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 August 2014

[09/2014]

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Date: 15 September 2014

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By Fax (3698 5999) and By Post

Ref.: HYDHZMBEEM00_0_2233L.14

15 September 2014

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

Attention: Mr. Roger Marechal

Dear Mr. Marechal,

Hong Kong

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 Hong Kong – Zhuhai – Macao Bridge Hong Kong Boundary Crossing Facilities – Reclamation Work Monthly Environmental Monitoring & Audit Report for August 2014

Reference is made to the Environmental Team's submission of the Monthly Environmental Monitoring & Audit Report for August 2014 (letter ref: 60249820/C/RMKY14091501 dated 15 September 2014) copied to us by E-mail on 15 September 2014.

We are pleased to inform you that we have no adverse comment on the captioned Monthly EM&A Report. We write to verify the captioned report in accordance with Condition 5.4 of EP-353/2009/G and Condition 4.4 of EP-354/2009/B (for TM-CLKL Southern Landfall Reclamation only).

ET is reminded to ensure all information reported are true, valid and correct before sending to this office for review.

Thank you very much for your kind attention and please do not hesitate to contact the undersigned should you have any queries.

Yours sincerely,

onju

Raymond Dai Independent Environmental Checker

c.c.	HyD	Mr. Matthew Fung	(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 Work (here below, known as "the Project") 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 06 August 2013 (EP-353/2009/G) and 28 January 2014 (EP-354/2009/B) (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 Project).

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

ENVIRON Hong Kong Ltd. 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 Project 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 2016. The EM&A programme, including air quality, noise, water quality and dolphin monitoring and environmental site inspections, was commenced on 12 March 2012.

This report documents the findings of EM&A works conducted in the period between 1 and 31 August 2014. As informed by the Contractor, major activities in the reporting period were:-

Marine-based Works

- Cellular structure installation
- Connecting arc cell installation
- Laying geo-textile
- Sand blanket laying
- Sand filling
- Rock filling
- Maintenance of silt curtain & silt screen at sea water intake of HKIA
- Band drain installation
- Backfill cellular structure
- Geotechnical Instrumentation works
- Surcharge laying
- Capping Beams structures
- Construction of temporary jetties for surcharge laying
- Temporary Watermain construction along access at Portion D
- Flat barge of unloading public fill for surcharge laying
- Precast Yard Setup

Land-based Works

- Maintenance works of Site Office at Works Area WA2
- Maintenance works of Public Works Regional Laboratory at Works Area WA3
- Maintenance of Temporary Marine Access at Works Area WA2

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

24-hour Total Suspended Particulates (TSP) monitoring 1-hour TSP monitoring	5 sessions 5 sessions
Noise monitoring	4 sessions
Impact water quality monitoring Impact dolphin monitoring	13 sessions 2 surveys



Joint Environmental site inspection

4 sessions

Monthly EM&A Report for August 2014

Breaches of Action and Limit Levels for Air Quality

All 1-Hour TSP and 24-hour TSP results were below the Action and Limit Level in the reporting month.

Breaches of Action and Limit Levels for Noise

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

Breaches of Action and Limit Levels for Water Quality

During Mid-ebb tide on 15 August 2014, surface and middle DO in mg L⁻¹ recorded at IS(Mf)11, IS10 and SR5 mid-ebb tide; bottom DO in mg L⁻¹ recorded at IS(Mf)11 and IS10 exceeded the Action Level. During mid-flood tide on 15 August 2014, surface and middle DO in mg L⁻¹ recorded at IS(Mf)11, IS10, SR5, SR6 and SR7 during mid-flood tide; bottom DO in mg L⁻¹ recorded at IS(Mf)11, IS10, SR5 and SR6 during mid-flood tide exceeded the Action Level. After investigation, it is unlikely that the DO exceedances are related the marine construction activities of this Contract.

Impact Dolphin Monitoring

A total of eight sightings were made, four "opportunistic" and four "on effort". Five sightings were made on the 4th of August in NWL and three sightings were made on 25th August in NWL. A total of twenty-five individuals were sighted from the two impact dolphin surveys in the reporting period. Sighting details are summarised and plotted in Appendix K and Figure 5c, respectively.

Behaviour: Of the eight sightings, three groups were feeding, two group was travelling, one group was resting (categorized ad "Other") and two groups were engaged in multiple activities, both of which comprised feeding and surface active behaviours. The locations of sighting with different behaviour are mapped in Figure 5d.

One calf was seen in August 2014; its mother was not identified. The location of sighting with calf is mapped in Figure 5e.

One limit level exceedance for dolphin monitoring for the quarterly monitoring period (June – August 2014) has been recorded. Investigation report will be provided in the quarterly report (June – August 2014).

Complaint, Notification of Summons and Successful Prosecution

One environmental complaint has been received in August 2014.

As informed by the Contractor on 22 Aug 2014, EPD referred a complainant to this Contract on 21 August 2014, the complainant raised concern about uncovered sand barges at the sea area outside Melody Garden, Tuen Mun, sand were brought to inside of houses by wind and also causing the vicinity to be covered with sand and dust. After investigation, there is no adequate information to conclude the observed impact is related to this Contract.

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

Reporting Change

There was no reporting change required in the reporting period.

Future Key Issues

Key issues to be considered in the coming month included:-

- Site runoff should be properly collected and treated prior to discharge;
- Minimize loss of sediment from filling works;
- Regular review and maintenance of silt curtain systems, drainage systems and desilting facilities;
- Exposed surfaces/soil stockpiles should be properly treated to avoid generation of silty surface run-off during rainstorm;
- Regular review and maintenance of wheel washing facilities provided at all site entrances/exits;



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

INTRODUCTION

1.1 Background

- 1.1.1 Contract No. HY/2010/02 Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities – Reclamation Work (here below, known as "the Project") 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) and August 2013 (EP-353/2009/G). 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) and January 2014 (EP-354/2009/B).
- 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 6 August 2013 (EP-353/2009/G) and 28 January 2014 (EP-354/2009/B) (for TMCLKL Southern Landfall Reclamation only).
- 1.1.5 A Project Specific EM&A Manual, which included all project-relation contents from the original EM&A Manuals for the Project, 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 Project).
- 1.1.7 China Harbour Engineering Company Limited (CHEC) was awarded by HyD as the Contractor to undertake the construction work of the Project.
- 1.1.8 ENVIRON Hong Kong Ltd. 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 Project 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 2016.
- 1.1.11 According to the Project 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 Project commenced on 12 March 2012.

1.2 Scope of Report

1.2.1 This is the thirtieth 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 Project in August 2014.



1.3 Project Organization

1.3.1 The project 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 & Partners Hong Kong Limited)	Chief Resident Engineer	Roger Marechal	3698 5700	2698 5999
IEC / ENPO	Independent Environmental Checker	Raymond Dai	3465 2888	3465 2899
(ENVIRON Hong Kong Limited)	Environmental Project Office Leader	Y. H. Hui	3465 2868	3465 2899
Contractor (China Harbour	Environmental Officer	Richard Ng	36932253	2578 0413
Engineering Company Limited)	24-hour Hotline	Alan C.C. Yeung	9448 0325	
ET (AECOM Asia Company Limited)	ET Leader	Echo Leong	3922 9280	2317 7609

 Table 1.1
 Contact Information of Key Personnel

1.4 Summary of Construction Works

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

Marine-based Works

- Cellular structure installation
- Connecting arc cell installation
- Laying geo-textile
- Sand blanket laying
- Sand filling
- Rock filling
- Maintenance of silt curtain & silt screen at sea water intake of HKIA
- Band drain installation
- Backfill cellular structure
- Geotechnical Instrumentation works
- Surcharge laying
- Capping Beams structures
- Construction of temporary jetties for surcharge laying
- Temporary Watermain construction along access at Portion D
- Flat barge of unloading public fill for surcharge laying
- Precast Yard Setup



Land-based Works

- 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
- 1.4.3 The 3-month rolling construction programme of the Project is shown in Appendix B.
- 1.4.4 The general layout plan of the Project 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 Project 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 Project 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 Project 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 Project 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 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.
- 2.3.3 Figure 2 shows the locations of monitoring stations. Table 2.2 describes the details of the monitoring stations.

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

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

2.4 Monitoring Parameters, Frequency and Duration

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

 Table 2.3
 Air Quality Monitoring Parameters, Frequency and Duration

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

2.5 Monitoring Methodology

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



- (iii) All filter papers were prepared and analysed by ALS Technichem (HK) Pty Ltd., which is a HOKLAS accredited laboratory and has comprehensive quality assurance and quality control programmes.
- (c) Field Monitoring
 - (i) The power supply was checked to ensure the HVS works properly.
 - (ii) The filter holder and the area surrounding the filter were cleaned.
 - (iii) The filter holder was removed by loosening the four bolts and a new filter, with stamped number upward, on a supporting screen was aligned carefully.
 - (iv) The filter was properly aligned on the screen so that the gasket formed an airtight seal on the outer edges of the filter.
 - (v) The swing bolts were fastened to hold the filter holder down to the frame. The pressure applied was sufficient to avoid air leakage at the edges.
 - (vi) Then the shelter lid was closed and was secured with the aluminum strip.
 - (vii) The HVS was warmed-up for about 5 minutes to establish run-temperature conditions.
 - (viii) A new flow rate record sheet was set into the flow recorder.
 - (ix) On site temperature and atmospheric pressure readings were taken and the flow rate of the HVS was checked and adjusted at around 1.1 m³/min, and complied with the range specified in the updated EM&A Manual (i.e. 0.6-1.7 m³/min).
 - (x) The programmable digital timer was set for a sampling period of 24 hrs, and the starting time, weather condition and the filter number were recorded.
 - (xi) The initial elapsed time was recorded.
 - (xii) At the end of sampling, on site temperature and atmospheric pressure readings were taken and the final flow rate of the HVS was checked and recorded.
 - (xiii) The final elapsed time was recorded.
 - (xiv) The sampled filter was removed carefully and folded in half length so that only surfaces with collected particulate matter were in contact.
 - (xv) It was then placed in a clean plastic envelope and sealed.
 - (xvi) All monitoring information was recorded on a standard data sheet.
 - (xvii) Filters were then sent to ALS Technichem (HK) Pty Ltd. for analysis.
- (d) Maintenance and Calibration
 - (i) The HVS and its accessories were maintained in good working condition, such as replacing motor brushes routinely and checking electrical wiring to ensure a continuous power supply.
 - (ii) 5-point calibration of the HVS was conducted using TE-5025A Calibration Kit prior to the commencement of baseline monitoring. Bi-monthly 5-point calibration of the HVS will be carried out during impact monitoring.
 - (iii) Calibration certificate of the HVSs are provided in Appendix E.
- 2.5.2 1-hour TSP Monitoring
 - (a) Measuring Procedures

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

- (i) Turn the power on.
- (ii) Close the air collecting opening cover.
- (iii) Push the "TIME SETTING" switch to [BG].
- (iv) Push "START/STOP" switch to perform background measurement for 6 seconds.
- (v) Turn the knob at SENSI ADJ position to insert the light scattering plate.
- (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 August 2014 is provided in Appendix F.
- 2.6.2 Due to electricity failure, the 24-hr TSP monitoring at AMS7 scheduled on 26-27 August 2014 was rescheduled to 27-28 August 2014.

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 2.4Summary 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	81	73 - 87	374	500
AMS3B	81	72 - 87	368	500
AMS7	81	73 - 90	370	500

Table 2.3 Summary of 24-mouri for momentumy results in the reporting renou	Table 2.5	Summary of 24-hour TSP Monitoring Results in the Reporting Period
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	Average (µg/m³)	Range (µg/m³)	Action Level (μg/m³)	Limit Level (µg/m³)
AMS2	28	18 – 50	176	260
AMS3B	39	16 – 72	167	260
AMS7	31	21 – 44	183	260

- 2.7.2 All 1-Hour TSP and 24Hr TSP results were below the Action and Limit Level in the reporting month.
- 2.7.3 The event action plan is annexed in Appendix L.
- 2.7.4 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 Project Specific EM&A Manual, impact noise monitoring was conducted for at least once per week during the construction phase of the Project. 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

3.3 Monitoring Locations

- 3.3.1 Monitoring locations NMS2 was set up at the proposed locations in accordance with Project Specific EM&A Manual. However, for monitoring location NMS3 (Ho Yu College), as proposed in the Project 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.

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.

Table 3.2 Locations of Impact Noise Monitorin	g Stations
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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 August 2014 is provided in Appendix F.



3.7 Monitoring Results

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

	Average, dB(A),	Range, dB(A),	Limit Level, dB(A),
	L _{eq (30 mins)}	L _{eq (30 mins)}	L _{eq} (30 mins)
NMS2	66	66 – 67*	75
NMS3B	64	63 – 65*	70/65^

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

*+3dB(A) Façade correction included

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

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

4 WATER QUALITY MONITORING

4.1 Monitoring Requirements

4.1.1 Impact water quality monitoring was carried out to ensure that any deterioration of water quality was detected, and that timely action was taken to rectify the situation. For impact water quality monitoring, measurements were taken in accordance with the Project 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 4.1
 Water Quality Monitoring Equipment

Equipment	Brand and Model
Dissolved Oxygen (DO) and Temperature Meter, Salinity Meter and Turbidimeter	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
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 Project Specific EM&A Manual.

 Table 4.2
 Impact Water Quality Monitoring Parameters and Frequency

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

4.4 Monitoring Locations

- 4.4.1 In accordance with the Project 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.

444	The locations of these monitoring	stations are summarized in	Table 4.3 and depicted in Figure 3.
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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 823			
CSA	Control Station	818103	823064	

 Table 4.3
 Impact Water Quality Monitoring Stations

4.5 Monitoring Methodology

4.5.1 Instrumentation

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

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

Table 4.4Laboratory Analysis for Suspended Solids

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

4.5.3 Maintenance and Calibration

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

4.6 Monitoring Schedule for the Reporting Month

- 4.6.1 The schedule for impact water quality monitoring in August 2014 is provided in Appendix F.
- 4.6.2 The scheduled water quality monitoring at mid ebb on 13 August 2014 has been cancelled according to the due to adverse weather condition.

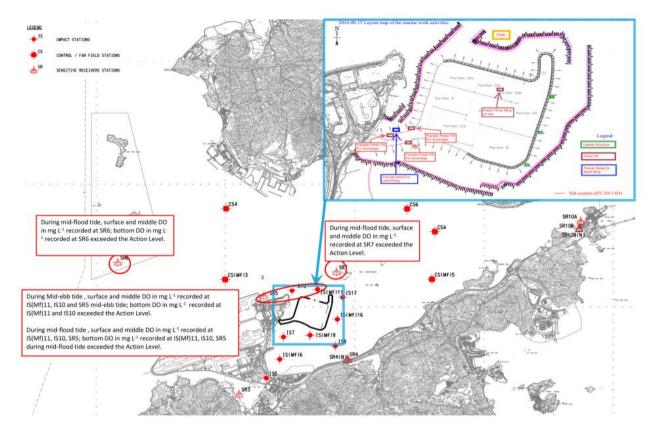
4.7 Results and Observations

- 4.7.1 Impact water quality monitoring results and graphical presentations are provided in Appendix J.
- 4.7.2 During Mid-ebb tide on 15 August 2014, surface and middle DO in mg L⁻¹ recorded at IS(Mf)11, IS10 and SR5 mid-ebb tide; bottom DO in mg L⁻¹ recorded at IS(Mf)11 and IS10 exceeded the Action Level. During mid-flood tide on 15 August 2014, surface and middle DO in mg L⁻¹ recorded at IS(Mf)11, IS10, SR5, SR6 and SR7 during mid-flood tide; bottom DO in mg L⁻¹ recorded at IS(Mf)11, IS10, SR6 during mid-flood tide exceeded the Action Level. After investigation, the exceedances were unlikely that they are related the marine construction activities of this Contract.

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
IS5	Action	0	0	0	0	0	0	0	0	0	0
100	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(111)0	Limit	0	0	0	0	0	0	0	0	0	0
IS7	Action	0	0	0	0	0	0	0	0	0	0
	Limit	0	0	0	0	0	0	0	0	0	0
IS8	Action	0	0	0	0	0	0	0	0	0	0
	Limit	0	0	0	0	0	0	0	0	0	0
IS(Mf)9	Action Limit	0	0	0	0	0	0	0	0	0	0
	Action	(1) 15 Aug	(1) 15 Aug	(1) 15 Aug	(1) 15 Aug	0	0	0	0	2	2
IS10	, lotion	14	14	14	14						
	Limit	0	0	0	0	0	0	0	0	0	0
IS(Mf)11	Action	(1) 15 Aug 14	(1) 15 Aug 14	(1) 15 Aug 14	(1) 15 Aug 14	0	0	0	0	2	2
	Limit	0	0	0	0	0	0	0	0	0	0
10/14/140	Action	0	0	0	0	0	0	0	0	0	0
IS(Mf)16	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
0110	Limit	0	0	0	0	0	0	0	0	0	0
SR4(N)	Action	0	0	0	0	0	0	0	0	0	0
•••••	Limit	0	0	0	0	0	0	0	0	0	0
SR5	Action	(1) 15 Aug 14	(1) 15 Aug 14	0	(1) 15 Aug 14	0	0	0	0	1	2
	Limit	0	0	0	0	0	0	0	0	0	0
SR6	Action	0	(1) 15 Aug 14	0	(1) 15 Aug 14	0	0	0	0	0	2
	Limit	0	0	0	0	0	0	0	0	0	0
SR7	Action	0	(1) 15 Aug 14	0	0	0	0	0	0	0	1
	Limit	0	0	0	0	0	0	0	0	0	0
00404	Action	0	0	0	0	0	0	0	0	0	0
SR10A	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	3	5	2	4	0	0	0	0		14
	Limit	0	0	0	0	0	0	0	0		0

Table 4.5 Summary of Water Quality Exceedances

Note: S: Surface; and M: Mid-depth. 4.7.3 During Mid-ebb tide on 15 August 2014, surface and middle DO in mg L⁻¹ recorded at IS(Mf)11, IS10 and SR5 mid-ebb tide; bottom DO in mg L⁻¹ recorded at IS(Mf)11 and IS10 exceeded the Action Level. During mid-flood tide on 15 August 2014, surface and middle DO in mg L⁻¹ recorded at IS(Mf)11, IS10, SR5, SR6 and SR7 during mid-flood tide; bottom DO in mg L⁻¹ recorded at IS(Mf)11, IS10, SR6 during mid-flood tide exceeded the Action Level.



- 4.7.3.1 For marine works, marine filling was conducted at portion C2b during flood and ebb tide at area behind cellular structures on 15 Aug 2014. Also refer to above layout map.
- 4.7.3.2 Exceedance was not due to marine based construction works of the Project because:
- 4.7.3.3 With reference to the silt curtain checking record defects was observed at north parts of the perimeter silt curtain and at southwest entrance of the perimeter silt curtain.
- 4.7.3.4 As informed by the Contractor, filling was conducted on 13, 15 and 18 August 2014 at Portion C2b, but with referred to monitoring record and photo record attached, no sediment plume has been observed to flow from the inside of the perimeter silt curtain to the outside of the perimeter silt curtain and no discoloration of sea water has been observed. Please refer to the photo attached for reference of the sea condition during ebb tide and flood tide on 15 August 2014.

4.7.3.5 Photo record of sea condition taken during ebb tide at north of HKBCF Reclamation Works near IS(Mf)11, IS10 and SR5 on 15 August 2014.



4.7.3.6 Photo record of sea condition taken during flood tide at north of HKBCF Reclamation Works near IS(Mf)11, IS10 and SR5 on 15 August 2014.



- 4.7.3.7 Construction activities were reviewed, almost the same marine works were conducted at almost the same location on 13, 15 and 18 August 2014, but no DO exceedance was recorded on 13 and 18 August 2014. This indicates that the DO exceedances were unlikely to attribute to marine works of this Contract.
- 4.7.3.8 Low DO value was observed at upstream control station during ebb tide. DA DO (surface & middle) were 5.3mg/L and 5.2 mg/L at CS(Mf)3 and CS4 during ebb tide. DO (bottom) were 4.8mg/L and



4.6mg/L at CS(Mf)3 and CSA respectively. This indicates that low DO (Surface & middle; Bottom) occurred at locations upstream to HKBCF Reclamation Works during ebb tide.

- 4.7.3.9 Low DO value was observed at upstream control station during flood tide. DA DO (surface & middle) were 5.2mg/L, 4.7 mg/L and 4.6 mg/L at CS(Mf)5, CS6 and CSA during ebb tide. DO (bottom) were 5.3mg/L, 4.5 mg/L and 4.1mg/L at CS(Mf)5, CS6 and CSA respectively. This indicates low DO (Surface & middle; Bottom) occurred at locations upstream to HKBCF Reclamation Works during flood tide.
- 4.7.3.10 After investigation, the Action Level exceedance of the surface and middle DO in mg L⁻¹ recorded at IS(Mf)11, IS10 and SR5 during Mid-ebb tide; bottom DO in mg L⁻¹ recorded at IS(Mf)11 and IS10 during Mid-ebb tide; surface and middle DO in mg L⁻¹ recorded at IS(Mf)11, IS10, SR5, SR6 and SR7 during mid-flood tide; bottom DO in mg L⁻¹ recorded at IS(Mf)11, IS10, SR5, SR6 and SR7 during mid-flood tide; bottom DO in mg L⁻¹ recorded at IS(Mf)11, IS10, SR5, and SR6 during mid-flood tide were unlikely to attribute to construction works of this Contract.
- 4.7.3.11 Action taken under the action plan
 - in situ measurement was repeated to confirm findings;
 - After considering the above mentioned investigation results, it appears that it was unlikely that the DO exceedances were not attributed to active construction activities of this project;
 - Monitoring data, all plant, equipment and Contractor's working methods were checked;
 - Since it is considered that the DO exceedances are unlikely to be project related, as such, actions 5 7 under the EAP are not considered applicable.
- 4.7.3.12 Nevertheless, the Contractor was reminded to ensure provision of ongoing maintenance to the silt curtains and to carry out maintenance work once defects were found.
- 4.7.3.13 With reference to the silt curtain checking record on 27 August 2014, the defect observed on 15 August 2014 at north part of the perimeter silt curtain has been repaired. As informed by the Contractor, maintenance work of the silt curtain is on-going and carried out by the Contractor on a daily basis.
- 4.7.4 The event action plan is annexed in Appendix L.

5 DOLPHIN MONITORING

5.1 Monitoring Requirements

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

5.2 Monitoring Equipment

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

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 78C
Computers (T7000 Tablet, Intel Atom)	Windows 7/MSO 13
	Logger
Camera	Nikon D90 300m 2.8D fixed focus
	Nikon D90 20-400m zoom lens
Laser Rangefinder	Infinitor LRF1000/ Kings 950
Marine Binocular x3	Nexus 7 x 50 marine binocular with compass
	and reticules
	Fujinon 7 x 50 marine binocular with compass
	and reticules

Table 5.1 Dolphin Monitoring Equipment

5.3 Monitoring Frequency and Conditions

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

5.4 Monitoring Methodology and Location

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

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

	HK Grid System		Long Lat in WGS84		
ID	X	Y	Long	Lat	
1	804671	814577	113.870308	22.269741	
1	804671	831404	113.869975	22.421696	
2	805475	815457	113.878087	22.277704	
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	820690	113.926752	22.325043	
7	810499	824613	113.926688	22.360464	
8	811508	820847	113.936539	22.326475	
8	811508	824254	113.936486	22.357241	
9	812516	820892	113.946329	22.326894	
9	812516	824254	113.946279	22.357255	
10*	813525	818270	113.956156	22.303225	
10*	813525	824657	113.956065	22.360912	
11	814556	818449	113.966160	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	22.349000	
20	805476	827081	113.877878	22.382668	
21	805476	830562	113.877811	22.382008	
21	806464	824033	113.887520	22.355164	
22	806464	829598	113.887416	22.305104	
	814559		113.966142		
23		821739		22.334574	
23	814559	824768	113.966101	22.361920	

*Remark: Due to the presence of deployed silt curtain systems at the site boundaries of the Project, 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 111km.

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 August 2014 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 4th, 7th, 25th and 26th August 2014. A total of 219.8 km of transect line was conducted under favourable conditions. The total length travelled was also 219.8km, please note that that some lines were shortened due to works and/or shipping traffic.

The effort summary and sightings data are shown in Tables 5.3 and 5.4, respectively. The survey efforts conducted in August 2014 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)	
	04/08/2014	NWL	0	0.8		
	04/08/2014	NWL	1	40.1	49.7	
	04/08/2014	NWL	2	8.8		
1	07/08/2014	NWL	1	1.2		
I	07/08/2014	NWL	2	22.2		
	07/08/2014	NEL	0	0.3	60.0	
	07/08/2014	NEL	1	23		
	07/08/2014	NEL	2	13.3		
	25/08/2014	NWL	1	38.3	58.1	
	25/08/2014	NWL	2	19.8	50.1	
	26/08/2014	NWL	1	10.1		
2	26/08/2014	NWL	2	4.8		
	26/08/2014	NEL	1	13.8	52.0	
	26/08/2014	NEL	2	19.4		
	26/08/2014	NEL	3	3.9		
	TOTAL in August 2014					

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

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

Table 5.4 Impact Dolphin Monitoring Survey Details August 2014

Date	Location	No. Sightings "on effort"	No. Sightings "opportunistic"
04/08/2014	NWL	2	3
04/00/2014	NEL	0	0
07/00/004 4	NWL	0	0
07/08/2014	NEL	0	0
25/09/2014	NWL	2	1
25/08/2014	NEL	0	0
26/08/2014	NWL	0	0
20/00/2014	NEL	0	0
	TOTAL in August 2014	4	4

Track

36.6 km

37.1 km

Rate

0

0

Rate

8.2

12.3

Encounter Rate of Number of Dolphin Sightings (STG)*							
Date	NEL Track	NWL Track	NEL Sightings	NWL Sightings	NEL Encounter Rate	NWL Encounter Rate	
04 & 07/08/2014	36.6 km	73.1 km	0	2	0	2.7	
25 & 26/08/2014	37.1 km	73.0 km	0	2	0	2.7	
Encounter Rate of Total Number of Dolphins (ANI)**							
	NEL	NWL	NEL	NWL	NEL Encounter	NWL Encounter	

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

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

Dolphins

0

0

Dolphins

6

9

Track

73.1 km

73.0 km

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

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

- 5.7.2 A total of eight sightings were made, four "opportunistic" and four "on effort". Five sightings were made on the 4th of August in NWL and three sightings were made on 25th August in NWL. A total of twenty-five individuals were sighted from the two impact dolphin surveys in the reporting period. Sighting details are summarised and plotted in Appendix K and Figure 5c, respectively.
- 5.7.3 Behaviour: Of the eight sightings, three groups were feeding, two group was travelling, one group was resting (categorized ad "Other") and two groups were engaged in multiple activities, both of which comprised feeding and surface active behaviours. The locations of sighting with different behaviour are mapped in Figure 5d.
- 5.7.4 One calf was seen in August 2014; its mother was not identified. The location of sighting with calf is mapped in Figure 5e.
- 5.7.5 Photo ID analyses for July 2014 is presented in Appendix K.
- 5.7.6 There were four re-sightings in July 2014 HZMB 049; 050; 116 and her calf. One new individual was added to the catalogue HZMB 121. HZMB 049 was last sighted in September 2012, however, as this individual was not identified in the baseline survey the usual patterns of occurrence are not known. HZMB 050 has been sighted five times during impact monitoring, always in NWL. The last time HZMB 050 was sighted was January 2014. HZMB 116 was seen twice, on the same day, with her calf. HZMB 116 was last seen in December 2013 when her calf was also present.
- 5.7.7 Noteworthy Observation¹:

Date

04 & 07/08/2014

25 & 26/08/2014

5.7.7.1 When impact monitoring was conducted at the southern parts of transect lines 1 & 2, the view of the area was partially blocked by the working vessels and fixed structures which do not belong to HKBCF Reclamation Works. The number of fixed structures has increased and the working vessels have moved when compared to last month's observations. As the working vessels will move during the ongoing works, it is considered that they will temporarily affect survey protocol, survey data collection, dolphin movement, dolphin habitat use and dolphin behaviour, whereas the fixed structures will



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

continuously affect survey protocol, survey data collection, dolphin movement, dolphin habitat use and dolphin behaviour.

- 5.7.7.2 The HKBCF Project effected line 11. The view of the area was partially blocked by the working vessels and in water structures. The number of fixed structures increased and working vessels had moved position when compared to observations made during last month's survey. As the working vessels will move as construction progresses, they will cause temporary effects to survey protocol, survey data collection, dolphin movement, dolphin habitat use and dolphin behaviour, whereas the fixed structures will affect all survey protocols and dolphin ecology in the long term.
- 5.7.7.3 The northern end of line 9 and 10 was affected by works which do not belongs to the HKBCF Reclamation Works; in particular, the view of the area was partially blocked by the working vessels. The in water structures has increased in size and the working vessels have moved position when compared to observations made during last month's survey. As the working vessels will move during the on-going works, they will temporarily affect survey data collection, dolphin movement, dolphin habitat use and dolphin behaviour. The works here are creating a reclamation/sea wall site which is permanent and will thus continuously affect all survey protocols and dolphin ecology.
- 5.7.7.4 Anchored vessels affected middle of line 12 on 26 Aug 2014 at 11:19 and southern end of line 12 on 26 Aug 2014 at 12:11, southern end of line 18 on 7 Aug 2014 at 15:25 and northern part of line 22 on 25 Aug 2014 at 14:54. As the vessels will move during throughout the duration of HKBCF impact monitoring, they will temporarily affect survey data collection, dolphin movement, dolphin habitat use and dolphin behaviour.
- 5.7.7.5 It was observed that lines 11 had been affected by the others construction activities in the vicinity, which are not related to the HKBCF Reclamation Works.
- 5.7.7.6 The new project is ongoing located at the southern ends of lines 3 and 5. These works partially blocked some of the survey view. As reported last month, there are no fixed structures, however, the moving platform and related vessels move between survey periods. As it is not known what activities these barges and platforms are conducting, the effect that these works may specifically have on dolphins is not known at this time.
- 5.7.8 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 (as per Figure 4 of this report).
- 5.7.9 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. Given that viewing conditions will change frequently during the construction phase of HZMB, it is inappropriate at this time to implement any changes in EM&A procedures, however, a review of survey conditions will be made from time to time to assess if changes to procedures are required.
- 5.7.10 One limit level exceedance for dolphin monitoring for the quarterly monitoring period (June August 2014) has been recorded. Investigation report will be provided in the quarterly report (June August 2014).
- 5.7.11 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 Project. In the reporting month, 4 site inspections were carried out on 7, 14, 21 and 28 August 2014.
- 6.1.2 Particular observations during the site inspections are described below:

Air Quality

6.1.3 Filling was observed. The Contractor was reminded to ensure proper implementation of relevant mitigation measures for sand blanket filling or reclamation filling. (Reminder)

Noise

6.1.4 No adverse observation was identified in the reporting month.

Water Quality

- 6.1.5 It was observed that compressors were not provided with drip tray at Portion A. The Contractor was reminded to provide mitigation measures such as drip tray to compressors at Portion A. The Contractor cleared the compressors. (Closed)
- 6.1.6 Oil stain has been observed inside the water of one steel cell when inspection conducted between steel cell 53 58. Oil stain was cleared by the Contractor using oil absorbent materials and used oil absorbent materials were disposed of as chemical waste. (Closed)
- 6.1.7 Oil drums were observed without drip tray or bunding on barge GD851 and at area between Portion C1b and Potion A, the Contractor was reminded to provide mitigation measures such as drip tray or bunding to all oil drums. Drip tray or bunding was provided to oil drums on barge GD851 by the Contractor and Oil drum at area between Portion C1b and Potion A was removed by the Contractor. (Closed)
- 6.1.8 Defect (holes and deformed frame of drip tray) was observed within drip tray at area between Portion C1b and Potion A. The Contractor was reminded to provide proper mitigation measure such as drip tray without defect to oil drum and PMEs. The Contractor rectified large majority of the defects (holes and deformed frame of drip tray) observed within drip tray at area between Portion C1b and Potion A. The Contractor provided proper mitigation measure such as drip tray without defect to PME in September 2014. (Closed)

Chemical and Waste Management

6.1.9 General refuse were observed area near steel cell 48, various locations when inspection was conducted at portion B and Portion D and on water at Portion D. The Contractor was reminded to regularly clear the general refuse to keep the site clean and tidy. The Contractor cleared the general refuse to keep the site clean and tidy. (Closed)

Landscape and Visual Impact

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

Others

6.1.11 Rectifications of remaining identified items are undergoing by the Contractor. Follow-up inspections on the status on provision of mitigation measures will be conducted to ensure all identified items are mitigated properly.



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, 1,427,973m³ of fill were imported for the Project use in the reporting period. 196kg of paper/cardboard packaging and 65m³ 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.

6.3 Environmental Licenses and Permits

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

Table 6.1	6.1 Summary of Environmental Licensing and Permit Status					
Ctotutomy	Linemaa/	1:	Valid Period	License/		

Statutory License/ Reference Permit		License or Permit No.	Valid Period		License/ Permit	Remarks
			From	То	Holder	
EIAO	Environmental	EP- 353/2009/G	06/08/2012	N/A	HyD	Hong Kong – Zhuhai – Macao Bridge Hong Kong Boundary Crossing Facilities
	Permit	EP- 354/2009/B	128/01/2017/ NI/A	N/A	Пу	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		17/01/2012		CHEC	Works Area WA4
WDO	Chemical Waste Producer Registration	5213-951- C1186-21	30/3/2012	N/A	CHEC	Chemical waste produced in Contract HY/2010/02
WDO	Chemical Waste Producer Registration	5213-974- C3750-01	31/10/2012		CHEC	Registration as Chemical Waste Producer at To Kau Wan(WA4)
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-RS0871- 14	19/08/2014	18/11/2014	CHEC	Reclamation Works in Contract HY/2010/02
NCO	Construction Noise Permit	GW-RE0656- 14	30/06/2014	22/12/2014	CHEC	Section of TKO Fill Bank under Contract HY/2010/02

6.4 Implementation Status of Environmental Mitigation Measures

- 6.4.1 In response to the site audit findings, the Contractors carried out corrective actions.
- 6.4.2 A summary of the Implementation Schedule of Environmental Mitigation Measures (EMIS) is presented in Appendix C. Most of the necessary mitigation measures were implemented properly.
- 6.4.3 Training of marine travel route for marine vessels operator was given to relevant staff and relevant records were kept properly.
- 6.4.4 Regarding the implementation of dolphin monitoring and protection measures (i.e. implementation of Dolphin Watching Plan, Dolphin Exclusion Zone and Silt Curtain integrity Check), regular checking were conducted by the experienced MMOs within the works area to ensure no dolphin was trapped by the enclosed silt curtain systems. Any dolphin spotted within the enclosed silt curtain systems was



reported and recorded. Relevant procedures were followed and measures were well implemented. Silt curtain systems were also inspected timely in accordance to the submitted plan. All inspection records were kept properly.

- 6.4.5 Acoustic decoupling measures on noisy plants on construction vessels were checked regularly and the Contractor was reminded to ensure provision of ongoing maintenance to noisy plants and to carry out improvement work once insufficient acoustic decoupling measures were found.
- 6.4.6 Frequency of watering per day on exposed soil was checked; with reference to the record provided by the Contract, watering was conducted at least 8 times per day on reclaimed land. The frequency of watering is the mainly refer to water truck. Sprinklers are only served to strengthen dust control measure for busy traffic at the entrance of Portion D. As informed by the Contractor, during the malfunction period of sprinkler, water truck will enhance watering at such area. The Contractor was reminded to ensure provision of watering of at least 8 times per day on all exposed soil within the Project site and associated works areas throughout the construction phase.
- 6.4.7 Noted from contractor's report during the last Site Safety and Environmental Management Committee meeting on 21 August 2014, a number of sprinklers are missing/ damaged on 31 July 2014. Subsequently, with refer to the site inspection and checking record issued on 6 August 2014, the missing and damaged sprinkler was rectified on 6 August 2014.
- 6.4.8 Oil spillage observed on 14 and 20 August 2014 at Steel cell 54. Spill Response Plan was followed by the Contractor.
- 6.4.8.1 Following the spill response plan, ET, IEC and the RSS were informed of the incident by the Contractor and the Contractor used absorption booms to contain and remove the floating oil from water and absorption booms used was collected using disposal bags as part of the spill kits item. The used absorption booms were disposed of as chemical waste.
- 6.4.8.2 The source of the oil spill was identified on 14 August 2014 as a discrete, non-continuous source with approximately less than 15m² spread. The cause of the oil spill was not identified due to no continuous runoff was observed after inspection.
- 6.4.8.3 The source of the oil spill was identified on 20 August 2014 as continuous source with approximately less than 15m² spread.
- 6.4.8.4 The oil spillage identified on 20 August 2014 was caused by overflow of nearby oil container which tightly closed lids to chemical container was not provided to avoid leakage of chemicals and chemical waste. The oil container which caused the oil spillage was rellocated and transferred by the Contractor to designated oil storage area.
- 6.4.8.5 Similar to the oil stain observed on 20 August 2014, the oil stain on 14 August 2014 was also found at steel cell 54, it was considered that the source of the oil stain observed inside steel cell 54 on 14 and 20 August 2014 are likely to be the same and is likely to be caused by overflow of nearby oil container which without proper cover. On both incidents, the oil stain was confined by steel cell 54.
- 6.4.8.6 Monitoring record of 15, 18 and 20 August 2014 have been reviewed. There are action level exceedances of DO recorded on 15 August 2014, but they are not considered as related to this contract. For details of the DO exceedances occurred on 15 August 2014, please refer to section 4.7.3. The action level exceedances of DO occurred at area located north to the HKBCF Reclamation Works which is far away from the cell 54 located at southeast of the HKBCF Reclamation Works. It is unlikely that the DO exceedances were associated with the oil spillage occurred at steel cell no.54.
- 6.4.8.7 In addition, there was no exceedance recorded at monitoring station IS(Mf)16 which is the closest to steel cell 54 which indicates it is unlikely that water quality is affected by the oil spillage occurred at steel cell 54.
- 6.4.8.8 Site inspection was conducted jointly with the ESS and the RSS on 21 August 2014. No oil spillage was further observed on site.

6.4.8.9 Recommendation:

- The Contractor was reminded to keep chemical and chemical waste containers in good condition and free from corrosion and damage which may impair the performance of the containers.
- The Contractor was reminded to provide tightly closed lids to chemical container so as to avoid leakage of chemicals and chemical waste. In addition, the Contractor was reminded to ensure every chemical and chemical waste containers securely closed or sealed, correctly placed and kept clean.
- The contractor was reminded to continue to follow the spill response plan in the event of accidental oil spillage.

6.5 Summary of Exceedances of the Environmental Quality Performance Limit

- 6.5.1 All 1-Hour TSP and 24-hour TSP results were below the Action and Limit Level in the reporting month.
- 6.5.2 For construction noise, no exceedance was recorded at all monitoring stations in the reporting period.
- 6.5.3 During Mid-ebb tide on 15 August 2014, surface and middle DO in mg L⁻¹ recorded at IS(Mf)11, IS10 and SR5 mid-ebb tide; bottom DO in mg L⁻¹ recorded at IS(Mf)11 and IS10 exceeded the Action Level. During mid-flood tide on 15 August 2014, surface and middle DO in mg L⁻¹ recorded at IS(Mf)11, IS10, SR5, SR6 and SR7 during mid-flood tide; bottom DO in mg L⁻¹ recorded at IS(Mf)11, IS10, SR5 and SR6 during mid-flood tide exceeded the Action Level. After investigation, it is unlikely that the DO exceedances are related the marine construction activities of this Contract.
- 6.5.4 One limit level exceedance for dolphin monitoring for the quarterly monitoring period (June August 2014) has been recorded. Investigation report will be provided in the quarterly report (June August 2014).
- 6.5.5 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 environmental complaint has been received in August 2014.
- 6.6.3.1 As informed by the Contractor on 22 Aug 2014, EPD referred a complainant to this Contract on 21 August 2014, the complainant raised concern about uncovered sand barges at the sea area outside Melody Garden, Tuen Mun, sand were brought to inside of houses by wind and also causing the vicinity to be covered with sand and dust.

6.6.3.2 Investigation Actions:

- 1hr TSP and 24hrs TSP monitoring data of August 2014 have been reviewed.
- Site inspections were conducted jointly on 28 August 2014 with RSS and the Contractor.

6.6.3.3 Investigation findings:

- There is no sufficient information provided by the complainant to make sure that the concerned barges are related to this project.
- Date of the observed impact was not specified by the complainant so the impact air quality monitoring (IAQM) results available for August 2014 for monitoring stations close to the concerned area AQMS1, ASR1, ASR5, ASR6 and ASR10 have been reviewed and there was no impact air quality monitoring result that shows 1-hour TSP or 24-hour TSP exceeded the action (AL)/limit level (LL).²



 ² Reviewed IAQM data and the action (AL)/limit level (LL) is available online respectively at: <u>http://www.hzmbenpo.com/php/list_air_year_All.php</u>,and <u>http://www.hzmbenpo.com/emna_report/tmclkl_hy201208/manual/html/toc.htm</u>

• Photo record below shows that Sand barges are equipped with watering equipments. And watering equipment was used to keep the sand filling material wet.



- In addition, site inspection has been jointly conducted with the Contractor and RSS on 28 August 2014, but no generation of fugitive dust was observed to be caused by barges loaded with filling material.
- 6.6.3.4 After investigation, there is no adequate information to conclude the observed impact is related to this Contract.
- 6.6.3.5 The Contractor was advised to ensure to continue the provision of fugitive dust mitigation measures to barges loaded with filling material such as watering to sand filling material on sand barges to keep the surface of stockpile of filling material wet.
- 6.6.3 No notification of summons and successful prosecutions 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 Project in September 2014 and October 2014 will be *:-

Marine-based Works

- Cellular structure installation
- Connecting arc cell installation
- Laying geo-textile
- Sand blanket laying
- Sand filling
- Rock filling
- Maintenance of silt curtain & silt screen at sea water intake of HKIA
- Band drain installation
- Backfill cellular structure
- Geotechnical Instrumentation works
- Surcharge laying
- Capping Beams structures
- Construction of temporary jetties for surcharge laying
- Temporary Watermain construction along access at Portion D
- Flat barge of unloading public fill for surcharge laying
- Precast Yard Setup

Land-based Works

- 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 September & October 2014 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;
 - Minimize loss of sediment from filling works;
 - Regular review and maintenance of silt curtain systems, drainage systems and desilting facilities;
 - Exposed surfaces/soil stockpiles should be properly treated to avoid generation of silty surface runoff during rainstorm;
 - Regular review and maintenance of wheel washing facilities provided at all site entrances/exits;
 - Conduct regular inspection of various working machineries and vessels within works areas to avoid any dark smoke emission;
 - Suppress dust generated from work processes with use of bagged cements, earth movements, excavation activities, exposed surfaces/soil stockpiles and haul road traffic;
 - Quieter powered mechanical equipment should be used;
 - Provision of proper and effective noise control measures for operating equipment and machinery onsite, such as erection of movable noise barriers or enclosure for noisy plants;
 - Closely check and replace the sound insulation materials regularly;
 - Better scheduling of construction works to minimize noise nuisance;
 - Properly store and label oil drums and chemical containers placed on site;
 - Proper chemicals, chemical wastes and wastes management;
 - Maintenance works should be carried out within roofed, paved and confined areas;
 - Collection and segregation of construction waste and general refuse on land and in the sea should be carried out properly and regularly; and
 - Proper protection and regular inspection of existing trees, transplanted/retained trees.
 - Control night-time lighting and glare by hooding all lights.
 - Regular review and provide maintenance to dust control measures such as sprinkler system.

7.3 Monitoring Schedule for the Coming Month

7.3.1 The tentative schedule for environmental monitoring in September 2014 is provided in Appendix F.

8 CONCLUSIONS AND RECOMMENDATIONS

8.1 Conclusions

- 8.1.1 The construction phase and EM&A programme of the Project commenced on 12 March 2012.
- 8.1.2 For impact air quality monitoring, all 1-Hour TSP and 24-hour TSP results were below the Action and Limit Level in the reporting month.
- 8.1.3 For construction noise, no exceedance was recorded at all monitoring stations in the reporting period.
- 8.1.4 During Mid-ebb tide on 15 August 2014, surface and middle DO in mg L⁻¹ recorded at IS(Mf)11, IS10 and SR5 mid-ebb tide; bottom DO in mg L⁻¹ recorded at IS(Mf)11 and IS10 exceeded the Action Level. During mid-flood tide on 15 August 2014, surface and middle DO in mg L⁻¹ recorded at IS(Mf)11, IS10, SR5, SR6 and SR7 during mid-flood tide; bottom DO in mg L⁻¹ recorded at IS(Mf)11, IS10, SR5 during mid-flood tide exceeded the Action Level. After investigation, it is unlikely that the DO exceedances are related the marine construction activities of this Contract.
- 8.1.5 A total of eight sightings were made, four "opportunistic" and four "on effort". Five sightings were made on the 4th of August in NWL and three sightings were made on 25th August in NWL. A total of twenty-five individuals were sighted from the two impact dolphin surveys in the reporting period. Sighting details are summarised and plotted in Appendix K and Figure 5c, respectively.
- 8.1.6 Behaviour: Of the eight sightings, three groups were feeding, two group was travelling, one group was resting (categorized ad "Other") and two groups were engaged in multiple activities, both of which comprised feeding and surface active behaviours. The locations of sighting with different behaviour are mapped in Figure 5d.
- 8.1.7 One calf was seen in August 2014; its mother was not identified. The location of sighting with calf is mapped in Figure 5e.
- 8.1.8 One limit level exceedance for dolphin monitoring for the quarterly monitoring period (June August 2014) has been recorded. Investigation report will be provided in the quarterly report (June August 2014).
- 8.1.9 Environmental site inspection was carried out 4 times in August 2014. Recommendations on remedial actions were given to the Contractors for the deficiencies identified during the site audits.
- 8.1.10 One environmental complaint has been received in August 2014. As informed by the Contractor on 22 Aug 2014, EPD referred a complainant to this Contract on 21 August 2014, the complainant raised concern about uncovered sand barges at the sea area outside Melody Garden, Tuen Mun, sand were brought to inside of houses by wind and also causing the vicinity to be covered with sand and dust. After investigation, there is no adequate information to conclude the observed impact is related to this Contract.
- 8.1.11 No notification summons and successful prosecution was received in the reporting period.

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.

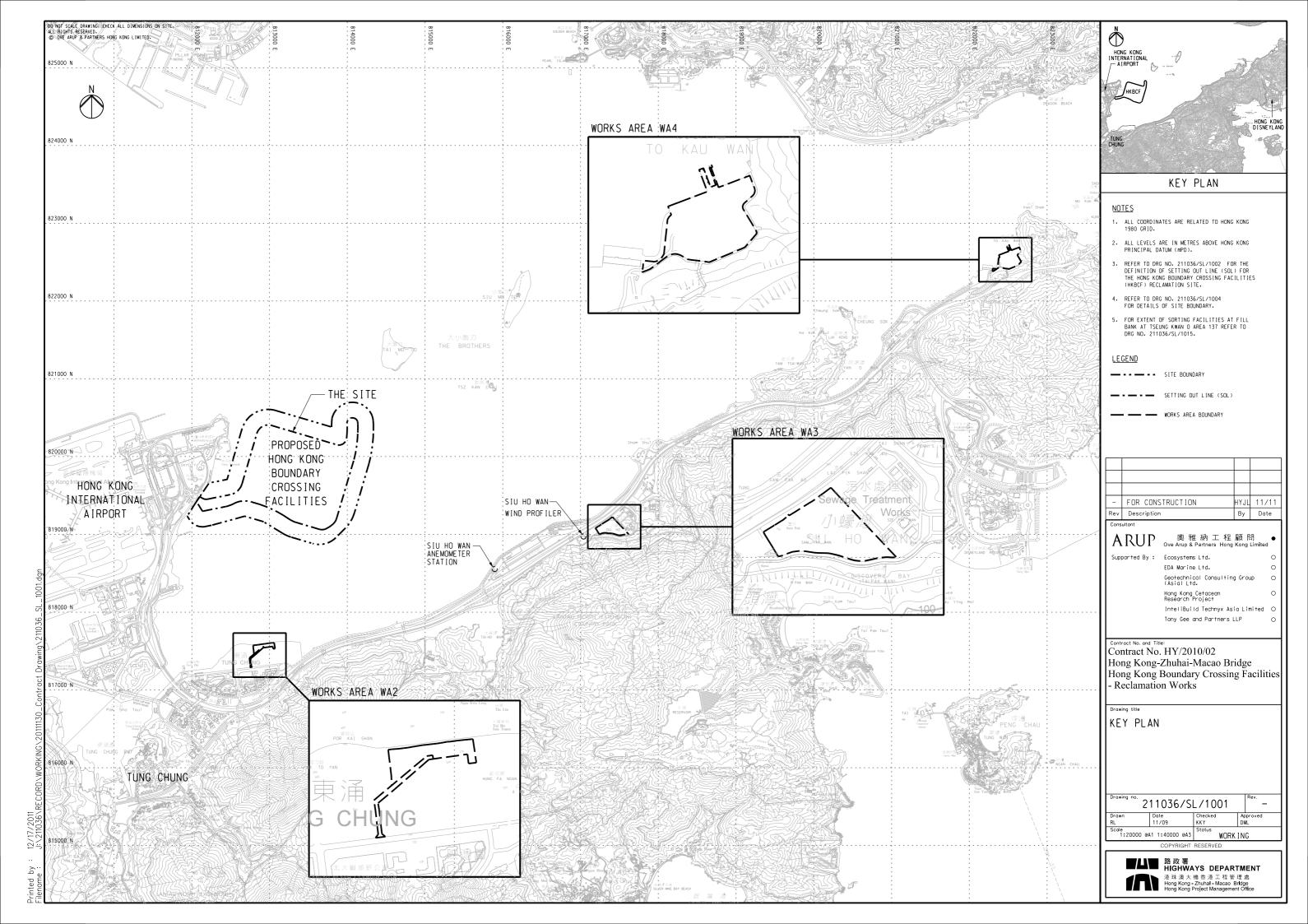


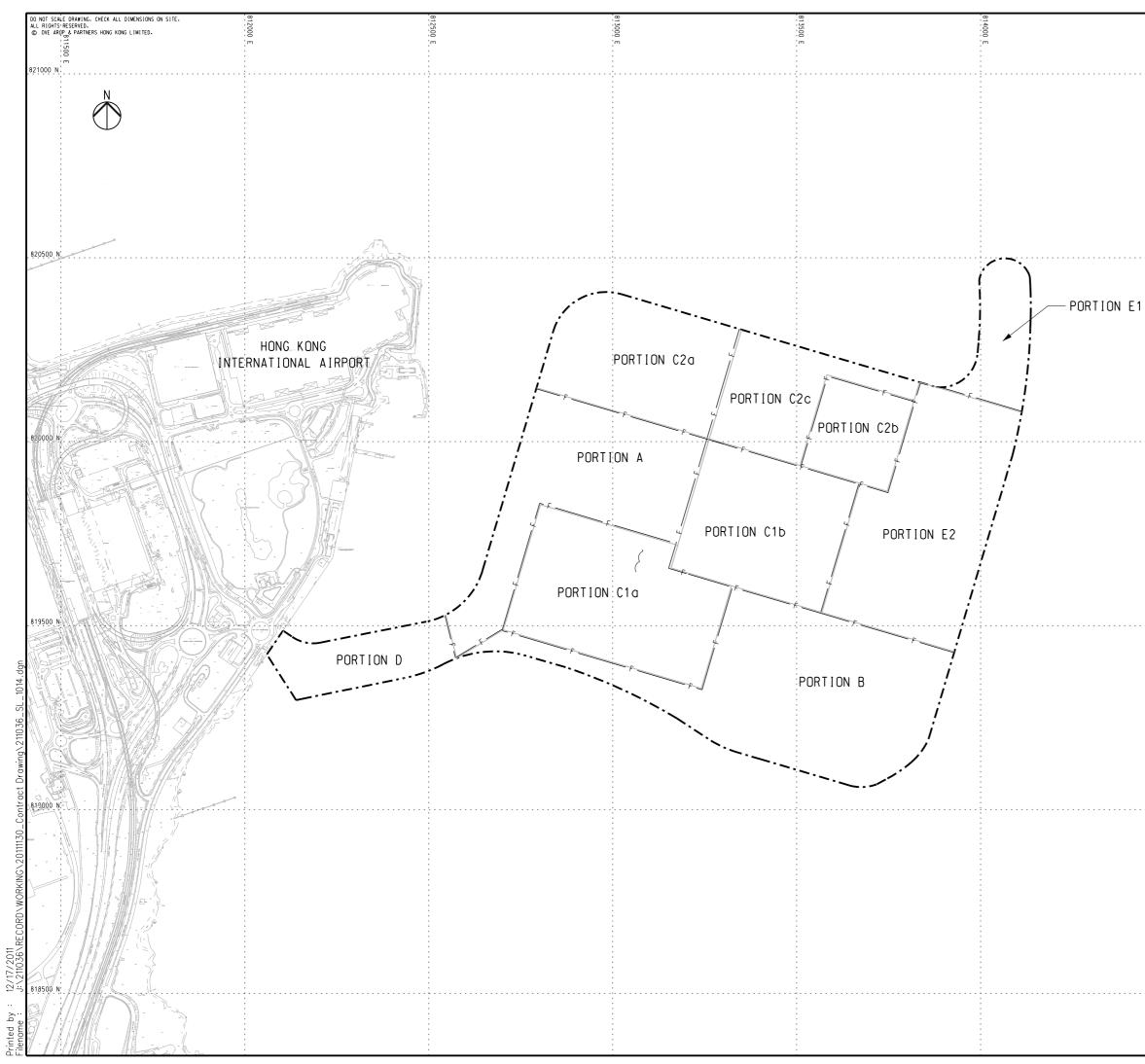
Chemical and Waste Management

- 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.

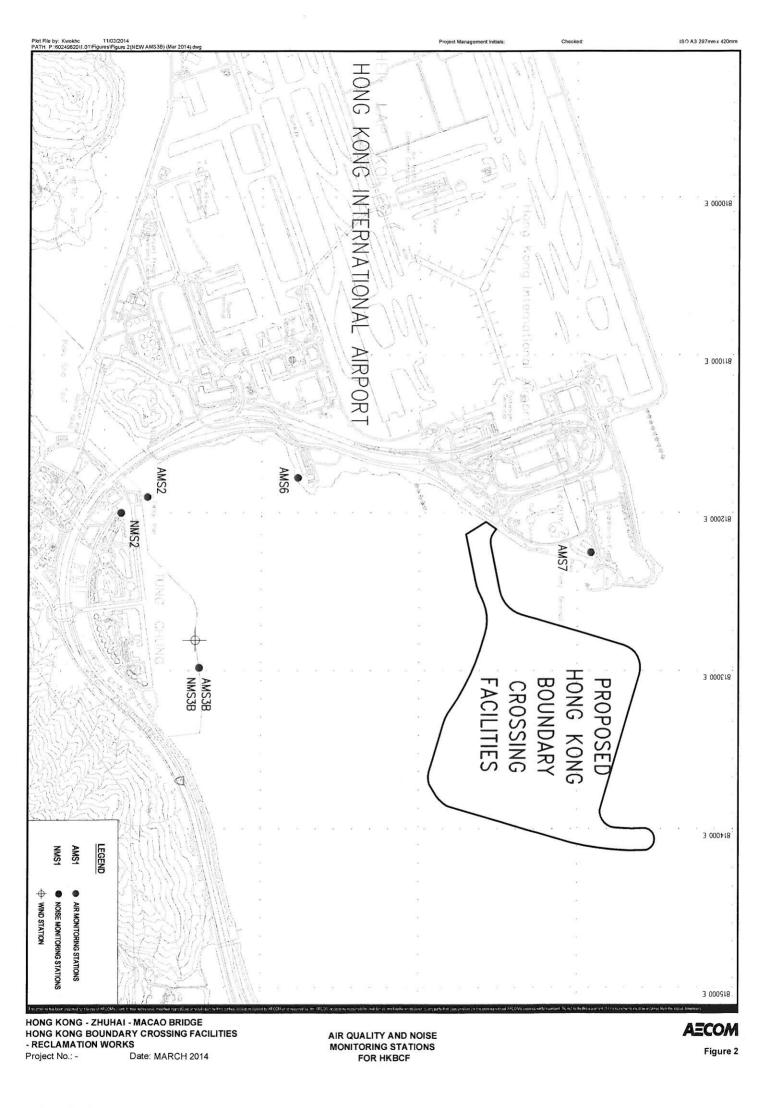
Landscape and Visual Impact

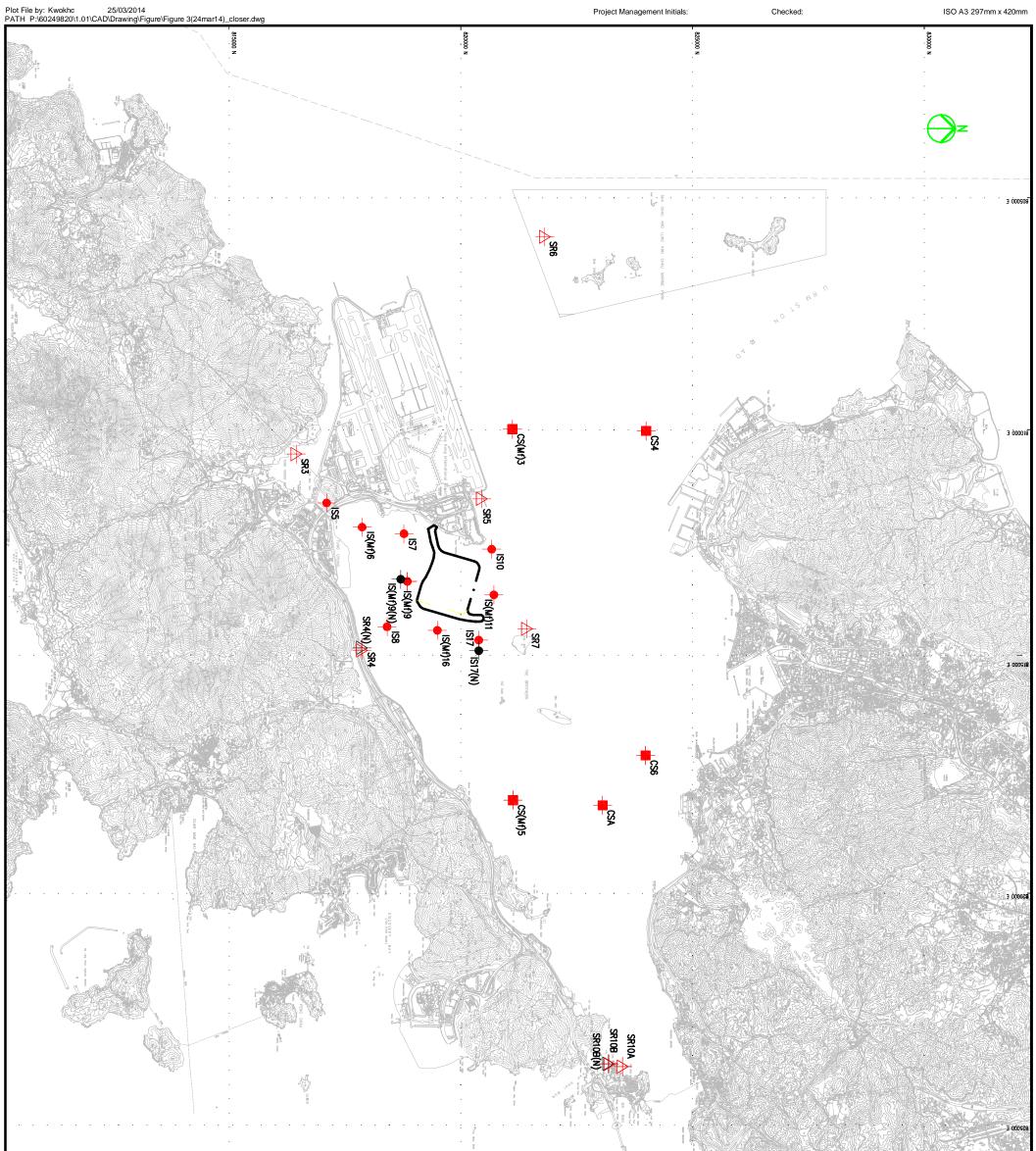
- All existing, retained/transplanted trees at the works areas should be properly fenced off and regularly inspected.
- Control night-time lighting and glare by hooding all lights.





