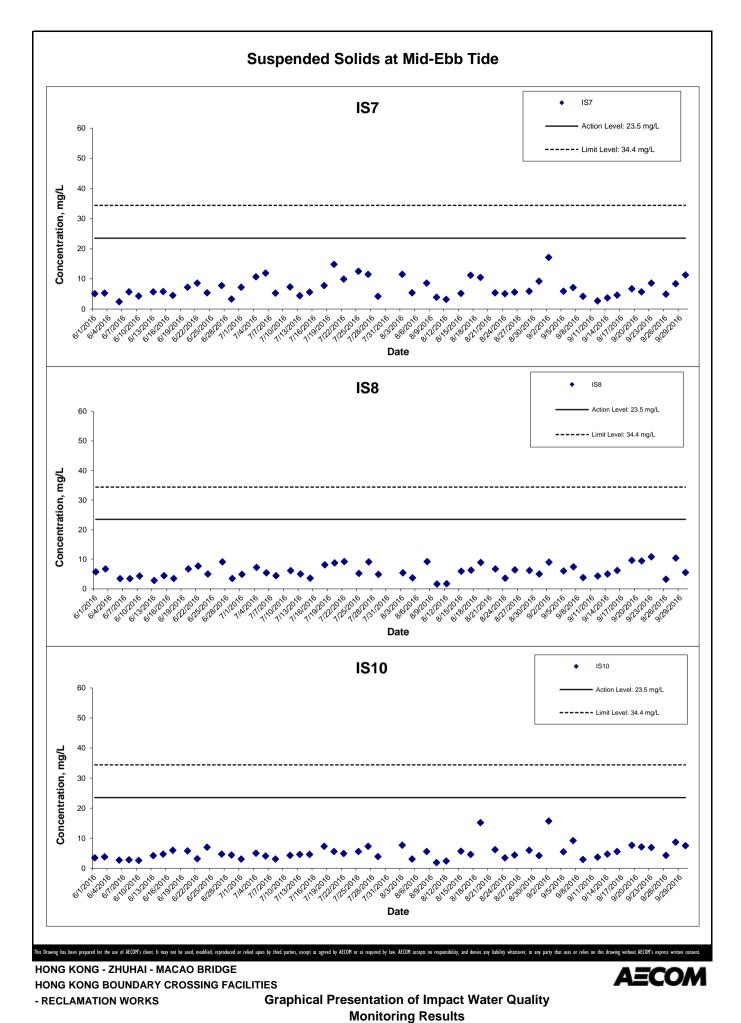


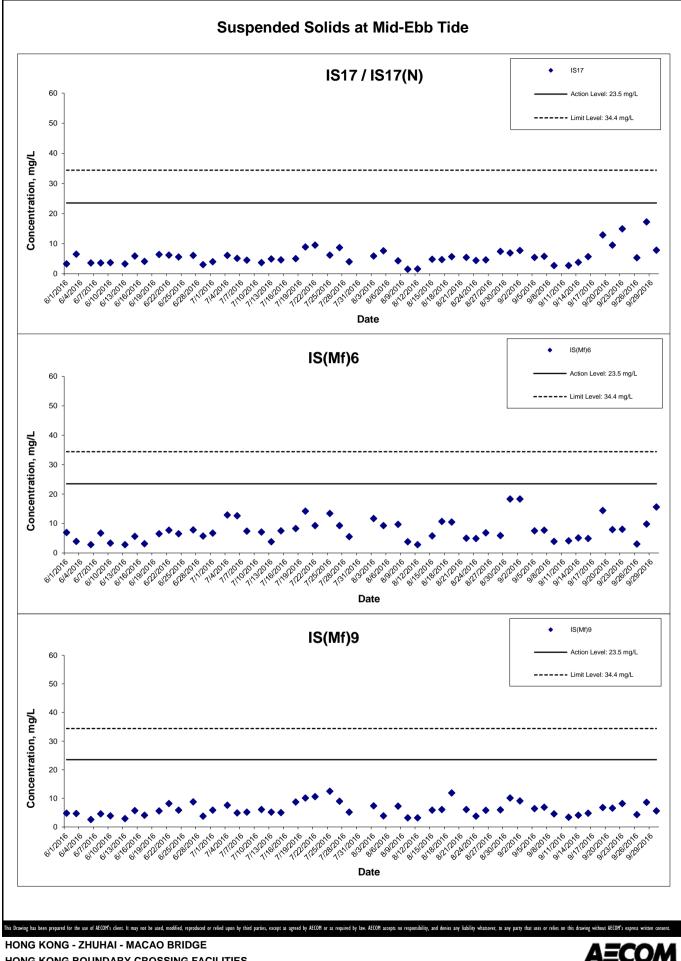
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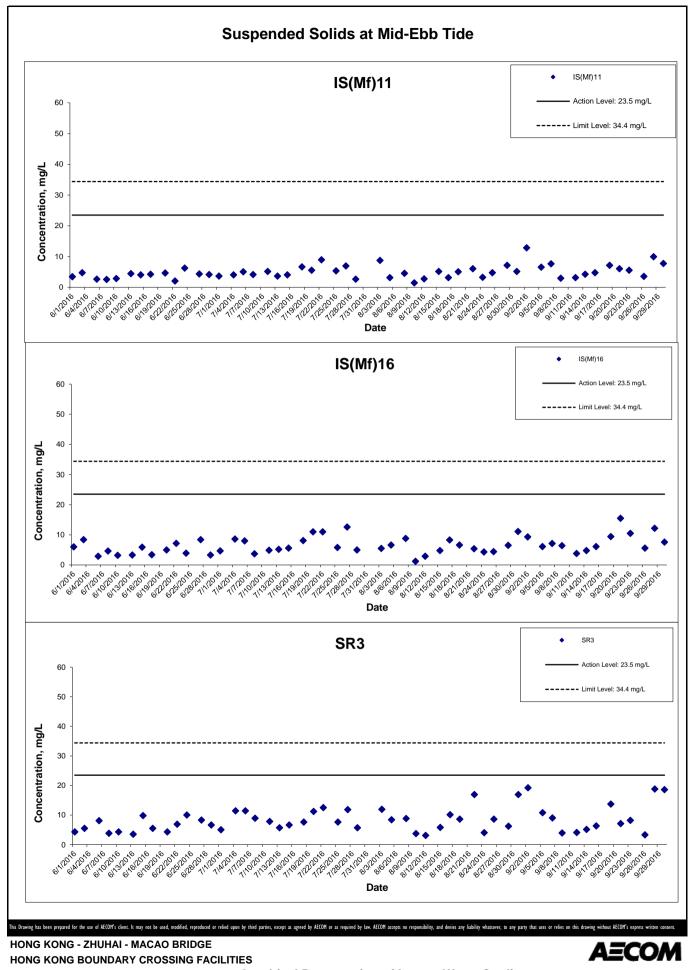