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





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

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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

Figure 3

IMPACT STATIONS

↓ IEGEND

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CONTROL / FAR FIELD STATIONS

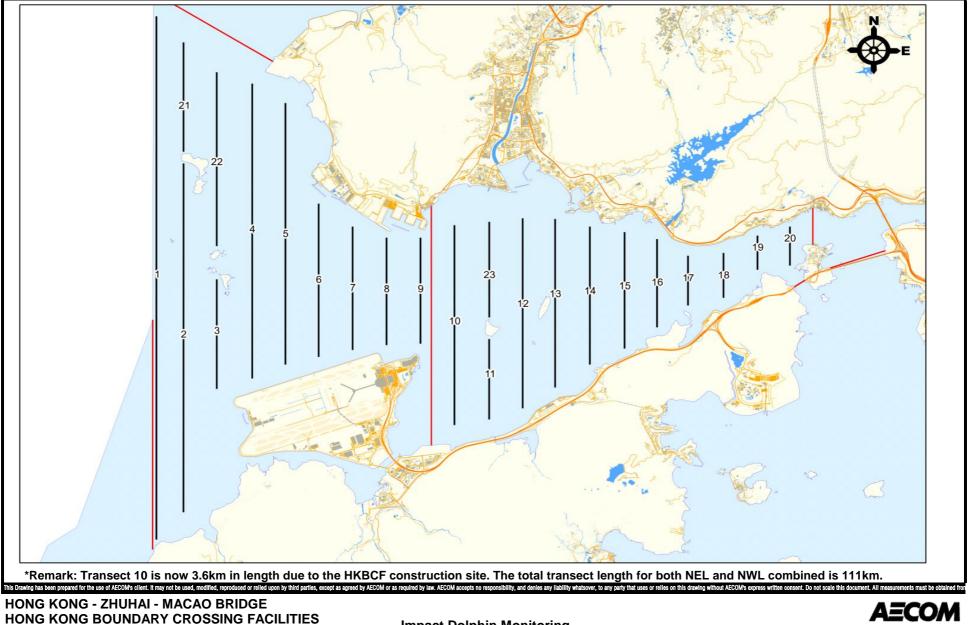
SENSITIVE RECEIVERS STATIONS

SENSITIVE RECEIVERS STATIONS (RELOCATED)

IMPACT STATIONS (RELOCATED)

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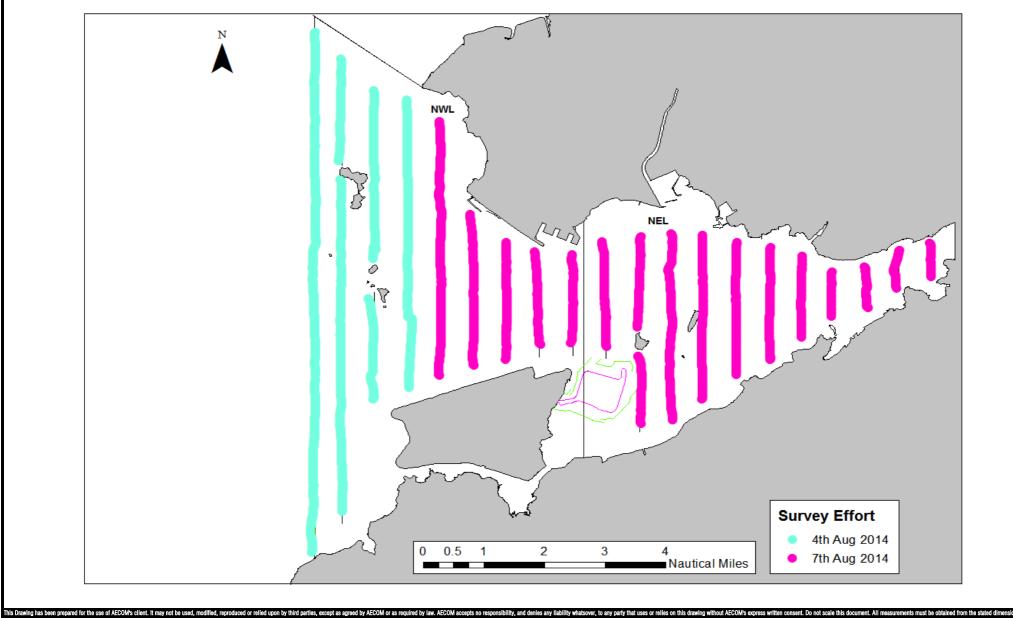




HONG KONG - 2HUHAI - MACAO BRIDGE HONG KONG BOUNDARY CROSSING FACILITIES - RECLAMATION WORKS Project No.: 60249820 Date: January 13

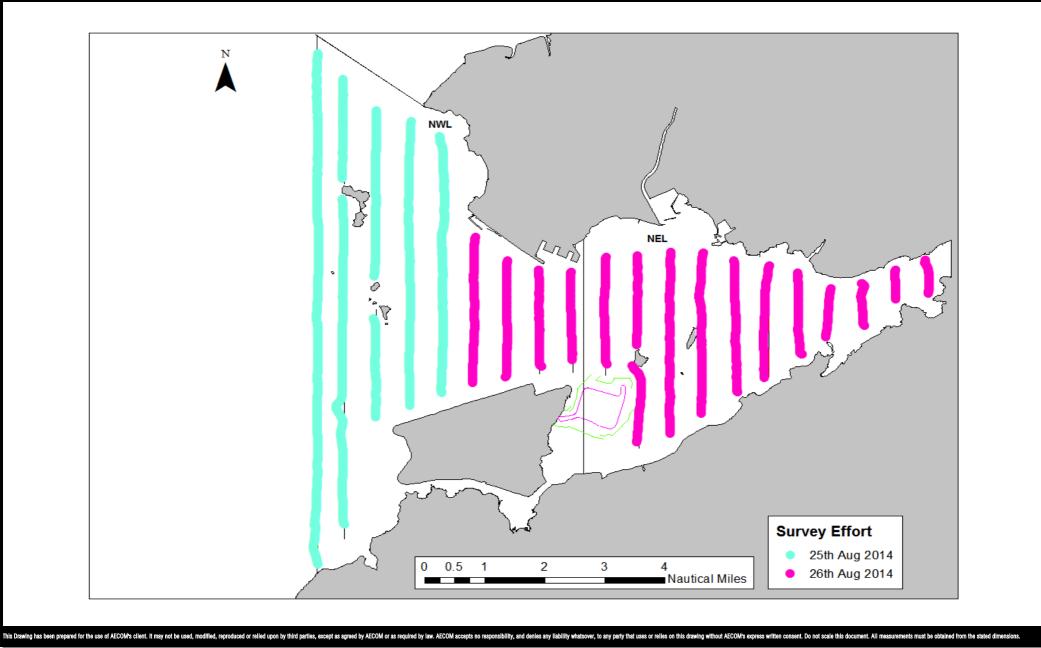
Impact Dolphin Monitoring Line Transect Layout Map

Figure 4



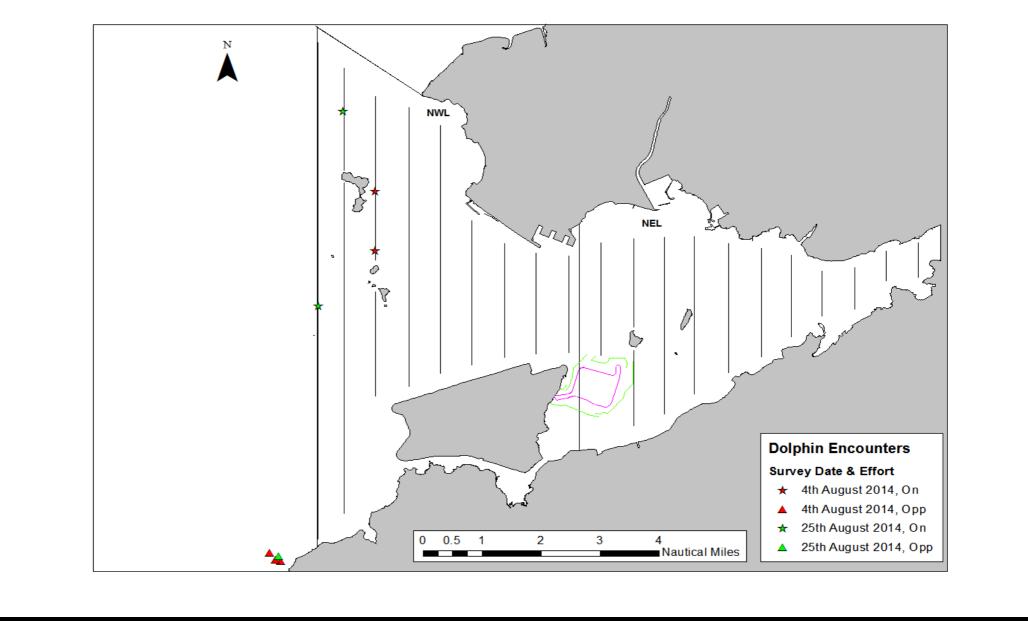
HONG KONG - ZHUHAI - MACAO BRIDGE HONG KONG BOUNDARY CROSSING FACILITIES - RECLAMATION WORKS Project No.: 60249820 Date: September 2014

Impact Dolphin Monitoring Survey Efforts on 4 and 7 August 2014



HONG KONG - ZHUHAI - MACAO BRIDGE HONG KONG BOUNDARY CROSSING FACILITIES - RECLAMATION WORKS Project No.: 60249820 Date: September 2014

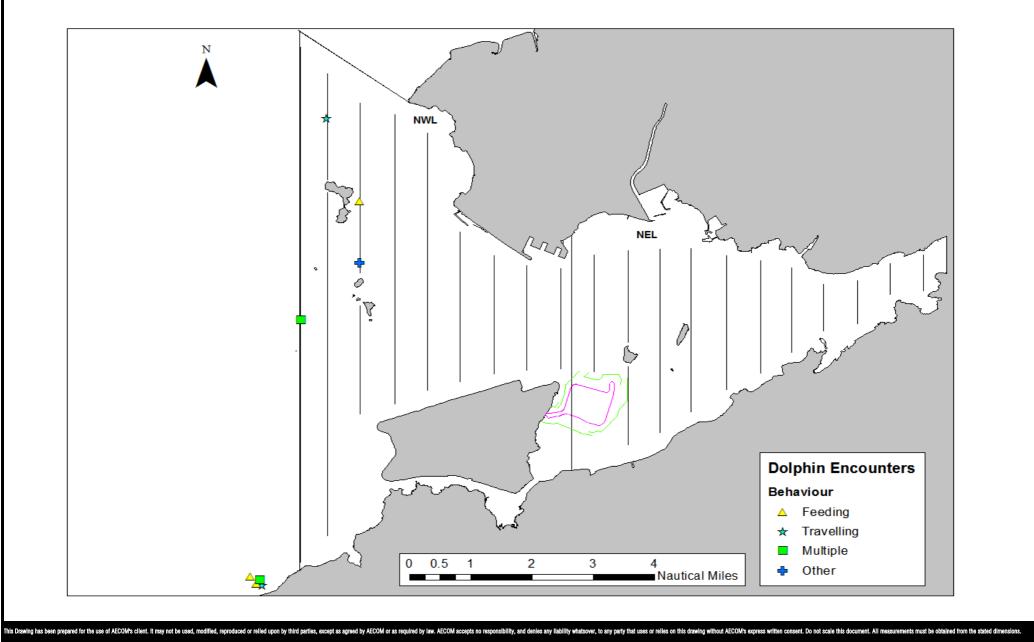
Impact Dolphin Monitoring Survey Efforts on 25 and 26 August 2014



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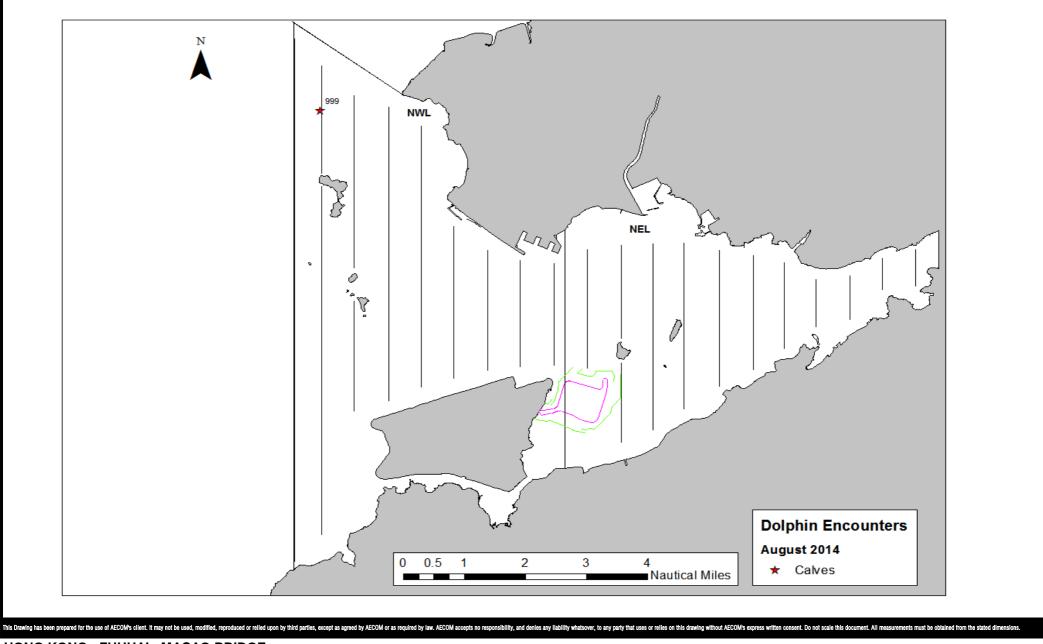
HONG KONG - ZHUHAI - MACAO BRIDGE HONG KONG BOUNDARY CROSSING FACILITIES - RECLAMATION WORKS Project No.: 60249820 Date: September 2014

Impact Dolphin Monitoring Survey Sightings in August 2014



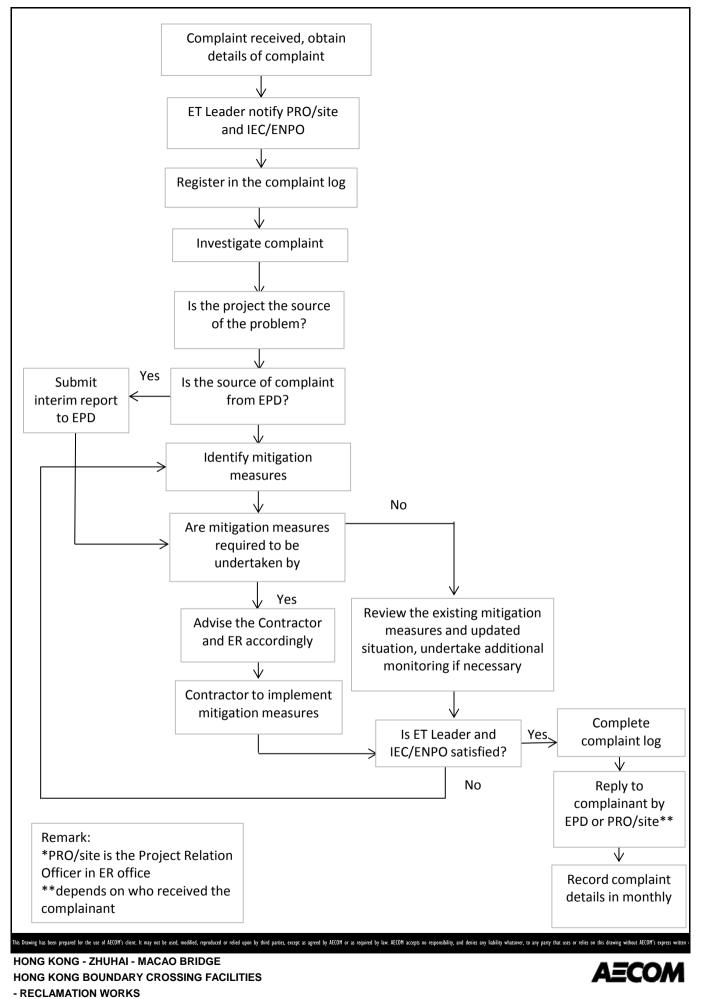
HONG KONG - ZHUHAI - MACAO BRIDGE HONG KONG BOUNDARY CROSSING FACILITIES - RECLAMATION WORKS Project No.: 60249820 Date: September 2014

Impact Dolphin Monitoring Survey Behaviour Map in August 2014



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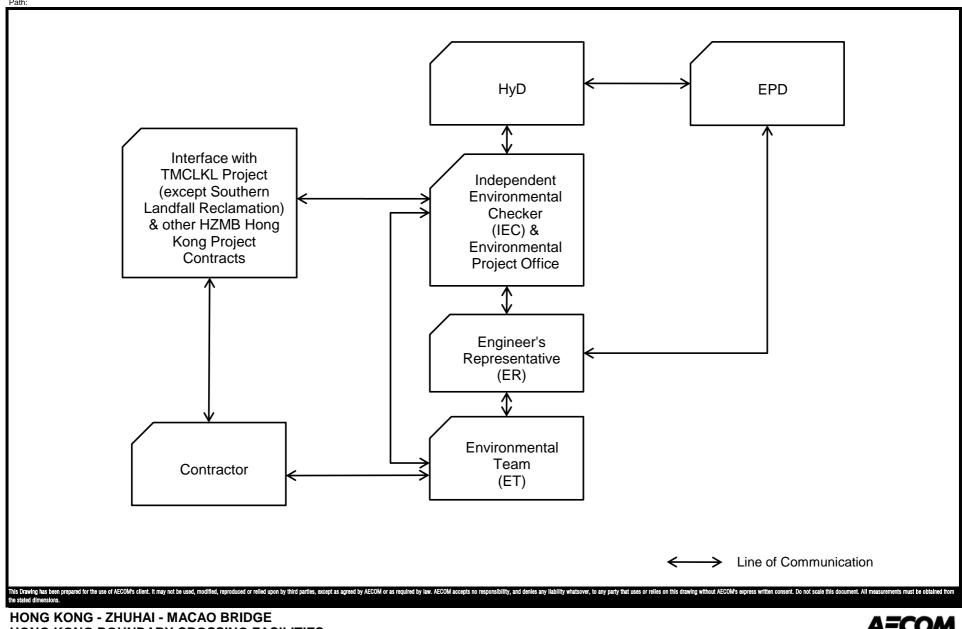
Impact Dolphin Monitoring Survey Calf Map in August 2014



Environmental Complaint Handling Procedure



Checked:

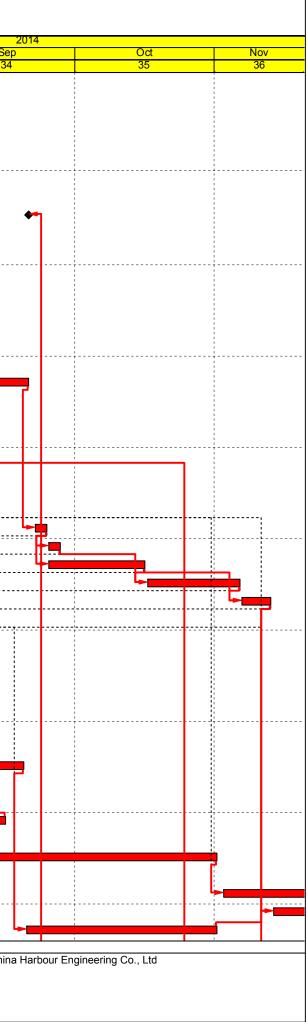


HONG KONG BOUNDARY CROSSING FACILITIES --RECLAMATION WORKS Project No.: 60249820 Date: April 2013

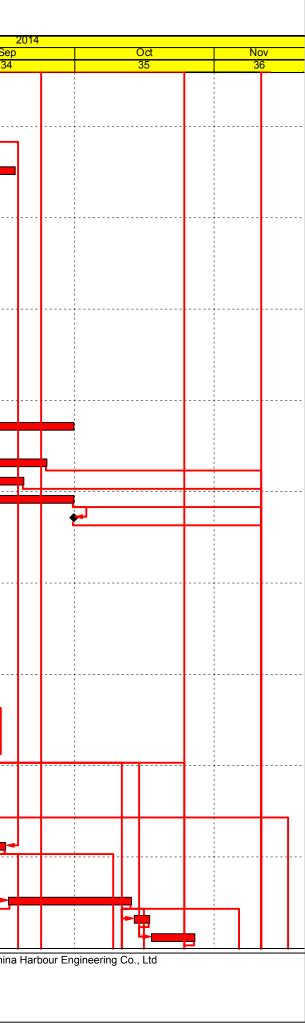
Project Organisation for Environmental Works



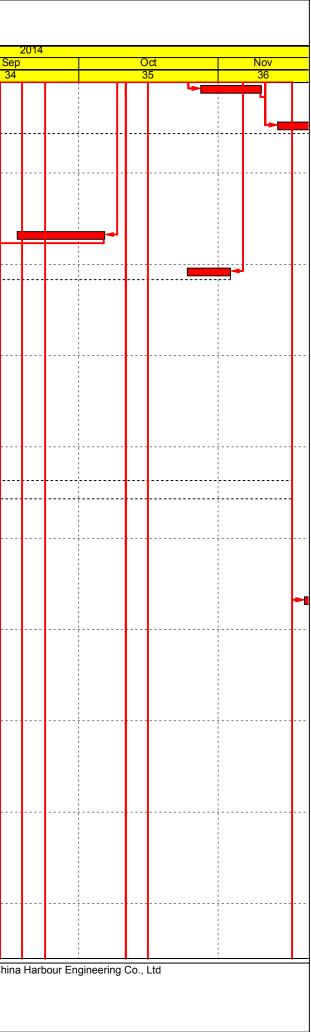
	Hong Kong - Zhuhai - Macao Bridge			Quaterly Repo	-			
	rssing Facilities - Reclamation Works		Ctart	Data Date :21-Au			<u> </u>	
D	Activity Name	Original S Duration	Start	Finish	Total Float		Aug 33	
h Monthly Prog	gress Report Status as on 21Aug2014 Ver.5	1745	21-May-12 A	27-Mar-17	17		3	
ontract Key Dates		31 2	21-Aug-14	20-Sep-14	-29			
· · · · · · · · · · · · · · · · · · ·	- ment of Stages and completion of Sections	8 2	21-Aug-14	28-Aug-14	-121			
1040	KD-2, Achievement of Stage 2 (420days+EOT 2days, 24Jan2013)	0		28-Aug-14*	-214			
1050	KD-3, Achievement of Stage 3 (730days+EOT 2days, 30Nov2013)	0		21-Aug-14*	-263			
1063	KD-4, Completion of Section A Main Area (730days+EOT 0.5days, 29Nov2013) PCB	Are O		25-Aug-14*	-118			
cation of Site			20-Sep-14	20-Sep-14	-29			
1370	Works Area TKO-WA (Zone C)	0		20-Sep-14*	-29			
ork Zone, as defi	ned in PS Clause 1.03(6)	401 (05-Feb-14 A	12-Mar-15	763	1		
rtion A, B, C & E		401 (05-Feb-14 A	12-Mar-15	763			
ortion A, B, C & E			05-Feb-14 A	12-Mar-15	763			
Seawall			07-Apr-14 A	19-Dec-14	846			
Cellular Structures			07-Apr-14 A	19-Dec-14	199			
Cellular Main Cells 8	5cells		01-Aug-14 A	20-Sep-14	-60			
Full Guide Frames			01-Aug-14 A	20-Sep-14	-60			
	C079 & Portion E2 C065 & C066 4cells		01-Aug-14 A	20-Sep-14	-60			
CSE1-040	PE1 Cellular Structure C078 & C079 2cells Type_C 9,143m3		01-Aug-14 A	20-Sep-14	-60	-		
Connecting Arcs			07-Apr-14 A	13-Nov-14	235			
	n K051/K052 to C066/C067 16arcs		25-Jun-14 A	28-Aug-14	-28			
CAE2-025L	PE2 Connecting Arc C063/C064 - C065/C066 Landside upper arcs splicing 3nrs (WC	18 2	25-Jun-14 A	27-Aug-14	-27			
CAE2-028	PE2 Final backfill cellular cells & Arcs C063/C064, C064/C065, C065/C066 & C066/C0		21-Aug-14	28-Aug-14	-173			
Portion E1 between	n C073/C074 to C090/C091 18arcs		07-Apr-14 A	13-Nov-14	235			
CAE1-014L	PE1 Connecting Arc C084/C085 - C087/C088 Landside upper arcs splicing 4nrs (HF)	34 (07-Apr-14 A	22-Aug-14	9			
CAE1-018	PE1 Final backfill cellular cells & Arcs C080/C081 to C090/C091 Type_C 91,454.5 m3	22 3	31-May-14 A	28-Aug-14	9			
CAE1-022L	PE1 Connecting Arc C077/C078 - C079/C080 Landside lower arcs 3nrs		22-Sep-14	24-Sep-14	-54			
CAE1-022S	PE1 Connecting Arc C077/C078 - C079/C080 Seaside lower arcs 3nrs	3 2	25-Sep-14	27-Sep-14	-40			
CAE1-024L	PE1 Connecting Arc C077/C078 - C079/C080 Landside upper arcs splicing 3nrs (WC	l) 17 2	25-Sep-14	16-Oct-14	-54			
CAE1-024S	PE1 Connecting Arc C077/C078 - C079/C080 Seaside upper arcs splicing 3nrs (WC1	18	17-Oct-14	06-Nov-14	-54			
CAE1-028	PE1 Final backfill cellular cells & Arcs C077/C078 to C079/C080 Type_C 28,665m3	6 (07-Nov-14	13-Nov-14	-54			
CAE1-048	PE1 Final backfill cellular cells & Arcs C077 to C066 Type_C 108,416m3	26	13-Jun-14 A	22-Aug-14	13			
CAE1-099	PE1 Completion of Cellular Cell at interface of TM-CLKL Tunnel	0		28-Aug-14	312			
Capping Beams		198 2	29-Apr-14 A	19-Dec-14	-48			
Portion B between	K028 to K056 Capping Beams	52 2	29-Apr-14 A	25-Aug-14	-122			
CB025-00020	PB Capping Beams structure K044 - K056 13cells 4days/cell	52 2	29-Apr-14 A	25-Aug-14	-122			
Portion E2 between	n K057 to C067 Capping Beams	29 (04-Aug-14 A	19-Sep-14	-12			
CBE2-000	PE2 Capping Beams structure K057 to C062 6cells 4days/cell	13 (04-Aug-14 A	29-Aug-14	-19			
CBE2-005	PE2 Capping Beams structure K063 to C064 2cells 4days/cell	8 3	30-Aug-14	06-Sep-14	-19			∥ ┡≢
CBE2-010	PE2 Capping Beams structure C065 to C067 3cells 4days/cell	12 (08-Sep-14	19-Sep-14	-12			
Portion C2a betwee	en C112 to C103 Capping Beams	24 2	21-Aug-14	15-Sep-14	-126			
CBC2a-010	PC2a Capping Beams structure C106 to C103 4cells 4days/cell	16 2	26-Aug-14	11-Sep-14	-122			
CBC2a-020	PC2a Capping Beams structure C112 to C107 6cells 4days/cell	24 2	21-Aug-14	15-Sep-14	-126		-	
Portion C2c betwee	en C102 to C091 Capping Beams	48	12-Sep-14	01-Nov-14	-48			
CBC2c-000	PC2c Capping Beams structure C102 to C091 12cells 4days/cell	48	12-Sep-14	01-Nov-14	-48			
	n C090 to C074 Capping Beams	84 2	20-Sep-14	19-Dec-14	-48			
CBE1-010	PE1 Capping Beams structure C090 to C080 11cells 4days/cell		03-Nov-14	19-Dec-14	-48			
CBE1-020	PE1 Capping Beams structure C079 & C078 2cells 4days/cell		14-Nov-14	22-Nov-14	-23			
CBE1-030	PE1 Capping Beams structure C068 to C077 10cells 4days/cell	40 2	20-Sep-14	01-Nov-14	-12			
 Remaining Level of 	Effort Remaining Work		Page 1 o	f 8				
 Remaining Level of Actual Level of Effor 			-					
 Actual Level of Ellor Actual Work 		32th Monthly Progre	ess Report Statu	s as on 21Aug2014	Ver.5		1	



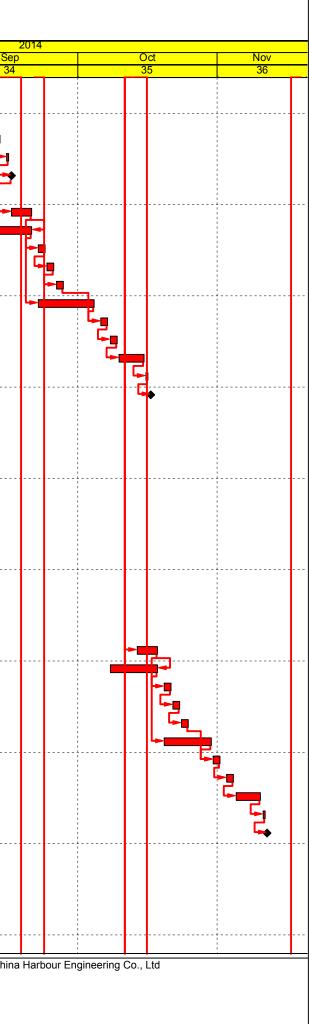
Cong Boundary C	orssing Facilities - Reclamation Works			Data Date :21-Au	ig-14				
D	Activity Name	Original Duration	Start	Finish	Total Float		Aug		
Optimizing Rubble	Mound Seawalls	61	15-Jul-14 A	17-Sep-14	-110		33	┏┲╼╼┲╼┦	Т
Seawall Portion C2	2a at C117 - C113	61	15-Jul-14 A	17-Sep-14	-110				
RFC2a-0070	PC2a at C117 - C113 Rockfill (Cat1), filter layer & geotextile +2.5	5mPD 21,060m3 12	15-Jul-14 A	27-Aug-14	-138				
RFC2a-0080	PC2a at C117 - C113 Rockfill (Cat1) for platform upto +2.5mPD	19,530m3 10	28-Aug-14	06-Sep-14	-138		-		
RFC2a-0090	PC2a at C117 - C113 Rockfill (Cat1 Fill) upto +6.0mPD & geotex	tile laying 7,980m3 4	08-Sep-14	11-Sep-14	-122				
RFC2a-0100	PC2a at C117 - C113 UnderLayer (0mPD 12,600m3	6	12-Sep-14	17-Sep-14	-110				
Conforming Slopin	g Seawalls	218	05-May-14 A	30-Sep-14	926				
Geotextile		140	11-Jul-14 A	03-Sep-14	885				
Seawall Portion E	1 at C068 - C090 23cells	140	11-Jul-14 A	03-Sep-14	885				
SGE1-010	PE1 Geotextile at C090 - C080 11cells	22	11-Jul-14 A	03-Sep-14	885	· · · · · · · · · · · · · · · · · · ·			
SGE1-020	PE1 Geotextile at C079 - C078 2cells	4	18-Jul-14 A	22-Aug-14	5				
SGE1-030	PE1 Geotextile at C077 - C068 10cells	20	13-Jul-14 A	03-Sep-14	885				
Rockfill		149	05-May-14 A	30-Sep-14	62				
Seawall Portion C	2a at C112 - C103 10cells	40	05-May-14 A	05-Sep-14	-128				
RFC2a-000	PC2a Rockfill at C112 - C103 Rockfill 10cells	40	05-May-14 A	05-Sep-14	-128				.
Seawall Portion C	2c at C102 - C091 12cells	48	18-Jun-14 A	08-Sep-14	78				
RFC2c-000	PC2c Rockfill at C102 - C091 12cells	48	18-Jun-14 A	08-Sep-14	78		-		
Seawall Portion E	2 at K052 - C067 16cells	130	14-May-14 A	30-Sep-14	-4				
RFE2-010	PE2 Rockfill at C052 - C062 11cells	44	14-May-14 A	09-Sep-14	-75				-
RFE2-020	PE2 Rockfill at C063 - C067 5cells		10-Sep-14	30-Sep-14	-4				
Seawall Portion E	1 at C068 - C090 23cells		08-Aug-14 A	30-Sep-14	-22				
RFE1-010	PE1 Rockfill at C090 - C080 11cells		08-Aug-14 A	24-Sep-14	-15		> 		-
RFE1-020	PE1 Rockfill at C079 - C078 2cells		10-Sep-14	19-Sep-14	-11				
RFE1-030	PE1 Rockfill at C077 - C068 10cells	50	08-Aug-14 A	30-Sep-14	-21		<u>-</u>		-
RFE1-099	PE1 Completion of Type V1 seawall	0		30-Sep-14	-22				
Reclamation			01-Apr-14 A	27-Nov-14	868				
Ground Treatment			01-Apr-14 A	11-Sep-14	-31				
Geotextile			01-May-14 A	30-Aug-14	-29				
Existing Seabed I			01-May-14 A	30-Aug-14	-29				
Land Portion E2			01-May-14 A	30-Aug-14	-29				
GERE2-010	PE2 Geotextile for sand blanket Northern (seabed below -5mPE		01-May-14 A	30-Aug-14	-29				<u> </u>
Sand Blankets			10-Jun-14 A	04-Sep-14	-29				
Existing Seabed b			10-Jun-14 A	04-Sep-14	-29				
Land Portion E2			10-Jun-14 A	04-Sep-14	-29			╉╌╂╌	
SABRE2-020	Sand Blankets at PE2 71,000m3 5,000m3/day North-East		10-Jun-14 A	04-Sep-14	-29				_
Vertical Band Drain			01-Apr-14 A	11-Sep-14	-29				
VBDE2-020	Northern Part 84,746nrs Vertical Band Drains 61,714nrs by marine plant at PE2 (750nrs/o		01-Apr-14 A 01-Apr-14 A	11-Sep-14	-29			╟┼╌┼═	
				11-Sep-14 27-Nov-14	-66				
Marine Fill Land Portion C1b			11-Aug-14 A 11-Aug-14 A	03-Sep-14	-00				
MFC1b-030	Marina Fill Type A Sand 70% at PC1b part 454 612m3 20 000m								_
Land Portion C2a	Marine Fill Type A Sand 70% at PC1b east 454,612m3 20,000m	· · · · · · · · · · · · · · · · · · ·	11-Aug-14 A 11-Aug-14 A	03-Sep-14 15-Sep-14	-161 -146				7
MFC2a-010	Marine Fill Type A Sand 70% at PC2a 730,287m3 20,000m3/da		11-Aug-14 A 11-Aug-14 A	15-Sep-14 15-Sep-14	-146				
Land Portion E2			04-Sep-14	10-Nov-14	- 146				
MFE2-005	Start PE2 after Marine Fill Type A Sand 100% at PC1b		04-Sep-14 04-Sep-14	10-110-14	-03				
MFE2-010	Marine Fill Type A Sand 70% at PE2 South 516,405m3 20,000m		16-Sep-14	13-Oct-14	-81				۲
MFE2-020	Marine Fill Type A Sand 70% at PE2 South 510,405/1/5 20,000/1 Marine Fill Type A Sand 70% at PE2 North-W 76,867m3 20,000	•	14-Oct-14	17-Oct-14	-59			┟╁──╁╶╬	F
MFE2-030	Marine Fill Type A Sand 70% at PE2 North-M 182,445m3 20,000 Marine Fill Type A Sand 70% at PE2 North-M 182,445m3 20,000		14-Oct-14	27-Oct-14	-59				
22 000							<u> </u>		<u> </u>
 Remaining Level of Actual Level of Eff Actual Work 	of Effort Remaining Work fort Critical Remaining Work Milestone	32th Monthly Prog	Page 2 c ress Report Statu	of 8 Is as on 21Aug2014	Ver.5				



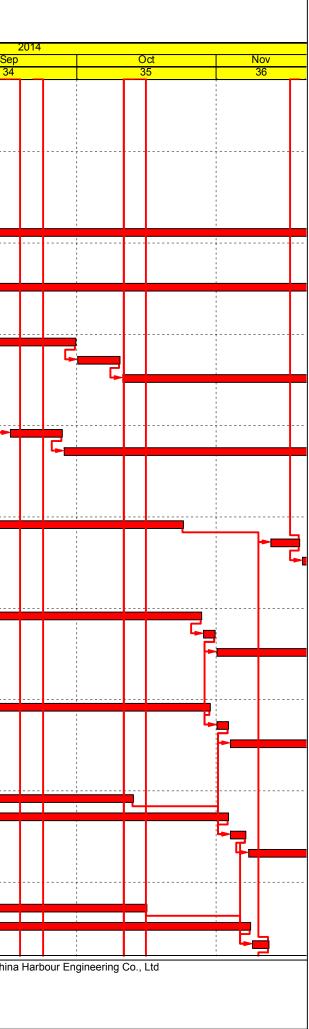
ong Boundary Cor	ssing Facilities - Reclamation Works	Origing	al Start	Data Date :21-Au	g-14 Total					
,		Duration			Float			Aug 33		4
MFE2-040	Marine Fill Type A Sand 70% at PE2 North-E 257,093m3 20,000m3/day	1:	3 28-Oct-14	10-Nov-14	-59			<u></u>		
Land Portion E1		1:	3 14-Nov-14	27-Nov-14	-62					
MFE1-010	Marine Fill Type A Sand 70% at PE1 255,355m3 20,000m3/day	1:	3 14-Nov-14	27-Nov-14	-62					
Vertical Band Drains b	y Land Plant	24	5 20-May-14 A	03-Nov-14	892					
Land Portion B 304,3	28nrs		4 20-May-14 A	30-Aug-14	957					
Main Area 201,530nr	s by Land		4 20-May-14 A	30-Aug-14	957			-		
VBDB0-060	Vertical Band Drains by land plant at PB Main North 15,000nrs 4,000nrs/day (13HP)		4 20-May-14 A	30-Aug-14	957					
Land Portion C2a 111	,740nrs by Land	3	8 25-Jun-14 A	06-Oct-14	-157					
VBDC2a-030	Vertical Band Drains 111,740nrs by land plant at PC2a 3,000nrs/day (11HP)	3	8 25-Jun-14 A	06-Oct-14	-157					
Land Portion E2 Sout		2	8 26-Jun-14 A	03-Nov-14	-71					
VBDE2-012	Vertical Band Drains 84,746nrs by land plant at PE2 South 3,000nrs/day (11HP)	2	8 26-Jun-14 A	03-Nov-14	-71					·
Land Portion E1 12,2			0 10-Jul-14 A	27-Aug-14	62					
VBDE1-10	Vertical Band Drains 12,243nrs by land plant at PE1 (1200nrs/day) (5HP)		0 10-Jul-14 A	27-Aug-14	62	li i				
Earthwork Fill			1 02-Jun-14 A	27-Nov-14	868					-
Land Portion A			1 02-Jun-14 A	31-Aug-14	888					
EFA0-050	Earthwork Fill Type D Sand 100% at PA at C122 - C126 Edge Area 146,046m3 12,000		2 20-Jul-14 A	01-Aug-14 A		· · · · · · · · · · ·		-	··· ···	
EFA0-070	Earthwork Fill Type D Sand 100% at PA at C122 - C126 Edge Area 140,040m3 12,000 Earthwork Fill Type D Sand 100% at PA at C127 - C134 Edge Area 202,097m3 12,000		7 02-Jun-14 A	31-Aug-14	888				╺╺╁╁┝──	
Land Portion B			5 11-Jul-14 A	25-Aug-14	-70		+			
Edge K013 - K027			4 06-Aug-14 A	25-Aug-14	-231					
EFB0-010	Earthwork Fill Type D Sand 100% at PB Edge at K013 - K027 400,000m3 20,000m3/c		4 06-Aug-14 A	25-Aug-14 25-Aug-14	-231					
Edge K028 - K054		-	2 17-Jul-14 A	23-Aug-14 28-Jul-14 A	-201				┈┲┲╴	
EFB0-040	Earthwork Fill Type D Sand 100% at PB Edge at K041 - K048 160,000m3 40,000m3/c		4 21-Jul-14 A	20-Jul-14 A						
EFB0-040		-	4 25-Jul-14 A	24-Jul-14 A 28-Jul-14 A		┝┿╍┨╶╶┊╌╴ │╺┶╸ <mark>╴╴╴</mark>				
	Earthwork Fill Type D Sand 100% at PB Edge at K049 - K054 160,000m3 40,000m3/c	-	8 17-Jul-14 A	20-Jul-14 A 24-Jul-14 A			╬┼╌┥╴		·	
EFB0-055	Earthwork Fill Type D Sand 100% at PB Edge at K049 - K054 80,000m3 10,000m3/da	,								
Main Area	Earth and E'll Tara D. Card (200% of DD Main Card), (200000-0.40,000-0.41)		3 11-Jul-14 A	24-Aug-14	-69	.			<u></u>	
EFB0-020	Earthwork Fill Type D Sand 100% at PB Main South 190000m3 40,000m3/day		5 11-Jul-14 A	22-Aug-14	-250	+				
EFB0-032	Earthwork Fill Type D Sand 100% at PB Main North 135,000m3 40,000m3/day		4 19-Aug-14 A	24-Aug-14	-69			—		╉┊╋
Land Portion C1b			8 20-Nov-14	27-Nov-14	-232					
EFC1b-010	Earthwork Fill Type D Sand 100% at PC1b west 235,109m3 30,000m3/day 1st		8 20-Nov-14	27-Nov-14	-232					
Surcharge			1 05-Feb-14 A	12-Mar-15	763					
Temporary Jettys			8 17-Jun-14 A	12-Nov-14	884					
2nd Temporary Jetty			8 17-Jun-14 A	03-Sep-14	954					
TP20010	Footing at Land - Place Steel Bridge precast footing and anchor block on		5 17-Jun-14 A	21-Aug-14	794					
TP20020	Marine Piling 10nrs		0 04-Aug-14 A	14-Aug-14 A						
TP20030	Installation of Dolphins 2nrs		2 15-Aug-14 A	17-Aug-14 A		 			╶╻┫╢	
TP20040	Installation of main pier		2 18-Aug-14 A	19-Aug-14 A						
TP20050	Installation of steel bridge from Jetty to the land footing		2 20-Aug-14 A	21-Aug-14	-131				╔╋	
TP20070	Installation of conveyor		2 22-Aug-14	23-Aug-14	-131				TH_	
TP20080	Installation of accessory parts		2 25-Aug-14	26-Aug-14	-131					
TP20090	Trial testing		5 27-Aug-14	01-Sep-14	-131					
TP20100	Certification for the System		1 02-Sep-14	02-Sep-14	-131					17
TP20110	Start Operation of unloading public fill at C101		0 03-Sep-14		-162					
3rd Temporary Jetty			2 16-Jul-14 A	16-Sep-14	-175					
TP30010	Footing at Land - Place Steel Bridge precast footing and anchor block on		5 16-Jul-14 A	21-Jul-14 A						
TP30020	Marine Piling 10nrs		0 15-Aug-14 A	26-Aug-14	-141	1 1				
TP30030	Installation of Dolphins 2nrs		2 27-Aug-14	28-Aug-14	-141					- :
TP30040	Installation of main pier		2 29-Aug-14	30-Aug-14	-141					┥╝║
TP30050	Installation of steel bridge from Jetty to the land footing		2 01-Sep-14	02-Sep-14	-141					
Remaining Level of E	Effort Remaining Work		Page 3 c	of 8						
 Actual Level of Effort 	Critical Remaining Work	32th Monthly Pro								



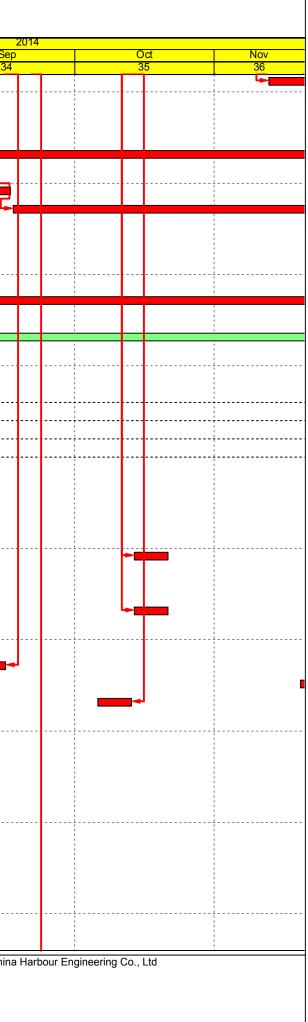
	orssing Facilities - Reclamation Works		Data Date :21-Aug					
D	Activity Name	Original Start Duration	Finish	Total Float		Aug		<u> </u>
TP30060	Assembly of conveyor	10 22-Jul-14 A	01-Aug-14 A			33		—
TP30070	Installation of conveyor	2 03-Sep-14	04-Sep-14	-141				
TP30080	Installation of accessory parts	2 05-Sep-14	06-Sep-14	-141				
TP30090	Trial testing	5 08-Sep-14	13-Sep-14	-141				
TP30100	Certification for the System	1 15-Sep-14	15-Sep-14	-141				
TP30110	Start Operation of unloading public fill at C105	0 16-Sep-14		-175				
4th Temporary Jett		37 10-Sep-14	17-Oct-14	-147				
TP40010	Footing at Land - Place Steel Bridge precast footing and anchor block on	5 16-Sep-14	20-Sep-14	-121				
TP40020	Marine Piling 10nrs	10 10-Sep-14	20-Sep-14	-117		1 1		
TP40030	Installation of Dolphins 2nrs	2 22-Sep-14	23-Sep-14	-117				
TP40040	Installation of main pier	2 24-Sep-14	25-Sep-14	-117				
TP40050	Installation of steel bridge from Jetty to the land footing	2 26-Sep-14	27-Sep-14	-117				
TP40060	Assembly of conveyor	10 22-Sep-14*	04-Oct-14	-121				<mark>-</mark>
TP40070	Installation of conveyor	2 06-Oct-14	07-Oct-14	-121		ł		:
TP40080	Installation of accessory parts	2 08-Oct-14	09-Oct-14	-121		j.		
TP40090	Trial testing	5 10-Oct-14	15-Oct-14	-121				
TP40100	Certification for the System	1 16-Oct-14	16-Oct-14	-121				
TP40110	Start Operation of unloading public fill at C109	0 17-Oct-14		-147				
5th Temporary Jett	· · · · · · · · · · · · · · · · · · ·	35 23-Jul-14 A	27-Aug-14	-157				
TP50010	Footing at Land - Place Steel Bridge precast footing and anchor block on	5 29-Jul-14 A	02-Aug-14 A					
TP50020	Marine Piling 10nrs	10 23-Jul-14 A	02-Aug-14 A			1		
TP50030	Installation of Dolphins 2nrs	2 04-Aug-14 A	05-Aug-14 A			1		
TP50040	Installation of main pier	2 06-Aug-14 A	07-Aug-14 A			/ 		
TP50050	Installation of steel bridge from Jetty to the land footing	2 08-Aug-14 A	09-Aug-14 A					
TP50060	Assembly of conveyor	10 04-Aug-14 A	14-Aug-14 A		- - -			
TP50070	Installation of conveyor	2 15-Aug-14 A	16-Aug-14 A					
TP50080	Installation of accessory parts	2 18-Aug-14 A	19-Aug-14 A					
TP50090	Trial testing	5 20-Aug-14 A	25-Aug-14	-126				
TP50100	Certification for the System	1 26-Aug-14	26-Aug-14	-126		1		
TP50110	Start Operation of unloading public fill at K053	0 27-Aug-14		-157)) 1		
6th Temporary Jett	ty at K057	35 08-Oct-14	12-Nov-14	-86				
TP60010	Footing at Land - Place Steel Bridge precast footing and anchor block on	5 14-Oct-14	18-Oct-14	-71				
TP60020	Marine Piling 10nrs	10 08-Oct-14	18-Oct-14	-67				
TP60030	Installation of Dolphins 2nrs	2 20-Oct-14	21-Oct-14	-67				
TP60040	Installation of main pier	2 22-Oct-14	23-Oct-14	-67				
TP60050	Installation of steel bridge from Jetty to the land footing	2 24-Oct-14	25-Oct-14	-67				
TP60060	Assembly of conveyor	10 20-Oct-14*	30-Oct-14	-71				(
TP60070	Installation of conveyor	2 31-Oct-14	01-Nov-14	-71		,		
TP60080	Installation of accessory parts	2 03-Nov-14	04-Nov-14	-71				
TP60090	Trial testing	5 05-Nov-14	10-Nov-14	-71				
TP60100	Certification for the System	1 11-Nov-14	11-Nov-14	-71				
TP60110	Start Operation of unloading public fill at K053	0 12-Nov-14		-86				
Flat Barges for unio	pading	0 21-Aug-14	21-Aug-14	967		,		
FB10010	Flat Barge for unloading at C132	0 21-Aug-14*		967				
Portion A Surcharge		328 05-Feb-14 A	29-Dec-14	836				
Main Reclamation		328 05-Feb-14 A	29-Dec-14	836				
A1 PCB East		202 05-Feb-14 A	30-Aug-14	957				:
SURA0-120	Surcharge Period at PA PCB East 3.5mths (8-4.5=3.5mths)	105 05-Feb-14 A	30-Aug-14	957	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		
		Page 4 o	-	·	_ _	<u></u>	<u></u>	
Remaining Level of Eff	C C	1 290 7 0						
 Actual Level of Eff 	fort Critical Remaining Work	32th Monthly Progress Report Statu	s as on 21Aug2014 V	er.5				