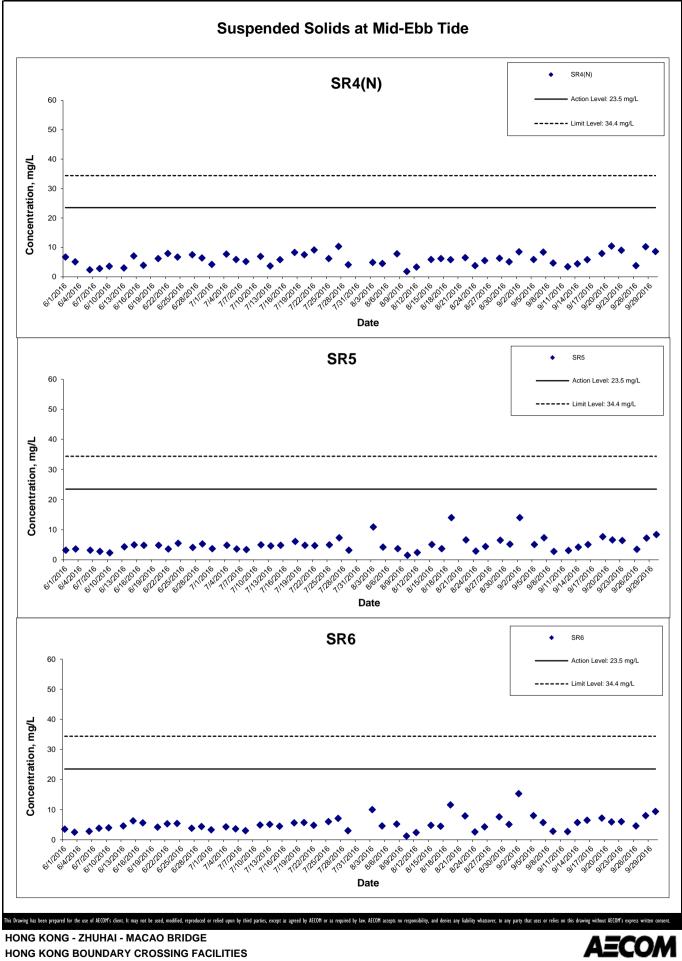


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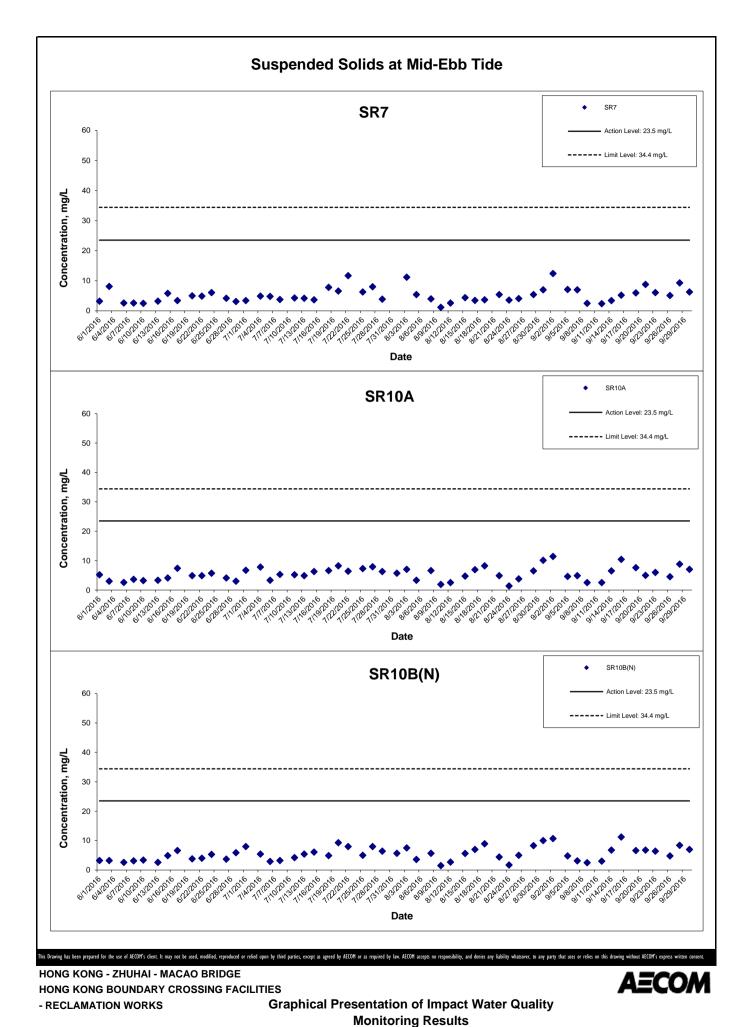
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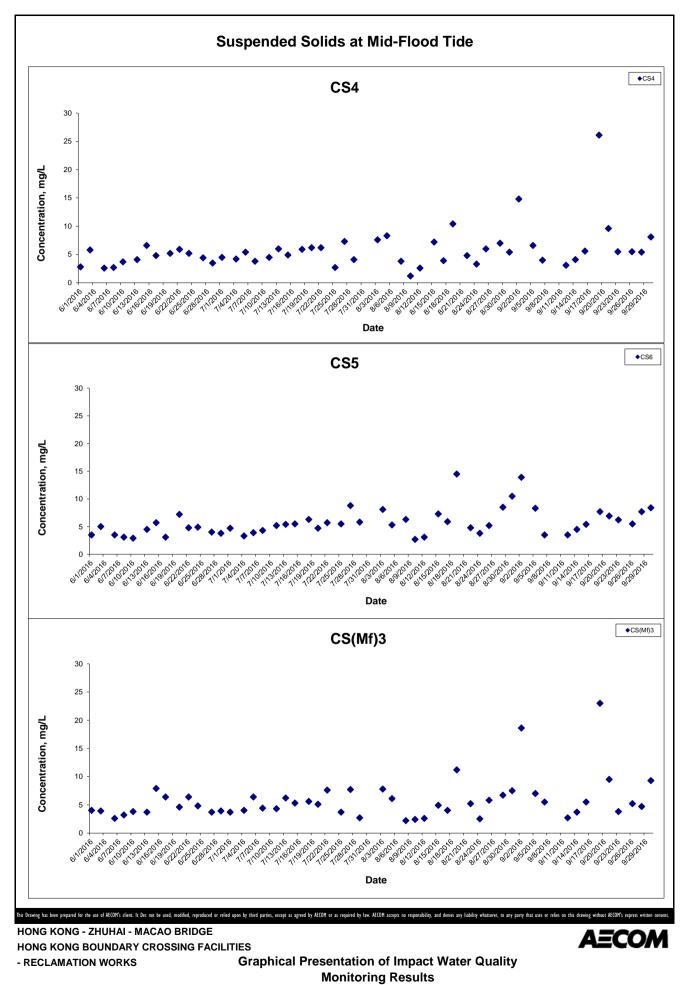
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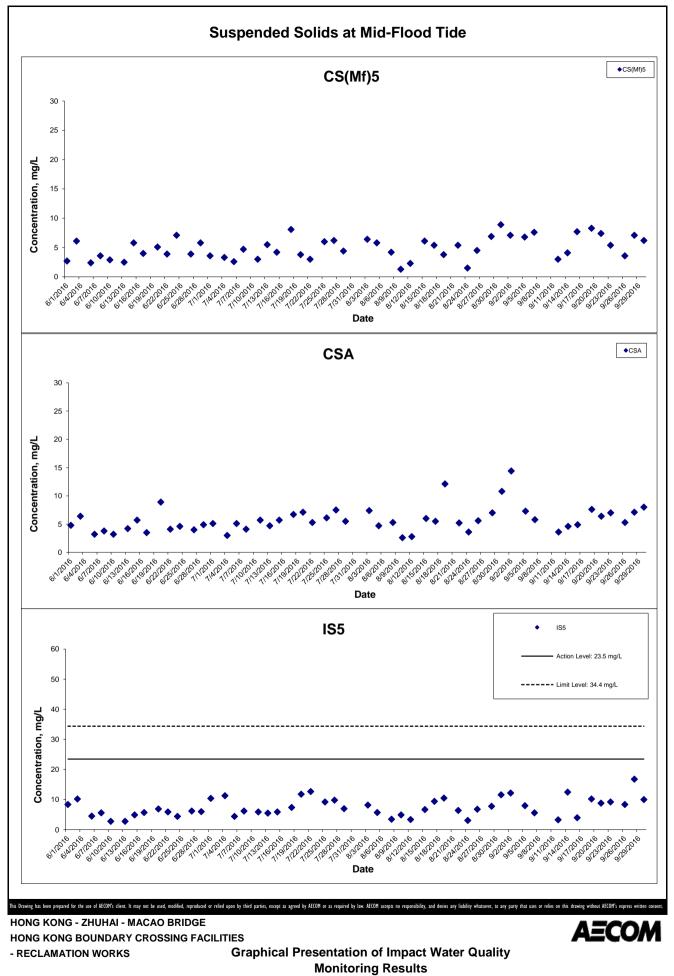