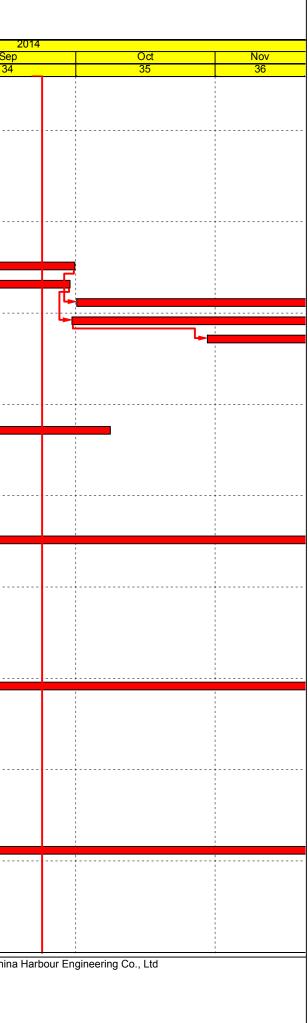
ong Boundarv Co	orssing Facilities - Reclamation Works				Data Date :21-Au	ıg-14				
,	Activity Name		Original Duration	Start	Finish	Total Float		Au	0	Ŧ
SURA0-130	Sand Surcharge Removal at PA PCB East 126,794m3 20,000m	3/day	4	07-Aug-14 A	25-Aug-14	-109				╈
SURA0-140	Completion of PA PCB East	-	0		25-Aug-14	-118				
A1 PCB West			183	24-Feb-14 A	30-Aug-14	957				
SURA0-220	Surcharge Period at PA PCB West 3.5mths (8-4.5=3.5mths)		105	24-Feb-14 A	30-Aug-14	957				
SURA0-230	Sand Surcharge Removal at PA PCB West 126,794m3 20,000m	13/day	7	07-Aug-14 A	25-Aug-14	-109		+		
SURA0-240	Completion of PA PCB West		0		25-Aug-14	-118				
A2			181	02-Jul-14 A	29-Dec-14	-255				
SURA0-410	Surcharge Laying upto +11.5mPD & compaction upto +8.5mPD	on Main Area at PA 285,	29	02-Jul-14 A	31-Aug-14	-232				
SURA0-420	Surcharge Period on Main Area at PA 6mth (8-2-1-1=4mths)		120	01-Sep-14	29-Dec-14	-255				┺
at C127 - C134 for	Power Substation Area		175	20-Jun-14 A	23-Dec-14	-242				
SURA0-310	Sand Surcharge Laying upto +11.5mPD & compaction upto +8.5	mPD on Main Area at P/	4	20-Jun-14 A	25-Aug-14	-220				
SURA0-320	Surcharge Period on Main Area at PACLP substation 6mth (8-2	-1-1=4mths)	120	26-Aug-14	23-Dec-14	-242				-
Edge Areas			161	02-Jul-14 A	09-Dec-14	-183				
at C125 - C119			130	02-Aug-14 A	09-Dec-14	-183				
SUEA0-055	Pause Period on Edge Area at PA 2mths		60	02-Aug-14 A	30-Sep-14	-183	 ۲ ۳-۱			
SUEA0-060	Surcharge Laying & compaction upto 8.5mPD on Edge Area at F	PA 83,452m3 10,000m3/	9	01-Oct-14	10-Oct-14	-170				
SUEA0-070	Surcharge Pause Period on Edge Area at PA 2mths		60	11-Oct-14	09-Dec-14	-183				
at C134 - C126			148	02-Jul-14 A	26-Nov-14	-174				
SUEA0-005	Pause Period on Edge Area at PA 2mths		60	02-Jul-14 A	30-Aug-14	-159				┫
SUEA0-010	Surcharge Laying & compaction upto 8.5mPD on Edge Area at F	PA 107,295m3 10,000m	11	16-Sep-14	27-Sep-14	-162				
SUEA0-020	Surcharge Pause Period on Edge Area at PA 2mths		60	28-Sep-14	26-Nov-14	-174				
and Portion B			202	23-Aug-14	12-Mar-15	-77				
Edge Areas			199	26-Aug-14	12-Mar-15	-77				
at K013 - K027			146	26-Aug-14	18-Jan-15	-157				
SUEB0-005	Surcharge Period 2mths after Fill upto +5.5mPD at PB at K013-			26-Aug-14	24-Oct-14	-231				÷
SUEB0-010	Sand Surcharge Laying up to 8.5mPD on Edge Area at PB at K0	013 - K027 240,000m3 4	6	13-Nov-14	19-Nov-14	-232				
SUEB0-020	Surcharge Period 1st stage on Edge Area at PB at K013 - K027	2mths		20-Nov-14	18-Jan-15	-157				
at K028 - K034			186	27-Aug-14	28-Feb-15	-71				
SUEB0-060	Sand Surcharge Laying up to 8.5mPD on Edge Area at PB at K0			27-Aug-14	29-Aug-14	-228				
SUEB0-070	Surcharge Period 1st stage on Edge Area at PB 2mths (4.5-2.5=	· .		30-Aug-14	28-Oct-14	-249				
SUEB0-080	Sand Surcharge Laying up to top on Edge Area at PB 100,000m	3 40,000m3/day		29-Oct-14	31-Oct-14	-231				
SUEB0-090	Surcharge Period 2nd stage on Edge Area at PB (5-1=4mths)			01-Nov-14	28-Feb-15	-71				
at K035 - K040				30-Aug-14	03-Mar-15	-68	L			
SUEB0-140	Sand Surcharge Laying up to 8.5mPD on Edge Area at PB at K0			30-Aug-14	31-Aug-14	-228				
SUEB0-150	Surcharge Period 1st stage on Edge Area at PB 2mths (4.5-2.5=	,		01-Sep-14	30-Oct-14	-248				1
SUEB0-160	Sand Surcharge Laying up to top on Edge Area at PB 60,000m3	40,000m3/day		01-Nov-14	03-Nov-14	-231				
SUEB0-170	Surcharge Period 2nd stage on Edge Area at PB (5-1=4mths)			04-Nov-14	03-Mar-15	-68				
at K041 - K048	Cond Durcharge Lovier up to 0 FeDD or Film Associat DD 11/	M4 K0E1 400 000-0 4		01-Sep-14	07-Mar-15	-135				
SUEB0-0100	Sand Surcharge Laying up to 8.5mPD on Edge Area at PB at K0	141 - KUST 160,000M3 4		01-Sep-14	04-Sep-14	-228				1
SUEB0-0105	Additonal GI Works by Other Contractors HY/2010/07	-2mtha)		05-Sep-14	13-Oct-14	-185				
SUEB0-0110	Surcharge Period 1st stage on Edge Area at PB 2mths (4.5-2.5=	,		05-Sep-14	03-Nov-14	-250				
SUEB0-0120 SUEB0-0130	Sand Surcharge Laying up to top on Edge Area at PB 160,000m Surcharge Period 2nd stage on Edge Area at PB (5-1=4mths)	13 40,0001113/0ay		04-Nov-14 08-Nov-14	07-Nov-14 07-Mar-15	-231				
at K049 - K054	Survivarye Ferrou zitu staye oli Euge Area at PB (3-1=4mms)			05-Sep-14	12-Mar-15	-135				
SUEB0-190	Sand Surcharge Laying up to 8.5mPD on Edge Area at PB at K0	149 - K054 160 000m3 4		05-Sep-14 05-Sep-14	09-Sep-14	-138				- [[]
SUEB0-190	Additonal GI Works by Other Contractors HY/2010/07			10-Sep-14	16-Oct-14	-184				
SUEB0-200	Surcharge Period 1st stage on Edge Area at PB 2mths (4.5-2.5=	-2mths)		10-Sep-14	08-Nov-14	-250				
SUEB0-210	Sand Surcharge Laying up to top on Edge Area at PB 160,000m			09-Nov-14	12-Nov-14	-232				
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 Remaining Level of Actual Level of Effor Actual Work 	-	32th Mo	onthly Prog	Page 5 of ress Report Status	s as on 21Aug2014	Ver.5				



ong Boundary Co	rssing Facilities - Reclamation Works			Data Date :21-Aug	g-14			
	Activity Name	Original Duration		Finish	Float		Aug	
SUEB0-220	Surcharge Period 2nd stage on Edge Area at PB (5-1=4mths)	120	13-Nov-14	12-Mar-15	-138		33	
Reclamation Areas		145	23-Aug-14	14-Jan-15	-85			
at Main 1			23-Aug-14	24-Dec-14	-64			
SURB0-010	Sand Surcharge Laying upto top on Main Reclamation Area at PB South 110,000m3 40,		23-Aug-14*	26-Aug-14	-228		┝╺┢	
SURB0-020	Surcharge Period on Main Reclamation Area at PB 6mths (7-3=4mths)		27-Aug-14	24-Dec-14	-64		_ _	
at Main 2			10-Sep-14	14-Jan-15	-85			
SURB0-060	Sand Surcharge Laying upto top on Main Reclamation Area at PB K041 - K051 267,000		10-Sep-14	16-Sep-14	-79		<u> </u>	-#-
SURB0-070	Surcharge Period on Main Reclamation Area at PB 6mths (7-3=4mths)		17-Sep-14	14-Jan-15	-85			
eotechnical Instrume			02-Apr-14 A	01-Mar-15	24			
	nentation Works for Seawalls		02-Apr-14 A	01-Mar-15	24			
	s Piezometer, Extensometer and Settlement Marker Cluster inside Cells		02-Apr-14 A	01-Mar-15	24			
SA-1 K048 Portion I			02-Apr-14 A	31-Jan-15	-31			
CTSA1-020	Montioring of SA-1 C048 PB by weekly for subsequent 10mths		02-Apr-14 A	31-Jan-15	-31			
SA-2 C113 Portion (02-Apr-14 A	01-Mar-15	24			
CTSA2-020	Monitoring of SA-2 C113 PC2a by weekly for subsequent 10mths		02-Apr-14A	01-Mar-15	24			
	rs Surface movement marker cluster at top of cell and sloping seawall		08-Aug-14 A	15-Aug-14 A				
CTSE-120	Installation of SE-12 (C069) PE2		08-Aug-14 A	15-Aug-14 A				
CTSE-130	Installation of SE-13 (C071) PE1		08-Aug-14 A	15-Aug-14 A				
CTSE-140	Installation of SE-14 (C077) PE1		08-Aug-14 A	15-Aug-14 A				
CTSE-150	Installation of SE-15 (C079) PE1		08-Aug-14 A	15-Aug-14 A				
CTSE-160	Installation of SE-16 (C082) PE1		08-Aug-14 A	15-Aug-14 A				
CTSE-170	Installation of SE-17 (C087) PE1		08-Aug-14 A	15-Aug-14 A		····		
	nentation Works for Reclamation RA & RB		03-Sep-14	27-Nov-14	-10		-	
RA			03-Sep-14	21-Oct-14	-26			
CTRA-060	Installation of RA 6sets at PC1b		04-Sep-14	12-Sep-14	-126			
CTRA-000	Installation of RA4sets at PC2a		03-Sep-14	11-Sep-14	-97			
CTRA-100	Installation of RA 6sets at PE2		14-Oct-14	21-Oct-14	-26			
RB			04-Sep-14	21-Oct-14	-53			
SMT1-060	Installation of RB at PC1b		04-Sep-14	12-Sep-14	-126			
SMT1-110	Installation of RB at PE2		14-Oct-14	21-Oct-14	-53			
Settlement Marker Ty			04-Sep-14	27-Nov-14	-10			
SMT2-060	M2 - Installation of Settlement Marker Type2 at PC1b		04-Sep-14	12-Sep-14	-126	^L		·····Ł
SMT2-000	M2 - Installation of Settlement Marker Type2 at PC2a		06-Sep-14	15-Sep-14	-96			
SMT2-100	M2 - Installation of Settlement Marker Type2 at PE1		20-Nov-14	27-Nov-14	-10			
SMT2-110	M2 - Installation of Settlement Marker Type2 at PE2		06-Oct-14	13-Oct-14	-16			
rtion D			22-May-14 A	20-Jan-15	814			
Ibmission			21-Aug-14	21-Aug-14	967			
esign Submission			21-Aug-14	21-Aug-14	967			
<u> </u>	I Settlement Assessment for Vertical Seawall w No Dredging		21-Aug-14	21-Aug-14	967			
PD-DGN-02010	Stability Analysis and settlement assessment for vertical seawall with no dredging	0	-	21-Aug-14*	967			
	I Settlement Assessment for Sloping Seawall w No Dredging	-	21-Aug-14	21-Aug-14	967		Í	
PD-DGN-03010	Stability Analysis and Settlement Assessment for Sloping seawall with no dredging	0	-	21-Aug-14*	967			
	ent for Culverts C1 - C4 w No Dredging	-	21-Aug-14	21-Aug-14	967		Í	
PD-DGN-04010	Settlement assessment for box culverts C1 - C4 with no dredging	0	-	21-Aug-14*	967			
	or Culverts C1 - C4 w Precast Method	-	21-Aug-14	21-Aug-14	-74		Í	
PD-DGN-05010	Structural analysis for Box Culverts C1 - C4 with Precast Method	0	-	21-Aug-14*	-74			
	essment & Temporary Diversion (stg2 - for construction of box culvert EC1)		21-Aug-14	21-Aug-14	-74			
PD-DGN-07010	Drainage Impact Assessment and Temporary Diversion (stage 2 - for construction of box	0		21-Aug-14*	-74		•	
			Page 6 o	-		:		<u> </u>
Remaining Level ofActual Level of Effor	critical Romaining Work	Monthly Prov	-	s as on 21Aug2014 V	lor 5			



Kong Boundary C	orssing Facilities - Reclamation Works			Data Date :21-Au	-				
ID	Activity Name	Original Duration	Start	Finish	Total Float		Aug		
Settlement Assessn	nent for Box Culvert EC1	0	21-Aug-14	21-Aug-14	-74		33		4
PD-DGN-08010	Settlement Assessment for Box culvert EC1 Submission 1st	0	-	21-Aug-14*	-74				- - -
	for Box Culvert EC1 w Precast & Cast in-situ Method		21-Aug-14	21-Aug-14	-74			ľ	
PD-DGN-09010	Structural Analysis for Box culvert EC1 with Precast and Cast in-situ Method	0	-	21 Aug 14*	-74				
	rangement & RC drawings for C1 to C4 w Precast Method		21-Aug-14	21-Aug-14	-74			ľ	
PD-DGN-10010	Detailed General Arrangement and RC drawings for Box culverts C1 to C4 with Precast	0		21-Aug-14*	-74				- - -
	rangement & RC drawings for EC1 w Precast & Cast insitu Methods		21-Aug-14	21-Aug-14 21-Aug-14	967			Ť	-
PD-DGN-11010	Detailed General Arrangement and RC drawings for Box Culverts EC1 with Precast and	0	-	21-Aug-14 21-Aug-14*	967				
Precast Yard for Seaw			02-Jul-14 A	21-Aug-14 28-Dec-14	-123				
Culverts			02-Jul-14 A	28-Dec-14	-123				
PD-PY-0210	Precast C1 6nrs		02-Jul-14 A	30-Sep-14	-125				1
PD-PY-0220	Precast EC1 10nrs		02-Jul-14 A 01-Aug-14 A	29-Sep-14	-140				1
PD-PY-0220 PD-PY-0230	Precast C2 5nrs		01-Aug-14 A 01-Oct-14	29-Sep-14 29-Nov-14	-123				
PD-PY-0240	Precast C3 5nrs		30-Sep-14	28-Nov-14	-123				1
PD-PY-0250	Precast C4 5nrs		30-Oct-14	28-Dec-14	-123				
Site Construction			22-May-14 A	20-Jan-15 08-Oct-14	814				
Seawall Construction			10-Jul-14 A		-31				
Access at Portion D			10-Jul-14 A	08-Oct-14	-31				
WaterMain Constru			10-Jul-14 A	08-Oct-14	-31				1
A30020	PD - Temp Watermain Construction along Access		10-Jul-14 A	08-Oct-14*	-31	1		-	1
Surcharge			22-May-14 A	20-Jan-15	814				-
West1 Portion			22-May-14 A	18-Dec-14	847				1
A1640	PD West1 - Surcharge Laying upto 8.5mPD 42,843m3 5,000m3/day outstanding		22-May-14 A	28-Aug-14	890				
A1650	PD West1 - Surcharge compaction upto 8.5mPD		22-May-14 A	02-Sep-14	954				
A1658	PD West1 - Surcharge Laying +11.5mPD 42,843m3 5,000m3/day		23-Jul-14 A	31-Jul-14 A					
A1660	PD West1 - Surcharge Period 4mths		21-Aug-14	18-Dec-14	-210		-1		
West2 Portion			16-Jul-14 A	18-Dec-14	847				
A2194	PD West2 - Allow to surcharge upto 8.5mPD by result of Vent Shear Test	0		21-Aug-14	795				
A2200	PD West2 - Surcharge Laying upto +8.5mPD 42,843m3 5,000m3/day outstanding		16-Jul-14 A	22-Jul-14 A		•••••			-
A2210	PD West2 - Surcharge compaction upto 8.5mPD		17-Jul-14 A	23-Jul-14 A					
A2212	PD West2 - Vent Shear Test after +8.5mPD 6nrs		24-Jul-14 A	06-Aug-14 A			_		-
A2216	PD West2 - Surcharge Pause Period 0mths		07-Aug-14 A	07-Aug-14 A		-			
A2218	PD West2 - Surcharge Laying +11.5mPD 42,843m3 5,000m3/day		09-Aug-14 A	18-Aug-14 A			· • • • • • • • • • • • • • • • • • • •		
A2220	PD West2 - Surcharge Period 4mths		21-Aug-14	18-Dec-14	-182		-		-
East1 Portion			16-Jul-14 A	03-Jan-15	-164				
A1672	PD East1 - Vent Shear Test 6nrs		16-Jul-14 A	29-Jul-14 A		<u></u>			1
A1673	PD East1 - Allow to surcharge upto 8.5mPD by result of Vent Shear Test	0		30-Jul-14 A					
A1675	PD East1 - Surcharge Laying upto +8.5mPD 42,843m3 5,000m3/day outstanding		01-Aug-14 A	08-Aug-14 A			—		
A1680	PD East1 - Surcharge Compaction upto 8.5mPD		02-Aug-14 A	10-Aug-14 A					
A1682	PD East1 - Vent Shear Test after +8.5mPD 6nrs		11-Aug-14 A	25-Aug-14	-130		-		-
A1686	PD East1 - Surcharge Pause Period 0mths		26-Aug-14	26-Aug-14	-161			1-	
A1688	PD East1 - Surcharge Laying +11.5mPD 42,843m3 5,000m3/day		29-Aug-14	05-Sep-14	-152				
A1690	PD East1 - Surcharge Period 4mths		06-Sep-14	03-Jan-15	-164				_
East2 Portion			30-Jul-14 A	20-Jan-15	-154				
A2234	PD East2 - Vent Shear Test 6nrs	12	30-Jul-14 A	12-Aug-14 A					
A2236	PD East2 - Allow to surcharge upto 8.5 by result of Vent Shear Test	0		13-Aug-14 A				I L	
A2240	PD East2 - Surcharge Laying upto +8.5mpD 42843m3 5,000m3/day	7	18-Aug-14 A	28-Aug-14	-152		۲ ۰ ۲	بست ر	
A2250	PD East2 - Surcharge Compaction upto 8.5mPD	9	21-Aug-14	29-Aug-14	-154		L		4
Remaining Level of	of Effort Remaining Work		Page 7 o	f 8					
Actual Level of Eff	ort	Monthly Prog	ress Report Statu	s as on 21Aug2014	Ver.5				



ntract No. HY/2010/0	02 Hong Kong - Zhuhai - Macao Bridge		EMandA	Quaterly Repo	ort Programme				
ong Kong Boundary	Corssing Facilities - Reclamation Works			Data Date :21-Au	ıg-14				
ivity ID	Activity Name	Original Duration	Start	Finish	Total Float	Aug	2014 Sep	Oct	Nov
						33	34	35	36
A2252	PD East2 - Vent Shear Test after +8.5mPD 6nrs	12	30-Aug-14	13-Sep-14	-124	-			
A2256	PD East2 - Surcharge Pause Period 0mths	0	14-Sep-14	14-Sep-14	-154				
A2258	PD East2 - Surcharge Laying +11.5mPD 42,843m3 5,000m3/day	8	14-Sep-14	22-Sep-14	-143				
A2260	PD East2 - Surcharge Period 4mths	120	23-Sep-14	20-Jan-15	-154				
Box Culvert Constr	ruction	0	21-Aug-14	21-Aug-14	-9				
Extension Culvert	EC1	0	21-Aug-14	21-Aug-14	-9				
EC1-0005	The Area of EC1 handback by HY/2011/03	0	21-Aug-14*		-9	•			
Works Area WA2	2 (Tung Chung)	1431	21-May-12 A	27-Mar-17	-23				
Zone A		1431	21-May-12 A	27-Mar-17	-23				
A1880	Maintenance of Engineer's Accommodation	1431	21-May-12 A	27-Mar-17	-23				
Works Area TKO) Fill Bank	1251	25-Sep-12 A	29-Dec-16	-24				
WA-TKO-1040	Operate and Maintain Public Fill Sorting Facilities in Zone A, B1 & B2	1251	25-Sep-12 A	29-Dec-16	-24				
WA-TKO-1050	Maintainance of Site in Zone C	568	25-Sep-12 A	20-Sep-14	-24				

Remaining Level of Effort Remaining Work	Page 8 of 8	China H
Actual Level of Effort Critical Remaining Work	32th Monthly Progress Report Status as on 21Aug2014 Ver.5	
Actual Work Milestone		

ina Harbour Engineering Co., Ltd

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		

Monthly EM&A Report for August 2014

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

Monthly EM&A Report for August 2014

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		

Monthly EM&A Report for August 2014

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

Monthly EM&A Report for August 2014

EIA Ref.	EM&A Log	Environmental Mitigation Measures	Location	Implementation
	Ref			Status
		All receiving hoppers should be enclosed on three sides up to 3m above unloading point;		
		All conveyor transfer points should be totally enclosed;		
		• All access and route roads within the premises should be paved and wetted; and		
		Vehicle cleaning facilities should be provided and used by all concrete trucks		
		before leaving the premises to wash off any dust on the wheels and/or body.		
S5.5.2.7 of	A6	The following mitigation measures should be adopted to prevent	All construction sites	N/A
HKBCFEIA		fugitive dust emissions at barging point:		(Construction in
		All road surface within the barging facilities will be paved;		process)
		Dust enclosures will be provided for the loading ramp;		
		Vehicles will be required to pass through designated wheels wash facilities; and		
		Continuous water spray at the loading points.		
Construction	Noise (Air 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		

Monthly EM&A Report for August 2014

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

Monthly EM&A Report for August 2014

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 Material		V
HKBCFEIA		The following mitigation measures should be implemented in handling the waste:		
and S12.6 of		Maintain temporary stockpiles and reuse excavated fill material for backfilling and		
TMCLKLEIA		reinstatement;		
		Carry out on-site sorting;	All construction sites	
		Make provisions in the Contract documents to allow and promote the use of	All construction sites	
		recycled aggregates where appropriate;		
		Adopt 'Selective Demolition' technique to demolish the existing structures and		
		facilities with a view to recovering broken concrete effectively for recycling purpose,		
		where possible;		

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

Monthly EM&A Report for August 2014

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

Monthly EM&A Report for August 2014

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		

Monthly EM&A Report for August 2014

EIA Ref.	EM&A Log	Environmental Mitigation Measures	Location	Implementation
	Ref			Status
Water Quality	(Construction	 considered by the Contractor. In addition, waste separation facilities for paper, aluminum cans, plastic bottles etc., should be provided. Training should be provided to workers about the concepts of site cleanliness and appropriate waste management procedure, including reduction, reuse and recycling of wastes. Sufficient dustbins shall be provided for storage of waste as required under the Public Cleansing and Prevention of Nuisances By-laws. In addition, general refuse shall be cleared daily and shall be disposed of to the nearest licensed landfill or refuse transfer station. All waste containers shall be in a secure area on hardstanding. 		
water wuality			During filling	V
	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:		

Monthly EM&A Report for August 2014

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

Monthly EM&A Report for August 2014

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

Monthly EM&A Report for August 2014

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

Monthly EM&A Report for August 2014

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

Monthly EM&A Report for August 2014

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

Monthly EM&A Report for August 2014

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

Monthly EM&A Report for August 2014

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

Monthly EM&A Report for August 2014

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

Legend: V = implemented;

x = not implemented;

N/A = not applicable

Appendix D - Summary of Action and Limit Levels

Location	Action Level	Limit Level
AMS2	374 μg/m ³	500 μg/m ³
AMS3A*	368 μg/m ³	500 μg/m ³
AMS6	360 μg/m ³	500 μg/m ³
AMS7	370 μg/m ³	500 μg/m ³

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

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

Table 2 – Action and	Limit Levels for 24-hour TSP

Location	Action Level	Limit Level
AMS2	176 μg/m³	260 μg/m ³
AMS3A*	167 μg/m³	260 μg/m ³
AMS6	173 μg/m³	260 μg/m ³
AMS7	183 μg/m ³	260 μg/m ³

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

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

Location	Action Level	Limit Level
NMS2	When one documented	75 dB(A)
	complaint, related to 0700 -	
	1900 hours on normal	
NMS3A	weekdays, is received	*65 / 70 dB(A)
	from any one of the sensitive	
	receivers	

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

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

Table 4 – Action and Limit Levels for Water Quality

Notes:

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

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

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

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

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

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

AECOM Asia Company Limited <u>TSP High Volume Sampler</u> <u>Field Calibration Report</u>

Station Tung Chung De		elopment Pier (A	MS2) Operator:	Cheung Hung Wai	
Cal. Date:	5-Aug-14 Next Due Date:		5-Oct-14		
Equipment No.:	A-001-78T	2	Serial No.	3383	
		,	Ambient Condition		
Temperat	ure, Ta (K)	303	Pressure, Pa (mmHg)	752.2	

Orifice Transfer Standard Information							
Serial No:	Serial No: 988 Slope, mc 1.97518 Intercept, bc -0.01001						
Last Calibration Date:	Last Calibration Date: 28-May-14 mc x Qstd + bc = [DH x (Pa/760) x (298/Ta)] ^{1/2}						
Next Calibration Date:	419						

Resistance Plate No.		Calibration o	of TSP Sampler			
		Orfice		HVS Flow Recorder		
	DH (orifice), in. of water	[DH x (Pa/760) x (298/Ta)] ^{1/2}	Qstd (m ³ /min) X · axis	Flow Recorder Reading (CFM)	Continuous Flow Recorde Reading IC (CFM) Y-axis	
18	8.8	2.93	1.49	48.0	47.36	
13	7.4	2.68	1.36	44.0	43.41	
10	5.8	2.38	1.21	38.0	37.49	
7	4.0	1.97	1.00	31.0	30.58	
5	2.8	1.65	0.84	24.0	23.68	
		check and recalibrate.				
Slope , mw = Correlation Coeffi		- 0.9983	Intercept, bw = 		· · · · ·	
			Calculation			
		ve, take Qstd = 1.30m ³ /min				
From the Regressie	on Equation, the	"Y" value according to				
		mw x Qstd + bw = IC	x [/Pa/760) x (298/1	[a)] ^{1/2}		
				· · · /]		
	nt; IC = (mw x Q	externa a second a se			41.41	

AECOM Asia Company Limited <u>TSP High Volume Sampler</u> <u>Field Calibration Report</u>

Station Site Boundary of S		Site Office (WA2) (AMS3B) Operator:	Leung Yiu Ting	
Cal. Date:	30-Jul-14		Next Due Date:	30-Sep-14	
Equipment No.:	A-001-79T		Serial No.	3384	
		,	Ambient Condition		
Temperature, Ta (K)		303	Pressure, Pa (mmHg)	754.3	
L					

Orifice Transfer Standard Information							
Serial No:	Serial No: 988 Slope, mc 1.97518 Intercept, bc -0.01001						
Last Calibration Date:	Last Calibration Date: 28-May-14 mc x Qstd + bc = [DH x (Pa/760) x (298/Ta)] ^{1/2}						
Next Calibration Date:							

		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)] ^{1/2}	Qstd (m ³ /min) X - axis	Flow Recorder Reading (CFM)	Continuous Flow Recorde Reading IC (CFM) Y-axis	
18	18 8.8 2.93 1.49		50.0	49.40		
13	7.0	2.61	1.33	42.0	41.50	
10	5.1	2.23	1.13	34.0	33.59	
7	4.1	2.00	1.02	29.0	28.65	
5	2.5	1.56	0.80	19.0	18.77	
			Oslaulation			
			Oslavistica			
		Set Point	Calculation			
From the TSP Fi	eld Calibration Cur	Set Point ve, take Qstd = 1.30m ³ /min	Calculation			
			Calculation			
		ve, take Qstd = 1.30m ³ /min		[a)] ^{1/2}		
From the Regres	sion Equation, the	ve, take Qstd = 1.30m ³ /min "Y" value according to	x [(Pa/760) x (298/1	[a)] ^{1/2}	41.29	

QC Reviewer: WS CHAN

Signature:

Date: 3017/14

D:\HVS Calibration Certificate (Existing)\6

AECOM Asia Company Limited <u>TSP High Volume Sampler</u> <u>Field Calibration Report</u>

Station	Hong Kong SkyCi	ty Marriott Hotel (AMS7) Operator:	Cheung Hung Wai	
Cal. Date:	5-Aug-14 Next Due Date: A-001-80T Serial No.		5-Oct-14		
Equipment No.:			Serial No.	3385	
		1	Ambient Condition		
Temperature, Ta (K)		303	Pressure, Pa (mmHg)	752.2	

Orifice Transfer Standard Information								
Serial No: 988 Slope, mc 1.97518 Intercept, bc -								
Last Calibration Date:	28-May-14	mc x Qstd + bc = [DH x (Pa/760) x (298/Ta)] ^{1/2}						
Next Calibration Date:	28-May-15	Qstd = {[DH x (Pa/760) x (298/Ta)] ^{1/2} -bc} / mc						

		Calibration of	of TSP Sampler			
		Orfice	HVS Flow Recorder			
Resistance Plate No.	DH (orifice), in. of water	[DH x (Pa/760) x (298/Ta)] ^{1/2}	Qstd (m ³ /min) X · axis	Flow Recorder Reading (CFM)	Continuous Flow Recorder Reading IC (CFM) Y-axis	
18	7.6	2.72	1.38	47.0	46.37	
13	6.5	2.52	1.28	41.0	40.45	
10	5.0	2.21	1.12	33.0	32.56	
7	4.0	1.97	1.00	28.0	27.63	
5	3.1	1.74	0.88	21.0	20.72	
		Sat Point	Calculation			
		Set Point	Calculation			
From the TSP Fie	eld Calibration Cur	ve, take Qstd = 1.30m ³ /min				
From the Regres	sion Equation, the	"Y" value according to				
		mw x Qstd + bw = IC	x [(Pa/760) x (298/	Γa)] ^{1/2}		
Therefore, Set Po	oint; IC = (mw x Q	std + bw) x [(760 / Pa) x (Ta / 29	98)] ^{1/2} =		42.48	
	,		65			
Remarks:						

QC Reviewer: KS CHAN

Signature:

Date: 618/14

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 - Ma Operator		Rootsmeter Orifice I.I		438320 0988	Ta (K) - Pa (mm) -	296 - 751.84
PLATE OR Run # 1 2 3 4 5	VOLUME START (m3) NA NA NA NA NA	VOLUME STOP (m3) NA NA NA NA NA NA	DIFF VOLUME (m3) 1.00 1.00 1.00 1.00 1.00	DIFF TIME (min) 1.3790 0.9720 0.8690 0.8260 0.6830	METER DIFF Hg (mm) 3.2 6.4 7.9 8.8 12.8	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)
0.9917 0.9875 0.9854 0.9843 0.9790	0.7191 1.0159 1.1339 1.1916 1.4333	1.4113 1.9959 2.2315 2.3405 2.8227	0.9957 0.9915 0.9894 0.9883 0.9829	0.7221 1.0201 1.1385 1.1965 1.4392	$\begin{array}{c} 0.8874 \\ 1.2549 \\ 1.4030 \\ 1.4715 \\ 1.7747 \end{array}$
Qstd slog intercep coefficie	t (b) = ent (r) =	1.97518 -0.01001 0.99998 Pa/760) (298/'	Qa slop intercep coeffici	t (b) =	1.23683 -0.00630 0.99998

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

Туре:	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	Rupprecht & Patashnick TEOM [®]						
Venue:	Cyberport	(Pui Ying Secondary Sch	ool)		_			
Model No.:	Series 140	DOAB						
Serial No:	Control:	140AB219899803			_			
	Sensor:	1200C143659803	K _o :	12500	_			
Last Calibration Date*:	10 May 2014							

*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 ¹ (mg/m ³)	Total Count ²	Count/ Minute ³
					Temp (°C)	R.H. (%)	Y-axis		X-axis
1	11-05-14	09:30	-	10:30	26.7	75	0.04434	1775	29.58
2	11-05-14	10:30	-	11:30	26.7	75	0.04716	1880	31.33
3	11-05-14	11:30	-	12:30	26.8	76	0.04927	1964	32.73
4	11-05-14	12:30	-	13:30	26.8	75	0.05035	2015	33.58

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:
 0.9982

 Validity of Calibration Record:
 11 May 2015

Remarks:

QC Reviewer: YW Fung	Signature:	4/	Date:	12 May 2014

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

Operator:

Mike Shek (MSKM)

Standard Equipment

Equipment:	Rupprecht & Patashnick TEOM [®]						
Venue:	Cyberport	Pui Ying Secondary Scho	ol)				
Model No.:	Series 140	0AB					
Serial No:	Control:	140AB219899803					
	Sensor:	1200C143659803	K _o :	12500			
Last Calibration Date*:	10 May 20	14	-				

*Remarks: Recommended interval for hardware calibration is 1 year

Calibration Result

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

702	CPM
702	CPM

Hour	Date	Time		Amb	pient	Concentration ¹	Total	Count/	
	(dd-mm-yy)				Conc	lition	(mg/m³)	Count ²	Minute ³
					Temp	R.H.	Y-axis		X-axis
					(°C)	(%)			
1	11-05-14	09:45	-	10:45	26.7	75	0.04568	1713	28.50
2	11-05-14	10:45	-	11:45	26.7	75	0.04857	1819	30.32
3	11-05-14	11:45	-	12:45	26.8	76	0.05063	1903	31.72
4	11-05-14	12:45	-	13:45	26.8	75	0.05116	1922	32.03

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)

Slope (K-factor):	0.0016	
Correlation coefficient:	0.9984	

Validity of Calibration Record: <u>11 May 2015</u>

Re	m	ar	KS:	:
		-		-

QC Reviewer:	YW Fung	Signature:	4	Date:	12 May 2014

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

Mike Shek (MSKM)

Standard Equipment

Operator:

Equipment:	Rupprecht & Patashnick TEOM [®]					
Venue:	Cyberport (Pui Ying Secondary School)					
Model No.:						
Serial No:	Control:	140AB219899803				
	Sensor:	1200C143659803	K _o :	12500		
Last Calibration Date*:	10 May 20	14				

*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)	1	Time	;		bient dition	Concentration ¹ (mg/m ³)	Total Count ²	Count/ Minute ³
					Temp (°C)	R.H. (%)	Y-axis		X-axis
1	11-05-14	13:30	-	14:30	26.8	75	0.05034	2017	33.62
2	11-05-14	14:30	-	15:30	26.9	76	0.05211	2084	34.73
3	11-05-14	15:30	-	16:30	26.9	76	0.05163	2066	34.43
4	11-05-14	16:30	-	17:30	26.9	76	0.05272	2113	35.22

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:	0.9965	
Validity of Calibration Record:	11 May 2015	

Remarks:					
			1		
QC Reviewer:	YW Fung	Signature:		Date:	12 May 2014

Laser Dust Monitor
SIBATA
LD-3
A.005.10a
753 CPM

Operator:

Mike Shek (MSKM)

Standard Equipment

Equipment:	Rupprecht & Patashnick TEOM [®]					
Venue:	Cyberport (Pui Ying Secondary School)					
Model No.:	Series 140	OAB				
Serial No:	Control: 140AB219899803					
	Sensor:	1200C143659803	K _o :	12500		
Last Calibration Date*:	10 May 2014					

*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	9		bient dition	Concentration ¹ (mg/m ³)	Total Count ²	Count/ Minute ³
					Temp	R.H.	Y-axis		X-axis
					(°C)	(%)			
1	11-05-14	13:45	-	14:45	26.8	75	0.04984	1996	33.27
2	11-05-14	14:45	-	15:45	26.9	76	0.05196	2077	34.62
3	11-05-14	15:45	-	16:45	26.9	76	0.05141	2055	34.25
4	11-05-14	16:45	-	17:45	26.9	76	0.05263	2109	35.15

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:	11 May 2015	

Remarks:

QC Reviewer: YW Fung	Signature:	4/	Date:	12 May 2014

Laser Dust Monitor
SIBATA
LD-3
A.005.11a
799 CPM

Operator:

Mike Shek (MSKM)

Standard Equipment

Equipment:	Rupprecht	& Patashnick TEOM [®]				
Venue:	Cyberport (Pui Ying Secondary School)					
Model No.:	Series 140	DOAB				
Serial No:	Control:	140AB219899803				
	Sensor:	1200C143659803	K _o :	12500		
Last Calibration Date*:	10 May 20	14				

*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				Concentration ¹ (mg/m ³)	Total Count ²	Count/ Minute ³	
					Temp (°C)	R.H. (%)	Y-axis		X-axis
1	18-05-14	09:00	-	10:00	28.3	77	0.04527	1815	30.25
2	18-05-14	10:00	-	11:00	28.3	77	0.04811	1923	32.05
3	18-05-14	11:00	-	12:00	28.3	77	0.05103	2041	34.02
4	18-05-14	12:00	-	13:00	28.4	77	0.05366	2157	35.95

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:	0.9987	
Validity of Calibration Record:	18 May 2015	
Validity of Calibration Record:	18 May 2015	

Remarks:

QC Reviewer:	YW Fung	Signature:	4/	Date:	19 May 2014

Type:	Laser Dust Monitor
Manufacturer/Brand:	SIBATA
Model No.:	LD-3B
Equipment No.:	A.005.13a
Sensitivity Adjustment Scale Setting:	643 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	K _o :	12500	
Last Calibration Date*:	10 May 20	14			

*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				bient dition	Concentration ¹ (mg/m ³)	Total Count ²	Count/ Minute ³
	(Temp (°C)	R.H. (%)	Y-axis		X-axis
1	18-05-14	09:30	-	10:30	28.3	77	0.04614	1846	30.77
2	18-05-14	10:30	-	11:30	28.3	77	0.04823	1934	32.23
3	18-05-14	11:30	-	12:30	28.3	77	0.05152	2053	34.22
4	18-05-14	12:30	-	13:30	28.4	77	0.05391	2162	36.03

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:	18 May 2015		

Remarks:					
		eren Marco de la div	/		-
QC Reviewer:	YW Fung	Signature:		Date:	19 May 2014

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 Scho	ool)		
Model No.:	Series 140	DOAB			
Serial No:	Control:	140AB219899803			
	Sensor:	1200C143659803	K _o :	12500	
Last Calibration Date*:	10 May 20	14			

*Remarks: Recommended interval for hardware calibration is 1 year

Calibration Result

Sensitivity Adjustment Scale Setting (Before Calibration): Sensitivity Adjustment Scale Setting (After Calibration): 786 CPM 786 CPM

Hour	Date (dd-mm-yy)	-	Time	Э	1911 LOW ADDRESS	dition	Concentration ¹ (mg/m ³)	Total Count ²	Count/ Minute ³
					Temp (°C)	R.H. (%)	Y-axis		X-axis
1	18-05-14	12:45	-	13:45	28.4	77	0.05027	2158	35.97
2	18-05-14	13:45	-	14:45	28.5	76	0.05161	2211	36.85
3	18-05-14	14:45	-	15:45	28.5	76	0.05235	2247	37.45
4	18-05-14	15:45	-	16:45	28.4	77	0.05203	2233	37.22

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):	0.0014	
Correlation coefficient:	0.9969	
Validity of Calibration Record:	18 May 2015	

Remarks:	1				
QC Reviewer:	YW Fung	Signature:	4	_ Date:	19 May 2014



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

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

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



CERTIFICATE OF CALIBRATION

Certificate No.:	13CA1107 01-02		Page:	1 c	of 2
Item tested					
Description:	Acoustical Calibrat	or (Class 1)			
Manufacturer:	Rion Co., Ltd.				
Type/Model No.:	NC-73				
Serial/Equipment No.:	10307223 / N.004.0	80			
Adaptors used:	-				
Item submitted by					
Curstomer:	AECOM ASIA CO.,	LTD.			
Address of Customer:	-				
Request No.:	-				
Date of receipt:	07-Nov-2013				
Date of test:	08-Nov-2013				
Reference equipment	used in the calib	ration			
Description:	Model:	Serial No.	Expiry Date:	Tra	ceable to:
Lab standard microphone	B&K 4180	2341427	17-Apr-2014	SC	L
Preamplifier	B&K 2673	2239857	16-Apr-2014	CE	PREI
Measuring amplifier	B&K 2610	2346941	24-Apr-2014		PREI
Signal generator	DS 360	61227	15-Apr-2014		PREI
Digital multi-meter	34401A	US36087050	10-Dec-2013		PREI
Audio analyzer	8903B	GB41300350	15-Apr-2014		PREI
Universal counter	53132A	MY40003662	15-Apr-2014	CE	PREI
Ambient conditions					
Temperature:	22 ± 1 °C				
Relative humidity:	60 ± 10 %				
Air pressure:	00 ± 10 %				

Test specifications

- 1, 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.

Approved Signatory:

Huang Jian/Min/Feng Jun Qi

Date: 11-Nov-2013



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

© Soils & Materials Engineering Co., Ltd.

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

Company Chop:

Hong Kong Accreditation Service (HKAS) has accredited this laboratory under the Hong Kong Laboratory Accreditation Scheme (HOKLAS) for specific laboratory 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.



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

G/F., 9/F., 12/F., 13/F. & 20/F., Leader Centre, 37 Wong Chuk Hang Road, Aberdeen, Hong Kong. 香港黃竹坑道37號利達中心地下,9樓,12樓,13樓及20樓 E-mail; smec@cigismec.com Website: www.cigismec.com Tel : (852) 2873 6860 Fax : (852) 2555 7533



CERTIFICATE OF CALIBRATION

Certificate No.:	13CA1107 01-01			Page	1 (of 2
Item tested						
Description:	Sound Level Meter	(Type 1)	,	Microphone		
Manufacturer:	Rion Co., Ltd.			Rion Co., Ltd.		
Type/Model No.:	NL-31			UC-53A		
Serial/Equipment No.:	00320528 / N.007.0	3A	,	90565		
Adaptors used:	-		,	2 80 0 0 2		
tem submitted by						
Customer Name:	AECOM ASIA CO.,	LTD.				
Address of Customer:	-					
Request No.:	-					
Date of receipt:	07-Nov-2013					
Date of test:	08-Nov-2013	ation				
Reference equipment	used in the calibra					
Reference equipment					T	
Description:	Model:	Serial No.		Expiry Date:		
Description: Multi function sound calibrator	Model: B&K 4226	Serial No. 2288444		22-Jun-2014	CI	GISMEC
Description: Multi function sound calibrator Signal generator	Model: B&K 4226 DS 360	Serial No. 2288444 33873		22-Jun-2014 15-Apr-2014	CIC	GISMEC EPREI
Description: Multi function sound calibrator Signal generator	Model: B&K 4226	Serial No. 2288444		22-Jun-2014	CIC	GISMEC
Reference equipment Description: Multi function sound calibrator Signal generator Signal generator Ambient conditions	Model: B&K 4226 DS 360	Serial No. 2288444 33873		22-Jun-2014 15-Apr-2014	CIC	GISMEC EPREI
Description: Multi function sound calibrator Signal generator Signal generator Ambient conditions	Model: B&K 4226 DS 360	Serial No. 2288444 33873		22-Jun-2014 15-Apr-2014	CIC	GISMEC PREI
Description: Multi function sound calibrator Signal generator Signal generator	Model: B&K 4226 DS 360 DS 360	Serial No. 2288444 33873		22-Jun-2014 15-Apr-2014	CIC	PREI

Test specifications

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

Test results

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

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

Actual Measurement data are documented on worksheets.

Approved Signatory:

Huang Jian Min/Feng Jun Qi

11-Nov-2013 Company Chop:



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

© Soils & Materials Engineering Co., Ltd.

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

Hong Kong Accreditation Service (HKAS) has accredited this laboratory under the Hong Kong Laboratory Accreditation Scheme (HOKLAS) for specific laboratory 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 SDIVS & MATERIALS ENGINEERING CO., LTD.

G F., 9/F., 12/F., 13/F. & 20/F., Leader Centre, 37 Wong Chuk Hang Road, Aberdeen, Hong Kong. 香华巷 黄竹 坑 道 3 7 號 利 達 中 心 地 下 , 9 樓 , 1 2 樓 , 1 3 樓 及 2 0 樓 E-mail: smec@cigismec.com Website: www.cigismec.com

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



CERTIFICATE OF CALIBRATION

Certificate No.:	14CA0305 06-01			Page	1	of	2
Item tested							
Description:	Sound Level Meter	(Type 1)		Microphone			
Manufacturer:	B&K		,	B&K			
Type/Model No.:	2238	009.04		4188			
Serial/Equipment No .:	2285692	009,0T	1	2250420			
Adaptors used:			,	-			
Item submitted by				· · · · ·			
Customer Name:	AECOM ASIA CO.	LTD.					
Address of Customer:	c -						
Request No.:	2						
Date of receipt:	05-Mar-2014						
Date of test:	07-Mar-2014						
Reference equipment	used in the calibr	ation					
Description:	Model:	Serial No.		Expiry Date:		Traceat	ole to:
Multi function sound calibrator	B&K 4226	2288444		22-Jun-2014		CIGISME	C
Signal generator	DS 360	33873		15-Apr-2014		CEPREI	
Signal generator	DS 360	61227		15-Apr-2014		CEPREI	
Ambient conditions							
Temperature:	22 ± 1 °C						
Relative humidity:	60 ± 10 %						
Air pressure:	1000 ± 10 hPa						
Test specifications			8				

- 1, The Sound Level Meter has been calibrated in accordance with the requirements as specified in BS 7580: Part 1: 1997 and the lab calibration procedure SMTP004-CA-152.
- 2. The electrical tests were performed using an electrical signal substituted for the microphone which was removed and replaced by an equivalent capacitance within a tolerance of ±20%.
- 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:

1 Huang Jian Min/Feng Jun Qi

12-Mar-2014 Company Chop:



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.

Date:

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

Hong Kong Accreditation Service (HKAS) has accredited this laboratory under the Hong Kong Laboratory Accreditation Scheme (HOKLAS) for specific laboratory 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:	HK1421424
Date of Issue:	23/07/2014
Client:	AECOM ASIA COMPANY LIMITED



ntal Monitoring System	
Date of next Calibration:	08 October, 2014
e	ental Monitoring System Date of next Calibration:

Parameters:

Conductivity Method Ref: APHA (20th edition), 2510B

Expected Reading (uS/cm)	Displayed Reading (uS/cm)	Tolerance (%)
146.9	142.5	-3.0
6667	6651	-0.2
12890	12740	-1.2
58670	58210	-0.8
	Tolerance Limit (%)	±10.0

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

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
3.55	3.52	-0.03
5.90	5.88	-0.02
7.75	7.72	-0.03
	Tolerance Limit (mg/L)	±0.20

Turbidity

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

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
0	0.0	
4	4.1	+2.5
10	10.1	+1.0
20	20.2	+1.0
50	50.4	+0.8
100	100.3	+0.3
	Tolerance Limit (%)	±10.0

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:HK1421424Date of Issue:23/07/2014Client:AECOM ASIA COMPANY LIMITED



Description: Brand Name:	Sonde Environmental Monitoring Sy YSI	stem	
Model No.:	6820 V1		
Serial No.:	W.026.09		
Equipment No.: Date of Calibration:	W.026.09 08 July, 2014	Date of next Calibration:	08 October, 2014

Parameters:

Salinity

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

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)
0	0.01	
10	10.04	+0.4
20	19.63	-1.9
30	29.89	-0.4
	Tolerance Limit (%)	±10.0

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)
14.0	14.07	+0.1
25.0	25.09	+0.1
39.0	39.04	+0.0
	Tolerance Limit (°C)	±2.0

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

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

ALS Technichem (HK) Pty Ltd ALS Environmental

Work Order:	HK1421422
Date of Issue:	23/07/2014
Client:	AECOM ASIA COMPANY LIMITED



Description:	Sonde Environmental Monitoring S	ystem	
Brand Name:	YSI		
Model No.:	6820 V1		
Serial No.:	04F11451		
Equipment No.:	W.026.31		
Date of Calibration:	08 July, 2014	Date of next Calibration:	08 October, 2014

Parameters:

Conductivity

Method Ref: APHA (20th edition), 2510B

Expected Reading (uS/cm)	Displayed Reading (uS/cm)	Tolerance (%)
146.0		2.2
146.9	150.1	+2.2
6667	6711	+0.7
12890	12786	-0.8
58670	57900	-1.3
	Tolerance Limit (%)	±10.0

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

2 5 1	-0.04
5.85	-0.04
7.69	-0.06
Toloronco Limit (mg (I)	±0.20

Tolerance Limit (%)

Turbidity

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%
0	0.0	
4	4.1	+2.5
10	10.2	+2.0
20	20.2	+1.0
50	50.6	+1.2
100	100.5	+0.5

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

R.M

±10.0

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

ALS Technichem (HK) Pty Ltd ALS Environmental

Work Order:HK1421422Date of Issue:23/07/2014Client:AECOM ASIA COMPANY LIMITED



Description:	Sonde Environmental Monitoring Sy	/stem	
Brand Name:	YSI		
Model No.:	6820 V1		
Serial No.:	04F11451		
Equipment No.:	W.026.31		
Date of Calibration:	08 July, 2014	Date of next Calibration:	08 October, 2014

Parameters:

Salinity

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

Expected Reading (g/L)	Displayed Reading (g/L)	Tolerance (%)
_		
0	0.00	
10	10.02	+0.2
20	20.04	+0.2
30	30.01	+0.0
	Tolerance Limit (%)	±10.0

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)
14.0		
14.0	14.11	+0.1
25.0	25.06	+0.1
39.0	38.95	-0.0
	Tolerance Limit (°C)	±2.0

pH Value

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

Tethou Ker. APHA (21st eution), 450	UH.B	
Expected Reading (pH Unit)	Displayed Reading (pH Unit)	Tolerance (pH unit)
	-	
4.0	4.05	+0.05
7.0	7.03	+0.03
10.0	9.95	-0.05
	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.

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

ALS Technichem (HK) Pty Ltd

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1-Aug	2-Aug
					Mid-Flood 9:39 Mid-Ebb 16:03	
3-Aug	4-Aug	5-Aug	6-Aug	7-Aug	8-Aug	9-Aug
	Mid-Flood 12:54 Mid-Ebb 18:36 24-hour TSP 1-hour TSP Noise		Mid-Ebb 8:58 Mid-Flood 16:20		Mid-Ebb 10:55 Mid-Flood 18:12	24-hour TSP 1-hour TSP
	Dolphin Monitoring					
10-Aug	11-Aug	12-Aug	13-Aug	14-Aug	15-Aug	16-Aug
	Mid-Flood 6:35 Mid-Ebb 13:19		Mid-Flood 8:18 Mid-Ebb* 14:48		Mid-Flood 10:06 Mid-Ebb 16:13	
					24-hour TSP 1-hour TSP Noise	
17-Aug	18-Aug	19-Aug	20-Aug	21-Aug		23-Aug
	Mid-Ebb 7:11 Mid-Flood 13:50		Mid-Ebb 9:41 Mid-Ebb 17:11		Mid-Ebb 11:18 Mid-Flood 18:21	
24-Aug	25-Aug	26-Aug	27-Aug	28-Aug	29-Aug	30-Aug
	Mid-Ebb 13:04 Mid-Flood 19:36 Dolphin Monitoring		Mid-Flood 7:34 Mid-Ebb 14:05 24-hour TSP 1-hour TSP Noise		Mid-Flood 8:49 Mid-Ebb 15:04	

Hong Kong Boundary Crossing Facilities – Reclamation Works Impact Water Quality Monitoring Schedule for August 2014

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

*Due to electricity failure, the 24-hr TSP monitoring at AMS7 scheduled on 26-27 August 2014 was rescheduled to 27-28 August 2014. *The scheduled water quality monitoring at mid-ebb (13 August 2014) has been cancelled due to thunderstorm Signal is hoisted and lightning event was recorded at the water quality monitoring area.

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1-5	ep 2-Sep	3-Sep	4-Sep	5-Sep	6-Sep
	Mid-Flood 11 Mid-Ebb 17		Mid-Ebb 6:56 Mid-Flood 14:46		Mid-Ebb 9:33 Mid-Flood 17:04	24-hour TSP 1-hour TSP
7-Sep	8-8	ep 9-Sep	0 10-Sep	11-Sep	12-Sep	13-Sep
		13 00	Mid-Flood 7:21 Mid-Ebb 13:42		Mid-Flood 9:04 Mid-Ebb 15:05 24-hour TSP 1-hour TSP Noise	
14-Sep	15-5	ep 16-Sep	o 17-Sep	18-Sep	19-Sep	20-Sep
	Mid-Flood 12 Mid-Ebb 17 Dolphin Monitoring		Mid-Ebb 7:26 Mid-Flood 20:18		Mid-Ebb 10:00 Mid-Flood 17:18	
21-Sep	22-5	ep 23-Sep	24-Sep	25-Sep	26-Sep	27-Sep
	Mid-Ebb 12 Mid-Flood 18		Mid-Ebb 13:06 Mid-Flood 19:13 24-hour TSP 1-hour TSP Noise		Mid-Flood 8:03 Mid-Ebb 14:09	
28-Sep	29-5	ep 30-Ser				
	Mid-Flood 10 Mid-Ebb 16 Dolphin Monitoring	20 24-hour TSP				

Hong Kong Boundary Crossing Facilities – Reclamation Works Tentative Impact Monitoring Schedule for September 2014

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

Appendix G Impact Air Quality Monitoring Results

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

		Weather	averaged Wind	Time	Conc.	Actino Level	Limit Level
Date	Session	Condition	Speed (m/s)*	(hh:mm)	(µg/m³)	(µg/m ³)	(µg/m ³)
4-Aug-14	1st Hour	Sunny	1.4	10:21	76	374	500
4-Aug-14	2nd Hour	Sunny	1.0	11:21	76	374	500
4-Aug-14	3rd Hour	Sunny	1.0	12:21	73	374	500
9-Aug-14	1st Hour	Sunny	2.0	11:53	80	374	500
9-Aug-14	2nd Hour	Sunny	1.0	12:53	78	374	500
9-Aug-14	3rd Hour	Sunny	0.6	13:53	78	374	500
15-Aug-14	1st Hour	Sunny	1.4	10:15	84	374	500
15-Aug-14	2nd Hour	Sunny	1.0	11:15	86	374	500
15-Aug-14	3rd Hour	Sunny	1.1	12:15	83	374	500
21-Aug-14	1st Hour	Sunny	1.6	9:55	85	374	500
21-Aug-14	2nd Hour	Sunny	0.4	10:55	87	374	500
21-Aug-14	3rd Hour	Sunny	0.3	11:55	83	374	500
27-Aug-14	1st Hour	Fine	4.6	10:18	82	374	500
27-Aug-14	2nd Hour	Fine	5.2	11:18	81	374	500
27-Aug-14	3rd Hour	Fine	4.7	12:18	80	374	500
				Average	81		
				Min	73		
				Max	87		

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

Data	Session	Weather Condition	averaged Wind Speed (m/s)*	Time (hhumm)	Conc. (µg/m ³)	Actino Level (µg/m ³) ^	Limit Level (µg/m ³)
Date				(hh:mm)			
4-Aug-14	1st Hour	Sunny	1.4	10:30	73	368	500
4-Aug-14	2nd Hour	Sunny	1.0	11:30	76	368	500
4-Aug-14	3rd Hour	Sunny	1.0	12:30	72	368	500
9-Aug-14	1st Hour	Sunny	1.0	12:10	79	368	500
9-Aug-14	2nd Hour	Sunny	0.6	13:10	78	368	500
9-Aug-14	3rd Hour	Sunny	0.6	14:10	79	368	500
15-Aug-14	1st Hour	Sunny	1.4	10:25	84	368	500
15-Aug-14	2nd Hour	Sunny	1.0	11:25	85	368	500
15-Aug-14	3rd Hour	Sunny	1.1	12:25	86	368	500
21-Aug-14	1st Hour	Sunny	1.6	10:10	86	368	500
21-Aug-14	2nd Hour	Sunny	0.4	11:10	86	368	500
21-Aug-14	3rd Hour	Sunny	0.3	12:10	87	368	500
27-Aug-14	1st Hour	Fine	4.6	10:10	80	368	500
27-Aug-14	2nd Hour	Fine	5.2	11:10	79	368	500
27-Aug-14	3rd Hour	Fine	4.7	12:10	79	368	500
				Average	81		
				Min	72		
				Max	87		

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

	Question	Weather	averaged Wind Speed (m/s)*	Time	Conc. (µg/m ³)	Actino Level	Limit Level (µg/m ³)
Date	Session	Condition	Speed (m/s)	(hh:mm)	(µg/m)	(µg/m ³)	(µg/m)
4-Aug-14	1st Hour	Sunny	1.4	10:09	73	370	500
4-Aug-14	2nd Hour	Sunny	1.0	11:09	75	370	500
4-Aug-14	3rd Hour	Sunny	1.0	12:09	74	370	500
9-Aug-14	1st Hour	Sunny	2.0	11:30	77	370	500
9-Aug-14	2nd Hour	Sunny	1.0	12:30	77	370	500
9-Aug-14	3rd Hour	Sunny	0.6	13:30	78	370	500
15-Aug-14	1st Hour	Sunny	1.4	10:00	87	370	500
15-Aug-14	2nd Hour	Sunny	1.0	11:00	88	370	500
15-Aug-14	3rd Hour	Sunny	1.1	12:00	88	370	500
21-Aug-14	1st Hour	Sunny	1.6	9:45	89	370	500
21-Aug-14	2nd Hour	Sunny	0.4	10:45	90	370	500
21-Aug-14	3rd Hour	Sunny	0.3	11:45	87	370	500
27-Aug-14	1st Hour	Fine	4.6	10:40	81	370	500
27-Aug-14	2nd Hour	Fine	5.2	11:40	79	370	500
27-Aug-14	3rd Hour	Fine	4.7	12:40	79	370	500
				Average	81		
				Min	73		
				Max	90		

Due to electricity failure, the 24-hr TSP monitoring at AMS7 scheduled on 26-27 August 2014 was rescheduled to 27-28 August 2014.