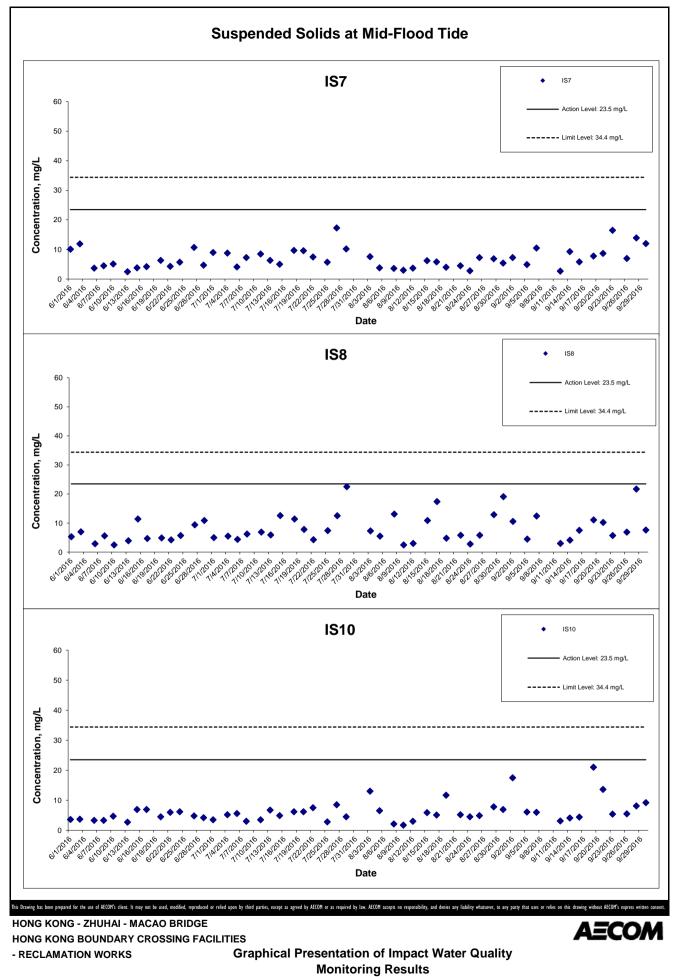
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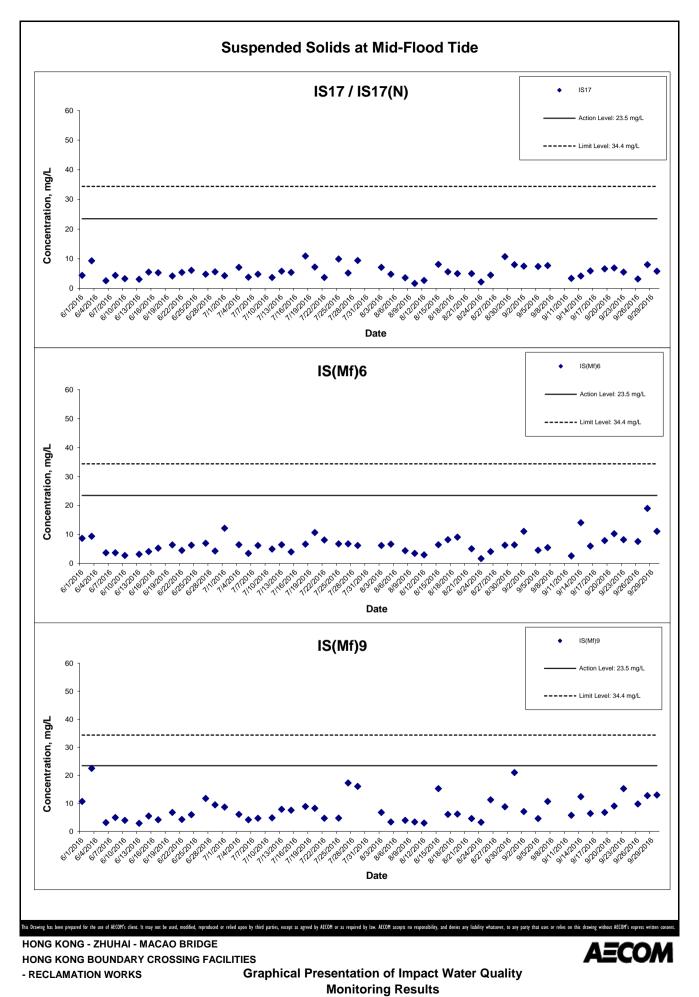


Appendix J

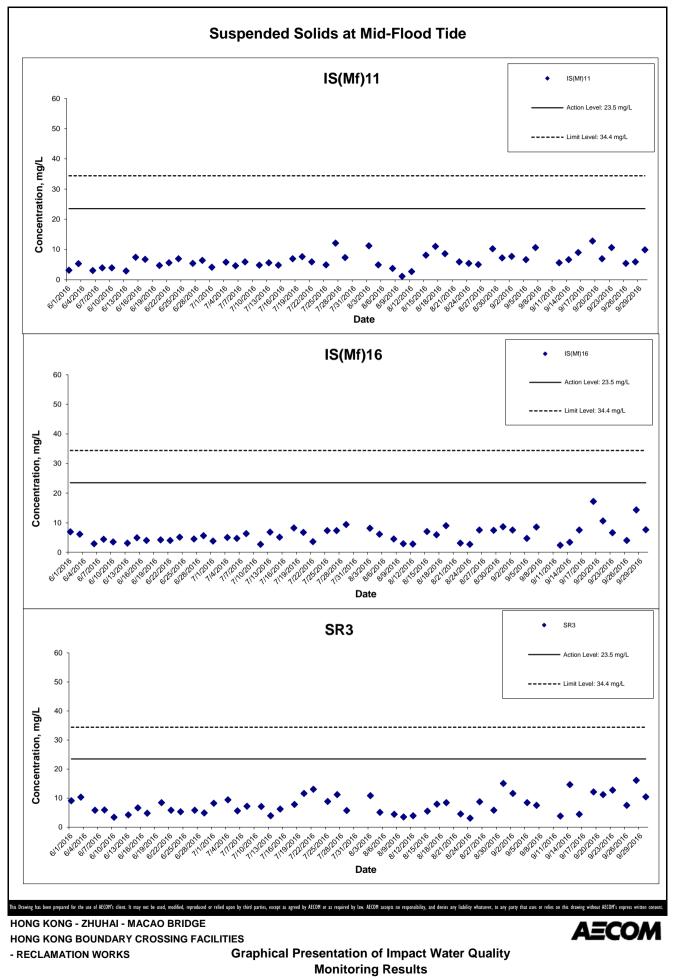


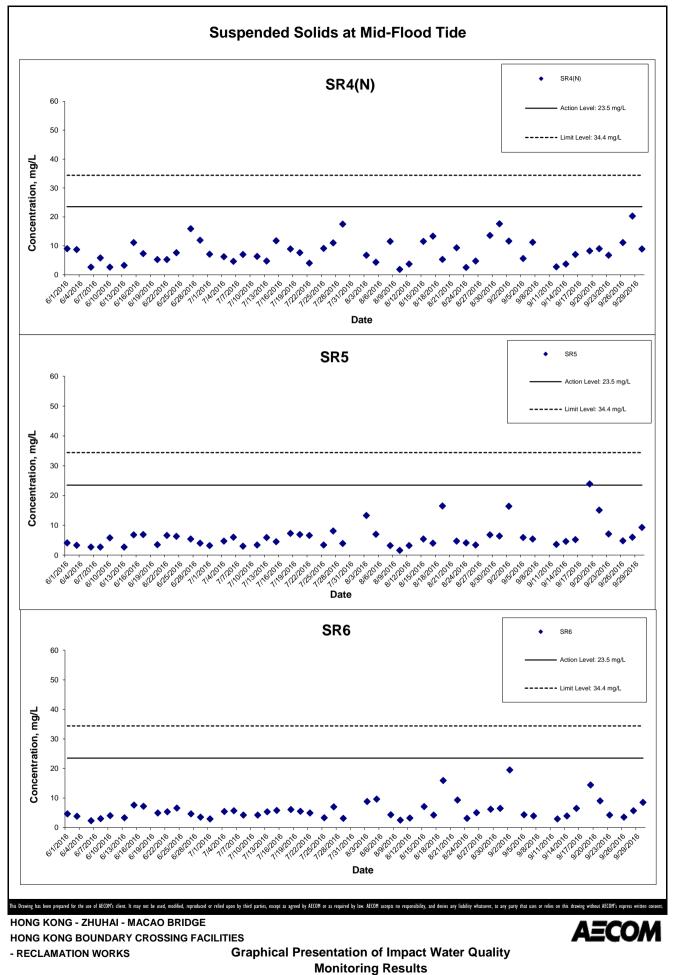


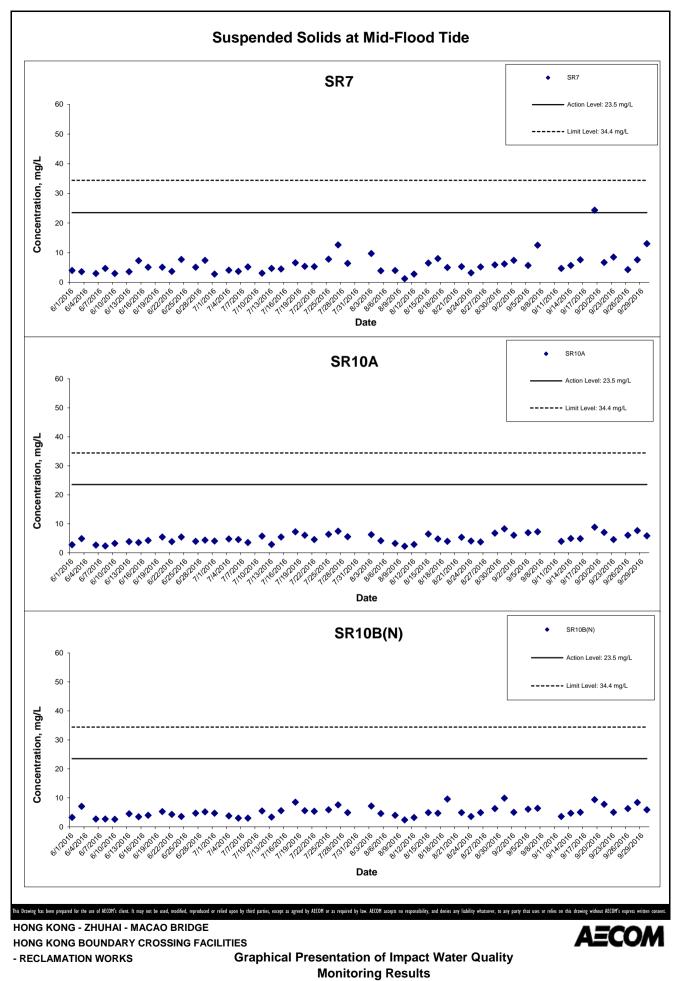




Appendix J







North East Lantau

North West Lantau

### Appendix K Impact Dolphin Monitoring Survey Sighting Summary

Table 1	Impact Dolphin	Monitoring S	Survey Sighting	q Table

Project	Contract	Date	Sighting No.	Time	Group Size	Area	Beaufort	PSD	Effort	Туре	Northing	Easting	Season	Boat Association
HKBCF	HY/2010/02	05-Sep-16	1301	9:19:12	1	WL*	1	N/A	Орр	Impact	813770	803426	Autumn	No
HKBCF	HY/2010/02	05-Sep-16	1302	9:34:09	2	WL*	1	N/A	Орр	Impact	812843	802682	Autumn	No
HKBCF	HY/2010/02	05-Sep-16	1303	10:16:45	2	NWL	2	65	On	Impact	816096	804967	Autumn	No
HKBCF	HY/2010/02	05-Sep-16	1305	11:07:52	2	NWL	1	252	On	Impact	824043	804880	Autumn	No
HKBCF	HY/2010/02	05-Sep-16	1306	12:14:51	6	NWL	1	90	On	Impact	825050	805778	Autumn	No
HKBCF	HY/2010/02	06-Sep-16	1308	10:06:11	3	NWL	2	177	On	Impact	823821	805704	Autumn	No
HKBCF	HY/2010/02	21-Sep-16	1311	9:10:10	1	NWL	1	N/A	Орр	Impact	814705	804603	Autumn	No
HKBCF	HY/2010/02	21-Sep-16	1312	11:00:59	2	NWL	1	1000	On	Impact	826152	805677	Autumn	No
HKBCF	HY/2010/02	21-Sep-16	1313	12:22:50	7	NWL	1	130	On	Impact	824368	806724	Autumn	No
HKBCF	HY/2010/02	21-Sep-16	1314	13:06:11	2	NWL	2	550	On	Impact	825385	806716	Autumn	No

NEL

NWL

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

KEY:

Sighting

On On effort

PSD Perpendicular Sighting Distance

Group Size Represents best estimate for group encountered

PS = Purse Seine trawler (active)

HT = Hang Trawler (not active but sorting fish and cleaning nets)