Appendix G Impact Air Quality Monitoring Results

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

Start	Start	End	End	Weather	Air	Atmospheric	Flow Rate	e (m ³ /min.)	Av. flow	Total vol.	Filter We	eight (g)	Particulate	Elaps	e Time	Sampling	Conc.	Actino Level	Limit Level
Date	Time	Date	Time	Condition	Temp. (°C)	Pressure(hPa)	Initial	Final	(m ³ /min)	(m ³)	Initial	Final	weight(g)	Initial	Final	Time(hrs.)	(µg/m ³)	(µg/m ³)	(µg/m ³)
4-Aug-14	9:00	5-Aug-14	9:00	Sunny	30.2	1002.4	1.33	1.33	1.33	1912.3	2.7300	2.7862	0.0562	3749.84	3773.84	24.00	29	176	260
8-Aug-14	16:00	9-Aug-14	16:00	Sunny	30.1	1004.4	1.33	1.33	1.33	1912.3	2.6912	2.7867	0.0955	3773.84	3797.84	24.00	50	176	260
14-Aug-14	16:00	15-Aug-14	16:00	Fine	30.7	1010.1	1.33	1.33	1.33	1912.3	2.6831	2.7245	0.0414	3797.84	3821.84	24.00	22	176	260
20-Aug-14	16:00	21-Aug-14	16:00	Sunny	30.7	1010.7	1.33	1.33	1.33	1912.3	2.7017	2.7354	0.0337	3821.84	3845.84	24.00	18	176	260
26-Aug-14	16:00	27-Aug-14	16:00	Sunny	31.7	1010.6	1.33	1.33	1.33	1912.3	2.6728	2.7169	0.0441	3845.84	3869.84	24.00	23	176	260
																Average	28		
																Min	18		
																Max	50		

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

Start	Start	End	End	Weather	Air	Atmospheric	Flow Rate	e (m ³ /min.)	Av. flow	Total vol.	Filter We	eight (g)	Particulate	Elaps	e Time	Sampling	Conc.	Actino Level	Limit Level
Date	Time	Date	Time	Condition	Temp. (°C)	Pressure(hPa)	Initial	Final	(m ³ /min)	(m ³)	Initial	Final	weight(g)	Initial	Final	Time(hrs.)	(µq/m ³)	(µg/m ³)	(µg/m ³)
4-Aug-14	9:00	5-Aug-14	9:00	Sunny	30.2	1002.4	1.34	1.34	1.34	1923.8	2.7245	2.7706	0.0461	3685.80	3709.80	24.00	24	167	260
8-Aug-14	16:00	9-Aug-14	16:00	Sunny	30.1	1004.4	1.34	1.34	1.34	1923.8	2.7149	2.7466	0.0317	3709.80	3733.80	24.00	16	167	260
14-Aug-14	16:00	15-Aug-14	16:00	Fine	30.7	1010.1	1.34	1.34	1.34	1923.8	2.6888	2.8274	0.1386	3733.80	3757.80	24.00	72	167	260
20-Aug-14	16:00	21-Aug-14	16:00	Sunny	30.7	1010.7	1.34	1.34	1.34	1923.8	2.7250	2.8068	0.0818	3757.80	3781.80	24.00	43	167	260
26-Aug-14	16:00	27-Aug-14	16:00	Sunny	31.7	1010.6	1.34	1.34	1.34	1923.8	2.6788	2.7603	0.0815	3781.80	3805.80	24.00	42	167	260
																Average	39		

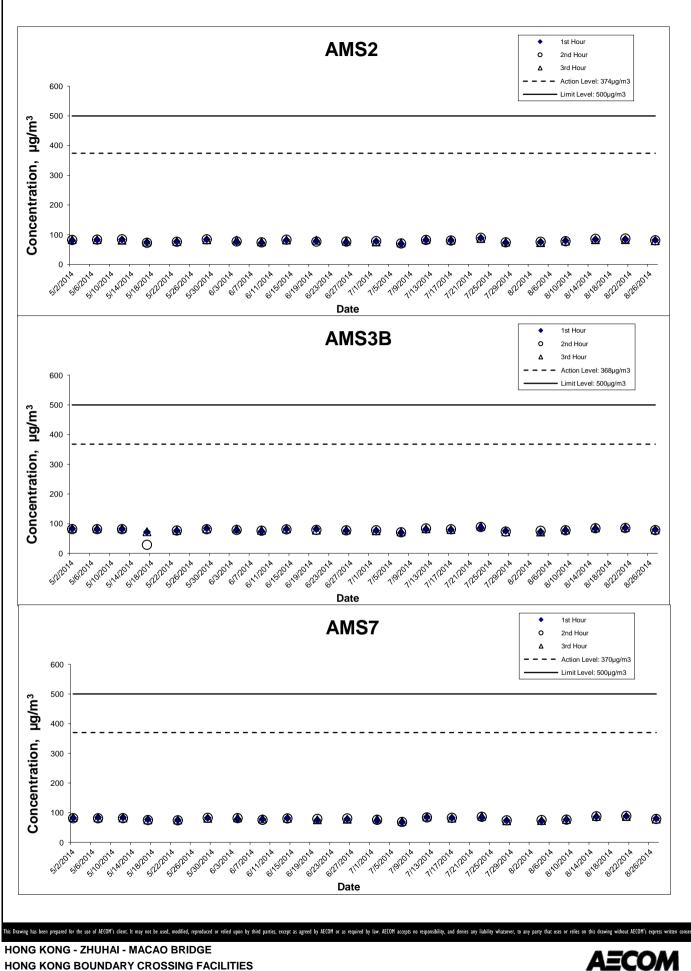
Average	39
Min	16
Max	72

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

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

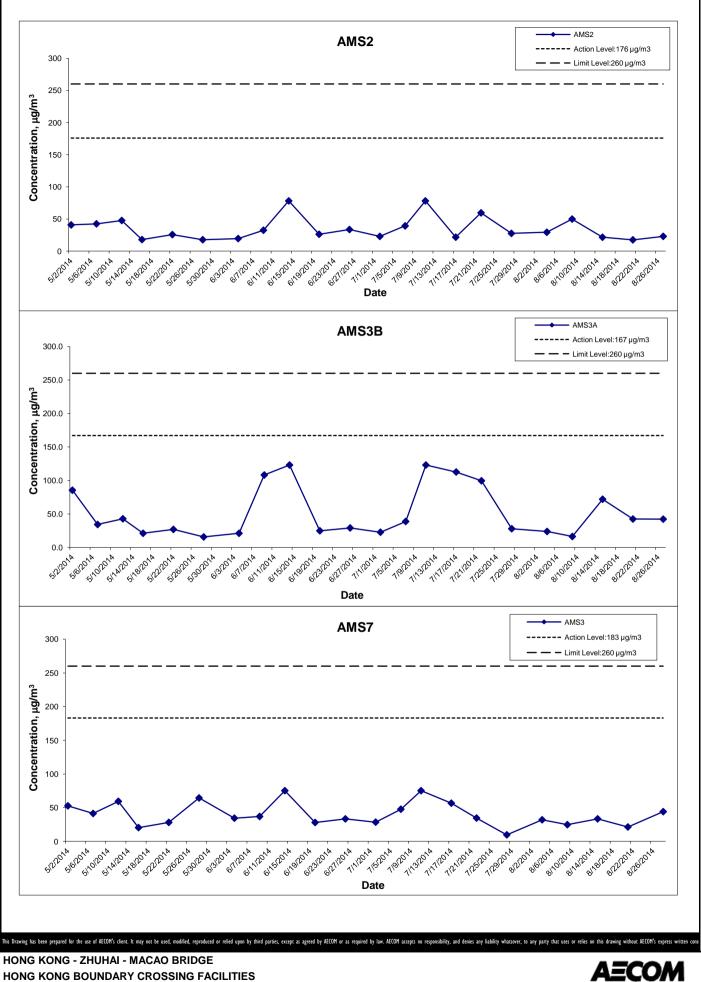
Date Time Date Time Condition Temp. (°C) Pressure(hPa) Initial Final (weight(g)) Initial Final Time(hrs.) (µq/m³) (µq/m³) (µq/m³) 4-Aug-14 9:00 5-Aug-14 9:00 Sunny 30.2 1002.4 1.34 1.34 1925.3 2.7177 2.7793 0.0616 3707.98 3731.98 24.00 32 183 260 8-Aug-14 16:00 9-Aug-14 16:00 Sunny 30.1 1004.4 1.30 1.30 1.80 1869.1 2.7224 2.7686 0.0462 3731.98 24.00 32 183 260 14-Aug-14 16:00 15-Aug-14 16:00 Final 1004.4 1.30 1.30 1.30 1869.1 2.7224 2.7686 0.0462 3731.98 375.98 24.00 33 183 260 14-Aug-14 16:00 Sunny 30.7 1010.7 1.30 1.30 1.869.1 2.7200 2.7598	Start	Start	End	End	Weather	Air	Atmospheric	Flow Rate	(m ³ /min.)	Av. flow	Total vol.	Filter We	eight (g)	Particulate	Elapse	e Time	Sampling	Conc.	Actino Level	Limit Level
8-Aug-14 16:00 9-Aug-14 16:00 Sunny 30.1 1004.4 1.30 1.30 1.869.1 2.7224 2.7686 0.0462 3731.98 3755.98 24.00 25 183 260 14-Aug-14 16:00 15-Aug-14 16:00 Fine 30.7 1010.1 1.30 1.30 1.869.1 2.7564 0.0624 3755.98 24.00 25 183 260 20-Aug-14 16:00 21-Aug-14 16:00 Sunny 30.7 1010.7 1.30 1.30 1869.1 2.7200 2.7598 0.0398 3779.98 24.00 21 183 260 20-Aug-14 16:00 21-Aug-14 16:00 Sunny 30.7 1010.7 1.30 1.30 1869.1 2.7200 2.7598 0.0398 3779.98 3803.98 24.00 21 183 260	Date	Time	Date	Time	Condition	Temp. (°C)	Pressure(hPa)	Initial	Final	(m ³ /min)	(m ³)	Initial	Final	weight(g)	Initial	Final	Time(hrs.)	(µq/m ³)	(µg/m ³)	(µg/m ³)
14-Aug-14 16:00 15-Aug-14 16:00 Fine 30.7 1010.1 1.30 1.30 1.80 1869.1 2.6940 2.7564 0.0624 375.98 3779.98 24.00 33 183 2600 20-Aug-14 16:00 21-Aug-14 16:00 Sunny 30.7 1010.7 1.30 1.30 1869.1 2.7200 2.7598 0.0398 3779.98 24.00 21 183 2600	4-Aug-14	9:00	5-Aug-14	9:00	Sunny	30.2	1002.4	1.34	1.34	1.34	1925.3	2.7177	2.7793	0.0616	3707.98	3731.98	24.00	32	183	260
20-Aug-14 16:00 21-Aug-14 16:00 Sunny 30.7 1010.7 1.30 1.30 1.30 1869.1 2.7200 2.7598 0.0398 3779.98 3803.98 24.00 21 183 260	8-Aug-14	16:00	9-Aug-14	16:00	Sunny	30.1	1004.4	1.30	1.30	1.30	1869.1	2.7224	2.7686	0.0462	3731.98	3755.98	24.00	25	183	260
	14-Aug-14	16:00	15-Aug-14	16:00	Fine	30.7	1010.1	1.30	1.30	1.30	1869.1	2.6940	2.7564	0.0624	3755.98	3779.98	24.00	33	183	260
27-Aug-14 16:00 28-Aug-14 16:00 Sunny 29.1 1012.1 1.30 1.30 1.30 1869.1 2.6688 2.7511 0.0823 3803.98 3827.98 24.00 44 183 260	20-Aug-14	16:00	21-Aug-14	16:00	Sunny	30.7	1010.7	1.30	1.30	1.30	1869.1	2.7200	2.7598	0.0398	3779.98	3803.98	24.00	21	183	260
	27-Aug-14	16:00	28-Aug-14	16:00	Sunny	29.1	1012.1	1.30	1.30	1.30	1869.1	2.6688	2.7511	0.0823	3803.98	3827.98	24.00	44	183	260

31	Γ
21	
44	
	31 21 44



Graphical Presentation of Impact 1-hour TSP Monitoring Results

- RECLAMATION WORKS



Graphical Presentation of Impact 24-hour TSP Monitoring Results

- RECLAMATION WORKS

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 August 2014

WIND DATA

WIND DATA			
Date	Time	Averaged Wind Speed (m/s)	Averaged Wind Direction (degrees)
08/04/14 08/04/14	09:10:50 10:10:50	0.57	<u>113</u> 99
08/04/14	11:10:50	0.99	130
08/04/14	11:54:28	-0.78	45
08/04/14	12:54:28	1.02	174
08/04/14	13:54:28	0.49	194
08/04/14	14:54:28	0.14	125
08/04/14	15:54:28	0.11	99
08/04/14	16:54:28	0.10	88
08/04/14	17:54:28	1.37	202
08/04/14	18:54:28	0.10	192
08/04/14	19:54:28	0.80	96
08/04/14	20:54:28	0.11	65
08/04/14	21:54:28	1.64	130
08/04/14 08/04/14	22:54:28 23:54:28	0.15 0.03	7 189
08/05/14	00:54:28	0.03	189
08/05/14	01:54:28	-0.03	199
08/05/14	02:54:28	-0.10	175
08/05/14	03:54:28	-0.01	138
08/05/14	04:54:28	-0.11	160
08/05/14	05:54:28	-0.11	131
08/05/14	06:54:28	-0.10	167
08/05/14	07:54:28	-0.08	99
08/05/14	08:54:28	0.18	108
08/05/14	09:54:28	0.22	162
08/08/14	16:54:28	3.01	275
08/08/14	17:54:28	1.17	336
08/08/14 08/08/14	18:54:28 19:54:28	2.81 1.40	275 344
08/08/14	20:54:28	0.97	73
08/08/14	21:54:28	1.24	354
08/08/14	22:54:28	1.34	329
08/08/14	23:54:28	0.83	331
08/09/14	00:54:28	1.44	336
08/09/14	01:54:28	1.11	7
08/09/14	02:54:28	0.99	268
08/09/14	03:54:28	0.87	290
08/09/14	04:54:28	0.91	139
08/09/14	05:54:28	0.88	28
08/09/14	06:54:28	1.37	290
08/09/14 08/09/14	07:54:28 08:54:28	<u>1.17</u> 3.25	28 320
08/09/14	09:54:28	<u> </u>	320
08/09/14	10:54:28	1.90	305
08/09/14	11:54:28	2.00	300
08/09/14	12:54:28	0.98	338
08/09/14	13:54:28	0.59	261
08/09/14	14:54:28	0.56	337
08/09/14	15:54:28	1.50	107
08/09/14	16:54:28	1.68	319
08/14/14	16:54:28	1.57	316
08/14/14	17:54:28	3.57	334
08/14/14	18:54:28	1.65	275
08/14/14	19:54:28	3.13	272 350
08/14/14 08/14/14	20:54:28 21:54:28	0.76 1.05	310
08/14/14	22:54:28	0.73	279
08/14/14	23:54:28	0.73	315
08/15/14	00:54:28	0.67	278
08/15/14	01:54:28	0.64	267
08/15/14	02:54:28	0.69	273
08/15/14	03:54:28	0.76	100
08/15/14	04:54:28	0.84	153
08/15/14	05:54:28	0.90	285
08/15/14	06:54:28	0.64	89
08/15/14	07:54:28	0.77	126
08/15/14	08:54:28	0.45	113
08/15/14 08/15/14	09:54:28 10:54:28	0.71 1.37	<u>116</u> 126
08/15/14	11:54:28	0.98	307
08/15/14	12:54:28	1.06	313
08/15/14	13:54:28	0.69	235
08/15/14	14:54:28	2.85	313
08/15/14	15:54:28	0.15	11
08/15/14	16:54:28	0.59	340
08/20/14	16:54:28	0.73	148
08/20/14	17:54:28	0.80	154
08/20/14	18:54:28	0.55	236
08/20/14	19:54:28	0.45	256
08/20/14	20:54:28	0.57	134
08/20/14	21:54:28	0.53	253
08/20/14	22:54:28	0.66	223
08/20/14	23:54:28	0.34	231
08/21/14 08/21/14	00:54:28 01:54:28	0.62	296 258
08/21/14	01:54:28 02:54:28	0.56	258
08/21/14	02:54:28	0.62	248
08/21/14	03:54:28	0.63	239
VV/21/14	0	0.02	

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APPENDIX H Meteorological Data for Monitoring Periods on Monitoring Dates in August 2014

WIND DATA

Date	Time Av	veraged Wind Speed (m/s)	Averaged Wind Direction (degrees)
08/21/14	05:54:28	0.66	283
08/21/14	06:54:28	0.70	190
08/21/14	07:54:28	0.36	275
08/21/14	08:54:28	1.05	132
08/21/14	09:54:28	1.58	139
08/21/14	10:54:28	0.41	141
08/21/14	11:54:28	0.25	215
08/21/14	12:54:28	0.84	141
08/21/14	13:54:28	0.27	88
08/21/14	14:54:28	0.55	216
08/21/14	15:54:28	0.74	274
08/21/14	16:54:28	2.85	285
08/21/14	17:54:28	0.21	326
08/21/14	18:54:28	0.62	31
08/21/14	19:54:28	0.63	<u>172</u> 267
08/21/14 08/21/14	20:54:28 21:54:28	0.24 0.24	65
08/21/14	21:54:28	0.24	308
08/21/14	23:54:28	0.14	171
08/22/14	00:54:28	0.14	63
08/22/14	01:54:28	0.07	300
08/22/14	02:54:28	0.06	158
08/22/14	03:54:28	0.08	248
08/22/14	04:54:28	0.59	147
08/22/14	05:54:28	0.03	280
08/22/14	06:54:28	0.31	288
08/22/14	07:54:28	0.03	57
08/22/14	08:54:28	0.36	47
08/22/14	09:54:28	0.83	133
08/22/14	10:54:28	0.29	134
08/22/14	11:54:28	0.63	128
08/22/14	12:54:28	0.53	77
08/22/14	13:54:28	0.25	60
08/22/14	14:54:28	0.36	145
08/22/14	15:54:28	0.56	90
08/22/14	16:54:28	1.34	336
08/26/14	16:54:28	0.45	198
08/26/14	17:54:28	0.20	108
08/26/14	18:54:28	1.43	168
08/26/14	19:54:28	1.38	135
08/26/14	20:54:28	0.94	142
08/26/14	21:54:28	0.43	119
08/26/14	22:54:28	1.66	164
08/26/14	23:54:28	0.10	147
08/27/14	00:54:28	0.25	141
08/27/14	01:54:28	2.14	176
08/27/14	02:54:28	1.89	183
08/27/14	03:54:28	3.51	149
08/27/14	04:54:28	1.13	145
08/27/14	05:54:28	0.32	172
08/27/14	06:54:28	3.57	147
08/27/14	07:54:28	0.34	139
08/27/14	08:54:28	0.41	65
08/27/14	09:54:28	1.99	159
08/27/14	10:54:28	4.55	160
08/27/14	11:54:28	5.16	149
08/27/14	12:54:28	4.74	144
08/27/14	13:54:28	3.78	172
08/27/14	14:54:28	6.74	166
08/27/14	15:54:28	4.85	166
08/27/14	16:54:28	7.54	179
08/27/14	17:54:28	1.73	124
08/27/14	18:54:28	4.81	161
08/27/14	19:54:28	2.57	136
08/27/14	20:54:28	1.38	137
08/27/14	21:54:28	1.16	93
08/27/14	22:54:28	2.87	158
08/27/14	23:54:28	0.60	183
08/28/14	00:54:28	2.64	139
08/28/14	01:54:28	1.36	155
08/28/14	02:54:28	2.71	132
08/28/14	03:54:28	1.65	112
08/28/14	04:54:28	0.35	105
08/28/14	05:54:28	1.62	192
08/28/14	06:54:28	3.34	140
08/28/14	07:54:28	2.67	170
08/28/14	08:54:28	0.69	165
08/28/14	09:54:28	4.31	135
08/28/14	10:54:28	1.09	165
08/28/14	11:54:28	2.63	144
08/28/14	12:54:28	3.02	128
08/28/14	13:54:28	4.90	149
08/28/14	14:54:28	2.31	144
08/28/14	15:54:28	4.83	163

Appendix I Impact Daytime Construction Noise Monitoring Results

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

		Nois	e Level for 30)-min, dB(A) [#]					
Date	Weather Condition	Time	L90	L10	Leq	Averaged Wind Speed (m/s)	Baseline Noise Level, dB(A)	Limit Level, dB(A)	Exceedance (Y/N)
4-Aug-14	Sunny	10:45	62	68	66	<5m/s	62.9	75	Ν
15-Aug-14	Sunny	10:50	63	68	66	<5m/s	62.9	75	Ν
21-Aug-14	Sunny	10:40	63	70	67	<5m/s	62.9	75	Ν
27-Aug-14	Fine	10:45	65	70	67	<5m/s	62.9	75	N
		Min	62	68	66				
		Max	65	70	67				
		Average			66				

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

		Nois	se Level for 30	0-min, dB(A) [#]	:				
Date	Weather Condition	Time	L90	L10	Leq	Averaged Wind Speed (m/s)	Baseline Noise Level, dB(A) ^	Limit Level, dB(A)**	Exceedance (Y/N)
4-Aug-14	Sunny	11:28	61	65	64	<5m/s	66.3	70	N
15-Aug-14	Sunny	11:30	60	64	63	<5m/s	66.3	70	Ν
21-Aug-14	Sunny	11:25	60	64	63	<5m/s	66.3	70	Ν
27-Aug-14	Fine	13:50	62	67	65	<5m/s	66.3	70	N
		Min	60	64	63				
		Max	62	67	65				
		Average			64				

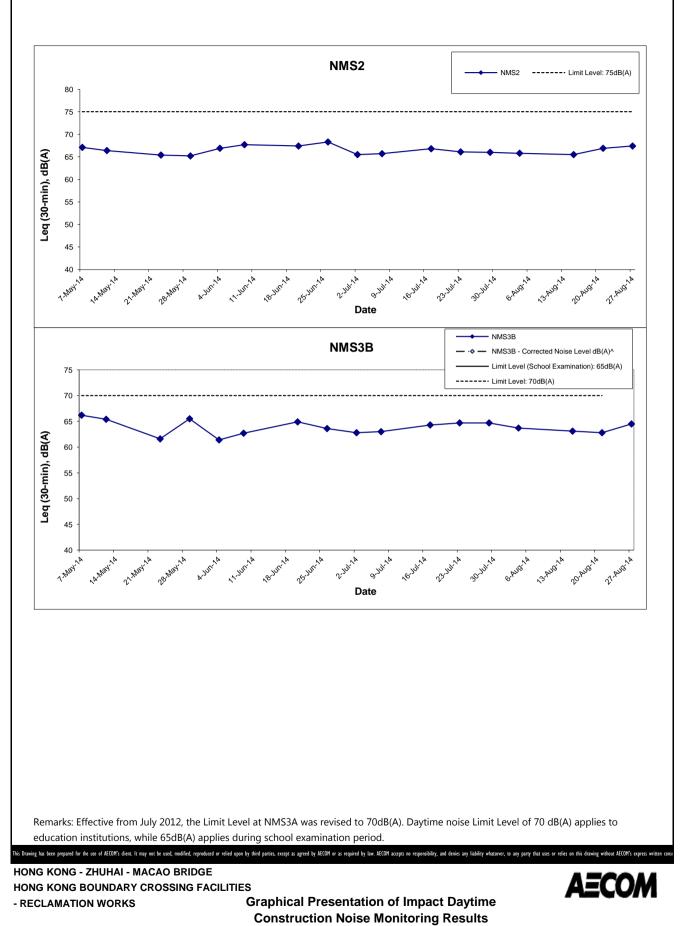
Remark:

 $^{\rm \#}$ 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.



Project No.: 60249820 Date: September 2014

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

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*
1-Aug-14	Sunny	Moderate	15:29		Surface	1.0	29.9 29.6	29.7	8.2 8.2	8.2	15.7 15.9	15.8	90.4 90.1	90.3	6.3 6.3	6.3	6.2	2.5 2.3	2.4		2.4 2.3	2.4	
				6.5	Middle	3.3	29.2 29.2	29.2	8.1 8.2	8.2	19.0 18.7	18.9	86.9 85.7	86.3	6.0 5.9	6.0	0.2	2.6 2.6	2.6	2.6	2.3 2.0	2.2	2.5
					Bottom	5.5	28.9 29.3	29.1	8.1 8.1	8.1	21.9 22.2	22.0	87.3 90.1	88.7	6.0 6.1	6.0	6.0	2.7 2.6	2.7		2.8 3.0	2.9	
4-Aug-14	Sunny	Moderate	18:07		Surface	1.0	30.3 31.4	30.8	8.3 8.3	8.3	14.8 13.8	14.3	74.9 75.9	75.4	5.4 5.7	5.5		6.5 6.6	6.6		2.0 2.2	2.1	
				5.9	Middle	3.0	29.5 29.7	29.6	8.3 8.3	8.3	17.0 16.9	16.9	74.3 73.1	73.7	5.5 5.3	5.4	5.5	6.2 6.5	6.4	6.5	2.4 2.4	2.4	2.4
					Bottom	4.9	27.9 28.4	28.1	8.2 8.2	8.2	24.8 23.4	24.1	78.5 75.2	76.9	5.9 5.6	5.8	5.8	6.3 6.4	6.4		2.1	2.6	
6-Aug-14	Sunny	Moderate	09:28		Surface	1.0	29.3 29.3	29.3	8.4 8.4	8.4	16.3 16.5	16.4	101.5 99.3	100.4	7.1 6.9	7.0		3.2 3.4	3.3		6.0 5.9	6.0	
				6.3	Middle	3.2	29.4 29.2	29.3	8.3 8.3	8.3	20.1 20.8	20.5	85.2 83.8	84.5	5.8 5.7	5.8	6.4	3.8 4.0	3.9	4.3	5.9 6.2	6.1	6.2
					Bottom	5.3	26.6 26.6	26.6	8.1 8.1	8.1	29.5 29.6	29.5	77.7 74.6	76.2	5.3 5.1	5.2	5.2	5.5 5.7	5.6		6.4 6.5	6.5	
8-Aug-14	Sunny	Moderate	11:43		Surface	1.0	29.4 29.4	29.4	8.2 8.2	8.2	16.1 16.1	16.1	80.8 81.2	81.0	5.7 5.7	5.7		2.7	2.8		2.1 2.1	2.1	
				6.5	Middle	3.3	28.6 28.7	28.7	8.2 8.2	8.2	19.1 18.9	19.0	73.3 73.9	73.6	5.1 5.2	5.1	5.4	3.8 3.7	3.8	3.4	2.6 2.6	2.6	2.7
					Bottom	5.5	27.1 27.0	27.0	8.1 8.1	8.1	26.6 26.7	26.6	74.5 70.2	72.4	5.1 4.8	5.0	5.0	3.6 3.5	3.6		3.3 3.2	3.3	
11-Aug-14	Sunny	Moderate	12:46		Surface	1.0	29.2 29.0	29.1	8.1 8.1	8.1	21.8 22.0	21.9	88.7 85.9	87.3	6.4 6.3	6.4	6.2	5.3 5.4	5.4		5.4 5.0	5.2	
				6.3	Middle	3.2	28.3 28.4	28.3	8.0 8.0	8.0	22.9 22.8	22.9	82.5 82.8	82.7	6.1 6.1	6.1	6.3	6.8 6.6	6.7	6.6	6.5 6.7	6.6	6.8
					Bottom	5.3	28.0 28.0	28.0	8.0 8.0	8.0	24.3 24.1	24.2	82.5 83.0	82.8	6.1 6.1	6.1	6.1	7.7 7.7	7.7		8.5 8.5	8.5	
13-Aug-14***	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	:
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
15-Aug-14	Sunny	Moderate	15:58		Surface	1.0	29.3 29.4	29.3	8.0 8.0	8.0	19.1 19.1	19.1	79.0 79.6	79.3	5.4 5.5	5.5	5.3	5.1 5.2	5.2		3.4 3.2	3.3	
				6.6	Middle	3.3	29.3 28.9	29.1	8.0 8.0	8.0	19.3 19.4	19.4	73.7 73.1	73.4	5.1 5.1	5.1	5.5	5.6 5.8	5.7	5.8	5.0 5.2	5.1	4.7
					Bottom	5.6	28.0 27.9	28.0	7.9 7.9	7.9	22.1 22.1	22.1	69.5 68.5	69.0	4.8 4.8	4.8	4.8	6.7 6.5	6.6		5.9 5.3	5.6	
18-Aug-14	Sunny	Moderate	07:37		Surface	1.0	29.1 29.1	29.1	8.0 7.9	8.0	13.9 13.9	13.9	83.0 84.3	83.7	5.9 6.0	6.0	5.8	3.5 3.4	3.5		3.0 3.1	3.1	
				6.4	Middle	3.2	28.5 28.7	28.6	7.9 7.8	7.9	16.6 18.1	17.4	77.2 79.4	78.3	5.5 5.6	5.5	0.0	3.5 3.4	3.5	3.5	2.6 3.2	2.9	3.2
					Bottom	5.4	28.3 28.2	28.2	7.9 7.7	7.8	20.8 21.0	20.9	79.1 79.8	79.5	5.5 5.6	5.5	5.5	3.5 3.5	3.5		3.6 3.6	3.6	
20-Aug-14	Rainy	Moderate	10:04		Surface	1.0	28.6 28.6	28.6	8.1 8.1	8.1	13.2 13.2	13.2	95.8 94.1	95.0	6.9 6.8	6.8	6.4	3.1 3.2	3.2		4.3 3.6	4.0	
				6.4	Middle	3.2	28.5 28.5	28.5	8.1 8.0	8.1	13.8 13.9	13.9	80.4 82.3	81.4	5.8 5.9	5.9	0.7	3.1 3.0	3.1	3.3	3.9 3.9	3.9	3.9
					Bottom	5.4	27.2 27.5	27.3	7.9 7.9	7.9	25.3 22.9	24.1	71.4 74.8	73.1	4.9 5.2	5.1	5.1	3.8 3.4	3.6		4.0 3.8	3.9	

* DA: Depth-Averaged

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

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

Date	Weather	Sea	Sampling	Water	Sampli	ing	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*
22-Aug-14	Sunny	Moderate	11:49		Surface	1.0	29.7 29.6	29.6	7.9 7.9	7.9	10.9 10.9	10.9	82.3 82.7	82.5	5.9 5.9	5.9	5.8	3.8 3.6	3.7		3.0 2.9	3.0	
				6.3	Middle	3.2	29.2 29.1	29.1	7.9 7.9	7.9	12.8 12.9	12.9	78.8 78.4	78.6	5.6 5.6	5.6	5.0	3.4 3.7	3.6	4.2	3.6 3.3	3.5	3.4
					Bottom	5.3	26.9 27.1	27.0	7.9 7.9	7.9	20.9 20.1	20.5	75.3 76.3	75.8	5.4 5.5	5.4	5.4	5.1 5.3	5.2		3.5 3.9	3.7	
25-Aug-14	Sunny	Moderate	13:32		Surface	1.0	29.3 29.6	29.4	8.1 8.1	8.1	16.7 16.5	16.6	76.5 76.7	76.6	5.3 5.3	5.3	5.2	3.0 3.1	3.1		1.5 1.6	1.6	
				6.4	Middle	3.2	27.7 28.3	28.0	8.1 8.1	8.1	20.7 18.0	19.3	72.8 73.0	72.9	5.1 5.2	5.1	5.2	4.5 4.3	4.4	4.0	1.8 1.5	1.7	1.8
					Bottom	5.4	27.7 27.2	27.5	8.0 8.0	8.0	21.0 23.2	22.1	73.1 69.0	71.1	5.1 4.8	5.0	5.0	4.5 4.5	4.5		1.9 2.2	2.1	
27-Aug-14	Sunny	Moderate	14:03		Surface	1.0	27.7 27.8	27.7	8.1 8.1	8.1	20.9 20.4	20.7	73.6 79.4	76.5	5.5 5.9	5.7	5.7	4.5 4.5	4.5		4.4 3.9	4.2	
				6.1	Middle	3.1	27.4 27.5	27.4	8.1 8.1	8.1	23.0 22.8	22.9	78.7 74.4	76.6	5.8 5.6	5.7	5.7	4.2 4.7	4.5	4.6	4.1 4.3	4.2	4.8
					Bottom	5.1	27.3 27.4	27.4	8.1 8.1	8.1	23.4 23.3	23.3	74.1 77.2	75.7	5.5 5.9	5.7	5.7	4.5 4.8	4.7		6.1 6.0	6.1	
29-Aug-14	Sunny	Moderate	14:30		Surface	1.0	28.6 28.7	28.7	8.1 8.1	8.1	21.0 20.8	20.9	84.9 84.7	84.8	5.9 5.8	5.8	5.8	6.2 6.6	6.4		4.8 4.9	4.9	
				6.5	Middle	3.3	28.3 28.2	28.2	8.1 8.1	8.1	21.7 22.2	21.9	82.4 83.1	82.8	5.7 5.7	5.7	5.0	8.3 7.9	8.1	7.8	3.7 3.9	3.8	4.6
					Bottom	5.5	27.2 27.2	27.2	8.0 8.0	8.0	24.3 24.5	24.4	80.2 80.5	80.4	5.6 5.6	5.6	5.6	8.9 9.0	9.0		5.3 4.6	5.0	

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

Remarks:

* DA: Depth-Averaged

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

Water Quality Monitoring Results at CS(Mf)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)	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*
1-Aug-14	Sunny	Moderate	09:49		Surface	1.0	29.5 29.6	29.6	8.1 8.1	8.1	16.9 16.0	16.5	81.0 80.5	80.8	5.6 5.6	5.6		3.5 3.4	3.5		1.3 1.8	1.6	
				6.7	Middle	3.4	29.2 29.1	29.1	8.1 8.1	8.1	20.7 19.4	20.0	77.8 77.1	77.5	5.3 5.3	5.3	5.5	3.5 3.6	3.6	3.6	3.0 3.0	3.0	2.6
					Bottom	5.7	28.5 28.6	28.6	8.1 8.0	8.1	23.4 23.3	23.3	77.1	76.3	5.3 5.2	5.2	5.2	3.6 3.5	3.6		2.8	3.1	
4-Aug-14	Sunny	Moderate	13:10		Surface	1.0	29.7 29.8	29.8	8.3 8.3	8.3	14.8 14.0	14.4	77.5	77.7	5.8 5.8	5.8		6.5 6.5	6.5		2.2	2.3	
				6.6	Middle	3.3	29.4 29.5	29.4	8.2 8.2	8.2	19.5 19.4	19.4	75.2	75.8	5.5 5.8	5.7	5.8	6.6 6.4	6.5	6.4	2.3 2.8	2.6	2.5
					Bottom	5.6	27.9 27.7	27.8	8.2 8.2	8.2	25.3 25.4	25.4	74.6	73.1	5.5 5.3	5.4	5.4	6.3 6.2	6.3		2.7	2.7	
6-Aug-14	Sunny	Moderate	15:51		Surface	1.0	29.5 29.6	29.6	8.3 8.3	8.3	14.3 14.1	14.2	99.4 96.4	97.9	7.0 6.8	6.9		4.8 4.6	4.7		3.2 3.3	3.3	
				6.6	Middle	3.3	28.5 29.2	28.9	8.2 8.2	8.2	24.5 21.7	23.1	76.5 81.6	79.1	5.2 5.6	5.4	6.2	4.7	5.1	5.9	4.9	4.8	4.2
					Bottom	5.6	26.8 26.7	26.8	8.1 8.1	8.1	28.2	28.3	77.9 74.4	76.2	5.3 5.0	5.2	5.2	7.8	8.0		4.6	4.5	
8-Aug-14	Sunny	Moderate	17:41		Surface	1.0	30.0 30.1	30.1	8.1 8.1	8.1	15.8 15.8	15.8	85.8 87.4	86.6	5.9 6.1	6.0		5.6 5.7	5.7		3.3 2.9	3.1	
				6.3	Middle	3.2	29.7 29.9	29.8	8.1 8.1	8.1	17.1	17.1	76.3 77.0	76.7	5.3 5.3	5.3	5.7	7.6	7.5	6.9	3.5 3.2	3.4	3.4
					Bottom	5.3	27.8 27.9	27.9	8.1 8.1	8.1	22.9 22.7	22.8	74.7	75.4	5.2 5.3	5.2	5.2	7.6 7.6	7.6		3.8	3.6	
11-Aug-14	Sunny	Moderate	06:42		Surface	1.0	28.0 28.0	28.0	8.1 8.1	8.1	23.6 23.5	23.6	80.6 78.5	79.6	5.9 5.8	5.9	5.0	15.6 15.3	15.5		14.7 14.8	14.8	
				6.5	Middle	3.3	27.9 27.9	27.9	8.1 8.1	8.1	23.7 23.8	23.8	78.7 82.4	80.6	5.8 6.1	5.9	5.9	16.4 16.6	16.5	16.6	22.4 22.3	22.4	20.1
					Bottom	5.5	27.9 27.9	27.9	8.1 8.1	8.1	23.8 23.8	23.8	87.6 79.5	83.6	6.4 5.9	6.1	6.1	17.8 17.7	17.8		23.1 23.1	23.1	
13-Aug-14	Rainy	Moderate	08:32		Surface	1.0	28.0 27.9	27.9	8.0 8.0	8.0	22.2 22.7	22.5	99.4 89.7	94.6	6.8 6.2	6.5	6.4	7.7 7.9	7.8		7.7 7.5	7.6	
				7.2	Middle	3.6	27.8 27.8	27.8	8.0 8.0	8.0	23.1 23.4	23.3	87.6 93.3	90.5	6.1 6.4	6.2	6.4	8.0 8.1	8.1	8.1	6.3 6.6	6.5	7.1
					Bottom	6.2	27.9 27.9	27.9	8.0 8.0	8.0	23.5 24.1	23.8	91.7 86.1	88.9	6.3 6.0	6.1	6.1	8.5 8.0	8.3		7.2 7.1	7.2	
15-Aug-14	Sunny	Moderate	10:23		Surface	1.0	28.4 28.4	28.4	7.9 7.9	7.9	20.0 20.0	20.0	70.3 69.7	70.0	4.9 4.9	4.9	4.8	5.8 5.6	5.7		5.4 5.4	5.4	
				6.4	Middle	3.2	27.8 27.8	27.8	7.9 7.9	7.9	22.3 22.3	22.3	67.9 67.6	67.8	4.7 4.7	4.7	4.0	6.2 6.2	6.2	6.2	6.1 6.3	6.2	6.4
					Bottom	5.4	27.7 27.7	27.7	7.9 7.9	7.9	22.8 22.7	22.7	65.4 65.4	65.4	4.5 4.5	4.5	4.5	6.7 6.8	6.8		7.5 7.6	7.6	
18-Aug-14	Sunny	Moderate	13:16		Surface	1.0	29.4 29.4	29.4	8.0 8.0	8.0	14.3 14.1	14.2	85.1 86.6	85.9	6.0 6.1	6.1	5.7	4.3 4.5	4.4		3.0 2.6	2.8	
				6.4	Middle	3.2	28.9 28.6	28.7	8.0 8.0	8.0	19.1 17.9	18.5	77.9 74.6	76.3	5.4 5.2	5.3	0.7	4.4 4.5	4.5	4.5	2.7 2.9	2.8	2.7
					Bottom	5.4	27.5 27.8	27.6	7.9 7.9	7.9	23.6 23.7	23.7	75.2 74.0	74.6	5.2 5.1	5.2	5.2	4.6 4.6	4.6		2.6 2.6	2.6	
20-Aug-14	Rainy	Moderate	16:37		Surface	1.0	28.7 28.7	28.7	8.1 8.1	8.1	13.5 11.6	12.6	85.2 88.1	86.7	6.1 6.4	6.3	5.9	5.8 5.6	5.7		4.2 5.1	4.7	
				6.3	Middle	3.2	28.1 28.1	28.1	8.0 8.0	8.0	17.8 18.6	18.2	77.3 76.6	77.0	5.5 5.4	5.4	0.0	7.0 6.8	6.9	5.6	3.8 5.1	4.5	4.6
					Bottom	5.3	27.9 27.9	27.9	8.0 8.0	8.0	21.4 23.0	22.2	76.1 77.9	77.0	5.3 5.4	5.3	5.3	4.4 4.1	4.3		4.9 4.5	4.7	

Remarks:

* DA: Depth-Averaged

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

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

Date	Weather	Sea	Sampling	Water	Sampling	Tem	erature (°C)	F F	ъН	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ved Oxyger	i (mg/L)	Т	urbidity(NTL	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth (m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
22-Aug-14	Sunny	Moderate	17:40		Surface 1	.0 29.6 29.5	29.5	7.9 7.9	7.9	11.9 12.5	12.2	78.9 80.9	79.9	5.6 5.8	5.7	5.6	5.3 5.1	5.2		5.1 5.3	5.2	
				6.6	Middle 3	.3 29.4 29.2	29.3	7.9 7.9	7.9	12.9 13.1	13.0	79.7 74.2	77.0	5.7 5.2	5.4	5.0	5.0 5.3	5.2	5.5	4.9 5.1	5.0	5.2
					Bottom 5	.6 27.6 28.8	28.2	7.8 7.9	7.8	21.2 21.1	21.2	72.5 76.0	74.3	5.2 5.4	5.3	5.3	6.1 5.8	6.0		5.3 5.5	5.4	
25-Aug-14	Sunny	Moderate	19:06		Surface 1	.0 29.8 29.8	29.8	8.2 8.2	8.2	15.1 15.1	15.1	88.3 85.4	86.9	6.2 6.0	6.1	5.8	4.2 4.1	4.2		1.8 1.7	1.8	
				6.4	Middle 3	.2 29.0 29.5	29.3	8.1 8.1	8.1	16.4 16.1	16.3	75.9 78.0	77.0	5.3 5.4	5.4	0.0	6.5 6.6	6.6	5.7	3.0 2.5	2.8	2.7
					Bottom 5	.4 27.5 27.6	27.6	8.1 8.1	8.1	21.4 21.5	21.4	71.5 76.3	73.9	5.0 5.3	5.2	5.2	6.6 6.2	6.4		3.2 3.5	3.4	
27-Aug-14	Sunny	Moderate	07:53		Surface 1	.0 27.6 27.5	27.6	8.1 8.1	8.1	22.3 21.4	21.8	72.1 71.2	71.7	5.0 5.1	5.1	5.1	4.7 4.6	4.7		4.7 4.2	4.5	
				6.7	Middle 3	.4 27.2 27.4	27.3	8.1 8.1	8.1	24.3 24.2	24.2	71.9 70.7	71.3	5.2 5.0	5.1	5.1	4.8 4.5	4.7	4.7	4.5 4.9	4.7	6.1
					Bottom 5	.7 27.6 27.2	27.4	8.1 8.1	8.1	24.1 24.3	24.2	70.7 73.6	72.2	5.1 5.5	5.3	5.3	4.8 4.5	4.7		9.0 9.2	9.1	
29-Aug-14	Sunny	Moderate	09:05		Surface 1	.0 27.8 27.6	27.7	8.1 8.1	8.1	20.6 20.8	20.7	81.5 81.1	81.3	5.7 5.6	5.7	5.6	13.4 12.8	13.1		2.9 4.0	3.5	
				6.7	Middle 3	.4 27.2 27.3	27.3	8.1 8.1	8.1	24.6 23.0	23.8	78.7 80.3	79.5	5.4 5.6	5.5	5.0	15.0 15.2	15.1	14.1	3.8 3.6	3.7	3.4
					Bottom 5	.7 27.1 27.0	27.1	8.1 8.1	8.1	25.1 25.2	25.2	79.3 79.6	79.5	5.5 5.6	5.5	5.5	14.1 13.8	14.0		2.6 3.5	3.1	

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

Remarks:

* DA: Depth-Averaged

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

Water Quality Monitoring Results at CS4 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	þ	H	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	(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*
1-Aug-14	Sunny	Moderate	15:11		Surface	1.0	29.7 29.5	29.6	8.2 8.2	8.2	15.8 15.9	15.9	85.9 84.8	85.4	6.0 5.9	6.0	5.0	2.5 2.4	2.5		1.8 1.7	1.8	
				16.8	Middle	8.4	29.1 28.9	29.0	8.1 8.1	8.1	21.3 20.9	21.1	79.3 80.8	80.1	5.4 5.5	5.5	5.8	2.5	2.5	2.6	2.5 2.2	2.4	2.6
					Bottom	15.8	28.5 28.5	28.5	8.1 8.1	8.1	23.2 23.3	23.2	80.0 76.8	78.4	5.5 5.3	5.4	5.4	2.7	2.8		3.6 3.4	3.5	
4-Aug-14	Sunny	Moderate	17:59		Surface	1.0	29.8 30.4	30.1	8.3 8.3	8.3	15.6 13.6	14.6	76.2 74.3	75.3	5.6 5.4	5.5		6.4 6.6	6.5		3.0 2.6	2.8	
				14.9	Middle	7.5	27.5 27.3	27.4	8.1 8.1	8.1	26.2 26.6	26.4	78.9 80.2	79.6	6.0 6.0	6.0	5.8	6.5 6.2	6.4	6.3	3.1 3.4	3.3	3.2
					Bottom	13.9	27.4	27.5	8.1 8.1	8.1	26.5 25.9	26.2	79.6 75.8	77.7	5.9 5.6	5.7	5.7	5.9 6.3	6.1		3.1 4.1	3.6	
6-Aug-14	Sunny	Moderate	09:50		Surface	1.0	29.3 29.4	29.3	8.4 8.4	8.4	16.3 16.4	16.4	98.2 95.3	96.8	6.9 6.7	6.8		3.2 3.5	3.4		5.5	5.4	
				16.3	Middle	8.2	27.2	27.1	8.1 8.1	8.1	26.6 27.5	27.1	81.0 80.6	80.8	5.5 5.5	5.5	6.2	4.5 4.5	4.5	5.0	5.7 5.9	5.8	5.8
					Bottom	15.3	26.7 26.6	26.6	8.2 8.2	8.2	29.4 29.5	29.5	78.2	77.6	5.3 5.2	5.3	5.3	6.9 7.3	7.1		6.0 6.1	6.1	
8-Aug-14	Sunny	Moderate	12:00		Surface	1.0	29.4 29.4	29.4	8.2 8.2	8.2	16.9 16.8	16.9	78.5 79.1	78.8	5.5 5.5	5.5	5.4	3.6 3.6	3.6		2.2 2.3	2.3	
				16.5	Middle	8.3	27.1 27.1	27.1	8.1 8.1	8.1	26.3 26.4	26.3	74.7 75.0	74.9	5.2 5.3	5.2	5.4	7.4 7.2	7.3	6.2	2.7 3.3	3.0	3.1
					Bottom	15.5	26.8 26.7	26.7	8.1 8.1	8.1	27.8 27.9	27.9	72.3 73.5	72.9	5.0 5.1	5.0	5.0	7.3 7.8	7.6		3.6 4.2	3.9	
11-Aug-14	Sunny	Moderate	12:22		Surface	1.0	29.0 29.2	29.1	8.1 8.1	8.1	22.0 21.8	21.9	83.2 83.9	83.6	6.1 6.1	6.1	6.0	6.5 6.3	6.4		5.4 5.6	5.5	
				17.0	Middle	8.5	27.7 27.9	27.8	8.1 8.0	8.1	24.8 25.2	25.0	76.9 79.3	78.1	5.7 5.8	5.8	0.0	6.8 6.8	6.8	6.6	5.8 5.8	5.8	6.0
					Bottom	16.0	27.1 27.6	27.3	8.0 8.0	8.0	27.0 25.6	26.3	82.6 80.9	81.8	6.1 5.9	6.0	6.0	6.6 6.8	6.7		6.9 6.7	6.8	
13-Aug-14***	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	-	-	-		-	-	-		-	-	-		-	-	-	-	-	-
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
15-Aug-14	Sunny	Moderate	15:40		Surface	1.0	29.1 29.3	29.2	8.0 8.0	8.0	19.2 19.2	19.2	79.0 79.3	79.2	5.4 5.5	5.5	5.2	5.6 5.7	5.7		4.1 3.9	4.0	
				17.0	Middle	8.5	28.0 27.9	27.9	7.9 7.9	7.9	22.2 22.2	22.2	69.1 69.1	69.1	4.8 4.8	4.8	0.2	6.3 6.1	6.2	6.2	4.3 4.5	4.4	4.6
					Bottom	16.0	27.9 27.8	27.9	7.9 7.9	7.9	22.5 22.4	22.5	67.2 66.5	66.9	4.7 4.6	4.6	4.6	6.7 6.8	6.8		5.0 5.7	5.4	
18-Aug-14	Sunny	Moderate	08:01		Surface	1.0	29.1 29.2	29.2	8.0 8.0	8.0	13.8 13.8	13.8	81.4 82.9	82.2	5.8 5.9	5.8	5.5	4.3 4.2	4.3		3.0 2.9	3.0	
				16.1	Middle	8.1	28.0 28.1	28.1	7.9 7.9	7.9	21.6 21.4	21.5	75.1 74.7	74.9	5.2 5.2	5.2		6.1 5.9	6.0	5.6	3.9 4.0	4.0	3.6
					Bottom	15.1	26.1 25.9	26.0	7.9 7.9	7.9	25.9 28.8	27.3	73.8 74.4	74.1	5.1 5.1	5.1	5.1	6.3 6.4	6.4		3.6 3.9	3.8	
20-Aug-14	Rainy	Moderate	10:25		Surface	1.0	28.6 28.6	28.6	8.2 8.2	8.2	13.3 13.2	13.2	90.1 87.5	88.8	6.5 6.3	6.4	5.8	3.7 4.0	3.9		5.8 6.7	6.3	
				16.4	Middle	8.2	27.0 27.0	27.0	8.0 8.0	8.0	25.4 25.5	25.4	72.7 75.3	74.0	5.0 5.2	5.1		6.1 6.2	6.2	5.5	5.1 6.4	5.8	5.8
					Bottom	15.4	26.9 26.6	26.8	8.0 8.0	8.0	27.1 27.5	27.3	70.3 71.1	70.7	4.9 4.9	4.9	4.9	6.4 6.3	6.4		4.9 5.9	5.4	

* DA: Depth-Averaged

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

Water Quality Monitoring Results at CS4 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samplir	ng	Tempera	ature (°C)	p	ĥ	Salinit	y (ppt)	DO Satu	ration (%)	Dissolv	ved Oxyger	ı (mg/L)	Т	urbidity(NTL	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth (I	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
22-Aug-14	Sunny	Moderate	12:10		Surface	1.0	29.5 29.6	29.5	8.0 8.0	8.0	11.7 11.4	11.6	78.8 80.4	79.6	5.6 5.8	5.7	5.4	4.8 4.4	4.6		3.0 3.0	3.0	
				16.2	Middle	8.1	27.1 26.9	27.0	7.9 7.9	7.9	24.0 24.4	24.2	73.8 73.5	73.7	5.2 5.1	5.1	5.4	6.7 6.6	6.7	6.7	3.1 2.9	3.0	3.0
					Bottom	15.2	27.0 27.0	27.0	7.8 7.9	7.9	25.0 24.4	24.7	72.0 71.9	72.0	5.0 5.0	5.0	5.0	8.8 9.0	8.9		2.9 3.3	3.1]
25-Aug-14	Sunny	Moderate	13:59		Surface	1.0	29.6 29.6	29.6	8.1 8.1	8.1	16.5 16.4	16.5	75.1 76.1	75.6	5.2 5.3	5.3	5.2	5.4 5.3	5.4		2.2 2.3	2.3	
				16.1	Middle	8.1	27.3 27.2	27.3	8.0 8.0	8.0	22.9 23.2	23.1	73.2 72.7	73.0	5.1 5.1	5.1	0.2	5.6 5.5	5.6	5.5	3.0 2.5	2.8	2.7
					Bottom	15.1	27.3 27.0	27.1	8.0 8.0	8.0	23.2 24.2	23.7	72.0 72.5	72.3	5.0 5.1	5.0	5.0	5.4 5.4	5.4		3.1 2.6	2.9	
27-Aug-14	Sunny	Moderate	13:31		Surface	1.0	27.6 27.9	27.8	8.1 8.1	8.1	21.1 20.5	20.8	73.3 74.4	73.9	5.4 5.4	5.4	5.3	6.6 6.3	6.5		5.5 4.1	4.8	
				15.0	Middle	7.5	27.4 27.4	27.4	8.1 8.1	8.1	22.7 21.6	22.2	71.8 71.3	71.6	5.1 5.4	5.2	5.5	6.6 6.5	6.6	6.5	5.9 5.2	5.6	5.3
					Bottom	14.0	27.4 27.2	27.3	8.1 8.1	8.1	22.6 23.7	23.2	74.2 76.9	75.6	5.2 5.7	5.4	5.4	6.5 6.4	6.5		5.6 5.2	5.4	
29-Aug-14	Sunny	Moderate	14:14		Surface	1.0	28.9 28.4	28.6	8.1 8.1	8.1	20.8 21.3	21.0	84.7 80.2	82.5	5.8 5.5	5.7	5.5	6.8 7.2	7.0		4.6 5.9	5.3	
				16.7	Middle	8.4	27.1 27.1	27.1	8.1 8.1	8.1	24.6 24.6	24.6	75.9 76.0	76.0	5.3 5.3	5.3	5.5	12.0 12.7	12.4	10.5	5.4 5.1	5.3	5.1
					Bottom	15.7	27.1 27.1	27.1	8.1 8.1	8.1	24.6 24.7	24.7	78.7 79.5	79.1	5.5 5.5	5.5	5.5	11.8 12.4	12.1		4.2 5.1	4.7	

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

Remarks:

* DA: Depth-Averaged

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

Water Quality Monitoring Results at CS4 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ing	Tempera	ature (°C)	p	н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	(mg/L)	L L	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*
1-Aug-14	Sunny	Moderate	10:20		Surface	1.0	29.8 29.8	29.8	8.1 8.1	8.1	15.3 15.2	15.2	80.4 79.7	80.1	5.6 5.6	5.6	5 4	4.0 4.0	4.0		2.7 2.9	2.8	
				17.1	Middle	8.6	28.5 28.6	28.5	8.0 8.0	8.0	23.4 23.0	23.2	76.7 76.7	76.7	5.2 5.2	5.2	5.4	4.2 4.1	4.2	4.2	3.3 3.4	3.4	3.3
					Bottom	16.1	28.5 28.5	28.5	8.0 8.0	8.0	23.4 23.4	23.4	70.7	70.0	4.8	4.8	4.8	4.5 4.3	4.4		3.8	3.8	1
4-Aug-14	Sunny	Moderate	13:29		Surface	1.0	29.8 30.3	30.0	8.2 8.2	8.2	14.7 13.7	14.2	74.2 78.5	76.4	5.5 5.6	5.5		6.6 6.3	6.5		3.2 2.9	3.1	
				16.5	Middle	8.3	27.4 27.5	27.4	8.1 8.1	8.1	27.2 26.5	26.9	77.5	76.4	5.6 5.5	5.6	5.6	6.1 6.4	6.3	6.4	3.2 3.2	3.2	3.4
					Bottom	15.5	27.4	27.6	8.1 8.1	8.1	27.2 26.3	26.7	71.3	71.2	5.3 5.1	5.2	5.2	6.2 6.5	6.4		4.2	3.9	
6-Aug-14	Sunny	Moderate	15:27		Surface	1.0	29.5 29.5	29.5	8.3 8.3	8.3	13.9 14.5	14.2	84.0 86.3	85.2	5.9 6.1	6.0		5.4 5.2	5.3		3.2 3.8	3.5	
				16.1	Middle	8.1	26.9 27.6	27.3	8.1 8.2	8.2	28.0 27.1	27.5	85.4 81.5	83.5	5.9 5.5	5.7	5.9	6.1 6.2	6.2	6.2	4.3 4.6	4.5	4.5
					Bottom	15.1	26.8 26.7	26.7	8.1 8.1	8.1	28.3 28.6	28.4	73.0 72.3	72.7	5.0 4.9	5.0	5.0	6.9 7.3	7.1		5.5	5.5	1
8-Aug-14	Sunny	Moderate	17:15		Surface	1.0	29.9 30.1	30.0	8.2 8.1	8.2	15.8 15.7	15.8	82.9 84.7	83.8	5.8 5.9	5.8		6.7 6.9	6.8		3.2 3.4	3.3	
				16.7	Middle	8.4	29.0 28.9	28.9	8.1 8.1	8.1	21.8 20.3	21.0	79.3 78.4	78.9	5.5 5.4	5.5	5.7	6.7 6.7	6.7	6.7	3.3 3.6	3.5	3.4
					Bottom	15.7	28.0 28.0	28.0	8.1 8.1	8.1	22.6 22.5	22.5	74.4 73.8	74.1	5.1 5.1	5.1	5.1	6.7 6.6	6.7		3.2 3.6	3.4	
11-Aug-14	Sunny	Moderate	07:06		Surface	1.0	28.0 28.0	28.0	8.1 8.1	8.1	23.5 23.6	23.6	76.8 76.7	76.8	5.7 5.7	5.7	5.7	15.8 15.3	15.6		19.5 19.9	19.7	
				17.2	Middle	8.6	27.9 27.9	27.9	8.1 8.1	8.1	23.8 23.8	23.8	76.4 76.3	76.4	5.7 5.7	5.7	5.7	15.6 15.6	15.6	15.6	19.5 20.4	20.0	19.7
					Bottom	16.2	27.9 27.9	27.9	8.1 8.1	8.1	23.8 23.8	23.8	76.6 76.6	76.6	5.7 5.7	5.7	5.7	15.6 15.4	15.5		19.6 19.1	19.4	
13-Aug-14	Rainy	Moderate	08:51		Surface	1.0	28.0 27.9	28.0	8.0 8.0	8.0	22.5 22.6	22.6	82.7 82.2	82.5	5.7 5.7	5.7	5.7	8.3 8.2	8.3		13.1 13.2	13.2	
				18.0	Middle	9.0	27.7 27.8	27.7	8.0 8.0	8.0	23.3 23.3	23.3	82.2 82.7	82.5	5.7 5.7	5.7	0.7	8.2 8.5	8.4	8.4	14.0 14.3	14.2	12.9
					Bottom	17.0	27.8 27.6	27.7	8.0 8.0	8.0	24.6 24.2	24.4	81.5 81.4	81.5	5.6 5.6	5.6	5.6	8.5 8.4	8.5		11.2 11.1	11.2	
15-Aug-14	Sunny	Moderate	10:44		Surface	1.0	28.5 28.4	28.4	8.0 8.0	8.0	20.0 20.0	20.0	72.2 72.5	72.4	5.0 5.0	5.0	4.8	6.1 5.8	6.0		4.3 4.7	4.5	
				16.6	Middle	8.3	27.6 27.6	27.6	7.9 7.9	7.9	22.7 22.7	22.7	65.8 65.9	65.9	4.6 4.6	4.6		6.6 6.7	6.7	6.7	5.2 6.0	5.6	5.5
					Bottom	15.6	27.4 27.5	27.5	7.9 7.9	7.9	23.1 23.2	23.1	63.7 63.6	63.7	4.4 4.4	4.4	4.4	7.2 7.5	7.4		6.2 6.6	6.4	
18-Aug-14	Sunny	Moderate	12:51		Surface	1.0	29.6 29.6	29.6	8.0 8.0	8.0	13.6 13.9	13.7	83.9 85.3	84.6	5.9 6.0	6.0	5.6	4.6 4.4	4.5		2.0 2.0	2.0	_
				16.7	Middle	8.4	27.9 28.1	28.0	7.9 7.9	7.9	22.6 23.3	23.0	73.5 73.5	73.5	5.1 5.1	5.1		7.3 7.1	7.2	6.4	1.9 1.8	1.9	2.1
					Bottom	15.7	27.4 27.3	27.4	7.9 7.9	7.9	24.2 24.4	24.3	73.4 72.6	73.0	5.0 5.0	5.0	5.0	7.5 7.2	7.4		2.1 2.4	2.3	
20-Aug-14	Rainy	Moderate	16:16		Surface	1.0	28.6 28.6	28.6	8.1 8.0	8.1	13.2 15.0	14.1	85.5 85.7	85.6	6.2 6.1	6.1	5.7	4.9 5.2	5.1		5.0 4.9	5.0	_
				16.2	Middle	8.1	27.6 28.1	27.8	7.9 8.0	8.0	21.2 20.4	20.8	74.8 74.0	74.4	5.2 5.2	5.2		5.4 5.0	5.2	5.3	4.1 4.4	4.3	4.8
					Bottom	15.2	27.2 27.2	27.2	7.9 7.9	7.9	24.9 24.9	24.9	71.6 71.1	71.4	4.9 4.9	4.9	4.9	5.5 5.8	5.7		5.6 4.3	5.0	

Remarks:

* DA: Depth-Averaged

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

Water Quality Monitoring Results at CS4 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Sampling	g	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	ו)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
22-Aug-14	Sunny	Moderate	17:21		Surface	1.0	29.5 29.4	29.5	7.9 7.9	7.9	12.5 12.6	12.6	87.7 86.6	87.2	6.3 6.2	6.2	5.9	6.4 6.1	6.3		4.1 4.2	4.2	
				16.3	Middle	8.2	27.1 27.0	27.0	7.9 7.8	7.9	23.6 23.9	23.8	78.6 79.0	78.8	5.6 5.6	5.6	5.5	7.3 7.0	7.2	7.8	5.7 5.6	5.7	5.5
					Bottom 1	15.3	27.1 27.2	27.1	7.8 7.9	7.8	23.9 23.5	23.7	70.5 70.9	70.7	4.9 4.9	4.9	4.9	10.2 9.6	9.9		6.8 6.3	6.6	
25-Aug-14	Sunny	Moderate	18:41		Surface	1.0	30.0 29.9	29.9	8.2 8.2	8.2	14.9 15.1	15.0	89.6 91.1	90.4	6.3 6.4	6.3	5.9	4.3 4.5	4.4		3.2 3.2	3.2	
				16.5	Middle 8	8.3	27.5 29.3	28.4	8.1 8.2	8.1	22.0 19.3	20.7	94.6 77.8	86.2	5.6 5.4	5.5	0.0	4.6 4.5	4.6	4.5	2.9 3.1	3.0	3.2
					Bottom 1	15.5	26.4 26.5	26.4	8.1 8.1	8.1	26.4 25.8	26.1	76.1 75.7	75.9	5.3 5.3	5.3	5.3	4.5 4.6	4.6		3.2 3.8	3.5	
27-Aug-14	Sunny	Moderate	08:15		Surface	1.0	27.2 27.3	27.2	8.1 8.1	8.1	24.1 23.5	23.8	79.5 73.6	76.6	5.8 5.1	5.5	5.5	6.8 6.5	6.7		4.1 4.9	4.5	
				16.7	Middle 8	8.4	27.1 27.1	27.1	8.1 8.1	8.1	24.5 24.5	24.5	76.6 71.1	73.9	5.4 5.5	5.4	5.5	6.2 6.8	6.5	6.5	5.1 5.3	5.2	5.3
					Bottom 1	15.7	27.3 27.2	27.2	8.1 8.1	8.1	24.1 24.4	24.2	72.3 77.8	75.1	5.0 5.7	5.4	5.4	6.3 6.5	6.4		5.8 6.4	6.1	
29-Aug-14	Sunny	Moderate	09:27		Surface	1.0	27.9 27.9	27.9	8.1 8.1	8.1	20.7 20.6	20.7	78.8 78.7	78.8	5.5 5.5	5.5	5.4	15.0 14.6	14.8		4.1 3.9	4.0	
				16.9	Middle 8	8.5	27.0 27.0	27.0	8.1 8.1	8.1	25.3 25.4	25.3	75.1 75.4	75.3	5.2 5.2	5.2	5.4	12.8 13.0	12.9	14.0	3.4 3.5	3.5	4.0
					Bottom 1	15.9	27.0 27.0	27.0	8.1 8.1	8.1	25.4 25.4	25.4	76.1 75.5	75.8	5.3 5.2	5.2	5.2	14.4 13.9	14.2		4.3 4.5	4.4	1

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

Remarks:

* DA: Depth-Averaged

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

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

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	/ed Oxygen	(mg/L)	Т	urbidity(NT	U)	Suspe	nded Solids	, (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*
1-Aug-14	Sunny	Moderate	15:50		Surface	1.0	30.0 30.1	30.0	7.9 8.1	8.0	19.8 19.6	19.7	87.9 89.0	88.5	6.0 6.0	6.0	5.6	2.6 2.4	2.5		1.9 1.6	1.8	
				13.1	Middle	6.6	28.7 27.1	27.9	7.9 7.9	7.9	24.0 28.9	26.4	75.0 74.4	74.7	5.1 5.1	5.1	5.0	3.3 3.1	3.2	2.9	1.7 1.7	1.7	1.8
					Bottom	12.1	27.3 28.2	27.8	7.9 7.9	7.9	28.0 27.8	27.9	73.5 71.6	72.6	5.0 4.9	4.9	4.9	2.9 3.1	3.0		1.9 1.9	1.9	
4-Aug-14	Sunny	Moderate	18:39		Surface	1.0	30.6 30.7	30.7	8.4 8.3	8.3	18.6 18.1	18.3	134.8 141.6	138.2	9.1 9.6	9.3	7.0	2.5 2.5	2.5		2.9 2.6	2.8	
				12.4	Middle	6.2	27.9 27.6	27.8	7.8 7.9	7.9	26.1 26.2	26.1	74.9 75.8	75.4	5.1 5.2	5.2	7.3	2.6 2.5	2.6	2.6	3.5 3.7	3.6	4.1
					Bottom	11.4	25.6 25.7	25.6	7.8 7.9	7.8	31.4 31.3	31.4	73.5 75.9	74.7	5.0 5.2	5.1	5.1	2.7 2.6	2.7		5.8 5.7	5.8	
6-Aug-14	Sunny	Moderate	08:42		Surface	1.0	28.8 28.7	28.7	8.6 8.5	8.5	21.3 21.6	21.5	90.6 87.2	88.9	6.2 6.0	6.1	5.0	1.9 2.0	2.0		2.1 2.3	2.2	
				12.4	Middle	6.2	27.1 26.6	26.8	8.5 8.5	8.5	28.3 28.0	28.2	73.5 72.8	73.2	5.1 5.1	5.1	5.6	3.0 2.9	3.0	2.7	3.1 3.4	3.3	2.8
					Bottom	11.4	26.1 26.0	26.1	8.5 8.4	8.5	30.2 30.3	30.2	73.2 71.8	72.5	5.0 4.9	5.0	5.0	3.0 3.1	3.1		2.8 2.9	2.9	
8-Aug-14	Sunny	Moderate	10:34		Surface	1.0	28.9 28.8	28.9	8.3 8.1	8.2	18.7 18.7	18.7	81.6 82.4	82.0	5.7 5.7	5.7	5.4	5.1 5.0	5.1		2.2 2.0	2.1	
				13.4	Middle	6.7	27.5 27.8	27.6	8.2 7.8	8.0	24.9 24.2	24.5	75.2 74.3	74.8	5.2 5.1	5.1	5.4	4.6 4.9	4.8	5.0	3.3 3.2	3.3	3.0
					Bottom	12.4	27.4 27.4	27.4	8.2 8.0	8.1	25.4 25.1	25.3	71.1 72.2	71.7	4.9 5.0	4.9	4.9	4.8 5.2	5.0		3.6 3.8	3.7	
11-Aug-14	Sunny	Moderate	13:20		Surface	1.0	28.7 28.6	28.6	8.2 8.2	8.2	23.2 23.2	23.2	82.0 81.2	81.6	5.6 5.6	5.6	5.4	8.2 8.6	8.4		3.7 3.8	3.8	
				13.4	Middle	6.7	27.7 27.7	27.7	8.2 8.3	8.2	25.3 25.1	25.2	74.6 76.9	75.8	5.1 5.2	5.2	0.1	10.8 10.4	10.6	10.1	5.1 5.1	5.1	5.0
					Bottom	12.4	27.7 27.7	27.7	8.3 8.2	8.2	25.1 25.4	25.2	73.0 70.9	72.0	5.0 4.9	4.9	4.9	11.4 11.2	11.3		6.2 5.9	6.1	
13-Aug-14***	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
				-	Middle	-	-	-	-	-	-	-	-	-	-	-		-	-	=	-	-	
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
15-Aug-14	Sunny	Moderate	16:16		Surface	1.0	28.5 28.4	28.4	7.8 7.8	7.8	22.1 22.2	22.2	72.7 73.4	73.1	5.1 5.1	5.1	5.1	8.1 8.3	8.2		11.8 11.8	11.8	
				12.1	Middle	6.1	27.5 27.5	27.5	7.8 7.8	7.8	25.3 24.6	25.0	72.4 72.1	72.3	5.0 5.0	5.0		8.4 8.5	8.5	8.4	13.5 13.6	13.6	13.4
					Bottom	11.1	26.7 26.8	26.7	7.8 7.8	7.8	28.0 27.2	27.6	68.4 69.2	68.8	4.8 4.9	4.9	4.9	8.5 8.4	8.5		14.7 14.6	14.7	
18-Aug-14	Sunny	Moderate	06:56		Surface	1.0	29.3 29.2	29.2	7.8	7.8	16.4 16.6	16.5	81.3 81.6	81.5	5.7 5.7	5.7	5.6	3.5 3.8	3.7		1.8 1.7	1.8	
				13.4	Middle	6.7	28.3 28.2	28.2	7.7	7.7	21.8 22.2	22.0	80.7 78.2	79.5	5.6 5.4	5.5		3.8 4.2	4.0	3.9	1.8 1.7	1.8	1.9
					Bottom	12.4	28.4 28.2	28.3	7.7 7.7	7.7	22.8 22.3	22.5	72.6 74.5	73.6	5.0 5.1	5.1	5.1	4.1 <u>3.8</u>	4.0		2.2 2.2	2.2	
20-Aug-14	Rainy	Moderate	09:26		Surface	1.0	28.8 28.8	28.8	8.0 8.0	8.0	15.0 15.3	15.1	90.0 84.7	87.4	6.4 6.0	6.2	5.7	3.2 3.3	3.3		2.8 4.0	3.4	
				12.6	Middle	6.3	27.9 27.9	27.9	7.9	7.8	22.2	22.3	75.4	74.7	5.2 5.0	5.1		3.5 3.5	3.5	3.5	4.0 2.5	3.3	3.4
					Bottom	11.6	25.7 26.1	25.9	7.6 7.8	7.7	30.3 28.7	29.5	68.3 75.0	71.7	4.7 5.2	4.9	4.9	3.6 3.8	3.7		3.5 3.3	3.4	

* DA: Depth-Averaged

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

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

Date	Weather	Sea	Sampling	Water	Sampling	Te	mperature (°C)		pН	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)) Va	lue Averag	e Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
22-Aug-14	Sunny	Moderate	10:57		Surface 1		8.6 28.6	7.9 7.9	7.9	15.2 15.1	15.1	72.3 72.7	72.5	5.2 5.2	5.2	5.2	3.7 3.7	3.7		3.8 3.3	3.6	
				12.4	Middle 6	52	8.0 8.0 28.0	7.9 7.9	7.9	18.7 18.8	18.8	70.9 71.2	71.1	5.1 5.1	5.1	5.2	4.0 3.8	3.9	3.9	4.1 4.1	4.1	3.9
					Bottom 1		5.1 26.0	7.9 7.9	7.9	28.6 28.9	28.7	69.9 70.4	70.2	4.9 5.0	4.9	4.9	4.1 4.2	4.2		4.0 4.2	4.1	
25-Aug-14	Sunny	Moderate	12:40		Surface 1	1.0 2 2	0.1 3.8 28.9	7.9 7.9	7.9	20.1 20.1	20.1	79.3 79.4	79.4	5.5 5.5	5.5	5.4	4.3 4.0	4.2		0.5 0.5	0.5	
				13.5	Middle 6		7.4 7.3 27.4	7.9 7.8	7.9	23.3 23.6	23.5	75.0 74.4	74.7	5.2 5.2	5.2	5.5	8.2 8.9	8.6	6.4	1.9 1.8	1.9	1.7
					Bottom 12	25	7.8 7.3 27.6	7.9 7.8	7.9	23.4 23.7	23.5	69.7 71.6	70.7	4.8 4.9	4.9	4.9	6.4 6.6	6.5		2.3 3.1	2.7	
27-Aug-14	Sunny	Moderate	14:12		Surface 1	1.0 2 2	7.7 7.7 27.7	8.1 8.0	8.1	23.8 23.9	23.9	75.3 75.1	75.2	5.2 5.2	5.2	5.2	4.9 5.0	5.0		6.5 6.9	6.7	
				12.3	Middle 6	5.2 2 2	5.7 26.8	8.0 8.0	8.0	25.5 25.8	25.6	74.0 74.1	74.1	5.1 5.1	5.1	5.2	5.5 5.6	5.6	5.5	9.0 8.4	8.7	8.9
					Bottom 1		5.3 5.0 26.2	8.0 8.0	8.0	29.0 29.7	29.3	70.6 73.4	72.0	4.8 5.0	4.9	4.9	5.9 5.8	5.9		11.1 11.3	11.2	
29-Aug-14	Sunny	Moderate	15:11		Surface 1	0	7.6 7.8 27.7	7.9 7.9	7.9	25.7 25.5	25.6	79.1 80.7	79.9	5.5 5.6	5.6	5.4	8.5 8.5	8.5		3.6 3.6	3.6	
				12.2	Middle 6		5.9 26.8 5.7	7.9 7.9	7.9	26.7 26.9	26.8	76.3 73.0	74.7	5.4 5.1	5.2	5.4	8.6 8.6	8.6	8.6	5.4 5.0	5.2	4.9
					Bottom 1	12	7.0 5.2 26.6	7.9 7.9	7.9	29.3 30.0	29.7	79.2 73.7	76.5	5.5 5.1	5.3	5.3	8.7 8.7	8.7		5.9 6.1	6.0	

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

Remarks:

* DA: Depth-Averaged

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

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

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Г	Furbidity(NT	J)	Suspe	nded Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
1-Aug-14	Sunny	Moderate	08:49		Surface	1.0	29.5 29.5	29.5	8.0 8.0	8.0	18.9 18.9	18.9	84.8 84.1	84.5	5.8 5.8	5.8		1.6 1.6	1.6		1.9 2.3	2.1	
				13.3	Middle	6.7	28.3 28.3	28.3	8.0 8.0	8.0	23.8 23.9	23.9	73.3 76.1	74.7	5.0 5.2	5.1	5.5	1.9 1.8	1.9	1.8	2.0 2.3	2.2	2.6
					Bottom	12.3	28.3 28.4	28.3	8.0 8.0	8.0	24.0 23.9	24.0	79.5	78.7	5.4 5.3	5.4	5.4	2.0	2.0		3.2 3.5	3.4	
4-Aug-14	Sunny	Moderate	12:20		Surface	1.0	30.4 30.3	30.3	7.8 7.9	7.9	18.4 18.5	18.5	89.9 92.7	91.3	6.1 6.3	6.2		4.7	4.8		2.7 2.5	2.6	
				12.6	Middle	6.3	27.3 27.5	27.4	7.7	7.7	26.4 26.8	26.6	76.1 74.9	75.5	5.2 5.1	5.2	5.7	4.9 5.1 5.3	5.2	6.1	3.4 3.4	3.4	3.2
					Bottom	11.6	25.1	25.1	7.6	7.6	32.4 32.3	32.3	74.5	73.9	5.1	5.1	5.1	8.1	8.2		3.5	3.6	
6-Aug-14	Sunny	Moderate	16:32		Surface	1.0	25.1 29.1	29.1	7.6	8.5	21.9	21.8	73.3	108.6	5.0 7.2	7.4		8.2 3.2	3.3		3.6	1.6	
				12.7	Middle	6.4	29.2 25.7	26.1	8.5 8.5	8.5	21.8 30.5	30.0	111.5 73.8	74.3	7.6 5.1	5.2	6.3	3.3 8.3	8.5	6.7	1.6 3.4	3.4	2.8
					Bottom	11.7	26.4 25.3	25.4	8.5 8.5	8.5	29.6 32.0	31.9	74.8 73.9	71.4	5.3 5.1	4.9	4.9	8.6 8.4	8.4		3.4 3.6	3.4	
8-Aug-14	Sunny	Moderate	18:07		Surface	1.0	25.5 29.4	29.5	8.5 8.2	8.2	<u>31.8</u> 20.2	20.1	<u>68.8</u> 95.6	96.0	4.7 6.5	6.6		8.4 3.3	3.2		3.2 1.9	1.8	<u> </u>
				13.8	Middle	6.9	29.5 26.7	26.7	8.2 8.0	8.0	20.0 28.1	28.1	96.4 81.7	83.2	6.6 5.6	5.7	6.2	3.0 5.3	5.3	4.5	1.6 2.7	2.6	2.7
					Bottom	12.8	26.7 26.8	26.6	8.0 8.1	8.1	28.2 28.4	28.5	84.6 70.5	70.8	5.8 4.8	4.8	4.8	5.2 5.2	5.1		2.4 3.8	3.7	
11-Aug-14	Sunny	Moderate	05:59		Surface	1.0	26.4 27.9	27.6	8.0 8.2	8.2	28.6 23.8	24.9	71.0 83.9	82.6	4.9 5.8	5.7		5.0 9.5	10.0		3.5 4.4	4.3	
				13.6	Middle	6.8	27.3 25.9	26.0	8.2 8.2	8.2	26.1 29.7	29.7	81.2 73.8	75.2	5.6 5.1	5.2	5.5	10.4 11.2	11.0	11.6	4.1 5.3	5.3	4.9
				1010	Bottom	12.6	26.0 26.0	26.0	8.2 8.2	8.2	29.7 29.6	29.7	76.6 80.4	77.9	5.3 5.5	5.4	5.4	10.8 13.8	13.7		5.2 5.2	5.1	
13-Aug-14	Rainy	Moderate	07:50		Surface	12.0	25.9 27.1	27.0	8.2 7.9	7.8	29.7 26.5	26.5	75.3 79.2	78.9	5.2 5.4	5.4	0.4	13.5 12.2	12.3		5.0 1.9	1.8	
				13.4	Middle	6.7	26.9 26.3	26.3	7.8 7.8	7.8	26.5 28.4	28.6	78.6 77.7	75.5	5.4 5.3	5.2	5.3	12.4 13.3	13.5	13.6	1.6 2.7	2.6	2.7
				10.4	Bottom	12.4	26.3 26.3	26.3	7.9 7.7	7.8	28.7 28.3	28.5	73.2 74.5	75.0	5.0 5.1	5.1	5.1	13.7 14.5	14.9	10.0	2.4 3.8	3.7	2
15-Aug-14	Sunny	Moderate	09:51		Surface	12.4	26.3 28.3	28.4	7.8 7.8	7.8	28.7 20.6	20.5	75.4 72.0	72.8	5.2 5.1	5.2	5.1	15.2 10.2	10.4		3.5 4.5	4.6	
-				12.6	Middle	6.3	28.5 27.6	27.6	7.7 7.7	7.7	20.5 23.9	20.5	73.6 72.2	72.0	5.3 5.1	5.2	5.2	10.5 11.7	10.4	11.2	4.6 5.2	5.4	5.4
				12.0	Bottom	11.6	27.6 27.6	27.8	7.8 7.7	7.7	23.7 23.9	23.8	70.0 79.4	74.0	5.0 5.6	5.3	5.3	11.5 11.4	11.5	11.2	5.6 6.0	6.1	5.4
18-Aug-14	Sunny	Moderate	13:43				27.9 29.9	29.9	7.7 8.1	8.0	23.7 17.4		68.5 90.2	93.9	4.9 6.2		5.5	11.5 3.1	-		6.1 1.2		<u> </u>
°,	,			10.0	Surface	1.0	29.9 26.7		8.0 7.9		17.4 27.9	17.4	97.5 76.0		6.7 5.2	6.5	5.9	2.9 5.3	3.0	4.0	1.1 1.6	1.2	4.5
				13.6	Middle	6.8	26.7 26.5	26.7	7.8	7.8	28.0 29.3	27.9	75.3 70.1	75.7	5.2 4.8	5.2		5.5 5.3	5.4	4.6	1.5 1.6	1.6	1.5
20-Aug-14	Rainy	Moderate	17:17		Bottom	12.6	26.5 28.5	26.5	7.8	7.8	<u>29.3</u> 17.1	29.3	71.5	70.8	4.9 5.6	4.8	4.8	5.4	5.4		1.8	1.7	
201.0g 14	. can y	modorato			Surface	1.0	28.6	28.6	8.0 7.9	8.0	15.9 26.4	16.5	83.0 76.4	81.5	5.0 5.9 5.2	5.8	5.5	7.7	7.7		3.6 3.1	3.7	
				12.1	Middle	6.1	26.7 25.0	26.7	7.9	7.9	27.1 32.0	26.8	75.9	76.2	5.1 5.1	5.2		7.7	7.7	7.7	3.6 3.2	3.4	3.5
					Bottom	11.1	25.0 25.2	25.1	7.8 7.9	7.9	32.0 31.8	31.9	68.4	71.8	5.1 4.7	4.9	4.9	7.8	7.8		3.2	3.4	

Remarks:

* DA: Depth-Averaged

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

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

Date	Weather	Sea	Sampling	Water	Samplir	ng	Tempera	ature (°C)	F	н	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ved Oxyger	i (mg/L)	Т	urbidity(NTL	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth (r	m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
22-Aug-14	Sunny	Moderate	18:28		Surface	1.0	28.9 28.9	28.9	8.0 8.0	8.0	17.1 17.0	17.0	79.2 76.6	77.9	5.6 5.4	5.5	5.3	3.3 3.3	3.3		1.2 1.3	1.3	
				12.5	Middle	6.3	26.5 26.4	26.5	8.0 8.0	8.0	26.9 27.2	27.0	72.0 70.6	71.3	5.1 5.1	5.1	5.5	6.1 5.8	6.0	5.3	3.1 3.0	3.1	2.6
					Bottom	11.5	26.0 25.6	25.8	8.0 8.0	8.0	29.4 29.7	29.5	70.1 70.9	70.5	4.9 5.0	5.0	5.0	6.5 6.5	6.5		3.3 3.2	3.3	
25-Aug-14	Sunny	Moderate	19:48		Surface	1.0	29.0 29.1	29.0	8.0 8.0	8.0	19.0 18.8	18.9	80.8 80.9	80.9	5.6 5.6	5.6	5.4	3.6 3.3	3.5		2.9 3.2	3.1	
				13.6	Middle	6.8	27.0 26.9	26.9	7.9 8.0	7.9	25.5 25.6	25.5	74.5 73.8	74.2	5.1 5.1	5.1	5.4	6.7 7.2	7.0	5.8	3.6 3.6	3.6	3.8
					Bottom	12.6	26.9 26.9	26.9	8.0 7.8	7.9	25.7 25.7	25.7	71.0 70.1	70.6	4.9 4.8	4.9	4.9	6.7 7.1	6.9		4.3 5.2	4.8	
27-Aug-14	Sunny	Moderate	06:32		Surface	1.0	27.5 27.5	27.5	8.0 7.9	8.0	23.6 23.7	23.7	73.3 74.1	73.7	5.1 5.1	5.1	5.1	5.3 5.0	5.2		3.1 3.1	3.1	
				12.8	Middle	6.4	26.1 26.0	26.1	8.0 8.0	8.0	28.3 28.6	28.5	73.4 72.9	73.2	5.1 5.1	5.1	5.1	6.2 6.3	6.3	6.0	5.0 5.7	5.4	4.5
					Bottom	11.8	25.9 26.3	26.1	7.9 8.0	7.9	29.0 28.9	29.0	72.1 72.5	72.3	5.0 5.0	5.0	5.0	6.4 6.7	6.6		5.1 5.1	5.1	
29-Aug-14	Sunny	Moderate	08:19		Surface	1.0	27.7 27.6	27.7	7.8 7.8	7.8	23.4 23.1	23.2	81.5 80.1	80.8	5.7 5.7	5.7	5.6	9.8 10.1	10.0		3.8 2.6	3.2	
				12.6	Middle	6.3	26.6 26.8	26.7	7.8 7.8	7.8	25.8 25.8	25.8	77.8 74.6	76.2	5.5 5.3	5.4	5.0	10.2 10.1	10.2	10.2	4.8 4.6	4.7	4.5
					Bottom	11.6	26.2 26.5	26.4	7.8 7.8	7.8	28.5 28.3	28.4	74.4 75.5	75.0	5.2 5.3	5.3	5.3	10.2 10.3	10.3		5.8 5.2	5.5	

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

Remarks:

* DA: Depth-Averaged

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

Water Quality Monitoring Results at CS6 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	ł	ъH	Salini	ity (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	(mg/L)	1	Furbidity(NT	J)	Suspe	ended Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
1-Aug-14	Sunny	Moderate	16:47		Surface	1.0	30.3 30.7	30.5	8.2 8.2	8.2	16.2 15.3	15.8	92.4 91.5	92.0	6.4 6.3	6.3	5.8	2.2 2.1	2.2		2.0 2.4	2.2	
				10.0	Middle	5.0	28.6 28.7	28.7	8.1 8.1	8.1	23.3 23.1	23.2	78.5 78.4	78.5	5.3 5.3	5.3	5.0	2.1 2.2	2.2	2.2	2.2 2.5	2.4	2.5
					Bottom	9.0	27.7 27.6	27.6	8.1 8.1	8.1	26.1 25.1	25.6	75.8 75.6	75.7	5.2 5.2	5.2	5.2	2.1 2.2	2.2		2.8 2.7	2.8	
4-Aug-14	Sunny	Moderate	19:30		Surface	1.0	30.2 30.3	30.2	8.4 8.4	8.4	16.6 16.6	16.6	77.6 79.8	78.7	5.7 5.9	5.8	5.0	4.7 4.1	4.4		3.3 3.3	3.3	
				8.6	Middle	4.3	29.3 29.3	29.3	8.3 8.2	8.2	20.3 20.4	20.3	78.4 79.8	79.1	5.9 6.0	5.9	5.9	4.4 4.8	4.6	4.5	2.8 3.1	3.0	3.2
					Bottom	7.6	27.8 27.2	27.5	8.1 8.2	8.1	25.6 27.2	26.4	72.1 72.1	72.1	5.3 5.3	5.3	5.3	4.4 4.6	4.5		3.2 3.3	3.3	
6-Aug-14	Sunny	Moderate	08:05		Surface	1.0	28.5 28.8	28.7	8.3 8.3	8.3	21.5 20.5	21.0	90.5 89.2	89.9	6.2 6.2	6.2	5.0	1.5 1.5	1.5		4.1 4.2	4.2	
				10.1	Middle	5.1	27.1 27.3	27.2	8.2 8.2	8.2	27.1 26.8	27.0	78.0 79.8	78.9	5.3 5.5	5.4	5.8	1.2 1.1	1.2	1.3	3.9 3.7	3.8	4.5
					Bottom	9.1	27.0 27.1	27.1	8.2 8.2	8.2	27.5 27.2	27.3	79.0 80.9	80.0	5.4 5.5	5.5	5.5	1.2 1.2	1.2		5.1 5.6	5.4	
8-Aug-14	Sunny	Moderate	10:21		Surface	1.0	28.5 28.7	28.6	8.2 8.2	8.2	17.0 18.7	17.8	78.4 76.3	77.4	5.5 5.3	5.4	5.3	2.3 2.5	2.4		2.4 2.2	2.3	
				10.1	Middle	5.1	27.2 27.4	27.3	8.2 8.2	8.2	25.3 24.7	25.0	78.0 73.4	75.7	5.4 5.1	5.2	5.5	2.9 2.8	2.9	2.7	3.5 3.4	3.5	3.3
					Bottom	9.1	27.2 27.0	27.1	8.2 8.1	8.2	25.4 25.7	25.6	76.3 74.2	75.3	5.3 5.1	5.2	5.2	2.8 2.8	2.8		3.9 4.0	4.0	
11-Aug-14	Sunny	Moderate	14:02		Surface	1.0	28.1 27.9	28.0	8.1 8.1	8.1	23.7 24.3	24.0	80.7 78.5	79.6	5.9 5.8	5.9	5.7	6.4 6.6	6.5		8.5 8.4	8.5	
				10.0	Middle	5.0	27.5 27.7	27.6	8.1 8.1	8.1	25.3 25.1	25.2	73.7 75.7	74.7	5.5 5.6	5.5	0.1	6.8 6.9	6.9	7.2	8.2 8.2	8.2	8.4
					Bottom	9.0	27.0 27.2	27.1	8.1 8.1	8.1	26.8 26.2	26.5	74.8 73.8	74.3	5.5 5.5	5.5	5.5	8.3 8.2	8.3		8.4 8.4	8.4	
13-Aug-14***	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
				-	Middle	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
15-Aug-14	Sunny	Moderate	17:04		Surface	1.0	28.7 28.6	28.7	8.0 8.0	8.0	20.4 20.5	20.5	73.2 72.9	73.1	5.1 5.0	5.0	4.8	5.5 5.7	5.6		3.6 3.6	3.6	_
				10.0	Middle	5.0	27.5 27.5	27.5	8.0 7.9	8.0	23.9 23.9	23.9	64.9 64.0	64.5	4.5 4.4	4.5		5.8 5.9	5.9	6.0	5.7 5.8	5.8	5.6
					Bottom	9.0	26.4 26.4	26.4	8.0 7.8	7.9	27.4 27.4	27.4	61.2 62.0	61.6	4.2 4.3	4.3	4.3	6.6 6.3	6.5		7.3 7.3	7.3	
18-Aug-14	Sunny	Moderate	06:16		Surface	1.0	29.0 29.1	29.0	8.1 8.1	8.1	16.4 14.6	15.5	83.3 86.1	84.7	5.9 6.1	6.0	5.7	1.9 1.8	1.9		3.3 3.2	3.3	4
				10.0	Middle	5.0	28.7 28.4	28.6	8.0 8.0	8.0	17.6 18.9	18.2	78.0 77.1	77.6	5.5 5.4	5.4		1.7 1.7	1.7	1.8	3.9 4.1	4.0	3.9
00.4 - 41	Deite	Madaaati	00.40		Bottom	9.0	28.1 28.0	28.1	8.0 8.0	8.0	21.7 22.0	21.9	78.0 79.2	78.6	5.4 5.5	5.4	5.4	1.8 1.8	1.8		4.0 4.5	4.3	<u> </u>
20-Aug-14	Rainy	Moderate	08:40		Surface	1.0	28.2 28.3	28.3	8.2 8.2	8.2	15.9 16.0	16.0	79.8 80.7	80.3	5.7 5.8	5.7	5.6	1.4 1.5	1.5		3.8 3.8	3.8	4
				9.7	Middle	4.9	27.3 27.2	27.2	8.1 8.1	8.1	23.1 23.3	23.2	79.0 78.2	78.6	5.5 5.5	5.5		1.3 1.4	1.4	1.4	3.4 3.3	3.4	3.8
					Bottom	8.7	27.1 27.0	27.1	8.1 8.1	8.1	23.8 24.2	24.0	76.2 74.6	75.4	5.3 5.2	5.3	5.3	1.4 1.4	1.4		4.5 4.1	4.3	

Remarks:

* DA: Depth-Averaged

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

Water Quality Monitoring Results at CS6 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampling	Tem	erature (°C)		pН	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ved Oxyger	i (mg/L)	Т	urbidity(NTL	J)	Suspe	nded Solids	; (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth (m)	Valu	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
22-Aug-14	Sunny	Moderate	10:24		Surface 1	.0 27.9 28.1	28.0	8.0 8.0	8.0	18.0 17.4	17.7	79.7 82.0	80.9	5.7 5.8	5.7	5.5	1.4 1.3	1.4		2.2 2.5	2.4	
				9.7	Middle 4	.9 26.8 26.6	26.7	8.0 8.0	8.0	24.8 24.6	24.7	74.2 74.9	74.6	5.2 5.2	5.2	5.5	1.4 1.4	1.4	1.5	2.1 2.6	2.4	2.7
					Bottom 8	26.4 26.4	26.4	8.0 8.0	8.0	25.7 25.8	25.8	76.4 73.5	75.0	5.3 5.1	5.2	5.2	1.5 1.6	1.6		3.2 3.5	3.4	
25-Aug-14	Sunny	Moderate	12:10		Surface 1	.0 28.6 28.1	28.3	8.1 8.1	8.1	19.4 20.1	19.8	76.7 75.2	76.0	5.3 5.3	5.3	5.3	2.3 2.2	2.3		2.4 2.6	2.5	
				10.4	Middle 5	.2 26.2 26.3	26.3	8.1 8.1	8.1	25.2 25.4	25.3	74.1 73.9	74.0	5.2 5.2	5.2	0.0	3.5 3.4	3.5	3.2	3.2 2.5	2.9	2.8
					Bottom 9	.4 25.5 25.5	25.5	8.1 8.1	8.1	29.0 29.0	29.0	73.0 72.8	72.9	5.1 5.1	5.1	5.1	3.7 3.9	3.8		2.8 2.9	2.9	
27-Aug-14	Sunny	Moderate	15:11		Surface 1	.0 27.8 27.1	27.5	8.2 8.2	8.2	21.9 22.3	22.1	73.3 75.7	74.5	5.5 5.5	5.5	5.5	2.5 2.3	2.4		3.8 3.0	3.4	
				9.4	Middle 4	.7 27.2 27.3	27.3	8.2 8.2	8.2	26.4 24.0	25.2	75.5 74.3	74.9	5.7 5.4	5.5	5.5	2.4 2.4	2.4	2.4	3.8 3.8	3.8	3.6
					Bottom 8	.4 27.4 27.6	27.5	8.2 8.2	8.2	23.9 24.0	23.9	73.2 74.5	73.9	5.5 5.4	5.4	5.4	2.3 2.2	2.3		3.6 3.3	3.5	
29-Aug-14	Sunny	Moderate	15:38		Surface 1	.0 28.4	28.4	8.2 8.1	8.2	23.6 23.6	23.6	83.7 83.7	83.7	5.7 5.7	5.7	5.6	2.1 2.2	2.2		4.4 4.1	4.3	
				10.3	Middle 5	6.2 27.0 26.7	26.8	8.1 8.2	8.1	26.3 27.4	26.9	81.2 80.2	80.7	5.6 5.5	5.5	5.0	2.3 2.2	2.3	2.3	4.9 4.0	4.5	4.8
					Bottom 9	0.3 26.7 26.5	26.6	8.1 8.2	8.1	27.5 27.9	27.7	83.1 82.3	82.7	5.7 5.7	5.7	5.7	2.5 2.3	2.4		5.7 5.7	5.7	

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

Remarks:

* DA: Depth-Averaged

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

Water Quality Monitoring Results at 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	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*
1-Aug-14	Sunny	Moderate	08:46		Surface	1.0	29.3 29.4	29.3	8.1 8.1	8.1	18.8 18.9	18.9	74.0 75.9	75.0	5.1 5.2	5.2	5.2	2.3 2.2	2.3		1.6 1.7	1.7	
				10.3	Middle	5.2	28.7 28.6	28.6	8.1 8.1	8.1	21.8 21.8	21.8	74.5 73.5	74.0	5.1 5.1	5.1	5.2	2.3 2.3	2.3	2.3	3.1 3.0	3.1	2.8
					Bottom	9.3	27.9 27.2	27.5	8.0 8.0	8.0	26.4 27.1	26.8	72.1 72.0	72.1	5.0 4.9	5.0	5.0	2.3 2.2	2.3		3.7 3.5	3.6	
4-Aug-14	Sunny	Moderate	12:08		Surface	1.0	28.7 28.8	28.8	8.2 8.2	8.2	21.8 21.6	21.7	70.2 73.2	71.7	5.0 5.3	5.2	5.4	4.5 4.9	4.7		2.6 2.8	2.7	
				10.0	Middle	5.0	27.4 27.6	27.5	8.1 8.1	8.1	26.2 26.1	26.2	76.3 77.5	76.9	5.5 5.7	5.6	5.4	4.5 4.8	4.7	4.7	3.1 3.0	3.1	3.0
					Bottom	9.0	25.9 26.1	26.0	8.1 8.1	8.1	30.0 29.7	29.9	78.6 74.5	76.6	5.8 5.6	5.7	5.7	4.4 4.7	4.6		3.2 3.1	3.2	
6-Aug-14	Sunny	Moderate	17:10		Surface	1.0	28.8 28.9	28.9	8.4 8.4	8.4	21.5 21.4	21.5	109.2 111.9	110.6	7.4 7.7	7.6		1.5 1.4	1.5		3.0 3.1	3.1	
				10.3	Middle	5.2	26.7 26.5	26.6	8.1 8.2	8.2	28.2 28.4	28.3	90.3 91.0	90.7	6.2 6.2	6.2	6.9	1.8 1.9	1.9	1.8	3.4 3.6	3.5	3.8
					Bottom	9.3	26.6 26.3	26.5	8.1 8.2	8.2	28.5 29.5	29.0	72.6 71.9	72.3	5.0 4.9	4.9	4.9	1.9 2.1	2.0		4.7 4.9	4.8	
8-Aug-14	Sunny	Moderate	19:06		Surface	1.0	29.0 29.0	29.0	8.2 8.2	8.2	19.4 19.5	19.5	82.5 81.8	82.2	5.7 5.7	5.7	5.4	1.8 1.7	1.8		2.0 2.1	2.1	
				10.2	Middle	5.1	26.3 26.8	26.6	8.1 8.1	8.1	27.3 26.1	26.7	75.2 75.9	75.6	5.1 5.2	5.1	5.4	3.6 3.5	3.6	3.0	3.0 3.0	3.0	2.8
					Bottom	9.2	26.1 25.9	26.0	8.1 8.1	8.1	29.1 29.6	29.4	74.3 75.1	74.7	5.0 5.1	5.1	5.1	3.6 3.5	3.6		3.1 3.3	3.2	
11-Aug-14	Sunny	Moderate	05:40		Surface	1.0	26.9 26.9	26.9	8.1 8.1	8.1	26.7 26.5	26.6	69.6 69.8	69.7	5.2 5.2	5.2	5.2	7.9 7.4	7.7		4.7 4.7	4.7	
				10.4	Middle	5.2	26.4 26.5	26.5	8.1 8.1	8.1	27.7 27.5	27.6	67.1 68.4	67.8	5.0 5.1	5.1	5.2	7.9 7.6	7.8	7.8	5.4 5.1	5.3	5.4
					Bottom	9.4	26.3 26.0	26.1	8.1 8.1	8.1	28.7 29.4	29.1	68.0 68.0	68.0	5.1 5.1	5.1	5.1	7.8 7.9	7.9		6.0 6.5	6.3	
13-Aug-14	Rainy	Moderate	07:35		Surface	1.0	26.5 26.6	26.6	8.0 8.0	8.0	27.7 27.6	27.6	73.2 73.5	73.4	5.0 5.1	5.0	5.0	6.9 6.8	6.9		5.9 5.9	5.9	
				10.5	Middle	5.3	26.6 26.5	26.6	8.0 8.0	8.0	27.6 27.7	27.6	73.4 73.2	73.3	5.1 5.0	5.0	3.0	7.0 7.1	7.1	7.0	7.5 7.6	7.6	7.3
					Bottom	9.5	26.6 26.5	26.6	8.0 8.0	8.0	27.6 27.6	27.6	73.4 73.1	73.3	5.1 5.0	5.0	5.0	7.0 7.1	7.1		8.3 8.4	8.4	
15-Aug-14	Sunny	Moderate	09:20		Surface	1.0	28.0 28.1	28.1	8.0 8.0	8.0	20.6 20.6	20.6	68.5 68.1	68.3	4.8 4.8	4.8	4.7	4.3 4.5	4.4		2.2 2.4	2.3	
				9.8	Middle	4.9	27.7 27.6	27.6	8.0 8.0	8.0	22.4 22.5	22.4	65.0 64.7	64.9	4.5 4.5	4.5		5.2 5.3	5.3	5.1	5.3 5.0	5.2	4.2
					Bottom	8.8	27.2 27.2	27.2	7.9 7.9	7.9	24.7 24.6	24.6	64.6 64.5	64.6	4.5 4.5	4.5	4.5	5.7 5.6	5.7		5.1 5.1	5.1	
18-Aug-14	Sunny	Moderate	14:33		Surface	1.0	28.9 28.9	28.9	8.1 8.0	8.1	18.2 18.1	18.2	81.9 84.3	83.1	5.7 5.9	5.8	5.5	1.6 1.6	1.6		1.6 1.6	1.6	
				10.2	Middle	5.1	28.2 28.3	28.3	8.0 8.0	8.0	21.6 21.5	21.5	72.4 71.1	71.8	5.1 5.0	5.1		1.7 1.7	1.7	1.9	1.8 1.8	1.8	2.0
					Bottom	9.2	26.3 25.9	26.1	8.0 8.0	8.0	29.5 30.4	30.0	68.3 69.9	69.1	4.7 4.9	4.8	4.8	2.4 2.4	2.4		2.2 2.7	2.5	<u> </u>
20-Aug-14	Rainy	Moderate	17:57		Surface	1.0	28.1 28.1	28.1	8.0 8.0	8.0	16.0 16.5	16.3	86.3 88.2	87.3	6.2 6.3	6.2	5.7	1.8 2.0	1.9		4.4 4.4	4.4	
				9.8	Middle	4.9	26.8 26.6	26.7	8.0 8.0	8.0	25.1 26.4	25.8	74.4 73.6	74.0	5.1 5.1	5.1	-	2.7 2.9	2.8	2.6	2.6 2.9	2.8	3.8
					Bottom	8.8	26.3 26.4	26.4	7.9 7.9	7.9	27.5 27.1	27.3	69.6 68.6	69.1	4.8 4.8	4.8	4.8	3.1 3.0	3.1		4.1 4.1	4.1	

* DA: Depth-Averaged

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

Water Quality Monitoring Results at CS6 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Sampli	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*
22-Aug-14	Sunny	Moderate	18:56		Surface	1.0	29.1 29.1	29.1	7.9 7.9	7.9	16.1 15.8	15.9	82.3 84.4	83.4	5.8 5.9	5.9	5.7	2.1 2.0	2.1		3.2 3.1	3.2	
				10.3	Middle	5.2	25.8 25.7	25.7	7.9 7.9	7.9	28.5 28.9	28.7	77.0 78.3	77.7	5.4 5.6	5.5	5.7	3.8 3.8	3.8	3.3	3.3 3.4	3.4	3.3
					Bottom	9.3	25.5 25.4	25.5	7.9 7.9	7.9	29.5 29.5	29.5	72.5 71.5	72.0	5.0 5.1	5.0	5.0	4.0 4.2	4.1		3.3 3.1	3.2	
25-Aug-14	Sunny	Moderate	20:34		Surface	1.0	28.3 28.4	28.4	8.2 8.2	8.2	19.9 19.9	19.9	74.9 76.7	75.8	5.3 5.3	5.3	5.2	3.3 3.2	3.3		1.5 2.3	1.9	
				10.6	Middle	5.3	26.1 26.0	26.1	8.1 8.1	8.1	26.9 27.5	27.2	72.2 71.5	71.9	5.1 5.1	5.1	0.2	5.5 5.8	5.7	4.9	2.5 2.1	2.3	2.4
					Bottom	9.6	25.7 25.7	25.7	8.1 8.1	8.1	28.5 28.6	28.6	71.9 71.7	71.8	5.1 5.0	5.0	5.0	5.5 5.6	5.6		3.1 2.7	2.9	
27-Aug-14	Sunny	Moderate	06:31		Surface	1.0	27.6 27.6	27.6	8.1 8.1	8.1	22.1 22.2	22.2	70.1 71.5	70.8	5.0 5.2	5.1	5.2	2.5 2.1	2.3		4.5 4.6	4.6	
				10.0	Middle	5.0	27.2 27.2	27.2	8.1 8.1	8.1	24.2 23.3	23.7	70.8 73.2	72.0	5.1 5.2	5.2	5.2	2.1 2.3	2.2	2.2	4.7 4.9	4.8	5.0
					Bottom	9.0	27.4 27.2	27.3	8.1 8.1	8.1	24.1 24.1	24.1	70.1 76.0	73.1	5.1 5.5	5.3	5.3	2.1 2.3	2.2		5.4 5.7	5.6	
29-Aug-14	Sunny	Moderate	07:49		Surface	1.0	27.4 27.4	27.4	8.1 8.1	8.1	23.9 24.0	23.9	79.9 79.9	79.9	5.5 5.5	5.5	5.5	4.2 4.5	4.4		5.8 5.9	5.9	
				10.4	Middle	5.2	27.2 27.2	27.2	8.1 8.1	8.1	24.3 24.3	24.3	78.0 77.7	77.9	5.4 5.4	5.4	5.5	5.2 5.0	5.1	4.9	6.2 6.6	6.4	6.1
					Bottom	9.4	27.2 27.2	27.2	8.1 8.1	8.1	24.4 24.3	24.4	78.3 78.4	78.4	5.4 5.4	5.4	5.4	5.3 5.1	5.2		5.8 6.1	6.0	

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

Remarks:

* DA: Depth-Averaged

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

Water Quality Monitoring Results at CSA - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampl	ling	Tempera	ature (°C)	p	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	(mg/L)	1	Turbidity(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*
1-Aug-14	Sunny	Moderate	16:56		Surface	1.0	30.0 30.5	30.2	8.2 8.2	8.2	17.2 16.3	16.8	90.5 90.2	90.4	6.2 6.2	6.2	5.7	2.2 2.2	2.2		1.8 1.8	1.8	
				34.3	Middle	17.2	28.5 28.0	28.2	8.1 8.1	8.1	23.8 24.5	24.1	74.3 74.9	74.6	5.1 5.1	5.1	5.7	2.2 2.2	2.2	2.2	1.8 2.1	2.0	2.6
					Bottom	33.3	26.6 26.0	26.3	8.1 8.1	8.1	27.4 29.7	28.5	70.5 70.4	70.5	4.9 4.8	4.8	4.8	2.3 2.3	2.3		3.6 4.2	3.9	
4-Aug-14	Sunny	Moderate	19:42		Surface	1.0	30.0 30.0	30.0	8.4 8.4	8.4	18.9 18.8	18.9	76.9 75.4	76.2	5.7 5.5	5.6	5.0	4.8 4.5	4.7		4.4 4.4	4.4	
				33.8	Middle	16.9	29.7 30.0	29.9	8.4 8.4	8.4	19.1 18.8	19.0	75.5 76.3	75.9	5.6 5.6	5.6	5.6	4.3 4.6	4.5	4.6	5.3 5.4	5.4	4.8
					Bottom	32.8	30.0 30.3	30.1	8.4 8.4	8.4	18.8 19.6	19.2	74.5 79.9	77.2	5.6 5.9	5.7	5.7	4.7 4.4	4.6		4.7 4.6	4.7	
6-Aug-14	Sunny	Moderate	07:50		Surface	1.0	28.7 28.5	28.6	8.3 8.3	8.3	20.4 20.8	20.6	93.7 97.9	95.8	6.5 6.8	6.6	5.9	1.4 1.5	1.5		4.8 5.1	5.0	
				34.8	Middle	17.4	27.0 26.9	26.9	8.2 8.1	8.2	27.5 27.9	27.7	76.2 74.3	75.3	5.2 5.1	5.1	5.9	1.4 1.4	1.4	1.4	5.2 5.2	5.2	5.3
					Bottom	33.8	26.9 26.8	26.8	8.2 8.1	8.2	27.9 28.2	28.1	78.6 76.0	77.3	5.4 5.2	5.3	5.3	1.3 1.3	1.3		5.2 5.9	5.6	
8-Aug-14	Sunny	Moderate	10:12		Surface	1.0	28.9 29.0	28.9	8.2 8.2	8.2	16.5 16.8	16.6	76.9 80.9	78.9	5.4 5.7	5.5	5.3	2.4 2.5	2.5		2.4 2.2	2.3	
				34.8	Middle	17.4	26.6 26.8	26.7	8.1 8.2	8.2	27.1 26.5	26.8	74.3 73.8	74.1	5.1 5.1	5.1	5.5	3.1 2.9	3.0	2.8	2.4 2.5	2.5	2.7
					Bottom	33.8	26.5 26.5	26.5	8.1 8.1	8.1	28.5 27.4	28.0	70.8 72.8	71.8	4.9 5.0	4.9	4.9	2.8 2.9	2.9		3.0 3.4	3.2	
11-Aug-14	Sunny	Moderate	14:12		Surface	1.0	28.1 28.2	28.2	8.1 8.1	8.1	23.7 23.6	23.7	77.7 78.0	77.9	5.7 5.8	5.7	5.5	7.3 7.4	7.4		7.2 7.1	7.2	
				34.1	Middle	17.1	26.9 26.8	26.8	8.1 8.1	8.1	26.9 26.9	26.9	69.0 69.9	69.5	5.2 5.2	5.2	0.0	7.5 7.6	7.6	7.7	7.2 7.5	7.4	7.7
					Bottom	33.1	27.0 26.7	26.8	8.0 8.0	8.0	28.3 28.7	28.5	75.2 73.4	74.3	5.5 5.4	5.5	5.5	8.1 7.9	8.0		8.2 8.5	8.4	
13-Aug-14***	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
				-	Middle	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
15-Aug-14	Sunny	Moderate	17:18		Surface	1.0	28.8 28.8	28.8	8.0 8.0	8.0	20.1 20.2	20.2	73.3 73.0	73.2	5.1 5.0	5.1	4.8	5.5 5.9	5.7		6.4 6.9	6.7	
				35.0	Middle	17.5	27.6 27.6	27.6	8.0 8.0	8.0	27.5 27.6	27.6	64.1 64.2	64.2	4.4 4.4	4.4	-	6.6 6.2	6.4	6.6	6.8 6.8	6.8	6.7
					Bottom	34.0	26.4 26.5	26.4	8.0 8.0	8.0	28.8 28.9	28.8	60.1 60.5	60.3	4.1 4.2	4.2	4.2	7.6 7.8	7.7		6.7 6.7	6.7	<u> </u>
18-Aug-14	Sunny	Moderate	06:06		Surface	1.0	28.9 29.0	29.0	8.0 8.1	8.1	17.4 15.5	16.4	80.2 83.9	82.1	5.6 5.9	5.8	5.5	1.7 1.9	1.8		2.8 2.8	2.8	
				34.7	Middle	17.4	27.1 27.8	27.5	8.0 8.0	8.0	24.9 22.5	23.7	73.8 73.2	73.5	5.1 5.1	5.1		2.2 2.2	2.2	2.1	3.0 3.5	3.3	3.1
					Bottom	33.7	26.4 26.7	26.5	8.0 8.0	8.0	27.4 28.1	27.7	71.6 71.9	71.8	5.0 5.0	5.0	5.0	2.4 2.2	2.3		3.0 3.3	3.2	<u> </u>
20-Aug-14	Rainy	Moderate	08:27		Surface	1.0	28.5 28.5	28.5	8.1 8.1	8.1	15.2 15.5	15.3	85.5 82.8	84.2	6.1 5.9	6.0	5.6	1.6 1.7	1.7		3.6 4.0	3.8	l
				34.7	Middle	17.4	26.2 26.0	26.1	8.0 8.0	8.0	26.7 27.9	27.3	72.9 73.3	73.1	5.1 5.1	5.1		2.3 2.4	2.4	2.2	3.5 3.9	3.7	3.6
					Bottom	33.7	26.1 25.9	26.0	8.0 7.9	8.0	27.9 28.9	28.4	71.0 70.6	70.8	4.9 4.9	4.9	4.9	2.5 2.6	2.6		2.8 3.7	3.3	

Remarks:

* DA: Depth-Averaged

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

Water Quality Monitoring Results at CSA - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampling	Tempe	rature (°C)	1	ъН	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ved Oxyger	i (mg/L)	Т	urbidity(NTL	J)	Suspe	nded Solids	; (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth (m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
22-Aug-14	Sunny	Moderate	10:11		Surface 1.0	28.0 28.1	28.0	8.0 8.0	8.0	17.6 17.5	17.6	84.0 83.3	83.7	6.0 5.9	5.9	5.6	1.5 1.4	1.5		4.0 3.8	3.9	
				34.6	Middle 17.	3 26.2 26.2	26.2	8.0 8.0	8.0	26.7 26.5	26.6	73.0 72.4	72.7	5.2 5.1	5.2	5.0	1.5 1.5	1.5	1.8	3.6 4.0	3.8	4.3
					Bottom 33.	6 26.0 26.0	26.0	8.0 8.0	8.0	27.8 27.6	27.7	69.9 70.0	70.0	4.9 4.9	4.9	4.9	2.3 2.4	2.4		5.1 5.1	5.1	
25-Aug-14	Sunny	Moderate	12:03		Surface 1.0	28.3 28.3	28.3	8.1 8.1	8.1	19.8 19.8	19.8	75.6 75.4	75.5	5.3 5.3	5.3	5.2	2.1 2.1	2.1		1.1 1.9	1.5	
				34.6	Middle 17.	3 25.6 25.7	25.7	8.1 8.1	8.1	29.0 29.0	29.0	73.1 73.6	73.4	5.1 5.1	5.1	5.2	2.6 2.5	2.6	2.6	3.0 3.4	3.2	2.6
					Bottom 33.	6 25.2 25.2	25.2	8.0 8.1	8.1	30.1 30.4	30.2	72.6 72.8	72.7	5.0 5.0	5.0	5.0	3.1 3.0	3.1		3.0 3.3	3.2	
27-Aug-14	Sunny	Moderate	15:21		Surface 1.0	27.1 26.5	26.8	8.1 8.1	8.1	27.6 23.9	25.7	72.5 77.5	75.0	5.2 5.7	5.5	5.6	2.4 2.3	2.4		4.9 5.1	5.0	
				33.5	Middle 16.	3 25.8 27.4	26.6	8.1 8.1	8.1	28.4 23.6	26.0	78.6 74.7	76.7	5.8 5.5	5.6	5.0	2.4 2.5	2.5	2.5	9.7 9.7	9.7	8.2
					Bottom 32.	5 25.6 27.3	26.5	8.1 8.1	8.1	28.9 23.5	26.2	75.0 78.2	76.6	5.6 5.8	5.7	5.7	2.5 2.6	2.6		10.0 9.5	9.8	
29-Aug-14	Sunny	Moderate	15:54		Surface 1.0	28.4 28.4	28.4	8.1 8.1	8.1	23.6 23.6	23.6	84.9 85.1	85.0	5.8 5.8	5.8	5.5	2.4 2.2	2.3		4.6 4.7	4.7	
				35.5	Middle 17.	3 26.4 26.4	26.4	8.1 8.1	8.1	28.1 28.1	28.1	76.1 75.6	75.9	5.2 5.2	5.2	5.5	2.3 2.4	2.4	2.4	3.7 3.7	3.7	4.4
					Bottom 34.	5 26.4 26.4	26.4	8.1 8.1	8.1	28.2 28.2	28.2	78.1 77.9	78.0	5.4 5.4	5.4	5.4	2.5 2.4	2.5		4.7 4.9	4.8	

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

Remarks:

* DA: Depth-Averaged

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

Water Quality Monitoring Results at CSA - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	1	ъH	Salini	ity (ppt)	DO Satu	ration (%)	Dissolv	ved Oxyger	(mg/L)	۲	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*
1-Aug-14	Sunny	Moderate	08:38		Surface	1.0	29.4 29.4	29.4	8.1 8.1	8.1	18.7 18.7	18.7	76.2 75.7	76.0	5.3 5.2	5.2	5.2	2.5 2.4	2.5		2.2 2.0	2.1	
				34.7	Middle	17.4	27.0 27.0	27.0	8.1 8.1	8.1	27.0 27.0	27.0	74.8 74.9	74.9	5.1 5.1	5.1	5.2	2.5 2.5	2.5	2.6	3.6 3.4	3.5	3.4
					Bottom	33.7	26.4 26.6	26.5	8.1 8.0	8.1	29.0 28.6	28.8	72.3 71.8	72.1	5.0 5.0	5.0	5.0	2.8 2.7	2.8		4.6 4.7	4.7	
4-Aug-14	Sunny	Moderate	11:41		Surface	1.0	28.8 29.0	28.9	8.2 8.2	8.2	20.6 20.4	20.5	74.5 79.5	77.0	5.6 6.0	5.8		4.5 4.5	4.5		3.0 3.1	3.1	İ
				35.0	Middle	17.5	27.8 27.6	27.7	8.1 8.1	8.1	25.0 24.8	24.9	75.3 70.2	72.8	5.5 5.2	5.4	5.6	4.4	4.5	4.4	3.3	3.1	3.2
					Bottom	34.0	27.6	28.0	8.1 8.0	8.1	25.8 22.8	24.3	75.2	73.9	5.6 5.5	5.5	5.5	4.1	4.2		3.3	3.3	1
6-Aug-14	Sunny	Moderate	17:24		Surface	1.0	28.9 29.0	28.9	8.5 8.5	8.5	21.4 22.1	21.7	104.1 102.2	103.2	7.2 7.0	7.1		2.0 1.9	2.0		3.3 3.0	3.2	
				34.8	Middle	17.4	26.0 25.9	25.9	8.1 8.1	8.1	30.3 30.3	30.3	77.2	76.8	5.3 5.2	5.3	6.2	3.4 3.4	3.4	3.2	3.8 3.8	3.8	3.8
					Bottom	33.8	25.7 25.7	25.7	8.1 8.2	8.2	30.7 30.7	30.7	69.4 72.8	71.1	4.8 5.0	4.9	4.9	4.0 4.2	4.1		4.3 4.2	4.3	
8-Aug-14	Sunny	Moderate	19:17		Surface	1.0	29.0 29.1	29.0	8.2 8.2	8.2	19.5 19.4	19.5	84.0 84.6	84.3	5.8 5.8	5.8	5.0	2.6 2.6	2.6		1.5 1.2	1.4	
				35.5	Middle	17.8	25.8 25.6	25.7	8.1 8.1	8.1	29.7 30.1	29.9	76.2 76.4	76.3	5.3 5.4	5.3	5.6	4.6 4.8	4.7	4.0	1.7 1.5	1.6	2.2
					Bottom	34.5	25.6 25.6	25.6	8.1 8.1	8.1	30.3 30.5	30.4	75.3 74.6	75.0	5.2 5.2	5.2	5.2	4.8 4.8	4.8		3.2 3.9	3.6	
11-Aug-14	Sunny	Moderate	05:33		Surface	1.0	26.9 26.9	26.9	8.1 8.1	8.1	26.5 26.6	26.6	69.8 73.8	71.8	5.2 5.5	5.4	5.3	6.9 6.8	6.9		4.6 4.5	4.6	
				34.8	Middle	17.4	26.6 25.6	26.1	8.1 8.1	8.1	27.6 30.2	28.9	71.4 68.3	69.9	5.3 5.1	5.2	5.5	6.9 6.8	6.9	7.0	5.1 5.0	5.1	5.2
					Bottom	33.8	26.5 25.9	26.2	8.1 8.1	8.1	27.7 29.9	28.8	70.8 63.8	67.3	5.3 4.8	5.0	5.0	7.1 7.2	7.2		5.9 5.7	5.8	
13-Aug-14	Rainy	Moderate	07:14		Surface	1.0	26.5 26.5	26.5	8.0 7.9	7.9	27.7 27.6	27.7	75.2 80.7	78.0	5.2 5.6	5.4	5.3	7.0 7.0	7.0		4.8 4.7	4.8	
				36.2	Middle	18.1	26.5 26.5	26.5	7.9 7.9	7.9	27.6 27.7	27.7	76.9 74.6	75.8	5.3 5.1	5.2	5.5	7.1 7.1	7.1	7.1	6.4 6.2	6.3	5.7
					Bottom	35.2	26.5 26.5	26.5	7.8 7.9	7.9	27.6 27.8	27.7	76.1 74.3	75.2	5.2 5.1	5.2	5.2	7.1 7.2	7.2		6.0 6.2	6.1	
15-Aug-14	Sunny	Moderate	09:09		Surface	1.0	28.1 28.1	28.1	8.0 8.0	8.0	20.5 20.5	20.5	67.9 67.9	67.9	4.7 4.7	4.7	4.6	3.5 3.1	3.3		6.0 5.7	5.9	
				34.8	Middle	17.4	27.4 27.4	27.4	7.9 8.0	8.0	23.6 23.5	23.6	62.8 63.0	62.9	4.4 4.4	4.4		5.3 5.2	5.3	5.1	7.2 7.4	7.3	7.3
					Bottom	33.8	26.8 26.8	26.8	7.9 7.9	7.9	26.2 26.2	26.2	59.6 60.1	59.9	4.1 4.2	4.1	4.1	6.6 6.8	6.7		8.4 8.8	8.6	
18-Aug-14	Sunny	Moderate	14:41		Surface	1.0	28.9 29.0	28.9	8.1 8.1	8.1	18.2 18.1	18.1	81.6 81.9	81.8	5.7 5.7	5.7	5.4	1.9 1.8	1.9		2.0 1.7	1.9	
				35.2	Middle	17.6	26.1 26.1	26.1	8.0 8.0	8.0	27.8 29.3	28.5	71.7 72.4	72.1	5.1 5.1	5.1		2.6 2.5	2.6	2.3	1.6 1.7	1.7	1.9
					Bottom	34.2	25.2 25.2	25.2	8.0 8.0	8.0	30.9 31.1	31.0	71.3 71.0	71.2	5.0 5.0	5.0	5.0	2.4 2.6	2.5		1.9 2.1	2.0	
20-Aug-14	Rainy	Moderate	18:12		Surface	1.0	28.1 28.2	28.2	8.1 8.1	8.1	17.0 16.3	16.7	84.0 87.6	85.8	6.0 6.2	6.1	5.6	2.0 2.0	2.0		4.5 4.0	4.3	
				35.3	Middle	17.7	26.1 26.2	26.1	8.0 7.9	8.0	28.2 28.1	28.2	75.0 74.2	74.6	5.2 5.1	5.1		3.1 3.0	3.1	2.7	3.6 3.7	3.7	3.8
					Bottom	34.3	26.1 26.1	26.1	8.0 7.9	7.9	28.3 28.3	28.3	68.0 67.8	67.9	4.8 4.8	4.8	4.8	3.0 3.2	3.1		3.1 3.7	3.4	

* DA: Depth-Averaged

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

Water Quality Monitoring Results at CSA - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samplin	ng	Tempera	ature (°C)	F	н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	i (mg/L)	Т	urbidity(NTL	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth (r	m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
22-Aug-14	Sunny	Moderate	19:10		Surface	1.0	29.2 29.1	29.1	8.1 8.1	8.1	15.5 16.0	15.7	82.5 83.2	82.9	5.8 5.9	5.8	5.7	2.5 2.2	2.4		2.4 3.9	3.2	
				35.1	Middle	17.6	25.1 25.1	25.1	7.9 8.0	8.0	30.8 30.7	30.7	78.6 78.2	78.4	5.5 5.5	5.5	5.7	5.6 5.2	5.4	4.5	3.7 3.7	3.7	3.6
					Bottom	34.1	24.9 25.0	25.0	7.9 7.9	7.9	31.3 31.2	31.2	76.7 76.9	76.8	5.4 5.4	5.4	5.4	5.5 5.7	5.6		4.1 3.8	4.0	<u> </u>
25-Aug-14	Sunny	Moderate	20:43		Surface	1.0	28.5 28.4	28.4	8.2 8.2	8.2	19.8 20.1	19.9	72.7 74.0	73.4	5.2 5.2	5.2	5.2	4.9 5.0	5.0		1.6 2.4	2.0	
				34.9	Middle	17.5	25.7 25.7	25.7	8.1 8.1	8.1	28.4 28.4	28.4	72.1 71.5	71.8	5.1 5.0	5.1	5.2	5.2 5.3	5.3	5.2	2.1 2.2	2.2	2.4
					Bottom	33.9	25.8 25.7	25.7	8.1 8.1	8.1	28.4 28.6	28.5	68.9 70.7	69.8	4.8 4.9	4.9	4.9	5.2 5.3	5.3		3.1 2.9	3.0	
27-Aug-14	Sunny	Moderate	06:22		Surface	1.0	27.5 27.5	27.5	8.1 8.1	8.1	22.7 22.6	22.7	72.7 70.9	71.8	5.1 5.2	5.1	5.2	2.4 2.4	2.4		3.0 3.4	3.2	
				35.3	Middle	17.7	27.4 27.1	27.2	8.1 8.0	8.0	23.4 26.9	25.1	71.5 71.1	71.3	5.1 5.2	5.2	5.2	2.6 2.8	2.7	2.5	4.8 5.5	5.2	5.3
					Bottom	34.3	27.5 27.3	27.4	8.1 8.1	8.1	22.7 23.6	23.1	72.9 75.9	74.4	5.1 5.3	5.2	5.2	2.4 2.6	2.5		7.7 7.5	7.6	
29-Aug-14	Sunny	Moderate	07:34		Surface	1.0	27.3 27.3	27.3	8.1 8.1	8.1	24.0 24.0	24.0	79.5 79.8	79.7	5.5 5.5	5.5	5.4	4.6 4.6	4.6		5.3 5.3	5.3	
				36.1	Middle	18.1	27.1 26.6	26.8	8.1 8.1	8.1	24.6 26.6	25.6	77.1 77.0	77.1	5.3 5.3	5.3	5.4	5.5 5.1	5.3	5.1	4.4 4.3	4.4	5.0
					Bottom	35.1	26.1 26.9	26.5	8.1 8.1	8.1	28.5 25.6	27.0	73.4 74.8	74.1	5.1 5.2	5.1	5.1	5.4 5.2	5.3		4.8 5.7	5.3	

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

Remarks:

* DA: Depth-Averaged

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

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

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	(mg/L)	1	Furbidity(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*
1-Aug-14	Sunny	Moderate	14:46		Surface	1.0	30.4 30.4	30.4	8.2 8.1	8.2	20.9 21.3	21.1	120.3 125.6	123.0	8.1 8.4	8.2	8.2	6.0 6.5	6.3		4.3 4.4	4.4	
				3.2	Middle	-	-	-	-	-	-	-	-	-	-	-	0.2	-	-	7.4	-	-	5.0
					Bottom	2.2	30.4 30.4	30.4	8.1 8.2	8.2	21.3 21.1	21.2	114.7 107.6	111.2	7.7 7.2	7.4	7.4	8.8 8.0	8.4		5.2 6.0	5.6	
4-Aug-14	Sunny	Moderate	17:38		Surface	1.0	31.4 31.5	31.5	8.5 8.5	8.5	19.4 19.5	19.4	168.9 158.4	163.7	10.5 9.8	10.2	10.2	3.7 3.6	3.7		3.9 3.6	3.8	
				3.1	Middle	-	-	-	-	-	-	-	-	-	-	-	10.2	-	-	4.0	-	-	4.2
					Bottom	2.1	31.1 31.1	31.1	8.5 8.5	8.5	19.9 19.9	19.9	149.1 148.7	148.9	9.3 9.2	9.3	9.3	4.3 4.3	4.3		4.9 4.2	4.6	
6-Aug-14	Sunny	Moderate	09:51		Surface	1.0	30.2 30.0	30.1	8.4 8.5	8.4	20.7 21.2	21.0	94.8 95.0	94.9	6.4 6.4	6.4	6.4	6.6 6.3	6.5		2.9 2.7	2.8	
				3.2	Middle	-	-	-	-	-	-	-	-	-		-	0.4	-	-	6.5	-	-	2.9
					Bottom	2.2	29.8 29.0	29.4	9.4 8.4	8.9	22.1 22.9	22.5	95.4 90.1	92.8	6.4 6.1	6.3	6.3	6.5 6.4	6.5		2.8 3.0	2.9	
8-Aug-14	Sunny	Moderate	11:50		Surface	1.0	29.1 29.5	29.3	7.9 8.0	7.9	22.1 20.7	21.4	80.8 88.4	84.6	5.5 6.0	5.8	5.8	11.0 10.5	10.8		3.3 3.4	3.4	
				3.0	Middle	•	-	-	-	-	-	-	-	-		-	5.0	-	-	11.0	-	-	4.3
					Bottom	2.0	29.2 29.0	29.1	7.9 7.8	7.9	22.5 22.6	22.5	86.0 91.3	88.7	5.8 6.2	6.0	6.0	10.9 11.2	11.1		5.2 4.9	5.1	
11-Aug-14	Sunny	Moderate	12:11		Surface	1.0	28.9 28.9	28.9	8.2 8.2	8.2	23.0 23.0	23.0	73.7 75.6	74.7	5.0 5.1	5.1	5.1	21.9 22.4	22.2		21.3 21.8	21.6	
				3.4	Middle	•	-	-	-	-	-	-	-	-		-	5.1	-	-	23.0	-	-	23.0
					Bottom	2.4	28.9 28.9	28.9	8.2 8.2	8.2	23.0 23.0	23.0	78.5 74.4	76.5	5.3 5.1	5.2	5.2	23.5 23.8	23.7		24.5 24.2	24.4	
13-Aug-14***	-	-	-		Surface	-	-	-	-	-	-	-	-	-		-	_	-	-		-	-	
				-	Middle	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	:
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
15-Aug-14	Sunny	Moderate	14:53		Surface	1.0	29.7 29.7	29.7	7.8 7.8	7.8	21.4 21.5	21.5	86.4 85.8	86.1	6.0 6.0	6.0	6.0	7.7 7.6	7.7		4.3 3.8	4.1	
				3.2	Middle	-	-	-	-	-	-	-	-	-	-	-	0.0	-	-	7.7	-	-	4.5
					Bottom	2.2	28.7 29.2	28.9	7.7 7.8	7.8	22.7 22.2	22.5	83.0 84.5	83.8	5.8 5.9	5.9	5.9	7.8 7.4	7.6		4.8 4.9	4.9	
18-Aug-14	Sunny	Moderate	08:14		Surface	1.0	29.7 29.7	29.7	7.9 7.9	7.9	18.7 18.5	18.6	91.1 91.9	91.5	6.3 6.3	6.3	6.3	8.1 8.2	8.2		2.0 2.5	2.3	
				3.1	Middle	-	-	-	-	-	-	-	-	-	-	-	0.0	-	-	8.8	-	-	2.7
					Bottom	2.1	29.5 29.7	29.6	7.9 7.9	7.9	19.9 19.7	19.8	92.0 92.0	92.0	6.3 6.3	6.3	6.3	9.2 9.3	9.3		2.9 3.3	3.1	
20-Aug-14	Rainy	Moderate	10:34		Surface	1.0	29.0 29.2	29.1	8.1 8.1	8.1	15.2 15.2	15.2	94.5 95.7	95.1	6.7 6.8	6.7	6.7	5.2 5.1	5.2		4.2 3.8	4.0	
				3.2	Middle	-	-	-	-	-	-	-	-	-		-	0.7	-	-	5.3	-	-	4.0
					Bottom	2.2	29.1 29.0	29.0	8.0 8.0	8.0	17.8 17.8	17.8	95.4 94.4	94.9	6.6 6.6	6.6	6.6	5.4 5.2	5.3		4.2 3.8	4.0	

Remarks:

* DA: Depth-Averaged

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

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

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	F	Н	Salinit	ty (ppt)	DO Satu	ration (%)	Dissol	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*
22-Aug-14	Sunny	Moderate	12:07		Surface	1.0	29.7 29.5	29.6	8.0 8.0	8.0	17.7 17.9	17.8	85.4 81.4	83.4	5.9 5.6	5.8	5.8	6.5 6.8	6.7		2.7 3.2	3.0	
				3.0	Middle	-	-	-	-	-	-	-	-	-	-	-	5.0	-	-	6.7	-	-	3.4
					Bottom	2.0	28.4 28.7	28.5	7.9 8.0	8.0	20.8 21.2	21.0	91.0 83.1	87.1	6.3 5.7	6.0	6.0	6.5 6.8	6.7		3.6 3.8	3.7	
25-Aug-14	Sunny	Moderate	14:00		Surface	1.0	28.6 28.6	28.6	8.1 8.0	8.0	20.3 20.1	20.2	96.7 102.7	99.7	6.7 7.1	6.9	6.9	10.2 10.5	10.4		5.7 5.5	5.6	
				3.1	Middle	-	-	-	-	-		-	-	-	-	-	0.5	-	-	10.6	-	-	6.2
					Bottom	2.1	28.5 28.7	28.6	8.0 8.1	8.1	21.4 21.2	21.3	91.0 87.7	89.4	6.3 6.1	6.2	6.2	11.1 10.3	10.7		6.4 6.9	6.7	
27-Aug-14	Sunny	Moderate	13:04		Surface	1.0	28.5 28.5	28.5	8.1 8.1	8.1	21.8 21.8	21.8	96.9 96.5	96.7	6.7 6.6	6.7	6.7	5.9 6.0	6.0		7.0 7.3	7.2	
				3.3	Middle	-	-	-	-	-		-	-	-	-	-	0.7	-	-	6.0	-	-	7.3
					Bottom	2.3	28.5 28.5	28.5	8.1 8.1	8.1	21.8 21.8	21.8	97.8 96.6	97.2	6.7 6.7	6.7	6.7	5.8 5.9	5.9		7.4 7.1	7.3	
29-Aug-14	Sunny	Moderate	14:07		Surface	1.0	29.4 29.4	29.4	7.9 7.9	7.9	24.4 24.4	24.4	83.2 85.6	84.4	5.6 5.7	5.6	5.6	7.4 7.2	7.3		3.0 4.2	3.6	
				3.1	Middle	-	-	-	-	-	-	-	-	-	-	-	5.0	-	-	8.2	-	-	3.8
					Bottom	2.1	28.5 28.6	28.6	7.9 7.8	7.8	24.9 24.8	24.8	83.0 86.2	84.6	5.6 5.8	5.7	5.7	8.9 9.0	9.0		3.8 3.9	3.9	

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

Remarks:

* DA: Depth-Averaged

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

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

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	i (mg/L)	٦	Furbidity(NT	J)	Suspe	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*
1-Aug-14	Sunny	Moderate	09:54		Surface	1.0	29.9 29.9	29.9	8.3 8.4	8.4	20.3 20.3	20.3	114.2 117.0	115.6	7.8 7.9	7.8	7.8	5.1 5.2	5.2		4.1 4.6	4.4	
				3.3	Middle	-	-	-	-	-	-	-	-	-	-	-	7.0	-	-	6.6	-	-	5.3
					Bottom	2.3	29.8 29.8	29.8	8.3 8.3	8.3	20.6 20.5	20.6	109.2 116.0	112.6	7.4 7.9	7.6	7.6	7.7 8.0	7.9		5.7 6.7	6.2	
4-Aug-14	Sunny	Moderate	13:36		Surface	1.0	31.5 31.3	31.4	8.4 8.3	8.4	19.2 19.2	19.2	165.9 172.1	169.0	11.0 11.3	11.2	44.0	3.5 3.6	3.6		2.4 2.4	2.4	
				3.2	Middle	-	-	-	-	-	-	-	-	-	-	-	11.2	-	-	3.6	-	-	3.1
					Bottom	2.2	30.8 31.4	31.1	8.2 8.4	8.3	19.8 19.2	19.5	153.9 176.2	165.1	10.3 11.7	11.0	11.0	3.5 3.5	3.5		4.0 3.6	3.8	
6-Aug-14	Sunny	Moderate	15:16		Surface	1.0	30.0 29.9	30.0	8.6 8.6	8.6	19.7 19.7	19.7	108.9 111.1	110.0	7.4 7.6	7.5		6.6 6.7	6.7		2.8 2.8	2.8	
				3.0	Middle	-		-	-	-	-	-	-	-	-	-	7.5	-	-	6.7		-	3.8
					Bottom	2.0	29.9 30.0	29.9	8.6 8.6	8.6	22.6 19.6	21.1	101.1 102.6	101.9	6.8 6.9	6.8	6.8	6.7 6.5	6.6		5.0 4.6	4.8	
8-Aug-14	Sunny	Moderate	17:01		Surface	1.0	30.4 30.4	30.4	8.2 8.1	8.2	20.6 20.6	20.6	134.8 127.0	130.9	9.0 8.5	8.8		9.7 9.3	9.5		4.1 4.3	4.2	
				3.2	Middle	-	-	-	-	-	-	-	-	-	-	-	8.8	-	-	10.0	-	-	4.4
					Bottom	2.2	30.5 30.3	30.4	8.2 8.0	8.1	20.6 20.7	20.6	131.8 121.5	126.7	8.8 8.2	8.5	8.5	9.9 10.8	10.4		4.4 4.6	4.5	
11-Aug-14	Sunny	Moderate	07:00		Surface	1.0	28.9 28.9	28.9	8.2 8.2	8.2	22.1 22.1	22.1	85.2 83.8	84.5	5.8 5.7	5.8		5.8 5.4	5.6		7.9	7.7	
				3.3	Middle	-	-	-	-	-	-	-	-	-	-	-	5.8	-	-	5.8	-	-	8.7
					Bottom	2.3	28.9 28.9	28.9	8.2 8.2	8.2	22.1 22.2	22.1	84.3 86.5	85.4	5.8 5.9	5.8	5.8	5.7 6.0	5.9		9.9 9.4	9.7	
13-Aug-14	Rainy	Moderate	09:22		Surface	1.0	28.5 28.5	28.5	7.8 7.8	7.8	21.8	21.8	75.5 76.7	76.1	5.2 5.3	5.2		9.4 9.1	9.3		4.1 4.3	4.2	
				3.2	Middle	-	-	-	-	-	-	-	-	-	-	-	5.2	-	-	9.3	-	-	4.4
					Bottom	2.2	28.5 28.5	28.5	7.8 7.7	7.8	21.8 21.6	21.7	76.1 80.1	78.1	5.2 5.5	5.4	5.4	9.3 9.0	9.2		4.4 4.6	4.5	
15-Aug-14	Sunny	Moderate	10:57		Surface	1.0	28.9 28.9	28.9	7.8 7.8	7.8	20.9 21.0	21.0	78.8 79.9	79.4	5.6 5.6	5.6		6.6 6.9	6.8		5.1 5.3	5.2	
				3.2	Middle	-		-		-	-	-	-	-	-	-	5.6	-	-	6.8		-	5.5
					Bottom	2.2	28.7 28.7	28.7	7.8 7.8	7.8	21.4 21.4	21.4	81.4 78.9	80.2	5.8 5.6	5.7	5.7	6.9 6.6	6.8		5.6 6.0	5.8	
18-Aug-14	Sunny	Moderate	12:35		Surface	1.0	30.3 30.4	30.4	8.0 8.0	8.0	19.6 19.5	19.6	104.1 106.3	105.2	7.0 7.2	7.1		5.0 5.3	5.2		2.7	2.7	
				3.2	Middle	-	-	-	-	-	-	-	-	-	-	-	7.1	-	-	5.9	-	-	3.2
					Bottom	2.2	29.9 30.2	30.1	7.9 8.0	7.9	20.7 20.5	20.6	99.9 105.4	102.7	6.8 7.1	6.9	6.9	6.3 6.6	6.5		3.2 3.9	3.6	
20-Aug-14	Rainy	Moderate	16:06		Surface	1.0	29.1 29.1	29.1	8.0 8.1	8.0	15.9 16.0	16.0	99.7 101.6	100.7	7.0 7.1	7.1		8.9 9.5	9.2		4.7	4.6	
				3.0	Middle	-	-	-	-	-	-	-	-	-	-	-	7.1	-	-	9.1	-	-	4.7
					Bottom	2.0	29.3 29.1	29.2	8.0 8.1	8.0	16.4 15.9	16.2	99.9 100.5	100.2	7.0 7.1	7.0	7.0	8.9 8.9	8.9		5.3 4.3	4.8	

* DA: Depth-Averaged

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

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

Date	Weather	Sea	Sampling	Water	Sampl	ing	Tempera	ature (°C)	F	Η	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*
22-Aug-14	Sunny	Moderate	17:18		Surface	1.0	29.4 29.6	29.5	8.1 8.1	8.1	18.1 18.2	18.2	92.7 95.7	94.2	6.4 6.6	6.5	6.5	16.7 16.4	16.6		2.4 2.2	2.3	
				3.2	Middle	-		-		-		-		-		-	0.5	-	-	16.7	-	-	3.0
					Bottom	2.2	28.8 28.6	28.7	8.0 7.9	8.0	21.1 21.0	21.0	93.2 93.8	93.5	6.4 6.5	6.4	6.4	16.6 16.7	16.7		3.3 4.1	3.7	
25-Aug-14	Sunny	Moderate	18:37		Surface	1.0	29.9 30.0	29.9	8.4 8.4	8.4	20.0 19.9	20.0	126.9 136.7	131.8	8.6 9.3	8.9	8.9	6.7 6.9	6.8		3.4 3.4	3.4	
				3.2	Middle	-	-	-		-	-	-	-	-	-	-	0.0	-	-	6.8	-	-	5.2
					Bottom	2.2	29.9 29.7	29.8	8.4 8.3	8.3	20.0 20.3	20.2	132.4 119.9	126.2	9.0 8.2	8.6	8.6	6.7 6.6	6.7		6.9 6.9	6.9	
27-Aug-14	Sunny	Moderate	07:32		Surface	1.0	28.4 28.4	28.4	8.1 8.1	8.1	21.7 21.7	21.7	90.8 91.1	91.0	6.3 6.3	6.3	6.3	10.1 10.1	10.1		8.2 8.0	8.1	
				3.3	Middle	-	-	-	-	-	-	-	-	-		-	0.5	-	-	10.3	-	-	10.1
					Bottom	2.3	28.4 28.4	28.4	8.1 8.1	8.1	21.7 21.7	21.7	90.7 91.7	91.2	6.3 6.3	6.3	6.3	10.3 10.4	10.4		12.0 11.9	12.0	
29-Aug-14	Sunny	Moderate	09:20		Surface	1.0	28.2 28.2	28.2	8.0 8.0	8.0	23.3 23.3	23.3	80.9 81.2	81.1	5.5 5.6	5.6	5.6	11.0 11.5	11.3		5.5 5.4	5.5	
				3.3	Middle	-	-	-	-	-	-	-	-	-		-	5.0	-	-	11.4	-	-	5.8
					Bottom	2.3	28.1 28.2	28.2	8.0 8.0	8.0	23.3 23.3	23.3	81.9 80.8	81.4	5.6 5.5	5.6	5.6	11.5 11.4	11.5		6.1 5.9	6.0	

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

Remarks:

* DA: Depth-Averaged

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

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

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	(mg/L)	Г	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*
1-Aug-14	Sunny	Moderate	15:00		Surface	1.0	30.9 31.0	30.9	8.2 8.2	8.2	21.4 21.3	21.3	136.7 131.6	134.2	9.1 8.7	8.9		5.8 5.1	5.5		3.4 3.2	3.3	
				3.7	Middle	-	-	-	-	-	-	-	-	-		-	8.9	-	-	6.0	-	-	3.3
					Bottom	2.7	30.8 30.9	30.8	8.2 8.2	8.2	21.6 21.6	21.6	124.2 134.1	129.2	8.2 8.9	8.6	8.6	6.3 6.6	6.5		3.2 3.3	3.3	
4-Aug-14	Sunny	Moderate	17:50		Surface	1.0	30.7 30.6	30.7	8.5 8.5	8.5	19.5 19.6	19.6	141.5 148.7	145.1	8.8 9.3	9.1		4.6 4.8	4.7		3.1 3.4	3.3	1
				3.6	Middle	-	-	-	-	-	-	-	-	-	-	-	9.1	-	-	4.7	-	-	4.4
					Bottom	2.6	30.4 30.2	30.3	8.5 8.4	8.5	21.0 21.8	21.4	150.9 131.0	141.0	9.4 8.1	8.8	8.8	4.7 4.6	4.7		5.3 5.4	5.4	
6-Aug-14	Sunny	Moderate	09:37		Surface	1.0	29.1 29.5	29.3	8.5 8.4	8.5	22.1 21.5	21.8	86.2 90.8	88.5	5.9 6.2	6.0		4.5 4.6	4.6		2.8 3.2	3.0	
				3.7	Middle	-	-	-	-	-	-	-	-	-	-	-	6.0	-	-	4.6	-	-	3.3
					Bottom	2.7	28.8 28.2	28.5	8.5 8.5	8.5	23.0 24.6	23.8	83.4 86.7	85.1	5.7 5.9	5.8	5.8	4.6 4.6	4.6		3.6 3.4	3.5	
8-Aug-14	Sunny	Moderate	11:34		Surface	1.0	29.6 29.6	29.6	8.4 8.2	8.3	19.8 19.8	19.8	92.5 97.6	95.1	6.3 6.7	6.5		8.2 8.1	8.2		2.9 2.4	2.7	
				3.3	Middle	-	-	-	-	-	-	-	-	-	-	-	6.5	-	-	8.7	-	-	3.2
					Bottom	2.3	29.6 29.3	29.5	8.3 8.4	8.4	20.8 21.4	21.1	95.4 93.4	94.4	6.5 6.4	6.4	6.4	9.1 9.2	9.2		3.3 4.1	3.7	
11-Aug-14	Sunny	Moderate	12:26		Surface	1.0	29.2 29.2	29.2	8.2 8.2	8.2	22.1 22.1	22.1	86.9 85.3	86.1	5.9 5.8	5.8	5.8	7.3 7.6	7.5		4.8 4.6	4.7	
				3.5	Middle	-	-	-	-	-	-	-	-	-	-	-	5.8	-	-	8.4	-	-	5.5
					Bottom	2.5	29.0 29.2	29.1	8.2 8.2	8.2	22.2 22.1	22.1	84.6 86.3	85.5	5.8 5.9	5.8	5.8	9.4 9.0	9.2		6.1 6.2	6.2	
13-Aug-14***	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
				-	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<u>-</u>	-	-	<u>-</u>
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
15-Aug-14	Sunny	Moderate	15:24		Surface	1.0	30.0 29.9	29.9	7.8 7.9	7.9	20.8 20.9	20.9	88.5 88.3	88.4	6.1 6.1	6.1	6.1	6.4 6.5	6.5		5.4 5.9	5.7	
				3.7	Middle	-	-	-	-	-	-	-	-	-	-	-	0.1	-	-	6.5	-	-	6.1
					Bottom	2.7	29.6 29.1	29.3	7.9 7.8	7.8	21.5 21.9	21.7	88.0 86.8	87.4	6.1 6.1	6.1	6.1	6.2 6.5	6.4		6.3 6.7	6.5	
18-Aug-14	Sunny	Moderate	07:58		Surface	1.0	29.6 29.7	29.7	7.9 7.9	7.9	18.4 18.5	18.4	96.4 97.6	97.0	6.6 6.7	6.7	6.7	7.0 6.7	6.9		2.1 2.8	2.5	
				3.2	Middle	-	-	-	-	-	-	-	-	-		-	0.7	-	-	8.8	-	-	3.0
					Bottom	2.2	29.7 29.7	29.7	7.9 7.8	7.9	18.6 18.6	18.6	97.2 98.4	97.8	6.7 6.8	6.7	6.7	10.2 10.9	10.6		3.4 3.4	3.4	
20-Aug-14	Rainy	Moderate	10:16		Surface	1.0	29.3 29.3	29.3	8.1 8.1	8.1	16.1 15.8	16.0	89.1 90.1	89.6	6.2 6.3	6.3	6.3	5.9 5.8	5.9		3.8 3.7	3.8	
				3.5	Middle	-	-	-	-	-	-	-	-	-	-	-	0.3	-	-	5.9	-	-	4.9
					Bottom	2.5	29.3 29.4	29.4	8.0 8.0	8.0	19.5 18.9	19.2	88.9 87.4	88.2	6.1 6.0	6.1	6.1	5.8 5.9	5.9		5.7 6.0	5.9	

Remarks:

* DA: Depth-Averaged

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

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

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	(mg/L)	Т	urbidity(NTL	J)	Suspe	nded Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
22-Aug-14	Sunny	Moderate	11:54		Surface	1.0	29.0 29.0	29.0	8.0 8.1	8.0	17.8 17.8	17.8	80.5 83.6	82.1	5.6 5.8	5.7	5.7	9.5 9.7	9.6		2.2 2.0	2.1	
				3.6	Middle	-	-	-	-	-	-	-	-	-	-	-	5.7	-	-	9.7	-	-	2.1
					Bottom	2.6	28.3 28.7	28.5	7.9 8.0	7.9	21.9 22.2	22.1	77.8 83.9	80.9	5.4 5.7	5.6	5.6	9.9 9.6	9.8		2.2 2.0	2.1	
25-Aug-14	Sunny	Moderate	13:46		Surface	1.0	29.0 29.3	29.1	8.1 8.1	8.1	19.6 19.3	19.5	94.8 97.1	96.0	6.6 6.7	6.6	6.6	7.3 6.9	7.1		3.2 3.6	3.4	
				3.4	Middle	-	-	-		-		-		-	-	-	0.0	-	-	7.7	-	-	4.6
					Bottom	2.4	28.7 28.7	28.7	8.1 8.0	8.0	20.7 20.9	20.8	95.9 92.3	94.1	6.6 6.4	6.5	6.5	8.0 8.3	8.2		5.8 5.6	5.7	
27-Aug-14	Sunny	Moderate	13:17		Surface	1.0	28.4 28.4	28.4	8.1 8.1	8.1	21.6 21.6	21.6	91.4 91.9	91.7	6.3 6.3	6.3	6.3	6.0 6.4	6.2		7.5 7.3	7.4	
				3.7	Middle	-	-	-	-	-	-	-	-	-	-	-	0.5	-	-	6.2	-	-	8.3
					Bottom	2.7	28.4 28.4	28.4	8.1 8.1	8.1	21.6 21.6	21.6	91.7 93.1	92.4	6.3 6.4	6.4	6.4	6.0 6.3	6.2		9.1 9.3	9.2	
29-Aug-14	Sunny	Moderate	14:20		Surface	1.0	29.0 29.1	29.0	8.0 8.0	8.0	24.1 24.1	24.1	90.8 90.2	90.5	6.1 6.1	6.1	6.1	5.4 5.2	5.3		4.4 4.7	4.6	
				3.7	Middle	-	-	-	• •	-	-	-	-	-	-	-	0.1	-	-	5.4	-	-	4.2
					Bottom	2.7	28.5 28.7	28.6	8.0 8.0	8.0	24.4 24.3	24.3	91.5 89.6	90.6	6.2 6.1	6.1	6.1	5.4 5.4	5.4		3.6 3.7	3.7	

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

Remarks:

* DA: Depth-Averaged

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

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

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	(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*
1-Aug-14	Sunny	Moderate	09:41		Surface	1.0	29.8 29.9	29.8	8.0 8.0	8.0	20.5 20.4	20.5	109.6 109.7	109.7	7.4 7.4	7.4	7.4	2.9 3.1	3.0		3.2 3.1	3.2	
				3.5	Middle	-	-	-	-	-		-		-	-	-	7.4	-	-	3.3	-	-	3.7
					Bottom	2.5	29.8 29.7	29.8	8.0 7.9	7.9	20.7 20.7	20.7	109.6 108.6	109.1	7.4 7.4	7.4	7.4	3.4 3.7	3.6		3.8 4.5	4.2	
4-Aug-14	Sunny	Moderate	13:22		Surface	1.0	30.3 30.4	30.4	8.2 8.2	8.2	19.4 19.3	19.4	140.1 144.2	142.2	9.4 9.7	9.6	9.6	4.7 4.6	4.7		2.9 2.8	2.9	
				3.7	Middle	-	-	-	-	-	-	-	-	-	-	-	0.0	-	-	4.7	-	-	3.3
					Bottom	2.7	30.2 30.4	30.3	8.1 8.2	8.2	20.6 20.4	20.5	128.5 132.7	130.6	8.6 9.0	8.8	8.8	4.6 4.8	4.7		3.6 3.7	3.7	
6-Aug-14	Sunny	Moderate	15:29		Surface	1.0	29.5 29.5	29.5	8.5 8.5	8.5	20.6 20.6	20.6	93.9 95.1	94.5	6.4 6.5	6.4	6.4	6.5 6.6	6.6		3.4 4.0	3.7	
				3.5	Middle	-	-	-	-	-		-		-	-	-	0.4	-	-	6.6	-	-	4.2
					Bottom	2.5	29.2 29.1	29.2	8.5 8.5	8.5	23.0 22.5	22.8	94.7 91.5	93.1	6.4 6.2	6.3	6.3	6.4 6.5	6.5		4.4 4.9	4.7	
8-Aug-14	Sunny	Moderate	17:15		Surface	1.0	30.4 30.3	30.3	8.1 8.1	8.1	20.8 20.9	20.9	130.8 126.6	128.7	8.8 8.5	8.6	8.6	6.9 7.4	7.2		5.5 4.9	5.2	
				3.4	Middle	-	-	-	-	-	-	-	-	-	-	-	0.0	-	-	7.7	-	-	5.6
					Bottom	2.4	30.2 30.2	30.2	8.1 8.0	8.0	21.2 21.1	21.1	128.2 121.7	125.0	8.6 8.2	8.4	8.4	8.4 7.7	8.1		5.7 6.3	6.0	
11-Aug-14	Sunny	Moderate	06:47		Surface	1.0	28.9 28.9	28.9	8.2 8.2	8.2	22.1 22.1	22.1	82.1 85.2	83.7	5.6 5.8	5.7	5.7	6.9 7.0	7.0		9.9 9.9	9.9	
				3.6	Middle	-	-	-	-	-	-	-	-	-	-	-	0.1	-	-	7.0	-	-	10.1
					Bottom	2.6	28.9 28.9	28.9	8.2 8.2	8.2	22.1 22.2	22.2	87.2 82.8	85.0	6.0 5.6	5.8	5.8	7.1 6.8	7.0		10.4 10.0	10.2	
13-Aug-14	Rainy	Moderate	09:02		Surface	1.0	28.4 28.4	28.4	7.8 7.9	7.8	21.6 21.7	21.7	81.6 78.8	80.2	5.6 5.4	5.5	5.5	8.3 9.0	8.7		5.5 4.9	5.2	
				3.4	Middle	-	-	-	-	-	-	-	-	-	-	-	0.0	-	-	8.6	-	-	5.6
					Bottom	2.4	28.4 28.5	28.4	7.7 7.8	7.8	21.8 22.0	21.9	83.1 79.9	81.5	5.7 5.5	5.6	5.6	8.1 8.7	8.4		5.7 6.3	6.0	
15-Aug-14	Sunny	Moderate	10:44		Surface	1.0	28.5 28.4	28.4	7.8 7.8	7.8	21.6 21.8	21.7	76.5 78.4	77.5	5.4 5.6	5.5	5.5	12.4 12.2	12.3		10.2 10.2	10.2	
				3.6	Middle	-	-	-	-	-	-	-	-	-	-	-		-	-	12.3	-	-	10.9
					Bottom	2.6	28.2 28.3	28.3	7.7 7.8	7.8	22.2 22.1	22.2	81.4 77.1	79.3	5.8 5.5	5.6	5.6	12.3 12.3	12.3		11.7 11.3	11.5	
18-Aug-14	Sunny	Moderate	12:50		Surface	1.0	30.4 30.4	30.4	8.1 8.1	8.1	18.9 19.0	18.9	111.4 110.9	111.2	7.5 7.5	7.5	7.5	6.0 5.8	5.9		2.3 2.1	2.2	
				3.4	Middle	-	-	-	-	-	-	-	-	-	-	-		-	-	6.5	-	-	2.8
					Bottom	2.4	30.3 30.3	30.3	8.0 8.0	8.0	19.1 19.1	19.1	108.4 110.8	109.6	7.3 7.5	7.4	7.4	7.0 7.2	7.1		3.1 3.5	3.3	
20-Aug-14	Rainy	Moderate	16:21		Surface	1.0	29.1 29.0	29.1	8.0 8.1	8.0	16.3 16.2	16.3	97.8 96.0	96.9	6.9 6.8	6.8	6.8	12.6 12.5	12.6		6.7 6.1	6.4	
				3.5	Middle	-	-	-	-	-		-		-	-	-	0.0	-	-	12.6	-	-	7.0
					Bottom	2.5	29.1 29.1	29.1	7.9 8.0	8.0	16.4 16.6	16.5	101.4 94.8	98.1	7.1 6.6	6.9	6.9	12.8 12.4	12.6		8.0 7.1	7.6	

Remarks:

* DA: Depth-Averaged

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

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

Date	Weather	Sea	Sampling	Water	Sampli	ing	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*
22-Aug-14	Sunny	Moderate	17:32		Surface	1.0	29.1 29.0	29.1	8.0 8.0	8.0	16.9 17.1	17.0	88.6 89.2	88.9	6.2 6.2	6.2	6.2	12.7 13.2	13.0		9.1 9.5	9.3	
				3.6	Middle	-	-	-	-	-	-	-	-	-	-	-	0.2	-	-	13.3	-	-	9.1
					Bottom	2.6	29.0 28.7	28.9	8.0 7.9	7.9	19.7 18.4	19.0	89.3 88.4	88.9	6.2 6.2	6.2	6.2	13.7 13.4	13.6		8.9 8.9	8.9	
25-Aug-14	Sunny	Moderate	18:53		Surface	1.0	29.9 29.8	29.9	8.4 8.4	8.4	19.8 19.9	19.9	134.1 132.4	133.3	9.1 9.0	9.1	9.1	6.0 6.5	6.3		4.0 4.5	4.3	
				3.3	Middle	-	-	-		-	-	-	-	-		-	5.1	-	-	7.6	-	-	5.5
					Bottom	2.3	29.7 29.8	29.8	8.3 8.3	8.3	20.4 20.7	20.5	131.7 133.5	132.6	8.9 9.1	9.0	9.0	8.6 9.0	8.8		6.4 6.8	6.6	
27-Aug-14	Sunny	Moderate	07:18		Surface	1.0	28.3 28.4	28.3	8.1 8.1	8.1	21.7 21.7	21.7	85.0 88.2	86.6	5.9 6.1	6.0	6.0	5.5 5.5	5.5		5.6 5.9	5.8	
				3.5	Middle	-	-	-	-	-	-	-	-	-	-	-	0.0	-	-	5.5	-	-	6.9
					Bottom	2.5	28.3 28.4	28.3	8.1 8.1	8.1	21.7 21.7	21.7	83.3 86.7	85.0	5.8 6.0	5.9	5.9	5.3 5.6	5.5		8.0 7.9	8.0	
29-Aug-14	Sunny	Moderate	09:06		Surface	1.0	27.9 27.9	27.9	7.9 7.9	7.9	23.3 23.2	23.3	76.9 77.6	77.3	5.3 5.4	5.3	5.3	6.4 6.4	6.4		5.5 5.9	5.7	
				3.7	Middle	-	-	-	-	-	-	-	-	-	-	-	5.5	-	-	6.4	-	-	5.5
					Bottom	2.7	27.8 27.8	27.8	7.9 7.9	7.9	23.3 23.3	23.3	77.2 78.5	77.9	5.3 5.4	5.4	5.4	6.5 6.3	6.4		4.9 5.4	5.2	

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

Remarks:

* DA: Depth-Averaged

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

Water Quality Monitoring Results at IS10 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampl	ing	Tempera	ature (°C)	F	ъH	Salini	ity (ppt)	DO Satu	ration (%)	Dissolv	ved Oxyger	(mg/L)	۲	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*
1-Aug-14	Sunny	Moderate	15:49		Surface	1.0	30.0 29.7	29.8	8.2 8.2	8.2	15.8 16.5	16.1	84.1 86.8	85.5	5.8 6.0	5.9	5.6	2.5 2.4	2.5		2.6 2.9	2.8	
				10.8	Middle	5.4	28.5 28.9	28.7	8.1 8.1	8.1	21.6 21.3	21.4	76.8 76.0	76.4	5.3 5.2	5.2	5.0	3.4 3.5	3.5	3.2	2.8 3.0	2.9	3.0
					Bottom	9.8	27.9 27.7	27.8	8.1 8.1	8.1	24.5 24.8	24.7	73.9 71.0	72.5	5.0 4.9	4.9	4.9	3.5 3.5	3.5		3.2 3.1	3.2	
4-Aug-14	Sunny	Moderate	18:37		Surface	1.0	29.9 29.8	29.9	8.3 8.3	8.3	14.6 13.9	14.2	73.1 73.2	73.2	5.5 5.4	5.4	5.4	2.2 2.5	2.4		2.7 3.3	3.0	
				9.0	Middle	4.5	29.4 29.4	29.4	8.2 8.3	8.2	20.0 19.7	19.8	71.2 75.3	73.3	5.3 5.6	5.4	5.4	2.3 2.1	2.2	2.3	2.9 3.2	3.1	3.1
					Bottom	8.0	26.7 26.5	26.6	8.1 8.1	8.1	27.8 28.2	28.0	77.9 74.5	76.2	5.8 5.5	5.7	5.7	2.4 2.2	2.3		2.9 3.3	3.1	
6-Aug-14	Sunny	Moderate	09:04		Surface	1.0	29.0 29.1	29.1	8.2 8.2	8.2	19.6 19.5	19.6	85.0 85.6	85.3	5.9 5.9	5.9	5.5	2.0 1.8	1.9		4.1 4.1	4.1	
				10.0	Middle	5.0	27.3 27.6	27.4	8.1 8.1	8.1	26.8 25.5	26.2	75.0 74.8	74.9	5.1 5.1	5.1	5.5	2.1 2.3	2.2	2.2	4.6 4.8	4.7	4.7
					Bottom	9.0	27.2 27.5	27.3	8.1 8.1	8.1	27.7 26.4	27.0	71.9 72.8	72.4	4.9 5.0	4.9	4.9	2.5 2.4	2.5		5.1 5.2	5.2	
8-Aug-14	Sunny	Moderate	11:21		Surface	1.0	29.2 29.4	29.3	8.2 8.2	8.2	14.7 14.7	14.7	81.1 83.0	82.1	5.7 5.9	5.8	5.5	3.1 3.1	3.1		0.9 1.2	1.1	
				10.6	Middle	5.3	28.2 28.1	28.1	8.2 8.1	8.2	21.0 21.5	21.2	75.0 75.6	75.3	5.2 5.2	5.2	5.5	4.1 4.2	4.2	3.8	1.4 1.3	1.4	1.4
					Bottom	9.6	26.9 26.9	26.9	8.1 8.1	8.1	26.7 26.4	26.5	72.4 73.0	72.7	5.0 5.1	5.0	5.0	4.2 4.2	4.2		1.7 1.9	1.8	
11-Aug-14	Sunny	Moderate	13:07		Surface	1.0	28.6 28.4	28.5	8.0 8.0	8.0	22.4 22.6	22.5	79.4 77.6	78.5	5.8 5.7	5.8	5.7	10.2 10.4	10.3		4.5 4.7	4.6	
				10.3	Middle	5.2	27.9 27.8	27.9	8.0 8.0	8.0	24.2 24.3	24.2	74.9 76.1	75.5	5.6 5.6	5.6	0.1	10.1 10.2	10.2	10.2	5.2 5.4	5.3	5.5
					Bottom	9.3	27.9 27.7	27.8	8.0 8.0	8.0	24.5 24.6	24.6	77.7 75.0	76.4	5.7 5.6	5.6	5.6	10.2 10.2	10.2		6.6 6.5	6.6	
13-Aug-14***	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-			-		-	-	
				-	Middle	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
15-Aug-14	Sunny	Moderate	16:26		Surface	1.0	28.7 28.6	28.7	8.0 8.0	8.0	20.4 20.5	20.4	73.5 72.4	73.0	5.1 5.0	5.0	4.7	8.7 8.8	8.8		8.4 8.5	8.5	
				10.4	Middle	5.2	27.7 27.7	27.7	7.9 7.9	7.9	22.4 22.4	22.4	63.4 63.8	63.6	4.4 4.4	4.4		10.2 9.9	10.1	9.8	8.9 8.6	8.8	8.5
					Bottom	9.4	27.2 27.3	27.2	7.9 7.9	7.9	24.2 24.1	24.1	61.6 62.0	61.8	4.3 4.3	4.3	4.3	10.5 10.7	10.6		7.7 8.7	8.2	
18-Aug-14	Sunny	Moderate	07:16		Surface	1.0	29.1 29.1	29.1	8.0 8.0	8.0	14.8 14.6	14.7	86.5 87.8	87.2	6.1 6.2	6.2	5.7	4.9 4.8	4.9		1.5 1.6	1.6	
				10.8	Middle	5.4	28.8 28.9	28.9	8.0 7.9	7.9	17.8 17.6	17.7	75.1 74.0	74.6	5.3 5.2	5.2		5.2 5.1	5.2	5.2	1.4 1.7	1.6	1.6
					Bottom	9.8	26.6 26.8	26.7	7.9 7.7	7.8	25.9 27.0	26.4	70.7 69.4	70.1	4.9 4.8	4.8	4.8	5.4 5.5	5.5		1.6 1.7	1.7	ļ
20-Aug-14	Rainy	Moderate	09:39		Surface	1.0	28.6 28.6	28.6	7.9 8.0	7.9	15.0 15.7	15.4	87.0 85.3	86.2	6.2 6.1	6.1	5.8	2.7 2.7	2.7		3.1 3.0	3.1	
				9.8	Middle	4.9	27.6 27.6	27.6	7.8	7.8	20.6 21.8	21.2	76.1 80.6	78.4	5.3 5.6	5.4		3.3 3.2	3.3	3.1	3.1 4.1	3.6	3.3
					Bottom	8.8	27.5 27.1	27.3	7.8 7.8	7.8	24.0 24.3	24.2	73.4 70.8	72.1	5.1 5.0	5.1	5.1	3.2 3.5	3.4		3.3 3.2	3.3	

Remarks:

* DA: Depth-Averaged

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

Water Quality Monitoring Results at IS10 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samplin	ıg	Tempera	ature (°C)	p	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	ı (mg/L)	Т	urbidity(NT	J)	Susper	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*
22-Aug-14	Sunny	Moderate	11:25		Surface	1.0	28.5 28.5	28.5	7.9 7.9	7.9	15.0 14.9	14.9	80.6 79.6	80.1	5.8 5.7	5.7	5.5	3.0 3.3	3.2		3.1 3.1	3.1	
				9.7	Middle	4.9	27.6 27.3	27.4	7.8 7.8	7.8	19.8 22.2	21.0	73.3 75.3	74.3	5.2 5.3	5.2	5.5	4.4 4.8	4.6	4.2	3.4 3.4	3.4	3.3
					Bottom	8.7	27.5 27.2	27.3	7.8 7.7	7.8	21.8 23.6	22.7	70.6 70.2	70.4	4.9 4.9	4.9	4.9	5.0 4.8	4.9		3.4 3.1	3.3	
25-Aug-14	Sunny	Moderate	13:12		Surface	1.0	29.2 29.4	29.3	8.1 8.1	8.1	16.2 15.8	16.0	75.4 76.9	76.2	5.3 5.4	5.3	5.2	5.2 5.3	5.3		2.0 1.7	1.9	
				10.6	Middle	5.3	27.9 28.2	28.1	8.1 8.1	8.1	19.2 18.4	18.8	72.7 72.4	72.6	5.1 5.0	5.0	0.2	5.2 5.2	5.2	5.4	2.1 2.4	2.3	2.2
					Bottom	9.6	27.5 27.4	27.4	8.0 8.1	8.0	22.5 22.5	22.5	68.2 70.3	69.3	4.8 4.9	4.8	4.8	5.6 5.5	5.6		2.0 2.9	2.5	
27-Aug-14	Sunny	Moderate	14:25		Surface	1.0	27.7 27.9	27.8	8.1 8.1	8.1	20.9 20.8	20.8	71.5 74.1	72.8	5.1 5.2	5.2	5.3	6.5 6.4	6.5		3.6 3.1	3.4	
				10.0	Middle	5.0	27.3 27.9	27.6	8.1 8.1	8.1	24.0 20.8	22.4	78.9 71.6	75.3	5.8 5.0	5.4	5.5	6.3 6.5	6.4	6.5	4.8 3.7	4.3	4.9
					Bottom	9.0	27.6 27.5	27.5	8.1 8.1	8.1	23.8 23.9	23.8	72.1 77.7	74.9	5.2 5.9	5.5	5.5	6.6 6.5	6.6		6.4 7.5	7.0	
29-Aug-14	Sunny	Moderate	14:52		Surface	1.0	27.5 27.6	27.5	8.1 8.1	8.1	23.4 23.2	23.3	78.8 79.0	78.9	5.5 5.5	5.5	5.4	8.8 9.2	9.0		6.1 5.6	5.9	
				10.1	Middle	5.1	27.3 27.2	27.3	8.1 8.1	8.1	24.1 24.2	24.2	76.9 77.3	77.1	5.3 5.4	5.3	0.4	11.5 11.2	11.4	10.4	5.3 6.0	5.7	6.2
					Bottom	9.1	27.3 27.2	27.2	8.1 8.1	8.1	24.2 24.5	24.3	78.3 77.6	78.0	5.4 5.4	5.4	5.4	10.5 11.2	10.9		6.7 7.0	6.9	

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

Remarks:

* DA: Depth-Averaged

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

Water Quality Monitoring Results at IS10 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Т	urbidity(NT	U)	Suspe	nded Solids	; (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*
1-Aug-14	Sunny	Moderate	09:27		Surface	1.0	29.5 29.5	29.5	8.1 8.1	8.1	17.2 17.3	17.2	78.1 78.9	78.5	5.4 5.5	5.4	5.3	4.3 4.4	4.4		1.4 1.3	1.4	
				10.6	Middle	5.3	28.2 28.4	28.3	8.1 8.1	8.1	23.4 22.4	22.9	74.2 75.9	75.1	5.1 5.2	5.1	5.5	5.7 5.6	5.7	5.3	1.4 1.4	1.4	1.5
					Bottom	9.6	28.0 28.0	28.0	8.0 8.1	8.0	24.8 24.9	24.9	70.8 68.6	69.7	4.8 4.7	4.8	4.8	5.6 5.8	5.7		1.6 1.5	1.6	
4-Aug-14	Sunny	Moderate	12:48		Surface	1.0	29.6 29.9	29.8	8.2 8.3	8.2	16.0 15.0	15.5	77.5 76.9	77.2	5.5 5.6	5.6	5.7	2.6 2.3	2.5		2.3 2.7	2.5	
				10.6	Middle	5.3	27.0 27.4	27.2	8.1 8.1	8.1	26.3 25.2	25.7	74.8 78.4	76.6	5.7 5.9	5.8	5.7	2.5 2.1	2.3	2.4	2.8 3.2	3.0	2.7
					Bottom	9.6	26.6 26.2	26.4	8.1 8.1	8.1	28.8 29.3	29.0	75.6 77.1	76.4	5.5 5.8	5.6	5.6	2.4 2.2	2.3		2.8 2.6	2.7	
6-Aug-14	Sunny	Moderate	16:15		Surface	1.0	29.5 29.4	29.4	8.4 8.4	8.4	15.5 16.0	15.7	103.1 98.0	100.6	7.2 6.9	7.0	6.1	4.8 5.0	4.9		6.0 5.8	5.9	
				9.6	Middle	4.8	27.5 27.6	27.6	8.2 8.2	8.2	25.7 26.0	25.9	76.4 73.4	74.9	5.2 5.0	5.1	0.1	6.6 7.1	6.9	7.2	6.0 5.6	5.8	6.1
					Bottom	8.6	27.0 27.2	27.1	8.1 8.2	8.2	27.4 26.8	27.1	71.4 72.7	72.1	4.9 5.0	4.9	4.9	9.8 9.7	9.8		6.4 6.5	6.5	
8-Aug-14	Sunny	Moderate	18:02		Surface	1.0	29.2 29.4	29.3	8.2 8.2	8.2	18.0 18.3	18.2	84.7 88.2	86.5	5.9 6.1	6.0	5.6	7.7 7.5	7.6		2.4 2.0	2.2	
				10.5	Middle	5.3	28.3 28.5	28.4	8.2 8.2	8.2	22.3 22.0	22.2	76.6 75.2	75.9	5.3 5.2	5.2	5.0	7.7 7.5	7.6	7.6	3.4 3.0	3.2	3.0
					Bottom	9.5	26.9 26.7	26.8	8.1 8.1	8.1	27.0 27.3	27.1	73.5 72.2	72.9	5.1 5.0	5.0	5.0	7.5 7.8	7.7		3.2 3.7	3.5	
11-Aug-14	Sunny	Moderate	06:21		Surface	1.0	27.9 28.1	28.0	8.1 8.1	8.1	23.7 23.1	23.4	76.1 79.1	77.6	5.6 5.8	5.7	5.7	11.5 11.4	11.5		15.1 15.3	15.2	
				10.6	Middle	5.3	27.7 27.8	27.8	8.1 8.1	8.1	24.5 24.2	24.4	75.4 78.2	76.8	5.6 5.8	5.7	0.1	12.6 12.3	12.5	12.1	16.6 16.7	16.7	17.1
					Bottom	9.6	27.7 27.7	27.7	8.1 8.1	8.1	24.5 24.5	24.5	76.5 81.8	79.2	5.7 6.0	5.8	5.8	12.5 12.2	12.4		19.8 19.2	19.5	
13-Aug-14	Rainy	Moderate	08:14		Surface	1.0	27.9 27.9	27.9	8.0 8.0	8.0	23.7 23.6	23.7	79.6 91.9	85.8	5.5 6.3	5.9	5.8	19.1 18.9	19.0		7.3 7.4	7.4	
				11.1	Middle	5.6	27.8 27.7	27.8	8.0 8.0	8.0	23.9 24.4	24.2	86.8 79.1	83.0	6.0 5.4	5.7	0.0	19.2 19.3	19.3	19.4	8.2 8.2	8.2	7.9
					Bottom	10.1	27.9 27.7	27.8	8.0 8.0	8.0	23.8 24.5	24.1	82.8 78.6	80.7	5.7 5.4	5.6	5.6	19.9 19.6	19.8		8.2 7.9	8.1	
15-Aug-14	Sunny	Moderate	09:58		Surface	1.0	28.3 28.2	28.2	7.9 8.0	7.9	20.7 19.7	20.2	70.8 71.1	71.0	4.9 5.0	4.9	4.6	10.2 10.5	10.4		6.9 6.7	6.8	
				10.4	Middle	5.2	27.4 27.4	27.4	7.9 7.9	7.9	23.6 23.6	23.6	62.6 62.3	62.5	4.3 4.3	4.3		13.4 13.5	13.5	13.9	7.3 7.2	7.3	7.1
					Bottom	9.4	27.4 27.4	27.4	7.8 7.9	7.9	23.8 23.9	23.9	61.8 62.0	61.9	4.3 4.3	4.3	4.3	17.5 17.8	17.7		7.3 7.3	7.3	
18-Aug-14	Sunny	Moderate	13:38		Surface	1.0	29.9 29.8	29.8	8.1 8.1	8.1	13.7 13.9	13.8	88.0 91.1	89.6	6.2 6.4	6.3	5.7	5.2 4.9	5.1		0.7	0.9	
				10.4	Middle	5.2	28.8 28.0	28.4	8.0 8.0	8.0	20.9 23.3	22.1	74.1 74.3	74.2	5.1 5.1	5.1		5.3 5.5	5.4	5.3	1.6 1.8	1.7	1.6
					Bottom	9.4	26.3 26.2	26.3	7.9 7.9	7.9	27.7 27.9	27.8	72.0 72.3	72.2	5.0 5.0	5.0	5.0	5.4 5.4	5.4		2.1 2.2	2.2	
20-Aug-14	Rainy	Moderate	16:59		Surface	1.0	28.6 28.6	28.6	8.2 8.1	8.1	12.2 13.1	12.7	90.9 89.8	90.4	6.6 6.5	6.5	6.0	4.4	4.4		6.1 5.6	5.9	l
				10.1	Middle	5.1	28.3 28.1	28.2	8.1 8.1	8.1	17.9 17.6	17.7	78.6 78.6	78.6	5.5 5.4	5.5		6.0 6.3	6.2	5.9	4.3 4.4	4.4	5.1
					Bottom	9.1	27.5 27.8	27.7	8.0 8.0	8.0	24.8 23.7	24.3	76.7 76.0	76.4	5.4 5.2	5.3	5.3	7.5 6.8	7.2		5.2 4.6	4.9	