Opp Opportunistic

GN = Gill Net

## Annex I August 2016 Photo Identification Information

Identification Number	Baseline Identification Number	Date (YYYY- MM-DD)	Sighting Number	Area Sighted
HZMB 134		2016/05/23	1251	NWL
HZMB 132		2016/05/23	1244	NWL
HZMB 131		2016/03/22	1215	NWL
HZMB 130		2016/02/04	1199	NWL
		2016/01/07	1189	NWL
HZMB 129		2015/10/22	1156	NWL
		2015/09/07	1143	NWL
		2015/08/25	1138	NWL
HZMB 128		2015/01/03	1056	NWL
HZMB 127		2015/01/03	1056	NWL
		2016/05/23	1244	NWL
HZMB 126		2015/02/23	1068	NWL
		2015/01/03	1054	NWL
		2016/05/23	1249	NWL
HZMB 125		2016/03/07	1208	NWL
		2014/10/13	1019	NWL
HZMB 124		2014/09/22		NWL
HZMB 123		2014/08/25	998	NWL
HZMB 122		2015/10/22	1156	NWL
		2014/08/04	989	NWL
		2016/07/18	1276	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
		2016/06/06	1261	NWL
HZMB 114		2015/11/05	1162	NWL
		2013/10/24	827	NWL

Identification Number	Baseline Identification Number	Date (YYYY- MM-DD)	Sighting Number	Area Sighted
HZMB 113		2013/10/24	827	NWL
HZMB 112		2013/10/15	815	NWL
HZMB 111		2013/10/15	815	NWL
HZMB 110		2016/01/18	1193	NWL
		2013/10/15	812	NWL
HZMB 108		2015/06/11	1118	NWL
		2013/08/30	780	NEL
		2015/07/28	1126	NWL
HZMB 107		2014/10/13	1019	NWL
		2014/05/31	951	NWL
		2013/08/21	770	NWL
HZMB 106		2013/08/21	769	NWL
HZMB 105		2014/05/31	951	NWL
		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
	NL104	2013/10/24	831	NWL
HZMB 098		2013/07/08	711	NWL
		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

Identification Number	Baseline Identification Number	Date (YYYY- MM-DD)	Sighting Number	Area Sighted
		2011/09/23	Baseline	NWL
		2011/09/16	Baseline	NWL
HZMB 097		2013/05/09		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
		2016/08/30	1299	NWL
		2014/10/13	1019	NWL
		2014/05/31	954	NWL
HZMB 094		2014/02/17	910	NWL
		2013/06/26	703	NWL
		2013/06/25	698	NWL
		2013/03/18	601	NWL
HZMB 093		2013/05/24	657	NWL
		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
	NL242	2013/05/09	642	NWL
HZMB 086		2013/02/15	579	NWL
		2011/10/10	Baseline	NWL
HZMB 085		2014/10/13	1019	NWL
		2014/05/31	954	NWL
HZMB 084		2013/06/26	703	NWL
		2013/02/15	579	NWL

Identification Number	Baseline Identification Number	Date (YYYY- MM-DD)	Sighting Number	Area Sighted
		2013/02/14	575	NWL
		2016/08/30	1298	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
HZMB 083	NL136	2013/01/28	568	NWL
		2013/01/28	564	NWL
		2012/04/19	267	NWL
		2011/10/28	Baseline	NWL
		2011/10/28	Baseline	NWL
		2011/10/10		NEL
		2011/09/06	Baseline	NWL
		2014/10/20	1024	NWL
		2013/02/21	587	NWL
HZMB 082		2013/02/15	579	NWL
		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
		2013/02/15	579	NWL
HZMB 078		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
HZMB 074		2013/04/01	621	NWL
		2013/02/21	594	NEL
		2012/12/10	529	NEL

Identification Number	Baseline Identification Number	Date (YYYY- MM-DD)	Sighting Number	Area Sighted
		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
		2013/01/28	559	NWL
		2012/12/11	537	NWL
HZMB 066	NL93	2012/10/24	475	NWL
	INL93	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

Identification Number	Baseline Identification Number	Date (YYYY- MM-DD)	Sighting Number	Area Sighted
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
HZMB 056		2012/09/18	442	NWL
		2012/09/05	433	NEL
HZMB 055		2012/09/04	425	NWL
		2016/05/12	1238	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
		2013/10/24	831	NWL
	CH34	2013/08/30	780	NEL
HZMB 054	СП34	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
		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
HZMB 051	NII 212	2013/05/09	644	NWL
	NL213	2013/04/01	622	NWL
		2013/02/15	582	NWL
		2013/02/15	581	NWL

Identification Number	Baseline Identification Number	Date (YYYY- MM-DD)	Sighting Number	Area Sighted
		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
		2016/05/23	1249	NWL
		2014/02/17	910	NWL
HZMB 045		2013/06/13	682	NWL
		2013/02/15	579	NWL
		2012/11/01	495	NWL
		2016/05/23	1247	NWL
		2016/01/18	1194	NWL
		2014/10/13	1019	NWL
		2014/02/17	910	NWL
		2013/12/19	864	NWL
		2013/11/02	845	NWL
		2013/11/01	842	NWL
HZMB 044	NL98	2013/10/15	819	NWL
		2013/05/09	648	NWL
		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

Identification Number	Baseline Identification Number	Date (YYYY- MM-DD)	Sighting Number	Area Sighted
		2011/11/06	Baseline	NEL
		2011/11/01		NEL
		2011/10/06	Baseline	NEL
HZMB 043		2012/09/03		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
		2016/05/23	1246	NWL
HZMB 038		2012/11/01	490	NWL
HZMB 037		2012/11/01	490	NWL
		2012/09/03	407	NWL
HZMB 036		2012/11/01	490	NWL
		2013/02/15	579	NWL
HZMB 035		2012/11/01	490	NWL

Identification Number	Baseline Identification Number	Date (YYYY- MM-DD)	Sighting Number	Area Sighted
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
HZMB 022		2016/04/21	1219	NWL
		2015/09/07	1143	NWL

Identification Number	Baseline Identification Number	Date (YYYY- MM-DD)	Sighting Number	Area Sighted
		2015/04/20	1097	NWL
		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

Identification Number	Baseline Identification Number	Date (YYYY- MM-DD)	Sighting Number	Area Sighted
		2011/11/01	Baseline	NEL
HZMB 013		2012/05/28	281	NWL
HZMB 012		2012/05/28	281	NWL
		2013/02/22	597	NEL
		2013/02/21	592	NEL
		2013/02/14	572	NEL
		2012/11/06	517	NEL
HZMB 011	EL01	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
HZMB 003	NL179	2013/10/15	812	NWL

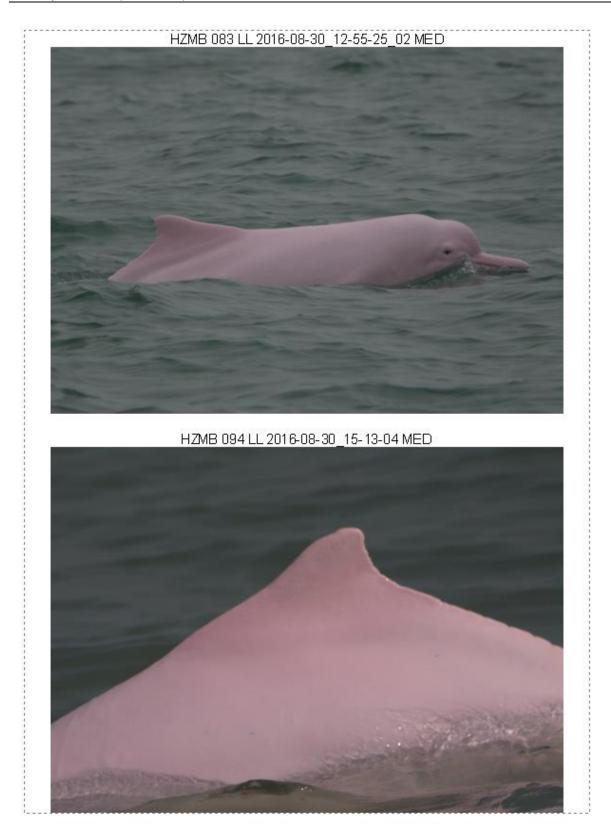
Identification Number	Baseline Identification Number	Date (YYYY- MM-DD)	Sighting Number	Area Sighted
		2013/06/25	697	NWL
		2012/12/10	529	NEL
		2012/03/31	261	NWL
		2011/11/06	Baseline	NEL
		2011/09/16	Baseline	NWL
		2014/05/31	951	NWL
		2013/12/26	878	NWL
		2013/12/19	863	NWL
		2013/11/01	839	NWL
		2013/10/15	819	NWL
		2013/09/24	798	NWL
		2013/02/14	573	NWL
HZMB 002	WL111	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
		2016/07/18	1276	NWL
		2016/05/23	1251	NWL
		2014/08/25	997	NWL
		2013/08/21	771	NWL
HZMB 001	WL46	2013/06/13	681	NWL
		2013/04/01	617	NWL
		2013/02/14	573	NWL
		2012/03/29	250	NWL
	CH98	2011/11/02	Baseline	NWL
	NII 11	2011/11/02	Baseline	NWL
	NL11	2011/11/07	Baseline	NWL
	NL12	2011/11/02	Baseline	NWL
		2011/09/23	Baseline	NWL
		2011/11/01	Baseline	NEL
	NL33	2011/11/05	Baseline	NWL
		2011/11/07	Baseline	NWL

Identification Number	Baseline Identification Number	Date (YYYY- MM-DD)	Sighting Number	Area Sighted
	NL46	2011/10/28	Baseline	NWL
	CH153	2011/10/11	Baseline	NWL
		2001/11/07	Baseline	NWL
	NL48	2011/11/02		NWL
		2011/09/16	Baseline	NWL
		2011/09/16	Baseline	NWL
	NL75	2011/09/16	Baseline	NWL
		2011/100/10         Paseline           2011/11/01         Baseline           20         2011/11/02         Baseline           20         2011/109/06         Baseline           20         2011/11/06         Baseline           20         2011/11/06         Baseline           20         2011/11/06         Baseline           20         2011/11/06         Baseline           20         2011/10/10         Baseline           23         2011/10/10         Baseline           23         2011/10/10         Baseline           2011/10/10         Baseline         2011/10/10           39         2011/10/10         Baseline           2011/09/16         Baseline         2011/10/10           65         2011/11/05         Baseline	NEL	
	NL80	2011/11/02	Baseline	NWL
	NL118	2011/09/06	Baseline	NWL
	NL120	2011/11/06	Baseline	NEL
		2011/10/10	Baseline	NWL
		2011/11/06	Baseline	NEL
	NL123	2011/10/10	Baseline	NWL
		2011/10/06	Baseline	NWL
		2011/11/01	Baseline	NEL
	NL139			NEL
		2011/09/16	Baseline	NWL
	NL165			NWL
		2011/11/02	Baseline	NWL
	NL170			NEL
				NWL
	NL188	2011/11/01	Baseline	NWL
		2011/10/28	Baseline	NWL
	NL191	2011/09/07	Baseline	NWL
	NL202	2011/11/07		NWL
		2011/10/28	Baseline	NWL
		2011/11/07		NWL
	NL210	2011/11/05		NWL
		2011/11/02		NWL
		2011/09/07		NWL
		2011/11/05		NWL
	NL214	2011/11/02	Baseline	NWL
		2011/10/28		NWL
	NL220	2011/10/10	Baseline	NEL

Identification Number	Baseline Identification Number	Date (YYYY- MM-DD)	Sighting Number	Area Sighted
	NL224	2011/10/28	Baseline	NWL
	NL226	2011/11/05	Baseline	NWL
	INLZZO	2011/10/17		WL
	NL230	2011/11/02	Baseline	NWL
	INL230	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
	NL258	2011/09/16	Baseline	NWL
	INL230	2011/09/05	Baseline	WL
	NL259	2011/11/07	Baseline	NWL
	NL261	2011/11/01		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		NWL
	NL272	2011/11/02	Baseline	NWL
		2011/10/28	Baseline	NWL
		2011/09/16	Baseline	NWL
	NL278	2011/11/02	Baseline	NWL
	NL279	2011/11/02		NWL
	SL42	2011/11/02		NWL
	SL43	2011/10/28	Baseline	NWL
		2011/11/05	Baseline	NWL
	WL04	2011/11/02		NWL
		2011/10/17	Baseline	WL
		2011/10/10	Baseline	NWL

Identification Number	Baseline Identification Number	Date (YYYY- MM-DD)	Sighting Number	Area Sighted
		2011/09/16	Baseline	NWL
		2011/11/01		NEL
	WL05	2011/11/01	Baseline	NEL
	WL11	2011/11/07	Baseline	NWL
		2011/10/17		WL
	WL25	2011/09/23	Baseline	WL
		2011/09/16		NWL
	WL88	2011/11/02	Baseline	WL
	VV LOO	2011/09/16	Baseline	NWL
	WL116	2011/09/16	Baseline	NWL
	WL124	2011/11/02	Baseline	NWL
	WL156	2011/10/28	Baseline	NWL
	VL150	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
	CH108	2011/11/02	Baseline	WL
	CH100	2011/11/02		WL
	CH157	2011/11/02	Baseline	WL
	NL206	2011/10/07	Baseline	WL
	WL28	2011/09/23	Baseline	WL
	WL42	2011/11/02		WL
	VVL42	2011/09/05	Baseline	WL
	WL47	2011/10/17		WL
	WL61	2011/10/17	Baseline	WL
	VVLOT	2011/09/23	Baseline	WL
	WL66	2011/11/07	Baseline	WL
	WL68	2011/09/05	Baseline	WL
		2011/09/05		WL
		2011/11/02	Baseline	WL
	WL72	2011/11/02	Baseline	WL
		2011/09/23		WL
	WL87	2011/09/23	Baseline	WL

Identification Number	Baseline Identification Number	Date (YYYY- MM-DD)	Sighting Number	Area Sighted
	WL88	2011/11/02		WL
	11200	2011/09/16	Baseline	WL
	WL116	2011/09/16	Baseline	WL
	WL118	2011/11/02	Baseline	WL
	WEITO	2011/11/02	Baseline	WL
	WL123	2011/11/02	Baseline	WL
	WL124	2011/11/02	Baseline	WL
	WL128	2011/11/07	Baseline	WL
	VVL 120	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		WL
	14/1 162	2011/11/07		WL
	WL163	2011/11/02		WL
	WL165	2011/10/17	Baseline	WL
	WL167	2011/10/17		WL
	WL170	2011/11/07		WL
	WL171	2011/10/28		WL



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

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

Event	Action				
	ET Leader	IEC	ER	Contractor	
Exceedance for two or more consecutive samples	<ul><li>findings;</li><li>4. Increase monitoring frequency to daily;</li><li>5. Carry out analysis of</li></ul>	<ol> <li>Discuss amongst ER, ET, and Contractor on the potential remedial actions;</li> <li>Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly;</li> <li>Supervise the implementation of remedial measures.</li> </ol>	<ul> <li>notification of failure in writing;</li> <li>2. Notify Contractor;</li> <li>3. In consultation with the IEC, agree with the Contractor on the remedial measures to be implemented;</li> </ul>	<ul> <li>proposals;</li> <li>4. Resubmit proposals if problem still not under control;</li> <li>5. Stop the relevant portion of works as determined by the ER until the exceedance is</li> </ul>	

### Event / Action Plan for Construction Noise

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

### Event / Action Plan for Water Quality

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

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

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

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

### Event / Action Plan for Dolphin Monitoring

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

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<ul> <li>dolphin protective measures are fully and properly implemented and advise on additional measures if necessary.</li> <li>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.</li> </ul>		of additional monitoring and/or any other mitigation measures.	measures.
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### Monthly Summary Waste Flow Table for <u>September / 2016 (year)</u>

Project : F	Hong Kong – Z	huhai – Macao	Bridge, Hong	Kong Bound	lary Crossing	g Facilities –	Reclamation V	Works			Contract No.:	HY/2010/02
		Actual Quantities of Inert C&D Materials Generated Monthly					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 (see Note 5)	Surplus Surcharge exported to Macau (see Note 5)	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 <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000 m <sup>3</sup> )
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	0.0000	0.1560	0.0000	29.1938	96.1830	0.0000	27.8820	0.0000	0.0000	0.0000	0.0000	0.0650
Sub-total	0.0000	0.1560	0.0000	166.8419	193.5640	0.0000	188.8172	0.0000	0.7840	6.0800	0.8000	0.6587
Jul-16	0.0000	0.0000	0.0000	35.1267	137.7494	0.0000	54.3087	0.0000	0.4200	0.0000	0.0000	0.0715
Aug-16	0.0000	0.0000	0.0000	32.4387	305.9248	0.0000	18.9587	0.0000	0.0000	0.0000	0.0000	0.0455
Sep-16	0.0000	3.5295	0.0000	35.0000	350.0000	0.0000	30.2987	0.0000	0.3640	0.0000	0.0000	0.0445
Oct-16												
Nov-16												
Dec-16												
Total	0.0000	3.6855	0.0000	269.4073	987.2382	0.0000	292.3833	0.0000	1.5680	6.0800	0.8000	0.8202

Destance in West тт D ' 1 тт 0 ъ . т7 т7 D

(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".

(5) Subject to be revised.

### Appendix N

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

### **Cumulative statistics on Exceedances**

		Total no. recorded in this	Total no. recorded since
		month	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	22 September 2016	A water quality complaint was referred to the ENPO at 10:50 am on the 22 September 2016 by EPD; ENPO referred this complaint to this Contract on the same day. With referred to a complaint lodged by a member of the public about whitish effluent discharged from two flattop barges which departs from Tuen Mun on a daily basis. The complainant stated that the whitish effluent was	Closed	1	37

		discharged from these barges at sea			
		area outside cellular structure cell no.			
		C054 - C055 between 18:00 to			
		04:00, causing pollution, after			
		investigation, there is no adequate			
		information to conclude the complaint			
		is related to this Contract.			
Notification of					2
summons	-	-	-	-	Z
Successful					2
Prosecutions	-	-	-	-	2