* DA: Depth-Averaged

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

Water Quality Monitoring Results at IS10 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samplin	ıg	Tempera	ature (°C)	F	эΗ	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	n)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
22-Aug-14	Sunny	Moderate	18:03		Surface	1.0	29.5 29.4	29.5	8.0 8.0	8.0	12.1 12.3	12.2	95.1 94.6	94.9	6.8 6.8	6.8	6.1	7.0 7.0	7.0		5.5 5.6	5.6	
				9.9	Middle	5.0	27.4 27.4	27.4	7.9 7.9	7.9	21.8 22.3	22.0	75.1 75.4	75.3	5.4 5.4	5.4	0.1	7.5 7.1	7.3	8.0	5.6 5.9	5.8	5.7
					Bottom	8.9	27.1 27.3	27.2	7.8 7.9	7.9	23.7 23.4	23.5	69.4 71.7	70.6	4.8 5.1	5.0	5.0	9.4 10.2	9.8		5.6 5.7	5.7	<u> </u>
25-Aug-14	Sunny	Moderate	19:28		Surface	1.0	29.6 29.4	29.5	8.1 8.1	8.1	15.9 16.3	16.1	80.4 78.9	79.7	5.6 5.5	5.5	5.3	3.7 3.7	3.7		3.3 2.7	3.0	
				10.8	Middle	5.4	27.6 27.7	27.6	8.1 8.1	8.1	21.1 20.9	21.0	73.2 72.9	73.1	5.1 5.0	5.1	0.0	5.5 5.5	5.5	5.0	3.1 2.7	2.9	3.5
					Bottom	9.8	27.3 26.9	27.1	8.0 8.0	8.0	25.1 25.3	25.2	71.7 72.5	72.1	4.9 5.0	5.0	5.0	5.6 5.8	5.7		4.7 4.3	4.5	
27-Aug-14	Sunny	Moderate	07:21		Surface	1.0	27.2 27.5	27.4	8.1 8.1	8.1	22.1 22.1	22.1	76.0 73.5	74.8	5.6 5.4	5.5	5.4	6.8 6.3	6.6		5.9 6.9	6.4	
				10.6	Middle	5.3	26.7 26.7	26.7	8.1 8.1	8.1	25.9 26.0	25.9	72.9 75.1	74.0	5.1 5.5	5.3	5.4	6.4 6.6	6.5	6.5	7.9 7.6	7.8	7.9
					Bottom	9.6	26.7 27.1	26.9	8.1 8.1	8.1	26.0 25.8	25.9	75.3 73.5	74.4	5.5 5.4	5.5	5.5	6.5 6.5	6.5		9.6 9.6	9.6	
29-Aug-14	Sunny	Moderate	08:41		Surface	1.0	27.3 27.2	27.3	8.1 8.1	8.1	23.7 24.3	24.0	89.1 82.8	86.0	6.2 5.7	6.0	5.8	13.6 13.9	13.8		5.6 4.9	5.3	
				10.3	Middle	5.2	27.0 27.0	27.0	8.1 8.1	8.1	24.9 24.9	24.9	80.6 78.4	79.5	5.6 5.4	5.5	5.0	13.9 14.0	14.0	14.3	5.3 5.6	5.5	5.5
					Bottom	9.3	27.0 27.1	27.0	8.1 8.1	8.1	25.1 24.8	25.0	77.4 77.4	77.4	5.4 5.4	5.4	5.4	14.7 15.4	15.1		5.4 6.1	5.8	

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

Remarks:

* DA: Depth-Averaged

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

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

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	/ed Oxygen	(mg/L)	Т	urbidity(NT	U)	Suspe	nded Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
1-Aug-14	Sunny	Moderate	15:58		Surface	1.0	30.0 29.9	30.0	8.2 8.2	8.2	16.5 16.3	16.4	91.4 92.3	91.9	6.3 6.4	6.4	6.0	2.2 2.2	2.2		2.7 2.5	2.6	
				10.5	Middle	5.3	29.4 29.4	29.4	8.1 8.1	8.1	19.7 19.7	19.7	81.0 83.8	82.4	5.6 5.7	5.6	0.0	2.2 2.3	2.3	2.3	2.8 2.6	2.7	2.9
					Bottom	9.5	27.8 27.7	27.8	8.1 8.1	8.1	24.9 25.1	25.0	79.6 77.5	78.6	5.5 5.3	5.4	5.4	2.5 2.5	2.5		3.3 3.4	3.4	
4-Aug-14	Sunny	Moderate	18:51		Surface	1.0	30.5 30.6	30.6	8.4 8.4	8.4	14.5 14.5	14.5	74.5 74.8	74.7	5.4 5.5	5.4	5.4	3.5 3.1	3.3		3.1 3.2	3.2	
				8.0	Middle	4.0	29.4 28.9	29.2	8.2 8.2	8.2	18.6 20.5	19.6	72.9 72.5	72.7	5.3 5.5	5.4	5.4	3.4 3.3	3.4	3.4	4.2 4.1	4.2	4.3
					Bottom	7.0	27.0 27.0	27.0	8.2 8.2	8.2	27.1 27.1	27.1	75.6 77.3	76.5	5.5 5.7	5.6	5.6	3.6 3.2	3.4		5.3 5.9	5.6	
6-Aug-14	Sunny	Moderate	08:54		Surface	1.0	29.1 29.1	29.1	8.3 8.3	8.3	19.0 18.7	18.8	85.2 85.6	85.4	5.9 5.9	5.9	5.0	2.3 2.1	2.2		3.4 3.6	3.5	
				9.8	Middle	4.9	27.3 27.5	27.4	8.1 8.1	8.1	26.9 25.5	26.2	77.2 79.8	78.5	5.2 5.4	5.3	5.6	3.8 3.5	3.7	3.1	5.6 5.7	5.7	5.5
					Bottom	8.8	27.2 27.0	27.1	8.1 8.1	8.1	27.1 27.7	27.4	77.9 77.3	77.6	5.3 5.3	5.3	5.3	3.3 3.4	3.4		7.4 7.2	7.3	
8-Aug-14	Sunny	Moderate	11:10		Surface	1.0	28.9 29.4	29.2	8.2 8.2	8.2	15.4 15.2	15.3	79.1 81.7	80.4	5.6 5.7	5.7	5.4	3.4 3.4	3.4		1.6 1.6	1.6	
				10.4	Middle	5.2	27.5 28.2	27.8	8.1 8.2	8.2	24.0 22.5	23.3	74.3 73.1	73.7	5.1 5.0	5.1	5.4	4.6 4.8	4.7	4.3	1.8 1.7	1.8	1.9
					Bottom	9.4	27.0 27.0	27.0	8.1 8.1	8.1	26.4 26.4	26.4	68.8 72.7	70.8	4.8 5.0	4.9	4.9	4.5 4.8	4.7		2.4 2.4	2.4	
11-Aug-14	Sunny	Moderate	13:17		Surface	1.0	28.6 28.5	28.6	8.1 8.1	8.1	22.5 22.7	22.6	78.2 80.2	79.2	5.8 5.9	5.8	5.7	6.7 6.5	6.6		6.2 6.6	6.4	
				10.0	Middle	5.0	27.5 27.4	27.5	8.0 8.1	8.1	24.9 25.0	25.0	73.2 76.1	74.7	5.4 5.6	5.5	5.7	6.5 6.7	6.6	7.0	7.8 7.4	7.6	7.6
					Bottom	9.0	27.1 27.0	27.1	8.0 8.1	8.0	26.3 26.5	26.4	74.9 80.7	77.8	5.6 6.0	5.8	5.8	7.8 7.8	7.8		8.6 8.8	8.7	
13-Aug-14***	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-	_	-	-		-	-	
				-	Middle	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
15-Aug-14	Sunny	Moderate	16:36		Surface	1.0	28.5 28.5	28.5	8.0 7.9	7.9	20.8 20.9	20.9	72.6 72.7	72.7	5.0 5.0	5.0	4.8	7.4 7.1	7.3		6.1 6.0	6.1	
				10.6	Middle	5.3	27.9 27.9	27.9	7.9 7.9	7.9	22.1 22.1	22.1	66.4 66.9	66.7	4.6 4.6	4.6		8.6 8.5	8.6	8.4	6.3 6.5	6.4	7.8
					Bottom	9.6	27.1 27.1	27.1	7.9 7.9	7.9	24.8 24.7	24.8	64.5 64.2	64.4	4.5 4.5	4.5	4.5	9.2 9.3	9.3		10.8 11.1	11.0	
18-Aug-14	Sunny	Moderate	07:06		Surface	1.0	29.0 29.1	29.1	8.0 8.1	8.1	14.8 14.8	14.8	84.5 88.8	86.7	6.0 6.3	6.1	5.7	2.2 2.1	2.2		1.2 1.1	1.2	
				10.3	Middle	5.2	28.5 28.6	28.5	8.0 8.0	8.0	19.6 19.7	19.6	73.4 74.8	74.1	5.1 5.2	5.2		2.3 2.5	2.4	2.7	1.6 1.8	1.7	1.5
					Bottom	9.3	27.2 27.4	27.3	7.9 7.9	7.9	24.8 24.5	24.6	76.8 77.0	76.9	5.3 5.3	5.3	5.3	3.2 3.5	3.4		1.6 1.6	1.6	
20-Aug-14	Rainy	Moderate	09:28		Surface	1.0	28.6 28.6	28.6	8.0 8.0	8.0	13.8 14.1	14.0	83.5 84.3	83.9	6.0 6.0	6.0	5.8	3.4 3.2	3.3		3.4 3.6	3.5	
				10.1	Middle	5.1	27.1 27.0	27.0	7.8 7.8	7.8	25.2 24.5	24.9	78.4 78.3	78.4	5.5 5.4	5.5		6.3 5.6	6.0	5.6	5.0 4.9	5.0	4.5
					Bottom	9.1	26.8 26.9	26.8	7.8 7.8	7.8	26.5 26.2	26.3	74.1 73.8	74.0	5.2 5.2	5.2	5.2	7.7 7.0	7.4		4.6 5.2	4.9	

* DA: Depth-Averaged

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

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

Date	Weather	Sea	Sampling	Water	Samplin	g	Tempera	ature (°C)	F	эΗ	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ved Oxyger	i (mg/L)	Т	urbidity(NTL	J)	Suspe	nded Solids	, (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth (m	n)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
22-Aug-14	Sunny	Moderate	11:16		Surface	1.0	28.5 28.4	28.4	8.0 8.0	8.0	15.1 15.3	15.2	81.5 81.1	81.3	5.8 5.8	5.8	5.6	2.9 3.0	3.0		2.6 3.0	2.8	
				9.7	Middle	4.9	27.2 27.1	27.2	8.0 8.0	8.0	22.2 22.8	22.5	76.8 76.1	76.5	5.3 5.3	5.3	5.0	5.2 4.9	5.1	4.4	2.6 2.9	2.8	3.0
					Bottom	8.7	27.2 27.3	27.3	8.0 8.0	8.0	24.0 24.3	24.2	70.9 70.5	70.7	5.1 5.0	5.0	5.0	5.3 5.0	5.2		3.8 3.2	3.5	
25-Aug-14	Sunny	Moderate	13:00		Surface	1.0	29.1 28.9	29.0	8.1 8.1	8.1	16.5 17.0	16.8	74.9 74.3	74.6	5.3 5.2	5.2	5.2	4.5 4.6	4.6		2.1 2.1	2.1	
				10.3	Middle	5.2	27.1 27.4	27.3	8.0 8.1	8.1	22.1 19.2	20.6	73.2 74.1	73.7	5.1 5.1	5.1	0.2	5.1 5.1	5.1	4.9	2.7 2.9	2.8	2.7
					Bottom	9.3	26.9 27.0	26.9	8.0 8.0	8.0	24.8 24.7	24.8	71.3 67.6	69.5	5.0 4.8	4.9	4.9	5.2 5.0	5.1		3.7 2.7	3.2	
27-Aug-14	Sunny	Moderate	14:35		Surface	1.0	27.5 27.6	27.6	8.1 8.1	8.1	20.8 20.6	20.7	72.7 74.8	73.8	5.1 5.7	5.4	5.4	5.7 5.4	5.6		2.2 2.7	2.5	
				8.8	Middle	4.4	27.0 26.9	26.9	8.1 8.1	8.1	25.0 24.1	24.6	73.6 73.1	73.4	5.5 5.1	5.3	5.4	5.6 5.8	5.7	5.6	4.1 4.8	4.5	4.2
					Bottom	7.8	26.8 27.6	27.2	8.1 8.1	8.1	25.4 24.9	25.1	78.8 72.4	75.6	5.5 5.1	5.3	5.3	5.5 5.2	5.4		5.6 5.3	5.5	
29-Aug-14	Sunny	Moderate	15:01		Surface	1.0	28.2 27.9	28.0	8.1 8.1	8.1	22.2 22.4	22.3	80.1 79.0	79.6	5.5 5.5	5.5	5.4	7.6 7.9	7.8		3.9 3.9	3.9	
				10.3	Middle	5.2	26.9 26.9	26.9	8.1 8.1	8.1	25.2 25.3	25.3	76.2 74.0	75.1	5.3 5.1	5.2	5.4	11.5 10.9	11.2	9.8	4.7 4.9	4.8	4.6
					Bottom	9.3	26.9 26.9	26.9	8.1 8.1	8.1	25.5 25.6	25.5	78.9 76.1	77.5	5.5 5.3	5.4	5.4	10.7 10.0	10.4		5.5 4.6	5.1	

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

Remarks:

* DA: Depth-Averaged

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

Water Quality Monitoring Results at IS(Mf)11 - 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*
1-Aug-14	Sunny	Moderate	09:19		Surface	1.0	29.0 28.9	29.0	8.1 8.1	8.1	19.9 20.2	20.1	75.7 75.2	75.5	5.2 5.2	5.2	5.0	3.5 3.6	3.6		1.2 2.0	1.6	
				10.5	Middle	5.3	28.4 28.4	28.4	8.1 8.1	8.1	22.0 22.2	22.1	74.2 74.3	74.3	5.1 5.1	5.1	5.2	4.3 4.3	4.3	4.1	2.5 2.4	2.5	2.2
					Bottom	9.5	28.1 28.5	28.3	8.0 8.0	8.0	23.6 23.3	23.5	69.7 70.9	70.3	4.8	4.8	4.8	4.4	4.3		2.7	2.6	
4-Aug-14	Sunny	Moderate	12:38		Surface	1.0	29.6 29.6	29.6	8.3 8.3	8.3	18.0 18.1	18.0	72.5	74.5	5.3 5.5	5.4		3.5 3.4	3.5		2.0	2.1	
				10.6	Middle	5.3	27.6 27.5	27.5	8.1 8.1	8.1	26.0 25.2	25.6	74.5	75.2	5.5 5.7	5.6	5.5	3.7 3.6	3.7	3.6	2.6	2.7	2.5
					Bottom	9.6	26.8 26.7	26.8	8.2 8.1	8.1	28.2	28.2	74.9	75.2	5.6 5.5	5.5	5.5	3.8 3.5	3.7		3.0	2.8	
6-Aug-14	Sunny	Moderate	16:24		Surface	1.0	29.3 29.5	29.4	8.4 8.4	8.4	17.5 17.3	17.4	107.2 113.1	110.2	7.5 7.8	7.6		3.2 3.3	3.3		5.2 5.0	5.1	
				9.7	Middle	4.9	28.2 28.0	28.1	8.3 8.3	8.3	23.3 23.6	23.5	89.8 89.1	89.5	6.2 6.1	6.1	6.9	2.6 2.8	2.7	3.5	5.4 5.4	5.4	5.3
					Bottom	8.7	27.8 27.8	27.8	8.2 8.3	8.2	24.0 24.0	24.0	82.8 88.7	85.8	5.7 6.1	5.9	5.9	4.5	4.4		5.1 5.6	5.4	
8-Aug-14	Sunny	Moderate	18:12		Surface	1.0	29.3 29.3	29.3	8.2 8.2	8.2	19.1 19.2	19.2	83.8 82.7	83.3	5.8 5.7	5.7		4.7	4.8		3.1 2.6	2.9	
				10.7	Middle	5.4	28.7 28.9	28.8	8.2 8.2	8.2	20.2 20.1	20.2	80.5 78.5	79.5	5.5 5.4	5.5	5.6	5.2	5.2	5.2	4.0	4.2	3.6
					Bottom	9.7	26.9 26.9	26.9	8.1 8.1	8.1	26.5 26.3	26.4	73.1 74.1	73.6	5.1 5.1	5.1	5.1	5.5 5.6	5.6		3.7 3.6	3.7	
11-Aug-14	Sunny	Moderate	06:12		Surface	1.0	28.1 28.2	28.1	8.1 8.1	8.1	22.4 22.2	22.3	76.4 78.5	77.5	5.7 5.8	5.8	5.7	11.4 11.4	11.4		4.7 4.2	4.5	
				10.8	Middle	5.4	27.6 27.7	27.7	8.0 8.0	8.0	24.6 24.3	24.4	74.8 75.6	75.2	5.6 5.6	5.6	5.7	11.2 11.2	11.2	11.3	5.8 5.2	5.5	5.6
					Bottom	9.8	27.6 27.8	27.7	8.0 8.0	8.0	24.5 24.2	24.4	76.9 77.5	77.2	5.7 5.7	5.7	5.7	11.3 11.1	11.2		7.0 6.7	6.9	
13-Aug-14	Rainy	Moderate	08:07		Surface	1.0	28.0 27.9	28.0	8.0 8.0	8.0	22.7 22.9	22.8	83.6 82.4	83.0	5.8 5.7	5.7	5.6	10.8 10.9	10.9		8.8 8.6	8.7	
				11.1	Middle	5.6	27.9 27.7	27.8	8.0 8.0	8.0	23.7 24.1	23.9	79.6 80.8	80.2	5.5 5.6	5.5	5.0	10.9 10.9	10.9	11.0	4.0 4.3	4.2	5.5
					Bottom	10.1	27.7 27.8	27.7	8.0 8.0	8.0	24.4 24.8	24.6	79.4 80.6	80.0	5.5 5.6	5.5	5.5	11.1 11.0	11.1		3.7 3.6	3.7	
15-Aug-14	Sunny	Moderate	09:48		Surface	1.0	28.1 28.1	28.1	7.9 7.9	7.9	20.9 21.0	21.0	68.1 67.7	67.9	4.7 4.7	4.7	4.7	13.5 13.4	13.5		9.5 9.2	9.4	
				10.4	Middle	5.2	27.8 27.8	27.8	7.9 7.9	7.9	22.3 22.2	22.2	65.6 65.8	65.7	4.6 4.6	4.6		15.5 15.2	15.4	14.9	11.0 11.8	11.4	11.3
					Bottom	9.4	27.7 27.7	27.7	7.9 7.9	7.9	22.5 22.5	22.5	65.7 65.1	65.4	4.6 4.5	4.5	4.5	16.0 15.7	15.9		13.0 13.1	13.1	
18-Aug-14	Sunny	Moderate	13:47		Surface	1.0	29.0 29.1	29.0	8.0 8.0	8.0	18.3 18.3	18.3	83.4 85.2	84.3	5.8 5.9	5.9	5.6	5.6 5.5	5.6		1.5 1.7	1.6	
				10.5	Middle	5.3	27.9 27.8	27.9	7.9 8.0	7.9	22.0 22.3	22.2	75.4 73.5	74.5	5.2 5.1	5.2		5.5 5.5	5.5	5.6	1.9 1.9	1.9	1.9
					Bottom	9.5	27.8 27.8	27.8	8.0 7.8	7.9	22.7 22.7	22.7	77.8 79.5	78.7	5.4 5.5	5.4	5.4	5.5 5.6	5.6		2.3 2.1	2.2	
20-Aug-14	Rainy	Moderate	17:09		Surface	1.0	28.3 28.4	28.4	8.1 8.1	8.1	15.0 14.2	14.6	83.4 84.5	84.0	6.0 6.1	6.0	5.6	3.5 3.2	3.4		4.8 4.4	4.6	
				9.7	Middle	4.9	27.6 27.7	27.6	7.9 8.0	8.0	22.1 22.1	22.1	75.7 74.4	75.1	5.3 5.2	5.2		4.7 4.5	4.6	4.5	3.5 5.4	4.5	4.6
					Bottom	8.7	27.3 27.3	27.3	7.9 7.9	7.9	23.7 24.6	24.2	70.8 70.3	70.6	4.9 4.9	4.9	4.9	5.6 5.1	5.4		5.1 4.5	4.8	

* DA: Depth-Averaged

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

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

Date	Weather	Sea	Sampling	Water	Sampli	ing	Tempera	ature (°C)	F	н	Salinit	ty (ppt)	DO Satu	ration (%)	Dissolv	ved Oxygen	(mg/L)	Т	urbidity(NTL	J)	Suspe	nded Solids	, (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth ((m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
22-Aug-14	Sunny	Moderate	18:14		Surface	1.0	29.3 29.3	29.3	8.0 7.9	8.0	13.0 13.2	13.1	85.0 88.3	86.7	6.0 6.2	6.1	6.0	4.2 4.0	4.1		3.9 3.2	3.6	
				10.1	Middle	5.1	28.5 28.4	28.4	7.9 8.0	7.9	17.9 18.3	18.1	82.4 82.5	82.5	5.9 5.9	5.9	6.0	3.6 4.2	3.9	3.9	3.9 3.9	3.9	4.0
					Bottom	9.1	28.1 28.4	28.3	7.9 7.8	7.9	19.6 19.3	19.5	82.2 80.7	81.5	5.8 5.7	5.8	5.8	4.0 3.6	3.8		4.2 4.5	4.4	
25-Aug-14	Sunny	Moderate	19:37		Surface	1.0	29.1 29.1	29.1	8.1 8.1	8.1	16.6 16.6	16.6	74.6 75.6	75.1	5.2 5.3	5.3	5.3	4.1 3.9	4.0		2.4 2.4	2.4	
				10.6	Middle	5.3	28.1 28.1	28.1	8.1 8.1	8.1	20.0 19.7	19.8	75.4 73.9	74.7	5.3 5.2	5.2	5.5	4.4 4.2	4.3	4.2	3.7 3.4	3.6	3.2
					Bottom	9.6	27.9 28.1	28.0	8.1 8.1	8.1	20.7 20.7	20.7	72.2 71.2	71.7	5.1 5.0	5.0	5.0	4.3 4.5	4.4		3.9 3.5	3.7	
27-Aug-14	Sunny	Moderate	07:11		Surface	1.0	27.4 27.4	27.4	8.1 8.1	8.1	22.0 21.5	21.8	76.0 78.0	77.0	5.6 5.8	5.7	5.7	5.8 5.5	5.7		6.8 6.7	6.8	
				10.6	Middle	5.3	26.9 26.9	26.9	8.1 8.1	8.1	24.8 25.0	24.9	76.9 74.1	75.5	5.7 5.5	5.6	5.7	5.4 5.6	5.5	5.6	6.9 7.6	7.3	7.7
					Bottom	9.6	27.0 26.6	26.8	8.1 8.1	8.1	26.0 26.2	26.1	78.4 72.2	75.3	5.7 5.2	5.4	5.4	5.4 5.6	5.5		8.9 8.9	8.9	
29-Aug-14	Sunny	Moderate	08:34		Surface	1.0	27.3 27.2	27.3	8.1 8.1	8.1	23.9 24.0	23.9	76.5 76.9	76.7	5.3 5.3	5.3	5.3	13.1 13.3	13.2		4.8 4.1	4.5	
				10.2	Middle	5.1	27.2 27.2	27.2	8.1 8.1	8.1	24.2 24.2	24.2	76.6 76.1	76.4	5.3 5.3	5.3	0.0	13.9 14.2	14.1	14.1	4.9 5.8	5.4	5.6
					Bottom	9.2	27.1 27.1	27.1	8.1 8.1	8.1	24.4 24.4	24.4	76.6 76.3	76.5	5.3 5.3	5.3	5.3	15.3 14.9	15.1		7.1 6.9	7.0	

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

Remarks:

* DA: Depth-Averaged

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

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

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	þ	H	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	(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*
1-Aug-14	Sunny	Moderate	15:29		Surface	1.0	29.8 30.4	30.1	8.2 8.2	8.2	21.3 21.0	21.2	84.5 91.8	88.2	5.7 6.1	5.9		6.1 6.2	6.2		2.7 2.4	2.6	
				6.6	Middle	3.3	28.4 29.0	28.7	7.9 8.0	8.0	23.3 23.0	23.2	74.0 74.7	74.4	5.1 5.1	5.1	5.5	8.7 8.2	8.5	9.3	3.0 3.2	3.1	3.1
					Bottom	5.6	27.8 27.7	27.7	7.9 8.0	7.9	26.7 26.7	26.7	76.6 73.9	75.3	5.2 5.0	5.1	5.1	12.9 13.5	13.2		3.9 3.5	3.7	
4-Aug-14	Sunny	Moderate	18:16		Surface	1.0	30.7 30.5	30.6	8.5 8.5	8.5	18.6 18.8	18.7	136.0 134.7	135.4	9.2 9.1	9.1		3.8 3.9	3.9		3.7 3.6	3.7	
				6.4	Middle	3.2	29.2 30.0	29.6	8.5 8.5 8.5	8.5	21.4 19.8	20.6	83.9 87.4	85.7	9.1 5.7 5.9	5.8	7.5	6.3 6.5	6.4	5.7	3.6 3.7 4.0	3.9	4.4
					Bottom	5.4	28.0	28.0	8.5	8.5	26.4	26.3	82.8	82.8	5.6	5.6	5.6	6.8	6.7		5.8	5.6	
6-Aug-14	Sunny	Moderate	09:12		Surface	1.0	28.0 29.3	29.3	8.5 8.4	8.5	26.2 21.1	21.2	82.8 93.3	93.3	5.6 6.4	6.3		6.5 3.2	3.3		5.3	2.5	
				6.4	Middle	3.2	29.3 28.7	28.7	8.6 8.5	8.4	21.3 23.1	23.1	93.2 76.0	76.8	6.3 5.2	5.2	5.8	3.3 3.5	3.6	3.5	2.2 3.8	3.8	3.8
					Bottom	5.4	28.7 26.9	26.9	8.2 8.0	8.1	23.1 27.7	27.9	77.5 73.8	75.4	5.3 5.0	5.2	5.2	3.6 3.5	3.5		3.8 5.1	5.2	
8-Aug-14	Sunny	Moderate	11:08		Surface	1.0	26.8 29.8	29.7	8.3 8.3	8.3	28.2 19.9	20.0	77.0 100.1	102.8	5.3 6.8	7.0		3.5 4.7	4.8		5.2 3.3	3.3	
				6.2	Middle	3.1	29.6 29.4	29.4	8.3 8.2	8.2	20.2 21.0	21.2	105.4 82.8	85.6	7.2 5.6	5.8	6.4	4.8 5.9	6.1	5.9	3.2 3.3	3.3	3.4
					Bottom	5.2	29.3 27.2	27.3	8.2 8.1	8.1	21.4 26.5	26.4	88.4 81.8	81.0	6.0 5.6	5.5	5.5	6.2 6.8	6.9		3.2 3.9	3.6	
11-Aug-14	Sunny	Moderate	12:58		Surface	1.0	27.4 28.8	28.7	8.1 8.2	8.2	26.4 23.0	23.1	80.1 89.5	88.2	5.5 6.1	6.0		7.0	10.6		3.3 7.3	7.4	
				7.0	Middle	3.5	28.6 27.6	28.0	8.2 8.2	8.2	23.3 25.0	24.5	86.8 76.7	77.3	5.9 5.2	5.3	5.7	10.8 10.6	10.4	11.1	7.4 8.4	8.3	8.2
					Bottom	6.0	28.3 27.1	27.0	8.2 8.2	8.2	24.0 26.8	27.2	77.8 71.5	71.2	5.3 4.9	4.9	4.9	10.1 12.0	12.3		8.2 8.9	8.9	
13-Aug-14***	-	-	-		Surface		- 26.9		- 8.2		27.7		70.9		4.9	-		12.5			8.9		
				-	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<u>-</u>
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15-Aug-14	Sunny	Moderate	15:46		Surface	1.0	- 29.2	29.0	- 7.8	7.8	- 21.7	21.9	- 79.6	77.7	- 5.6	5.5		9.5	9.4		- 6.9	7.0	
				6.3	Middle	3.2	28.8 27.9	28.3	7.8 7.8	7.8	22.1 23.5	23.1	75.7 73.6	74.3	5.3 5.2	5.2	5.4	9.2 9.5	9.3	9.4	7.1 6.8	6.9	6.9
					Bottom	5.3	28.8 27.6	27.7	7.8 7.8	7.8	22.8 24.2	24.2	74.9 78.3	73.7	5.3 5.6	5.2	5.2	9.1 9.7	9.5		6.9 6.8	6.8	
18-Aug-14	Sunny	Moderate	07:26		Surface	1.0	27.7 29.5	29.5	7.8 7.9	7.9	24.2 18.5	18.5	69.0 89.8	90.5	4.9 6.2	6.2	0.2	9.3 4.7	4.6		6.7 2.4	2.4	
				6.3	Middle	3.2	29.5 29.4	29.3	7.9 7.9	7.9	18.6 18.7	18.8	91.1 82.4	80.4	6.3 5.7	5.5	5.9	4.5 5.9	5.9	5.9	2.3 2.3	2.2	2.2
				0.0	Bottom	5.3	29.1 28.5	29.3	7.9 7.8	7.8	18.8 21.3	21.0	78.3 78.1	79.0	5.4 5.4	5.4	5.4	5.8 6.9	7.1	0.0	2.0 2.0	2.2	2.2
20-Aug-14	Rainy	Moderate	09:56		Surface	1.0	28.9 29.0	29.1	7.8 8.1	8.1	20.7 15.3	15.8	79.8 91.3	89.4	5.5 6.5	6.3	5.7	7.3 5.7	5.6		2.2 4.4	4.1	
-	-			6.5	Middle	3.3	29.2 29.2	29.1	8.1 8.0	8.0	16.2 18.1	17.6	87.4 75.5	77.2	6.1 5.2	5.4	5.9	5.4 6.6	6.6	6.3	3.8 4.8		45
				6.0			29.2 27.6	-	8.0 7.8		17.0 25.0	-	78.8 79.2		5.5 5.4	-	5.2	6.6 6.7		0.3	4.1	4.5	4.5
					Bottom	5.5	27.5	27.5	7.9	7.9	25.2	25.1	76.4	77.8	5.2	5.3	5.3	6.8	6.8		5.0	4.9	I

* DA: Depth-Averaged

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

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

Date	Weather	Sea	Sampling	Water	Sampli	ng	Temper	ature (°C)	F	эΗ	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ved Oxyger	i (mg/L)	Т	urbidity(NTL	J)	Suspe	nded Solids	; (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth ((m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
22-Aug-14	Sunny	Moderate	11:30		Surface	1.0	28.6 28.6	28.6	8.0 8.0	8.0	18.2 18.2	18.2	79.2 79.3	79.3	5.6 5.6	5.6	5.4	3.8 3.9	3.9		2.9 3.2	3.1	
				6.3	Middle	3.2	28.2 28.2	28.2	8.0 7.9	7.9	19.9 19.6	19.7	74.8 73.4	74.1	5.2 5.1	5.2	5.4	3.9 4.1	4.0	4.0	3.5 3.4	3.5	3.4
					Bottom	5.3	27.7 28.1	27.9	7.8 7.9	7.9	22.5 23.2	22.9	76.6 79.0	77.8	5.3 5.4	5.4	5.4	4.2 4.0	4.1		3.3 3.7	3.5	
25-Aug-14	Sunny	Moderate	13:12		Surface	1.0	28.8 29.0	28.9	8.1 8.1	8.1	20.8 20.7	20.8	82.3 87.6	85.0	5.7 6.0	5.8	5.5	5.8 6.1	6.0		2.4 2.3	2.4	
				6.4	Middle	3.2	27.0 27.7	27.4	8.0 8.0	8.0	23.8 21.9	22.9	73.4 73.0	73.2	5.1 5.1	5.1	0.0	7.6 8.3	8.0	7.0	2.6 3.1	2.9	2.8
					Bottom	5.4	26.7 26.7	26.7	8.0 8.0	8.0	26.1 26.4	26.3	71.3 75.8	73.6	4.9 5.2	5.1	5.1	7.1 6.9	7.0		3.4 3.0	3.2	
27-Aug-14	Sunny	Moderate	13:41		Surface	1.0	28.2 28.3	28.2	8.0 8.1	8.1	22.0 21.9	22.0	80.9 82.7	81.8	5.6 5.7	5.6	5.5	4.5 4.1	4.3		10.0 9.7	9.9	
				6.2	Middle	3.1	28.1 27.8	27.9	8.1 8.0	8.0	22.1 22.6	22.3	79.7 77.5	78.6	5.5 5.4	5.4	5.5	4.3 4.5	4.4	4.4	9.6 9.6	9.6	10.0
					Bottom	5.2	28.0 27.4	27.7	8.0 7.9	8.0	23.8 24.6	24.2	81.2 79.8	80.5	5.6 5.5	5.5	5.5	4.5 4.5	4.5		9.8 10.9	10.4	
29-Aug-14	Sunny	Moderate	14:43		Surface	1.0	28.9 28.9	28.9	8.0 8.0	8.0	24.3 24.3	24.3	83.0 79.4	81.2	5.6 5.3	5.5	5.5	7.4 7.6	7.5		4.9 5.4	5.2	
				6.3	Middle	3.2	27.7 27.6	27.6	7.9 7.9	7.9	25.8 25.8	25.8	78.9 80.6	79.8	5.4 5.4	5.4	5.5	7.6 7.7	7.7	7.5	4.3 4.6	4.5	4.7
					Bottom	5.3	27.6 27.2	27.4	7.8 7.9	7.9	26.9 27.3	27.1	75.3 73.8	74.6	5.1 5.0	5.1	5.1	7.6 7.2	7.4		4.8 4.1	4.5	

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

Remarks:

* DA: Depth-Averaged

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

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

Date	Weather	Sea	Sampling	Water	Sampl	ing	Tempera	ature (°C)	p	н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	(mg/L)	Г	Turbidity(NTl	J)	Suspe	nded Solids	, (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
1-Aug-14	Sunny	Moderate	09:16		Surface	1.0	29.4 29.5	29.5	7.9 7.9	7.9	20.0 19.9	19.9	84.5 84.7	84.6	5.8 5.8	5.8	5.7	12.6 11.9	12.3		2.8 2.5	2.7	
				6.6	Middle	3.3	29.3 29.3	29.3	7.9 7.9	7.9	20.5 20.3	20.4	79.5 81.8	80.7	5.4 5.6	5.5	5.7	12.5 13.4	13.0	12.9	3.2 3.0	3.1	3.1
					Bottom	5.6	29.0 29.0	29.0	7.8	7.8	21.9 21.8	21.9	81.9 77.9	79.9	5.6 5.3	5.5	5.5	13.7 13.2	13.5		3.7 3.0	3.4	
4-Aug-14	Sunny	Moderate	12:58		Surface	1.0	30.2 30.2	30.2	7.9 7.9	7.9	19.1 19.1	19.1	91.3 93.9	92.6	6.2 6.4	6.3		4.6 4.5	4.6		6.0 6.3	6.2	
				6.5	Middle	3.3	28.9 28.8	28.9	7.7	7.7	21.8 22.1	22.0	76.0 79.0	77.5	5.2 5.4	5.3	5.8	6.2 6.0	6.1	6.5	7.8 7.6	7.7	7.7
					Bottom	5.5	28.2	28.2	7.6 7.6	7.6	25.9 25.8	25.9	77.5	76.6	5.2 5.1	5.2	5.2	8.9 8.6	8.8		9.0 9.2	9.1	
6-Aug-14	Sunny	Moderate	15:53		Surface	1.0	29.5 29.3	29.4	8.5 8.6	8.5	20.6 20.7	20.7	107.3 105.5	106.4	7.3 7.2	7.3		4.8	4.8		3.4 3.2	3.3	
				6.3	Middle	3.2	29.0 29.0	29.0	8.5 8.5	8.5	21.5 21.5	21.5	82.4 86.9	84.7	5.6 5.9	5.8	6.6	5.6 5.5	5.6	5.3	4.8	4.6	4.5
					Bottom	5.3	28.2	27.9	8.5 8.6	8.5	26.6 27.5	27.1	80.8 82.8	81.8	5.4 5.6	5.5	5.5	5.4 5.5	5.5		5.7 5.7	5.7	
8-Aug-14	Sunny	Moderate	17:43		Surface	1.0	29.9 30.0	30.0	8.3 8.3	8.3	19.2 19.2	19.2	105.1 112.1	108.6	7.2 7.6	7.4		7.0 6.8	6.9		2.9 3.4	3.2	
				6.1	Middle	3.1	29.9 29.7	29.8	8.3 8.3	8.3	19.3 19.7	19.5	91.0 90.6	90.8	6.2 6.2	6.2	6.8	9.7 10.0	9.9	9.7	4.4	4.5	4.4
					Bottom	5.1	28.2	28.3	8.1 8.0	8.0	24.4 24.5	24.5	87.0 82.2	84.6	5.9 5.6	5.8	5.8	12.5 12.0	12.3		5.2 5.9	5.6	
11-Aug-14	Sunny	Moderate	06:24		Surface	1.0	28.6 28.6	28.6	8.2 8.2	8.2	21.4 21.5	21.5	83.4 83.6	83.5	5.7 5.8	5.7	F 7	5.7 6.1	5.9		3.4 3.3	3.4	
				6.9	Middle	3.5	28.4 28.5	28.4	8.2 8.2	8.2	22.5 21.9	22.2	80.8 81.6	81.2	5.5 5.6	5.6	5.7	6.6 6.8	6.7	7.0	4.2 3.9	4.1	4.0
					Bottom	5.9	28.4 28.3	28.3	8.2 8.2	8.2	23.1 23.1	23.1	82.4 82.0	82.2	5.6 5.6	5.6	5.6	8.5 8.2	8.4		4.2 4.7	4.5	
13-Aug-14	Rainy	Moderate	08:32		Surface	1.0	28.3 28.3	28.3	7.8 7.8	7.8	20.9 20.9	20.9	81.2 81.0	81.1	5.6 5.6	5.6		9.6 9.1	9.4		2.9 3.4	3.2	
				6.7	Middle	3.4	28.2 28.2	28.2	7.8 7.8	7.8	22.7 22.6	22.7	76.6 78.2	77.4	5.3 5.4	5.3	5.5	12.2 12.7	12.5	11.3	4.4 4.5	4.5	4.4
					Bottom	5.7	28.1 28.1	28.1	7.8 7.5	7.6	23.7 22.9	23.3	79.8 78.8	79.3	5.5 5.4	5.4	5.4	11.6 12.3	12.0		5.2 5.9	5.6	
15-Aug-14	Sunny	Moderate	10:13		Surface	1.0	28.3 28.6	28.4	7.8 7.8	7.8	20.9 20.6	20.8	73.6 75.3	74.5	5.3 5.4	5.3	5.3	11.2 11.5	11.4		4.4 5.0	4.7	
				6.3	Middle	3.2	28.3 28.3	28.3	7.8 7.8	7.8	21.0 21.0	21.0	73.5 75.4	74.5	5.3 5.4	5.3	5.5	11.2 11.7	11.5	11.5	5.0 5.4	5.2	4.9
					Bottom	5.3	28.3 28.3	28.3	7.8 7.8	7.8	21.1 21.0	21.0	78.0 74.0	76.0	5.6 5.3	5.4	5.4	11.4 11.6	11.5		5.1 4.5	4.8	
18-Aug-14	Sunny	Moderate	13:17		Surface	1.0	30.0 30.0	30.0	8.0 8.0	8.0	17.7 17.7	17.7	96.8 98.9	97.9	6.6 6.8	6.7	6.5	6.9 7.3	7.1		-	-	
				6.5	Middle	3.3	29.6 29.6	29.6	8.0 7.9	7.9	17.9 17.9	17.9	93.0 87.6	90.3	6.3 6.1	6.2	0.0	10.2 9.7	10.0	9.7	1.1 0.9	1.0	1.5
					Bottom	5.5	29.2 28.8	29.0	7.9 7.7	7.8	22.8 22.7	22.7	91.8 81.9	86.9	6.3 5.6	5.9	5.9	11.6 12.5	12.1		1.8 2.1	2.0	
20-Aug-14	Rainy	Moderate	16:46		Surface	1.0	29.0 29.0	29.0	8.1 8.1	8.1	15.9 15.9	15.9	85.1 86.8	86.0	6.0 6.1	6.1	5.6	6.2 6.4	6.3		4.2 3.7	4.0	
				6.3	Middle	3.2	28.7 28.7	28.7	7.9 7.9	7.9	19.5 19.6	19.6	72.9 72.7	72.8	5.1 5.0	5.1	0.0	6.3 6.3	6.3	6.4	4.0 5.1	4.6	4.2
					Bottom	5.3	28.1 28.1	28.1	7.7 7.9	7.8	24.2 23.9	24.1	76.7 77.9	77.3	5.2 5.3	5.3	5.3	6.6 6.4	6.5		3.5 4.3	3.9	

Remarks:

* DA: Depth-Averaged

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

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

Date	Weather	Sea	Sampling	Water	Samplin	g	Tempera	ature (°C)	F	эΗ	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ved Oxyger	i (mg/L)	Т	urbidity(NTL	J)	Suspe	nded Solids	, (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth (m	n)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
22-Aug-14	Sunny	Moderate	17:57		Surface	1.0	29.1 29.0	29.1	8.1 8.1	8.1	16.4 16.7	16.6	84.7 88.4	86.6	5.9 6.2	6.1	5.7	11.4 11.3	11.4		2.9 2.5	2.7	
				6.2	Middle	3.1	29.0 29.0	29.0	8.1 8.1	8.1	17.2 17.2	17.2	75.1 76.9	76.0	5.3 5.4	5.3	5.7	12.1 12.2	12.2	12.0	4.0 3.1	3.6	3.4
					Bottom	5.2	27.3 27.4	27.4	7.9 7.9	7.9	25.1 25.0	25.1	74.2 75.7	75.0	5.1 5.2	5.2	5.2	12.4 12.3	12.4		4.0 4.0	4.0	
25-Aug-14	Sunny	Moderate	19:23		Surface	1.0	29.3 29.3	29.3	8.2 8.2	8.2	19.9 19.8	19.9	106.3 106.3	106.3	7.3 7.3	7.3	7.1	7.0 6.9	7.0		3.4 4.4	3.9	
				6.3	Middle	3.2	29.3 29.2	29.2	8.1 8.1	8.1	20.0 20.1	20.0	101.8 99.4	100.6	7.0 6.8	6.9	7.1	8.4 8.6	8.5	8.3	3.7 3.9	3.8	4.1
					Bottom	5.3	27.9 29.1	28.5	8.1 8.0	8.1	24.1 23.1	23.6	105.6 99.0	102.3	7.2 6.7	7.0	7.0	9.7 9.0	9.4		3.9 5.2	4.6	
27-Aug-14	Sunny	Moderate	06:53		Surface	1.0	28.0 28.0	28.0	8.0 8.0	8.0	21.5 21.5	21.5	76.4 75.9	76.2	5.3 5.3	5.3	5.2	11.3 11.5	11.4		12.4 12.5	12.5	
				6.4	Middle	3.2	27.5 27.7	27.6	8.0 8.0	8.0	23.3 22.8	23.1	73.9 73.7	73.8	5.1 5.1	5.1	5.2	11.9 11.7	11.8	11.7	12.1 12.6	12.4	13.2
					Bottom	5.4	27.6 27.4	27.5	8.0 8.0	8.0	24.7 24.7	24.7	70.6 71.6	71.1	4.9 4.9	4.9	4.9	11.6 11.9	11.8		14.4 14.9	14.7	
29-Aug-14	Sunny	Moderate	08:44		Surface	1.0	27.8 27.8	27.8	7.8 7.8	7.8	23.1 23.1	23.1	73.4 74.0	73.7	5.1 5.1	5.1	5.1	8.1 8.8	8.5		4.3 4.7	4.5	
				6.4	Middle	3.2	27.7 27.7	27.7	7.8 7.8	7.8	23.4 23.4	23.4	73.9 73.2	73.6	5.1 5.1	5.1	5.1	8.7 8.5	8.6	8.6	4.6 5.7	5.2	5.1
					Bottom	5.4	27.7 27.7	27.7	7.8 7.8	7.8	23.5 23.4	23.4	76.0 73.7	74.9	5.3 5.1	5.2	5.2	8.7 8.9	8.8		5.4 6.0	5.7	

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

Remarks:

* DA: Depth-Averaged

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

Water Quality Monitoring Results at IS5 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	þ	H	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	(mg/L)	٦	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*
1-Aug-14	Sunny	Moderate	14:37		Surface	1.0	30.3 30.5	30.4	8.0 7.9	8.0	19.1 18.8	18.9	102.9 105.6	104.3	7.0 7.2	7.1	-	5.1 5.0	5.1		3.5 3.2	3.4	
				8.5	Middle	4.3	30.1 30.1	30.1	7.9	7.9	21.9 22.0	22.0	103.1 101.6	102.4	6.9 6.8	6.9	7.0	5.3 5.1	5.2	5.2	3.9 4.4	4.2	4.2
					Bottom	7.5	30.1 30.1	30.1	7.9 7.9	7.9	22.3 22.2	22.2	104.6 106.6	105.6	7.0	7.1	7.1	5.1 5.3	5.2		5.0 4.9	5.0	
4-Aug-14	Sunny	Moderate	17:29		Surface	1.0	31.0 31.0	31.0	8.5 8.5	8.5	18.6 18.6	18.6	140.3 136.9	138.6	9.4 9.2	9.3		3.7 3.8	3.8		6.3 6.2	6.3	
				8.5	Middle	4.3	30.1 30.2	30.1	8.2 8.1	8.2	21.1	21.1	78.5	76.6	5.3 5.0	5.2	7.3	6.6 6.8	6.7	5.8	6.5 6.0	6.3	6.2
					Bottom	7.5	27.0 27.0	27.0	7.8	7.9	30.4 30.5	30.4	74.2	75.6	5.0 5.2	5.1	5.1	6.8 6.7	6.8		5.7 6.1	5.9	
6-Aug-14	Sunny	Moderate	09:59		Surface	1.0	29.5 29.6	29.5	8.6 8.5	8.5	19.2 18.5	18.8	82.4 87.2	84.8	5.7 6.0	5.8		4.6 4.5	4.6		3.6 3.6	3.6	
				8.8	Middle	4.4	27.8 26.9	27.4	8.5 8.5	8.5	27.6	28.2	74.8 75.5	75.2	5.2 5.2	5.2	5.5	4.4	4.4	4.5	4.3 4.6	4.5	4.5
					Bottom	7.8	27.0 27.0	27.0	8.4 8.4	8.4	28.9 28.9	28.9	73.7	74.0	5.0 5.1	5.1	5.1	4.6	4.5		5.6 5.3	5.5	
8-Aug-14	Sunny	Moderate	12:02		Surface	1.0	29.6 29.4	29.5	8.0 8.0	8.0	19.5 19.9	19.7	85.3 88.7	87.0	5.8 6.0	5.9		7.8 8.5	8.2		2.1 2.9	2.5	
				8.3	Middle	4.2	27.2 26.5	26.9	7.9 7.8	7.9	26.9 29.1	28.0	81.0 80.3	80.7	5.6 5.5	5.5	5.7	9.3 9.6	9.5	10.4	3.6 3.5	3.6	3.5
					Bottom	7.3	26.5 26.4	26.4	7.9	7.8	29.2 29.7	29.5	73.1 72.4	72.8	5.0 4.9	5.0	5.0	14.0 13.2	13.6		4.6	4.5	
11-Aug-14	Sunny	Moderate	11:58		Surface	1.0	28.9 28.9	28.9	8.2 8.2	8.2	23.2 23.3	23.3	74.4 74.8	74.6	5.1 5.1	5.1	5.4	17.5 16.9	17.2		14.1 14.0	14.1	
				8.8	Middle	4.4	28.9 28.9	28.9	8.2 8.2	8.2	23.3 23.3	23.3	74.7 74.3	74.5	5.1 5.0	5.1	5.1	17.7 16.7	17.2	17.2	17.0 17.4	17.2	16.4
					Bottom	7.8	28.9 28.8	28.9	8.2 8.2	8.2	23.3 23.3	23.3	74.9 74.4	74.7	5.1 5.0	5.1	5.1	17.8 16.5	17.2		18.1 17.8	18.0	
13-Aug-14***	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<u>-</u>
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
15-Aug-14	Sunny	Moderate	14:37		Surface	1.0	28.7 28.8	28.7	7.7 7.7	7.7	22.7 22.7	22.7	77.6 78.4	78.0	5.5 5.5	5.5	5.5	16.6 16.3	16.5		16.3 16.3	16.3	
				8.5	Middle	4.3	28.6 28.7	28.7	7.7 7.7	7.7	22.8 22.8	22.8	77.2 78.0	77.6	5.4 5.5	5.5	5.5	16.7 16.4	16.6	16.6	17.7 17.2	17.5	18.7
					Bottom	7.5	28.6 28.7	28.7	7.7 7.7	7.7	22.9 22.8	22.8	78.8 77.9	78.4	5.5 5.5	5.5	5.5	16.5 16.9	16.7		22.3 22.2	22.3	
18-Aug-14	Sunny	Moderate	08:30		Surface	1.0	29.5 29.5	29.5	8.0 8.0	8.0	18.1 18.4	18.3	79.7 82.9	81.3	5.5 5.7	5.6	5.4	8.3 8.1	8.2		3.1 3.2	3.2	
				8.3	Middle	4.2	28.6 27.0	27.8	7.9 7.9	7.9	24.5 24.7	24.6	74.1 76.5	75.3	5.1 5.2	5.1	0	12.6 12.9	12.8	11.0	3.0 3.3	3.2	3.6
					Bottom	7.3	26.9 26.9	26.9	7.9 7.9	7.9	28.2 28.0	28.1	73.0 72.9	73.0	4.9 4.9	4.9	4.9	11.7 12.2	12.0		4.5 4.4	4.5	
20-Aug-14	Rainy	Moderate	10:42		Surface	1.0	28.9 28.9	28.9	8.1 8.0	8.1	16.0 16.1	16.0	81.6 81.7	81.7	5.8 5.8	5.8	5.5	7.8 8.1	8.0		7.5 6.9	7.2	
				8.7	Middle	4.4	27.6 26.8	27.2	7.9 7.9	7.9	24.8 27.6	26.2	74.5 75.2	74.9	5.1 5.1	5.1		8.2 8.1	8.2	8.0	6.7 6.6	6.7	6.9
					Bottom	7.7	26.2 26.2	26.2	8.0 7.9	7.9	30.3 30.2	30.3	71.3 70.7	71.0	4.9 4.8	4.8	4.8	7.9 7.9	7.9		6.2 7.1	6.7	

* DA: Depth-Averaged

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

Water Quality Monitoring Results at IS5 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampli	ing	Tempera	ature (°C)	p	H	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	ı (mg/L)	Т	urbidity(NT	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*
22-Aug-14	Sunny	Moderate	12:15		Surface	1.0	28.8 28.9	28.8	8.0 8.0	8.0	15.7 15.2	15.4	74.8 76.5	75.7	5.3 5.4	5.4	5.3	8.5 8.4	8.5		4.9 4.6	4.8	
				8.6	Middle	4.3	26.8 26.7	26.8	7.9 8.0	7.9	26.2 25.8	26.0	70.8 70.6	70.7	5.1 5.1	5.1	5.5	8.4 8.5	8.5	8.6	4.4 4.9	4.7	4.8
					Bottom	7.6	26.6 26.7	26.7	7.9 7.9	7.9	27.1 27.0	27.1	70.2 69.8	70.0	5.0 4.8	4.9	4.9	8.8 8.6	8.7		5.1 4.8	5.0	
25-Aug-14	Sunny	Moderate	14:14		Surface	1.0	28.8 28.8	28.8	8.1 8.1	8.1	20.8 20.9	20.8	85.8 84.0	84.9	5.9 5.8	5.8	5.6	8.9 9.3	9.1		3.9 4.4	4.2	
				8.4	Middle	4.2	27.2 26.6	26.9	8.0 8.0	8.0	26.7 27.3	27.0	74.8 78.5	76.7	5.1 5.4	5.3	0.0	10.1 9.8	10.0	10.3	4.6 4.0	4.3	4.6
					Bottom	7.4	26.3 26.5	26.4	7.9 8.0	8.0	28.7 28.3	28.5	69.3 70.4	69.9	4.8 4.8	4.8	4.8	11.6 12.1	11.9		4.9 5.6	5.3	
27-Aug-14	Sunny	Moderate	12:56		Surface	1.0	28.1 28.1	28.1	8.1 8.1	8.1	23.1 23.1	23.1	77.9 77.3	77.6	5.4 5.3	5.3	5.3	11.4 11.2	11.3		11.4 11.6	11.5	
				8.6	Middle	4.3	28.1 28.1	28.1	8.1 8.1	8.1	23.2 23.3	23.2	77.2 76.7	77.0	5.3 5.3	5.3	5.5	11.3 11.3	11.3	11.4	12.0 12.0	12.0	12.0
					Bottom	7.6	28.1 28.1	28.1	8.1 8.1	8.1	23.4 23.4	23.4	77.7 77.8	77.8	5.3 5.3	5.3	5.3	11.5 11.5	11.5		13.0 12.0	12.5	
29-Aug-14	Sunny	Moderate	13:59		Surface	1.0	28.1 28.1	28.1	7.8 7.8	7.8	24.8 24.8	24.8	76.9 77.1	77.0	5.2 5.3	5.2	5.2	20.4 20.1	20.3		4.3 4.4	4.4	
				8.5	Middle	4.3	28.1 28.1	28.1	7.8 7.8	7.8	24.9 25.0	24.9	76.9 77.1	77.0	5.2 5.2	5.2	5.2	20.7 21.2	21.0	20.7	3.9 5.1	4.5	4.6
					Bottom	7.5	28.1 28.1	28.1	7.8 7.8	7.8	24.9 25.0	25.0	76.9 77.0	77.0	5.2 5.2	5.2	5.2	20.3 21.5	20.9		4.8 4.8	4.8	

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

Remarks:

* DA: Depth-Averaged

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

Water Quality Monitoring Results at IS5 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	H	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	/ed 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*
1-Aug-14	Sunny	Moderate	10:04		Surface	1.0	29.7 29.8	29.7	8.2 8.2	8.2	21.0 21.0	21.0	95.2 98.3	96.8	6.5 6.7	6.6	6.4	5.7 5.3	5.5		5.1 4.4	4.8	
				8.4	Middle	4.2	29.3 29.6	29.4	8.1 8.1	8.1	22.4 21.7	22.0	90.3 93.3	91.8	6.1 6.3	6.2	6.4	7.6 7.2	7.4	7.1	5.2 5.9	5.6	5.3
					Bottom	7.4	29.2 29.3	29.3	8.1 8.1	8.1	22.7 22.6	22.7	94.3 94.9	94.6	6.4 6.4	6.4	6.4	8.8 8.1	8.5		5.8 5.3	5.6	
4-Aug-14	Sunny	Moderate	13:44		Surface	1.0	30.9 30.9	30.9	8.4 8.4	8.4	19.6 19.7	19.7	137.2 140.4	138.8	9.2 9.4	9.3		6.3 6.5	6.4		4.2 3.8	4.0	
				8.6	Middle	4.3	29.6 30.1	29.8	8.0 8.1	8.0	23.4 22.9	23.1	81.7 80.5	81.1	5.5 5.4	5.5	7.4	6.1 6.3	6.2	6.3	4.2	4.0	4.1
					Bottom	7.6	26.8 26.8	26.8	7.9	7.9	30.2 30.2	30.2	73.7	74.0	4.9	5.0	5.0	6.2 6.3	6.3		4.3	4.4	
6-Aug-14	Sunny	Moderate	15:10		Surface	1.0	29.5 29.9	29.7	8.5 8.5	8.5	21.7 20.7	21.2	88.6 94.0	91.3	6.0 6.4	6.2		4.5 4.6	4.6		3.8 4.0	3.9	
				8.7	Middle	4.4	27.7 27.8	27.8	8.5 8.5	8.5	25.5 26.2	25.9	73.9 74.6	74.3	5.1 5.1	5.1	5.7	8.6 8.3	8.5	7.2	6.4 6.4	6.4	5.7
					Bottom	7.7	27.4 27.5	27.5	8.5 8.5	8.5	28.0 27.7	27.9	73.6 72.9	73.3	5.0 5.0	5.0	5.0	8.5 8.6	8.6		6.7 6.7	6.7	
8-Aug-14	Sunny	Moderate	16:50		Surface	1.0	30.3 30.4	30.3	8.3 8.3	8.3	20.8 20.7	20.7	114.5 115.6	115.1	7.7 7.8	7.7	6.9	8.6 9.0	8.8		6.2 6.1	6.2	
				8.4	Middle	4.2	29.4 29.2	29.3	8.1 8.0	8.1	22.5 23.0	22.8	92.8 89.1	91.0	6.3 6.0	6.1	0.9	12.0 12.1	12.1	11.0	7.6 7.6	7.6	7.2
					Bottom	7.4	29.1 29.2	29.2	8.0 8.1	8.0	23.4 23.1	23.3	93.1 94.4	93.8	6.3 6.4	6.3	6.3	12.3 12.1	12.2		7.9 7.8	7.9	
11-Aug-14	Sunny	Moderate	07:12		Surface	1.0	29.0 29.0	29.0	8.2 8.2	8.2	22.7 22.7	22.7	79.1 77.8	78.5	5.4 5.3	5.3	5.4	7.5 8.0	7.8		6.1 6.1	6.1	
				8.7	Middle	4.4	29.0 29.0	29.0	8.2 8.2	8.2	22.7 22.8	22.7	80.5 77.4	79.0	5.5 5.3	5.4	5.4	8.5 8.2	8.4	8.2	6.8 6.4	6.6	7.1
					Bottom	7.7	29.0 29.0	29.0	8.2 8.2	8.2	22.8 22.8	22.8	82.8 77.8	80.3	5.6 5.3	5.5	5.5	8.8 8.2	8.5		8.3 8.7	8.5	
13-Aug-14	Rainy	Moderate	09:35		Surface	1.0	28.5 28.5	28.5	7.9 7.9	7.9	22.2 22.0	22.1	75.8 77.2	76.5	5.2 5.3	5.3	5.3	12.4 11.3	11.9		6.2 6.1	6.2	
				8.7	Middle	4.4	28.5 28.5	28.5	7.9 7.9	7.9	22.7 22.6	22.6	75.0 76.0	75.5	5.1 5.2	5.2	0.0	14.2 13.1	13.7	13.3	7.6 7.6	7.6	7.2
					Bottom	7.7	28.5 28.5	28.5	7.8 7.9	7.8	22.9 22.9	22.9	76.8 76.3	76.6	5.2 5.2	5.2	5.2	14.0 14.4	14.2		7.9 7.8	7.9	
15-Aug-14	Sunny	Moderate	11:05		Surface	1.0	28.6 28.6	28.6	7.8 7.8	7.8	21.9 21.9	21.9	75.8 76.0	75.9	5.4 5.4	5.4	5.4	8.4 8.2	8.3		7.5 7.0	7.3	
				8.6	Middle	4.3	28.3 28.3	28.3	7.8 7.8	7.8	22.2 22.2	22.2	74.4 74.0	74.2	5.3 5.3	5.3	•••	8.8 8.7	8.8	8.6	8.3 7.8	8.1	7.9
					Bottom	7.6	28.3 28.2	28.3	7.8 7.8	7.8	22.3 22.4	22.3	75.1 73.0	74.1	5.3 5.2	5.3	5.3	8.5 8.6	8.6		8.2 8.1	8.2	
18-Aug-14	Sunny	Moderate	12:23		Surface	1.0	29.8 29.9	29.9	8.0 8.0	8.0	20.1 20.0	20.1	84.6 86.1	85.4	5.8 5.8	5.8	5.6	7.3 7.1	7.2		2.4 3.0	2.7	
				8.5	Middle	4.3	28.7 28.7	28.7	7.9 7.9	7.9	23.7 23.7	23.7	77.8 78.2	78.0	5.3 5.3	5.3		11.3 11.5	11.4	10.6	3.2 3.4	3.3	3.2
					Bottom	7.5	27.7 27.9	27.8	7.8 7.9	7.8	25.9 26.0	25.9	71.0 71.2	71.1	4.8 4.8	4.8	4.8	12.7 13.4	13.1		3.5 3.6	3.6	
20-Aug-14	Rainy	Moderate	15:58		Surface	1.0	28.9 28.9	28.9	8.0 8.0	8.0	16.1 16.1	16.1	88.0 89.0	88.5	6.2 6.3	6.2	5.7	7.7	7.7		4.8 5.6	5.2]
				8.5	Middle	4.3	28.4 28.1	28.3	7.8 7.8	7.8	21.7 22.0	21.9	75.8 76.3	76.1	5.2 5.2	5.2		7.7 7.8	7.8	7.8	5.1 4.6	4.9	5.4
					Bottom	7.5	26.4 26.3	26.3	7.7 7.8	7.8	30.0 30.4	30.2	75.2 75.9	75.6	5.1 5.2	5.1	5.1	7.8 7.9	7.9		6.4 6.0	6.2	

Remarks:

* DA: Depth-Averaged

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

Water Quality Monitoring Results at IS5 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Sampli	ing	Tempera	ature (°C)	F	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	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*
22-Aug-14	Sunny	Moderate	17:10		Surface	1.0	29.5 29.3	29.4	8.2 8.2	8.2	17.6 18.1	17.8	95.9 93.0	94.5	6.6 6.4	6.5	5.8	9.8 9.9	9.9		3.4 3.2	3.3	
				8.6	Middle	4.3	28.5 28.4	28.5	8.1 8.1	8.1	20.5 20.5	20.5	74.9 73.4	74.2	5.2 5.1	5.1	5.6	9.8 9.8	9.8	9.8	4.7 5.2	5.0	4.6
					Bottom	7.6	27.6 27.5	27.6	8.0 8.0	8.0	24.0 24.6	24.3	76.9 77.1	77.0	5.3 5.3	5.3	5.3	9.7 9.7	9.7		5.7 5.0	5.4	
25-Aug-14	Sunny	Moderate	18:26		Surface	1.0	29.8 29.7	29.8	8.2 8.1	8.2	20.4 20.7	20.6	88.7 84.9	86.8	6.0 5.8	5.9	5.6	9.3 9.1	9.2		6.6 6.4	6.5	
				8.5	Middle	4.3	28.4 28.2	28.3	8.1 8.0	8.0	23.2 24.1	23.6	78.0 75.5	76.8	5.3 5.2	5.2	0.0	9.6 9.7	9.7	10.0	8.3 8.0	8.2	8.3
					Bottom	7.5	27.7 27.6	27.6	8.0 7.9	8.0	25.4 24.8	25.1	76.0 74.3	75.2	5.2 5.1	5.2	5.2	10.8 11.3	11.1		10.3 9.8	10.1	
27-Aug-14	Sunny	Moderate	07:39		Surface	1.0	28.4 28.4	28.4	8.1 8.1	8.1	21.6 21.7	21.7	83.3 80.5	81.9	5.7 5.6	5.6	5.4	10.5 10.3	10.4		12.8 12.8	12.8	
				8.4	Middle	4.2	28.1 28.0	28.1	8.1 8.1	8.1	22.1 22.3	22.2	74.5 74.3	74.4	5.1 5.1	5.1	5.5	10.5 10.1	10.3	10.4	12.8 12.9	12.9	12.9
					Bottom	7.4	27.7 27.7	27.7	8.0 8.0	8.0	24.2 24.5	24.4	76.0 77.5	76.8	5.2 5.3	5.3	5.3	10.4 10.3	10.4		13.0 12.9	13.0	
29-Aug-14	Sunny	Moderate	09:29		Surface	1.0	28.1 28.0	28.1	8.0 8.0	8.0	23.4 23.4	23.4	78.1 77.4	77.8	5.4 5.3	5.3	5.3	12.4 12.5	12.5		7.4 7.0	7.2	
				8.4	Middle	4.2	28.0 27.9	28.0	8.0 8.0	8.0	23.5 23.6	23.6	76.3 76.8	76.6	5.2 5.3	5.3	5.5	12.0 12.5	12.3	12.5	7.1 5.7	6.4	6.6
					Bottom	7.4	27.8 27.9	27.8	8.0 8.0	8.0	23.9 23.8	23.8	78.1 76.6	77.4	5.4 5.3	5.3	5.3	12.5 12.6	12.6		7.1 5.4	6.3	

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

Remarks:

* DA: Depth-Averaged

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

Water Quality Monitoring Results at IS7 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	F	ъН	Salini	ity (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	(mg/L)	T	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*
1-Aug-14	Sunny	Moderate	14:54		Surface	1.0	30.3 30.4	30.3	8.2 8.2	8.2	21.5 21.5	21.5	129.8 134.5	132.2	8.6 9.0	8.8	0.0	5.3 5.1	5.2		3.4 3.3	3.4	
				3.2	Middle	-	-	-		-	-	-	-	-	-	-	8.8	-	-	6.4	-	-	4.2
					Bottom	2.2	30.2 30.3	30.2	8.0 8.2	8.1	22.0 21.7	21.8	114.0 127.4	120.7	7.6 8.5	8.1	8.1	7.3 7.6	7.5		5.3 4.7	5.0	1
4-Aug-14	Sunny	Moderate	17:43		Surface	1.0	31.3 31.3	31.3	8.5 8.5	8.5	19.1 19.2	19.2	167.8 172.4	170.1	10.5 10.8	10.6	10.6	3.5 3.3	3.4		5.3 5.4	5.4	
				3.4	Middle	-	-	-		-	-	-		-	-	-	10.6	-	-	3.5	-	-	5.4
					Bottom	2.4	30.7 30.8	30.8	8.4 8.5	8.5	20.2 20.1	20.1	151.1 150.8	151.0	9.4 9.4	9.4	9.4	3.6 3.6	3.6		5.1 5.6	5.4	
6-Aug-14	Sunny	Moderate	09:44		Surface	1.0	30.1 29.9	30.0	8.4 8.3	8.4	21.0 21.2	21.1	97.5 89.9	93.7	6.6 6.1	6.3	<u> </u>	7.9 7.4	7.7		4.4 3.9	4.2	
				3.2	Middle	-	-	-		-	-	-	-	-	-	-	6.3	-	-	7.8	-	-	4.2
					Bottom	2.2	29.6 29.3	29.4	8.4 8.2	8.3	22.4 22.9	22.7	91.3 89.2	90.3	6.2 6.0	6.1	6.1	7.9 7.8	7.9		4.0 4.4	4.2	
8-Aug-14	Sunny	Moderate	11:41		Surface	1.0	29.8 29.8	29.8	8.1 8.1	8.1	20.1 20.1	20.1	104.8 101.3	103.1	7.1 6.9	7.0	7.0	7.7 7.4	7.6		2.2 2.2	2.2	
				3.2	Middle	-	-	-	-	-	-	-	-	-	-	-	7.0	-	-	8.3	-	-	2.4
					Bottom	2.2	29.8 29.8	29.8	8.1 8.1	8.1	20.3 20.4	20.3	103.1 99.5	101.3	7.0 6.8	6.9	6.9	9.3 8.5	8.9		2.6 2.6	2.6	
11-Aug-14	Sunny	Moderate	12:18		Surface	1.0	29.4 29.3	29.3	8.2 8.2	8.2	22.0 22.1	22.1	86.8 85.7	86.3	5.9 5.8	5.8	5.8	7.2 6.9	7.1		4.2 4.8	4.5	
				3.5	Middle	-	-	-	-	-	-	-	-	-	-	-	5.6	-	-	7.8	-	-	4.8
					Bottom	2.5	29.1 29.3	29.2	8.2 8.2	8.2	22.4 22.6	22.5	88.3 85.8	87.1	6.0 5.8	5.9	5.9	8.6 8.3	8.5		4.7 5.2	5.0	
13-Aug-14***	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-
					Bottom	-	-	-		-	-	-	-	-	-	-	-	-	-		-	-	
15-Aug-14	Sunny	Moderate	15:02		Surface	1.0	29.5 29.5	29.5	7.8 7.8	7.8	21.3 21.3	21.3	86.3 85.1	85.7	6.0 5.9	6.0	<u> </u>	5.7 5.8	5.8		4.0 3.9	4.0	
				3.6	Middle	-	-	-		-	-	-		-	-	-	6.0	-	-	6.1	-	-	4.3
					Bottom	2.6	29.2 29.2	29.2	7.8 7.8	7.8	21.9 22.1	22.0	87.0 84.6	85.8	6.1 5.9	6.0	6.0	6.2 6.4	6.3		4.3 4.9	4.6	
18-Aug-14	Sunny	Moderate	08:06		Surface	1.0	30.0 30.1	30.1	7.9 7.9	7.9	18.2 18.2	18.2	95.6 97.4	96.5	6.5 6.7	6.6		5.2 5.3	5.3		1.7 1.4	1.6	[
				3.1	Middle	-	-	-	-	-	-	-	-	-	-	-	6.6	-	-	6.2	-	-	2.1
					Bottom	2.1	30.2 30.2	30.2	7.8 7.9	7.8	19.4 19.5	19.5	90.4 96.1	93.3	6.1 6.5	6.3	6.3	7.0 6.9	7.0		2.4 2.7	2.6	1
20-Aug-14	Rainy	Moderate	10:27		Surface	1.0	29.0 29.1	29.0	8.1 8.1	8.1	15.7 15.6	15.6	90.2 91.8	91.0	6.4 6.5	6.4	6.4	10.6 10.4	10.5		6.0 4.5	5.3	
				3.2	Middle	-	-	-	-	-	-	-	-	-	-	-	6.4	-	-	10.6	-	-	5.1
					Bottom	2.2	29.6 30.0	29.8	8.0 8.0	8.0	17.2 17.1	17.2	91.3 90.1	90.7	6.3 6.2	6.3	6.3	10.5 10.7	10.6		4.5 5.2	4.9	1

Remarks:

* DA: Depth-Averaged

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

Water Quality Monitoring Results at IS7 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampl	ling	Tempera	ature (°C)	F	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	n (mg/L)	Т	้urbidity(NTเ	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*
22-Aug-14	Sunny	Moderate	12:01		Surface	1.0	28.7 28.9	28.8	8.1 8.1	8.1	18.4 18.3	18.3	82.9 85.2	84.1	5.8 5.9	5.9	5.9	8.6 8.1	8.4		1.9 1.9	1.9	
				3.3	Middle	-	-	-	-	-	-	-	-	-	-	-	5.9	-	-	8.6	-	-	1.8
					Bottom	2.3	28.5 28.7	28.6	7.9 8.0	7.9	21.0 21.2	21.1	83.0 86.0	84.5	5.7 5.9	5.8	5.8	8.7 8.8	8.8		1.6 1.8	1.7	
25-Aug-14	Sunny	Moderate	13:54		Surface	1.0	28.9 28.9	28.9	8.2 8.1	8.1	19.1 19.2	19.2	97.2 96.2	96.7	6.7 6.7	6.7	6.7	11.4 11.8	11.6		3.5 3.1	3.3	
				3.2	Middle	-	-	-	-	-		-	-	-	-	-	0.7	-	-	12.3	-	-	3.5
					Bottom	2.2	28.8 28.8	28.8	8.1 8.1	8.1	20.8 20.8	20.8	97.8 97.8	97.8	6.7 6.7	6.7	6.7	12.6 13.1	12.9		3.9 3.2	3.6	
27-Aug-14	Sunny	Moderate	13:10		Surface	1.0	28.4 28.4	28.4	8.1 8.1	8.1	21.5 21.6	21.6	91.4 91.9	91.7	6.3 6.3	6.3	6.3	5.7 5.7	5.7		6.6 6.0	6.3	
				3.2	Middle	-	-	-	-	-		-	-	-	-	-	0.5	-	-	5.7	-	-	6.6
					Bottom	2.2	28.4 28.4	28.4	8.1 8.1	8.1	21.5 21.6	21.6	91.5 92.8	92.2	6.3 6.4	6.4	6.4	5.7 5.6	5.7		7.0 6.6	6.8	
29-Aug-14	Sunny	Moderate	14:13		Surface	1.0	29.8 29.7	29.8	8.0 8.0	8.0	24.0 24.1	24.0	86.9 81.6	84.3	5.8 5.4	5.6	5.6	7.6 7.7	7.7		3.7 2.8	3.3	
				3.1	Middle	-	-	-	-	-	-	-	-	-	-	-	5.0	-	-	7.7	-	-	2.9
					Bottom	2.1	28.4 28.7	28.5	8.0 8.0	8.0	24.6 24.4	24.5	80.7 84.6	82.7	5.5 5.7	5.6	5.6	7.7 7.5	7.6		2.3 2.6	2.5	

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

Remarks:

* DA: Depth-Averaged

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

Water Quality Monitoring Results at IS7 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	н	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	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*
1-Aug-14	Sunny	Moderate	09:48		Surface	1.0	30.1 30.2	30.2	8.0 8.1	8.1	20.6 20.5	20.6	103.8 103.3	103.6	7.0 7.0	7.0	7.0	10.5 10.1	10.3		2.5 2.7	2.6	
				3.4	Middle	-	-	-	-	-	-	-		-	-	-	7.0	-	-	12.5	-	-	3.2
					Bottom	2.4	30.1 30.1	30.1	8.0 8.0	8.0	21.0 21.0	21.0	100.5 104.5	102.5	6.8 7.0	6.9	6.9	14.2 15.2	14.7		3.8 3.8	3.8	
4-Aug-14	Sunny	Moderate	13:29		Surface	1.0	31.1 31.0	31.0	8.2 8.3	8.3	19.2 19.4	19.3	156.0 158.5	157.3	10.4 10.6	10.5		3.5 3.5	3.5		2.8 2.4	2.6	
				3.1	Middle	-	-	-	-	-	-	-	-	-	-	-	10.5	-	-	3.6	-	-	3.1
					Bottom	2.1	30.7 30.8	30.7	8.2 8.2	8.2	20.1 20.4	20.2	143.6 158.5	151.1	9.6 10.6	10.1	10.1	3.6 3.7	3.7		3.9 3.3	3.6	
6-Aug-14	Sunny	Moderate	15:22		Surface	1.0	29.7 30.0	29.8	8.5 8.5	8.5	21.3 20.7	21.0	94.6 92.2	93.4	6.4 6.2	6.3		7.8 7.7	7.8		5.2 5.3	5.3	
				3.2	Middle	-	-	-	-	-	-	-	-	-	-	-	6.3	-	-	7.8		-	5.5
					Bottom	2.2	29.4 28.9	29.1	8.5 8.5	8.5	23.0 23.4	23.2	96.2 85.9	91.1	6.5 5.8	6.2	6.2	7.5 7.8	7.7		5.9 5.2	5.6	
8-Aug-14	Sunny	Moderate	17:07		Surface	1.0	30.4 30.3	30.4	8.1 8.0	8.0	20.7 20.8	20.8	133.3 123.3	128.3	8.9 8.3	8.6		9.1 9.4	9.3		5.7 5.6	5.7	
				3.1	Middle	-	-	-	-	-	-	-	-	-	-	-	8.6	-	-	10.2	-	-	6.0
					Bottom	2.1	30.4 30.0	30.2	8.0 7.9	8.0	20.9 21.4	21.2	127.3 117.3	122.3	8.5 7.9	8.2	8.2	10.7 11.2	11.0		6.0 6.6	6.3	
11-Aug-14	Sunny	Moderate	06:53		Surface	1.0	28.7 28.7	28.7	8.2 8.2	8.2	22.1 22.1	22.1	86.8 84.5	85.7	6.0 5.8	5.9	ΕQ	8.7 9.2	9.0		4.9 5.0	5.0	
				3.2	Middle	-	-	-	-	-	-	-		-	-	-	5.9	-	-	9.0	-	-	5.8
					Bottom	2.2	28.8 28.7	28.7	8.2 8.2	8.2	22.3 22.1	22.2	85.3 82.1	83.7	5.8 5.6	5.7	5.7	9.3 8.5	8.9		6.3 6.9	6.6	
13-Aug-14	Rainy	Moderate	09:10		Surface	1.0	28.4 28.5	28.5	7.9 7.9	7.9	22.1 22.1	22.1	78.1 77.7	77.9	5.4 5.3	5.4	5.4	8.3 8.1	8.2		5.7 5.6	5.7	
				3.3	Middle	-	-	-	-	-	-	-	-	-	-	-	5.4	-	-	8.2	-	-	6.0
					Bottom	2.3	28.5 28.5	28.5	7.9 7.9	7.9	22.1 22.2	22.2	77.9 77.8	77.9	5.4 5.3	5.3	5.3	8.3 8.0	8.2		6.0 6.6	6.3	
15-Aug-14	Sunny	Moderate	10:50		Surface	1.0	28.6 28.5	28.5	7.8 7.8	7.8	21.7 21.7	21.7	80.0 77.7	78.9	5.7 5.5	5.6	5.6	6.9 7.0	7.0		3.3 3.8	3.6	
				3.2	Middle	-	-	-	-	-	-	-	-	-	-	-	5.0	-	-	7.0	-	-	4.0
					Bottom	2.2	28.5 28.5	28.5	7.8 7.8	7.8	21.8 21.9	21.9	78.4 83.9	81.2	5.5 5.9	5.7	5.7	6.9 6.8	6.9		4.8 3.9	4.4	
18-Aug-14	Sunny	Moderate	12:42		Surface	1.0	30.6 30.5	30.6	8.0 8.0	8.0	19.7 19.7	19.7	99.7 99.4	99.6	6.7 6.7	6.7	6.7	8.9 9.2	9.1		4.2 4.8	4.5	
				3.1	Middle	-	-	-	-	-		-	-	-	-	-	0.7	-	-	9.6	-	-	4.7
					Bottom	2.1	30.0 30.4	30.2	7.8 7.9	7.9	20.2 20.1	20.2	96.5 100.6	98.6	6.5 6.8	6.7	6.7	9.7 10.2	10.0		4.8 4.7	4.8	
20-Aug-14	Rainy	Moderate	16:14		Surface	1.0	29.2 29.2	29.2	8.1 8.0	8.1	16.0 16.0	16.0	95.3 95.7	95.5	6.7 6.7	6.7	6.7	10.2 10.1	10.2		5.9 6.0	6.0	
				3.2	Middle	-	-	-	-	-		-	-	-	-	-	0.7	-	-	10.3	-	-	6.3
					Bottom	2.2	29.3 29.5	29.4	8.0 7.9	8.0	16.9 16.9	16.9	97.0 97.4	97.2	6.8 6.8	6.8	6.8	10.4 10.1	10.3		7.3 5.9	6.6	1

Remarks:

* DA: Depth-Averaged

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

Water Quality Monitoring Results at IS7 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Sampli	ng	Tempera	ature (°C)	F	Η	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ved Oxyger	(mg/L)	Т	urbidity(NTL	J)	Suspe	nded Solids	3 (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*
22-Aug-14	Sunny	Moderate	17:24		Surface	1.0	29.4 29.5	29.5	8.0 8.0	8.0	18.6 18.4	18.5	82.3 93.1	87.7	5.7 6.4	6.0	6.0	18.5 18.1	18.3		1.4 1.7	1.6	
				3.1	Middle	-	-	-	-	-	-	-	-	-	-	-	0.0	-	-	18.5	-	-	1.7
					Bottom	2.1	29.1 28.6	28.9	7.9 7.8	7.9	20.1 21.5	20.8	85.8 82.1	84.0	5.9 5.7	5.8	5.8	18.7 18.7	18.7		1.7 1.6	1.7	
25-Aug-14	Sunny	Moderate	18:46		Surface	1.0	29.9 29.9	29.9	8.4 8.4	8.4	20.0 19.9	19.9	135.5 136.7	136.1	9.2 9.3	9.2	9.2	6.6 6.3	6.5		4.2 4.2	4.2	
				3.0	Middle	-	-	-		-	-	-	-	-	-	-	5.2	-	-	6.9	-	-	4.9
					Bottom	2.0	29.8 29.8	29.8	8.3 8.4	8.3	20.2 20.1	20.2	134.6 136.8	135.7	9.1 9.3	9.2	9.2	7.5 7.1	7.3		5.4 5.6	5.5	
27-Aug-14	Sunny	Moderate	07:25		Surface	1.0	28.5 28.5	28.5	8.1 8.1	8.1	21.2 21.1	21.2	91.0 91.7	91.4	6.3 6.3	6.3	6.3	6.0 6.1	6.1		7.2 7.7	7.5	
				3.1	Middle	-	-	-	-	-	-	-	-	-	-	-	0.5	-	-	6.2	-	-	8.3
					Bottom	2.1	28.5 28.5	28.5	8.1 8.1	8.1	21.5 21.6	21.6	91.3 94.2	92.8	6.3 6.5	6.4	6.4	6.1 6.4	6.3		9.1 8.8	9.0	
29-Aug-14	Sunny	Moderate	09:13		Surface	1.0	28.3 28.3	28.3	8.0 8.0	8.0	23.1 23.1	23.1	82.9 81.4	82.2	5.7 5.6	5.6	5.6	7.2 7.5	7.4		4.9 4.1	4.5	
				3.2	Middle	-	-	-	-	-	-	-	-	-	-	-	5.0	-	-	7.5	-	-	4.3
					Bottom	2.2	28.1 28.2	28.2	8.0 8.0	8.0	23.4 23.3	23.4	81.8 81.6	81.7	5.6 5.6	5.6	5.6	7.5 7.4	7.5		4.5 3.4	4.0	

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

Remarks:

* DA: Depth-Averaged

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

Water Quality Monitoring Results at IS8 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	(mg/L)		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*
1-Aug-14	Sunny	Moderate	15:21		Surface	1.0	29.7 29.6	29.7	8.0 8.0	8.0	21.9 22.1	22.0	87.8 83.0	85.4	5.9 5.6	5.8	5.8	7.9 8.2	8.1		3.7 3.7	3.7	
				3.7	Middle	-	-	-	-	-		-	-	-	-	-	5.0	-	-	10.3	-	-	3.9
					Bottom	2.7	29.5 29.6	29.6	8.0 7.9	8.0	22.5 22.4	22.4	93.0 87.6	90.3	6.3 5.9	6.1	6.1	12.3 12.5	12.4		4.0 3.9	4.0	
4-Aug-14	Sunny	Moderate	18:07		Surface	1.0	30.6 30.4	30.5	8.5 8.5	8.5	19.3 19.4	19.3	131.3 142.6	137.0	8.8 9.6	9.2	0.0	8.4 8.5	8.5		2.8 3.4	3.1	
				4.0	Middle	-	-	-	-	-	-	-		-	-	-	9.2	-	-	8.7	-	-	3.5
					Bottom	3.0	29.9 29.7	29.8	8.5 8.5	8.5	21.7 21.7	21.7	141.5 120.2	130.9	9.5 8.1	8.8	8.8	8.7 8.9	8.8		4.4 3.3	3.9	
6-Aug-14	Sunny	Moderate	09:20		Surface	1.0	30.0 30.0	30.0	8.5 8.5	8.5	20.3 20.3	20.3	91.7 93.5	92.6	6.2 6.3	6.3	6.3	3.8 4.0	3.9		2.9 3.1	3.0	
				4.0	Middle	-	-	-	-	-	-	-	-	-	-	-	0.5	-	-	4.3	-	-	3.0
					Bottom	3.0	28.0 27.9	28.0	8.5 8.5	8.5	24.6 26.3	25.4	87.9 92.3	90.1	6.0 6.2	6.1	6.1	4.8 4.6	4.7		3.3 2.7	3.0	
8-Aug-14	Sunny	Moderate	11:18		Surface	1.0	29.7 29.7	29.7	8.3 8.3	8.3	19.5 19.5	19.5	105.3 109.2	107.3	7.2 7.5	7.3	7.3	5.8 5.4	5.6		1.9 2.2	2.1	
				3.7	Middle	-	-	-		-		-		-	-	-	7.5	-	-	6.4	-	-	2.6
					Bottom	2.7	29.6 29.7	29.6	8.2 8.3	8.2	20.6 21.2	20.9	106.3 109.3	107.8	7.2 7.4	7.3	7.3	7.3 6.8	7.1		2.9 3.1	3.0	
11-Aug-14	Sunny	Moderate	12:44		Surface	1.0	29.0 29.0	29.0	8.2 8.2	8.2	22.2 22.1	22.2	80.6 80.6	80.6	5.5 5.5	5.5	5.5	6.9 6.6	6.8		4.4 4.7	4.6	
				3.7	Middle	-	-	-		-		-		-	-	-	0.0	-	-	7.3	-	-	4.8
					Bottom	2.7	29.0 29.0	29.0	8.2 8.2	8.2	22.6 22.6	22.6	80.7 80.7	80.7	5.5 5.5	5.5	5.5	7.4 8.0	7.7		4.8 4.9	4.9	
13-Aug-14***	-	-	-		Surface	-	-	-		-		-		-	-	-	-	-	-		-	-	
				-	Middle	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
15-Aug-14	Sunny	Moderate	15:39		Surface	1.0	29.5 29.7	29.6	7.8 7.8	7.8	20.6 20.5	20.5	77.5 79.6	78.6	5.4 5.6	5.5	5.5	8.4 8.1	8.3		7.0 7.0	7.0	
				4.0	Middle	-	-	-	-	-	-	-	-	-	-	-		-	-	8.4	-	-	7.7
					Bottom	3.0	28.4 28.3	28.4	7.8 7.8	7.8	22.2 22.2	22.2	78.6 74.6	76.6	5.6 5.3	5.4	5.4	8.5 8.5	8.5		8.2 8.4	8.3	
18-Aug-14	Sunny	Moderate	07:34		Surface	1.0	29.6 29.7	29.7	7.9 7.9	7.9	18.4 18.7	18.6	90.7 90.8	90.8	6.2 6.2	6.2	6.2	5.3 5.2	5.3		2.5 2.7	2.6	
				3.7	Middle	-	-	-	-	-	-	-	-	-	-	-		-	-	5.5	-	-	2.6
					Bottom	2.7	29.5 29.7	29.6	7.8 7.9	7.9	19.8 19.7	19.7	96.1 91.4	93.8	6.6 6.2	6.4	6.4	5.8 5.6	5.7		2.6 2.6	2.6	
20-Aug-14	Rainy	Moderate	10:04		Surface	1.0	29.1 29.2	29.1	8.0 8.0	8.0	15.1 16.2	15.6	90.1 91.6	90.9	6.4 6.4	6.4	6.4	7.8 8.0	7.9		4.8 4.7	4.8	
				3.9	Middle	-	-	-	-	-	-	-	-	-	-	-	0	-	-	8.3	-	-	4.9
					Bottom	2.9	29.1 29.2	29.1	7.9 8.0	8.0	18.2 19.2	18.7	83.8 92.9	88.4	5.8 6.4	6.1	6.1	8.7 8.6	8.7		5.3 4.4	4.9	

Remarks:

* DA: Depth-Averaged

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

Water Quality Monitoring Results at IS8 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampli	ing	Tempera	ature (°C)	p	Η	Salinit	y (ppt)	DO Satu	ration (%)	Dissolv	ved Oxyger	(mg/L)	Т	urbidity(NTL	J)	Suspe	nded Solids	; (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth ((m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
22-Aug-14	Sunny	Moderate	11:37		Surface	1.0	28.8 28.7	28.8	8.0 8.0	8.0	17.8 17.9	17.8	81.1 81.5	81.3	5.7 5.7	5.7	5.7	4.6 4.8	4.7		2.3 2.1	2.2	
				4.1	Middle	-		-		-	-	-		-	-	-	5.7	-	-	4.8	-	-	3.1
					Bottom	3.1	28.5 28.4	28.4	8.0 7.9	7.9	21.4 20.6	21.0	82.6 79.1	80.9	5.7 5.5	5.6	5.6	4.7 4.8	4.8		4.0 3.9	4.0	
25-Aug-14	Sunny	Moderate	13:21		Surface	1.0	30.0 29.9	29.9	8.2 8.2	8.2	19.4 19.4	19.4	101.9 104.0	103.0	6.9 7.1	7.0	7.0	7.0 7.6	7.3		7.2 7.2	7.2	
				3.7	Middle	-		-		-	-	-	-	-	-	-	7.0	-	-	8.1	-	-	7.9
					Bottom	2.7	28.5 28.5	28.5	8.1 8.1	8.1	21.6 21.5	21.5	104.0 96.4	100.2	7.2 6.6	6.9	6.9	9.0 8.5	8.8		8.7 8.4	8.6	
27-Aug-14	Sunny	Moderate	13:32		Surface	1.0	28.4 28.4	28.4	8.1 8.1	8.1	21.8 21.8	21.8	89.8 88.7	89.3	6.2 6.1	6.1	6.1	4.5 4.8	4.7		7.0 7.0	7.0	
				4.0	Middle	-		-		-	-	-		-	-	-	0.1	-	-	4.6	-	-	7.3
					Bottom	3.0	28.4 28.4	28.4	8.1 8.1	8.1	21.9 21.9	21.9	90.7 89.3	90.0	6.3 6.2	6.2	6.2	4.6 4.4	4.5		7.4 7.8	7.6	
29-Aug-14	Sunny	Moderate	14:36		Surface	1.0	28.0 28.0	28.0	7.9 7.9	7.9	24.6 24.7	24.6	80.1 78.0	79.1	5.5 5.3	5.4	5.4	10.9 10.7	10.8		4.3 4.9	4.6	
				4.1	Middle	-	-	-	-	-	-	-		-	-	-	5.4	-	-	10.7	-	-	4.8
					Bottom	3.1	28.0 27.9	28.0	7.9 7.9	7.9	24.8 24.9	24.9	78.9 84.1	81.5	5.4 5.7	5.6	5.6	10.5 10.5	10.5		4.3 5.7	5.0	

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

Remarks:

* DA: Depth-Averaged

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

Water Quality Monitoring Results at IS8 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	i (mg/L)	Г	Furbidity(NT	J)	Suspe	ended Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
1-Aug-14	Sunny	Moderate	09:23		Surface	1.0	29.7 29.7	29.7	7.9 7.9	7.9	19.8 19.8	19.8	92.7 94.7	93.7	6.3 6.5	6.4		9.9 10.5	10.2		11.4 11.1	11.3	
				3.6	Middle	-	-	-	-	-	-	-	-	-	-	-	6.4	-	-	11.5	-	-	11.4
					Bottom	2.6	29.7 29.7	29.7	7.9 7.9	7.9	20.2 20.2	20.2	96.2 93.5	94.9	6.5 6.4	6.5	6.5	12.5 12.9	12.7		11.4 11.6	11.5	
4-Aug-14	Sunny	Moderate	13:06		Surface	1.0	30.0 29.8	29.9	8.0 8.0	8.0	19.4 19.4	19.4	124.3 122.3	123.3	8.5 8.3	8.4		4.5	4.6		3.6 3.8	3.7	
				4.0	Middle	-	-	-	-	-	-	-	-	-	-	-	8.4	-	-	4.6	-	-	3.9
					Bottom	3.0	29.9 29.8	29.8	8.0 8.0	8.0	20.9 20.8	20.8	121.6 123.3	122.5	8.2 8.3	8.3	8.3	4.5 4.4	4.5		4.0 4.0	4.0	
6-Aug-14	Sunny	Moderate	15:46		Surface	1.0	29.4 29.5	29.4	8.5 8.5	8.5	20.9 20.8	20.9	109.0 109.4	109.2	7.4 7.4	7.4		6.6 6.8	6.7		6.1 6.7	6.4	
				3.9	Middle	-	-	-	-	-	-	-	-	-	-	-	7.4	-	-	6.7	-	-	6.5
					Bottom	2.9	29.3 29.1	29.2	8.5 8.5	8.5	23.6 22.4	23.0	115.5 115.0	115.3	7.8 7.8	7.8	7.8	6.5 6.6	6.6		6.3 6.6	6.5	1
8-Aug-14	Sunny	Moderate	17:35		Surface	1.0	29.9 29.9	29.9	8.3 8.3	8.3	18.9 19.0	18.9	105.7 107.5	106.6	7.2 7.3	7.3	7.0	13.1 13.4	13.3		2.6 2.7	2.7	
				3.7	Middle	-	-	-	-	-	-	-	-	-	-	-	7.3	-	-	15.1	-	-	5.0
					Bottom	2.7	29.7 29.7	29.7	8.3 8.3	8.3	19.5 19.6	19.5	106.6 103.2	104.9	7.3 7.0	7.2	7.2	17.7 16.1	16.9		7.4 7.2	7.3	
11-Aug-14	Sunny	Moderate	06:31		Surface	1.0	28.8 28.8	28.8	8.2 8.2	8.2	21.2 21.2	21.2	85.6 82.1	83.9	5.9 5.6	5.8	5.8	7.6 8.0	7.8		3.9 3.5	3.7	
				3.8	Middle	-	-	-	-	-	-	-	-	-	-	-	5.0	-	-	7.9	-	-	4.1
					Bottom	2.8	28.8 28.7	28.8	8.2 8.2	8.2	21.4 21.6	21.5	83.8 83.0	83.4	5.8 5.7	5.7	5.7	8.2 7.7	8.0		4.0 4.7	4.4	
13-Aug-14	Rainy	Moderate	08:39		Surface	1.0	28.5 28.5	28.5	7.8 7.8	7.8	21.4 21.3	21.4	85.1 87.7	86.4	5.9 6.1	6.0	6.0	16.9 17.8	17.4		2.6 2.7	2.7	
				3.8	Middle	-	-	-	-	-	-	-	-	-	-	-	6.0	-	-	17.5	-	-	5.0
					Bottom	2.8	28.5 28.5	28.5	7.7 7.8	7.8	21.0 21.4	21.2	84.4 86.0	85.2	5.9 5.9	5.9	5.9	17.6 17.5	17.6		7.4 7.2	7.3	
15-Aug-14	Sunny	Moderate	10:24		Surface	1.0	28.7 28.7	28.7	7.8 7.8	7.8	20.1 20.1	20.1	76.0 77.5	76.8	5.4 5.5	5.5	5.5	12.6 12.8	12.7		13.7 13.7	13.7	
				4.1	Middle	-	-	-	-	-	-	-	-	-	-	-	5.5	-	-	12.6	-	-	14.9
					Bottom	3.1	28.5 28.7	28.6	7.8 7.8	7.8	20.5 20.2	20.3	75.7 79.7	77.7	5.4 5.7	5.5	5.5	12.5 12.4	12.5		16.0 16.0	16.0	
18-Aug-14	Sunny	Moderate	13:08		Surface	1.0	30.0 30.0	30.0	8.0 8.0	8.0	17.6 18.2	17.9	104.2 104.5	104.4	7.2 7.2	7.2	7.2	8.3 8.0	8.2		- 0.5	0.3	
				3.7	Middle	-	-	-	-	-		-	-	-	-	-	1.2	-	-	9.3	-	-	1.2
					Bottom	2.7	30.0 30.0	30.0	8.0 8.0	8.0	18.5 18.6	18.5	104.4 103.7	104.1	7.1 7.1	7.1	7.1	9.8 10.7	10.3		2.0 1.9	2.0	
20-Aug-14	Rainy	Moderate	16:38		Surface	1.0	29.1 29.2	29.1	8.0 8.0	8.0	16.7 16.8	16.7	89.6 84.8	87.2	6.3 5.9	6.1	6.1	10.5 10.5	10.5		4.8 4.2	4.5	
				4.1	Middle	-	-	-	-	-	-	-	-	-	-	-	0.1	-	-	10.5	-	-	5.0
					Bottom	3.1	29.2 29.1	29.1	7.9 7.9	7.9	19.7 20.0	19.9	87.5 88.6	88.1	6.0 6.1	6.1	6.1	10.9 10.1	10.5		5.5 5.5	5.5	

Remarks:

* DA: Depth-Averaged

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

Water Quality Monitoring Results at IS8 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Sampl	ing	Tempera	ature (°C)	p	Н	Salinit	y (ppt)	DO Satu	ration (%)	Dissolv	ved Oxyger	i (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*
22-Aug-14	Sunny	Moderate	17:49		Surface	1.0	29.2 29.2	29.2	8.1 8.1	8.1	16.7 16.7	16.7	87.9 89.2	88.6	6.1 6.2	6.2	6.2	12.7 13.3	13.0		14.0 14.4	14.2	
				3.9	Middle	-		-		-	-	-		-	-	-	0.2	-	-	13.2	-	-	14.2
					Bottom	2.9	29.1 29.0	29.0	8.1 8.0	8.0	17.4 17.5	17.4	88.5 88.1	88.3	6.2 6.2	6.2	6.2	13.2 13.3	13.3		13.9 14.4	14.2	
25-Aug-14	Sunny	Moderate	19:13		Surface	1.0	29.4 29.6	29.5	8.2 8.2	8.2	20.2 20.1	20.2	113.6 107.8	110.7	7.8 7.4	7.6	7.6	7.3 6.9	7.1		11.3 10.6	11.0	
				3.6	Middle	-	-	-		-	-	-	-	-	-	-	7.0	-	-	8.1	-	-	11.4
					Bottom	2.6	29.0 28.4	28.7	8.1 8.1	8.1	22.2 22.4	22.3	116.1 114.6	115.4	7.9 7.9	7.9	7.9	9.2 8.9	9.1		12.0 11.4	11.7	
27-Aug-14	Sunny	Moderate	07:01		Surface	1.0	28.1 28.1	28.1	7.9 7.9	7.9	21.3 21.0	21.2	72.0 74.9	73.5	5.0 5.2	5.1	5.1	7.7 7.4	7.6		6.7 6.1	6.4	
				4.1	Middle	-	-	-	-	-	-	-	-	-	-	-	5.1	-	-	7.6	-	-	7.4
					Bottom	3.1	28.0 28.1	28.0	7.9 7.9	7.9	21.9 21.7	21.8	79.2 73.2	76.2	5.5 5.1	5.3	5.3	7.8 7.4	7.6		8.6 7.9	8.3	
29-Aug-14	Sunny	Moderate	08:50		Surface	1.0	27.9 27.9	27.9	7.8 7.8	7.8	22.4 22.5	22.5	72.9 73.6	73.3	5.0 5.1	5.1	5.1	10.2 10.1	10.2		5.2 5.0	5.1	
				4.2	Middle	-		-	-	-	-	-		-	-	-	5.1	-	-	10.2	-	-	5.3
					Bottom	3.2	27.8 27.9	27.8	7.8 7.8	7.8	23.0 22.7	22.8	75.7 73.3	74.5	5.2 5.1	5.2	5.2	10.2 10.2	10.2		5.4 5.4	5.4	

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

Remarks:

* DA: Depth-Averaged

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

Water Quality Monitoring Results at IS17 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	(mg/L)	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*
1-Aug-14	Sunny	Moderate	15:34		Surface	1.0	30.4 30.3	30.3	8.3 8.3	8.3	18.7 18.8	18.7	78.5 81.8	80.2	5.3 5.6	5.4		2.4 2.5	2.5		2.1 2.4	2.3	
				11.1	Middle	5.6	28.4 28.2	28.3	8.3 8.2	8.2	25.2 25.1	25.2	76.1 75.6	75.9	5.2 5.1	5.1	5.3	2.4 2.5	2.5	2.6	3.2 3.1	3.2	2.9
					Bottom	10.1	28.1 27.9	28.0	8.2 8.2	8.2	25.7 25.9	25.8	71.7	71.9	4.9	4.9	4.9	2.8 2.6	2.7		3.2 3.0	3.1	
4-Aug-14	Sunny	Moderate	18:23		Surface	1.0	30.2 30.2	30.2	8.6 8.5	8.6	16.8 17.0	16.9	103.2 104.6	103.9	7.1	7.1		2.6 2.7	2.7		1.9 2.6	2.3	
				9.8	Middle	4.9	28.1 28.2	28.1	8.6 8.5	8.5	26.2 25.9	26.1	75.6 74.6	75.1	5.2 5.1	5.2	6.2	2.8	2.7	2.7	2.7	2.6	2.7
					Bottom	8.8	26.0 26.5	26.3	8.5 8.4	8.5	30.0 29.5	29.7	74.1	72.2	5.1 4.7	4.9	4.9	2.6 2.8	2.7		3.4 3.1	3.3	
6-Aug-14	Sunny	Moderate	09:06		Surface	1.0	29.0 29.0	29.0	8.0 8.1	8.1	20.2 20.0	20.1	91.7 93.9	92.8	6.3 6.5	6.4		2.4 2.5	2.5		3.0 2.8	2.9	
				10.7	Middle	5.4	26.7 26.8	26.7	7.8 7.8	7.8	27.9 27.3	27.6	73.8 73.2	73.5	5.2 5.1	5.1	5.8	4.9	4.8	4.0	3.8 3.7	3.8	3.6
					Bottom	9.7	26.4 26.6	26.5	7.8	7.8	29.0 29.1	29.0	71.4	71.6	4.9	4.9	4.9	4.7	4.8		4.1 4.3	4.2	
8-Aug-14	Sunny	Moderate	11:01		Surface	1.0	29.1 29.2	29.2	7.8	8.0	18.5 18.0	18.2	83.8 84.2	84.0	5.8 5.8	5.8		4.0 4.3	4.2		-	-	
				10.9	Middle	5.5	27.9 28.1	28.0	8.0 8.1	8.1	23.2 23.3	23.3	79.3 79.1	79.2	5.4 5.4	5.4	5.6	5.9	5.7	5.3	2.4 2.3	2.4	3.4
					Bottom	9.9	27.4 26.9	27.1	8.0 8.1	8.0	25.4 27.6	26.5	73.0 71.3	72.2	5.0 4.9	5.0	5.0	5.9 6.1	6.0		4.2 4.6	4.4	
11-Aug-14	Sunny	Moderate	13:05		Surface	1.0	28.6 28.8	28.7	8.2 8.2	8.2	22.9 22.7	22.8	82.3 82.6	82.5	5.6 5.6	5.6	5.5	9.3 8.7	9.0		5.6 5.9	5.8	
				11.4	Middle	5.7	28.0 27.8	27.9	8.2 8.2	8.2	25.0 25.0	25.0	78.7 77.9	78.3	5.4 5.3	5.3	5.5	15.2 14.9	15.1	13.2	6.5 6.2	6.4	6.5
					Bottom	10.4	28.0 27.3	27.7	8.2 8.2	8.2	26.0 26.7	26.4	71.8 71.6	71.7	4.9 4.9	4.9	4.9	15.8 15.4	15.6		7.1 7.2	7.2	
13-Aug-14***	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	-	-	-	-	-		-		-	-	-	-	-	-	-	-	-	-
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
15-Aug-14	Sunny	Moderate	15:56		Surface	1.0	29.2 29.1	29.2	7.8 7.8	7.8	21.4 21.4	21.4	79.8 75.6	77.7	5.6 5.3	5.5	5.4	7.5 7.7	7.6		8.3 8.1	8.2	
				10.2	Middle	5.1	28.6 28.5	28.6	7.8 7.8	7.8	22.0 22.1	22.1	70.5 75.4	73.0	5.1 5.3	5.2	0.1	10.2 10.4	10.3	9.5	9.2 9.9	9.6	9.7
					Bottom	9.2	27.2 27.5	27.4	7.8 7.8	7.8	26.2 25.8	26.0	69.8 69.8	69.8	5.0 5.0	5.0	5.0	10.5 10.7	10.6		10.9 11.9	11.4	
18-Aug-14	Sunny	Moderate	07:20		Surface	1.0	29.3 29.3	29.3	7.8 7.8	7.8	16.7 16.9	16.8	83.5 84.4	84.0	5.8 5.9	5.9	5.6	3.6 3.7	3.7		1.2 1.3	1.3	
				10.8	Middle	5.4	29.0 28.9	28.9	7.7 7.8	7.7	19.6 19.7	19.7	74.6 75.1	74.9	5.2 5.2	5.2		5.3 4.9	5.1	4.9	2.8 2.5	2.7	2.7
					Bottom	9.8	27.4 27.5	27.5	7.6 7.7	7.7	24.4 24.4	24.4	70.7 70.4	70.6	4.9 4.9	4.9	4.9	5.9 6.0	6.0		4.2 3.8	4.0	
20-Aug-14	Rainy	Moderate	09:49		Surface	1.0	28.7 28.9	28.8	8.1 8.1	8.1	15.3 15.3	15.3	85.0 86.7	85.9	6.0 6.1	6.1	5.7	5.7 6.0	5.9		3.8 3.8	3.8	
				10.4	Middle	5.2	28.0 27.3	27.7	7.9 7.9	7.9	23.7 23.6	23.6	73.1 73.7	73.4	5.2 5.2	5.2	-	5.8 5.8	5.8	5.9	4.5 5.0	4.8	4.3
					Bottom	9.4	25.6 25.4	25.5	7.9 7.9	7.9	30.1 30.6	30.4	72.7 72.3	72.5	5.2 5.1	5.1	5.1	5.9 5.9	5.9		4.5 4.2	4.4	

* DA: Depth-Averaged

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

Water Quality Monitoring Results at IS17 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampling	Tem	erature (°C)	F F	ъН	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ved Oxyger	(mg/L)	Т	urbidity(NTL	J)	Suspe	nded Solids	. (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth (m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
22-Aug-14	Sunny	Moderate	11:24		Surface 1	.0 28.5 28.4	28.4	7.9 7.9	7.9	17.2 17.6	17.4	73.2 72.6	72.9	5.2 5.1	5.1	5.1	8.5 8.1	8.3		3.6 3.3	3.5	
				10.4	Middle 5	.2 27.2 26.7	27.0	7.9 7.9	7.9	23.9 23.7	23.8	71.1 72.5	71.8	5.1 5.1	5.1	5.1	8.4 8.5	8.5	8.5	4.2 3.8	4.0	3.7
					Bottom 9	.4 26.3 26.0	26.1	7.9 7.8	7.8	28.0 28.3	28.2	70.3 70.2	70.3	5.0 5.0	5.0	5.0	8.8 8.6	8.7		3.6 3.7	3.7	
25-Aug-14	Sunny	Moderate	13:05		Surface 1	.0 29.0 29.1	29.1	8.0 8.1	8.0	20.1 20.2	20.1	80.1 90.2	85.2	5.5 6.2	5.9	5.6	3.7 4.1	3.9		3.5 3.1	3.3	
				10.8	Middle 5	27.4	27.4	7.9 7.9	7.9	23.3 23.3	23.3	74.1 79.2	76.7	5.1 5.5	5.3	0.0	3.4 3.7	3.6	3.6	4.1 3.6	3.9	3.9
					Bottom 9	.8 27.2 27.3	27.2	7.9 7.9	7.9	24.5 24.6	24.6	71.7 75.0	73.4	5.0 5.2	5.1	5.1	3.3 3.2	3.3		4.3 4.7	4.5	
27-Aug-14	Sunny	Moderate	13:46		Surface 1	.0 28.1 28.1	28.1	8.1 8.1	8.1	22.6 22.6	22.6	83.3 83.0	83.2	5.7 5.7	5.7	5.5	7.5 7.5	7.5		4.9 4.2	4.6	
				10.0	Middle 5	.0 27.8 27.8	27.8	8.1 8.0	8.0	23.3 23.3	23.3	78.4 76.4	77.4	5.4 5.3	5.3	5.5	7.4 7.8	7.6	7.6	6.8 5.9	6.4	6.7
					Bottom 9	.0 27.9 27.4	27.6	8.1 8.0	8.0	23.3 24.0	23.7	81.3 76.7	79.0	5.6 5.3	5.5	5.5	7.9 7.5	7.7		9.4 9.0	9.2	
29-Aug-14	Sunny	Moderate	14:49		Surface 1	.0 28.4 28.8	28.6	7.9 8.0	8.0	24.5 24.2	24.4	76.4 78.2	77.3	5.2 5.3	5.2	5.1	8.4 8.6	8.5		2.9 3.3	3.1	
				9.6	Middle 4	.8 27.2 27.2	27.2	7.9 7.9	7.9	26.7 26.3	26.5	72.5 73.1	72.8	5.0 5.1	5.0	5.1	8.5 8.5	8.5	8.6	4.6 4.7	4.7	4.1
					Bottom 8	.6 26.8 26.8	26.8	7.9 7.9	7.9	28.1 28.2	28.2	71.5 72.2	71.9	4.9 4.9	4.9	4.9	8.7 8.6	8.7		4.7 4.1	4.4	

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

Remarks:

* DA: Depth-Averaged

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

Water Quality Monitoring Results at IS17 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Т	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*
1-Aug-14	Sunny	Moderate	09:07		Surface	1.0	29.5 29.5	29.5	8.1 8.1	8.1	20.2 20.2	20.2	81.7 83.9	82.8	5.6 5.7	5.7	5.4	3.3 3.1	3.2		4.0 4.5	4.3	
				11.2	Middle	5.6	28.6 28.6	28.6	8.0 8.0	8.0	23.3 23.1	23.2	74.8 73.7	74.3	5.1 5.0	5.1	5.4	4.0 3.8	3.9	3.6	3.8 4.7	4.3	4.6
					Bottom	10.2	28.5 28.3	28.4	8.0 8.0	8.0	23.5 23.8	23.6	76.4 79.2	77.8	5.2 5.4	5.3	5.3	3.7 3.9	3.8		5.5 4.9	5.2	
4-Aug-14	Sunny	Moderate	12:40		Surface	1.0	30.2 29.6	29.9	7.9 7.9	7.9	18.9 19.7	19.3	88.6 89.4	89.0	6.0 6.1	6.1		2.0 2.1	2.1		3.7 4.0	3.9	
				10.5	Middle	5.3	28.5 28.6	28.5	7.7 7.7	7.7	23.1 22.9	23.0	74.7 75.5	75.1	5.1 5.2	5.2	5.7	3.6 3.5	3.6	3.1	4.8 4.7	4.8	4.8
					Bottom	9.5	26.9 26.8	26.9	7.7 7.6	7.7	27.6 28.4	28.0	72.7 71.1	71.9	5.0 4.9	4.9	4.9	3.5 3.5	3.5		5.5 5.9	5.7	
6-Aug-14	Sunny	Moderate	16:00		Surface	1.0	29.8 29.7	29.8	8.6 8.6	8.6	20.6 20.6	20.6	108.4 112.8	110.6	7.3 7.7	7.5		3.0 3.2	3.1		2.9 2.6	2.8	
				11.0	Middle	5.5	27.3 27.0	27.2	8.6 8.6	8.6	26.4 26.5	26.5	74.5 75.6	75.1	5.2 5.3	5.3	6.4	5.3 5.4	5.4	4.7	2.8 2.4	2.6	3.1
					Bottom	10.0	26.8 26.8	26.8	8.6 8.6	8.6	28.2 28.1	28.1	72.8 73.6	73.2	5.0 5.1	5.0	5.0	5.3 5.6	5.5		4.4 3.5	4.0	
8-Aug-14	Sunny	Moderate	17:51		Surface	1.0	29.5 29.5	29.5	8.2 8.2	8.2	19.7 19.7	19.7	102.0 99.6	100.8	7.0 6.8	6.9	6.3	4.3 4.5	4.4		3.4 3.1	3.3	
				11.0	Middle	5.5	28.2 28.3	28.3	8.1 8.1	8.1	23.8 24.3	24.1	81.5 86.3	83.9	5.6 5.9	5.7	0.3	5.0 5.3	5.2	5.6	3.0 3.3	3.2	3.3
					Bottom	10.0	27.8 27.9	27.9	8.0 8.1	8.1	24.8 24.9	24.9	80.3 84.0	82.2	5.5 5.7	5.6	5.6	7.3 7.1	7.2		3.5 3.5	3.5	
11-Aug-14	Sunny	Moderate	06:17		Surface	1.0	28.3 28.4	28.4	8.2 8.2	8.2	21.9 22.1	22.0	81.8 84.6	83.2	5.6 5.8	5.7	5.5	6.2 6.1	6.2		2.4 2.4	2.4	
				11.3	Middle	5.7	27.1 27.2	27.2	8.2 8.2	8.2	26.7 26.3	26.5	75.9 78.0	77.0	5.2 5.4	5.3	5.5	9.3 8.7	9.0	8.1	4.2 4.1	4.2	4.3
					Bottom	10.3	27.2 27.1	27.2	8.2 8.2	8.2	26.6 26.5	26.6	80.1 81.3	80.7	5.5 5.6	5.5	5.5	9.0 9.2	9.1		6.1 6.2	6.2	
13-Aug-14	Rainy	Moderate	08:16		Surface	1.0	28.1 27.8	27.9	7.9 7.9	7.9	23.1 23.5	23.3	90.2 93.1	91.7	6.2 6.3	6.3	5.9	10.2 11.0	10.6		3.4 3.1	3.3	
				11.1	Middle	5.6	26.8 26.8	26.8	7.8 7.9	7.9	27.3 27.5	27.4	83.8 77.7	80.8	5.8 5.3	5.5	5.5	12.2 13.2	12.7	12.4	3.0 3.3	3.2	3.3
					Bottom	10.1	26.8 26.7	26.8	7.7 7.9	7.8	26.9 27.6	27.3	85.4 79.0	82.2	5.9 5.4	5.7	5.7	13.4 14.1	13.8		3.5 3.5	3.5	
15-Aug-14	Sunny	Moderate	10:06		Surface	1.0	28.4 28.3	28.3	7.8 7.8	7.8	21.1 21.3	21.2	72.3 70.3	71.3	5.2 5.0	5.1	5.1	11.1 11.4	11.3		4.4 4.1	4.3	
				10.2	Middle	5.1	28.1 28.1	28.1	7.8 7.8	7.8	21.7 21.8	21.8	72.0 70.4	71.2	5.2 5.1	5.1	0.1	11.2 11.4	11.3	11.4	5.9 5.8	5.9	5.5
					Bottom	9.2	27.7 27.4	27.5	7.8 7.8	7.8	24.4 24.6	24.5	69.3 67.7	68.5	4.9 4.8	4.9	4.9	11.6 11.5	11.6		6.1 6.3	6.2	
18-Aug-14	Sunny	Moderate	13:24		Surface	1.0	29.8 29.7	29.7	8.1 8.0	8.0	17.2 17.3	17.3	95.6 91.1	93.4	6.6 6.3	6.4	5.8	3.6 3.7	3.7		1.2 1.4	1.3	
				10.5	Middle	5.3	28.7 28.8	28.7	7.9 7.9	7.9	20.3 20.2	20.3	74.6 76.7	75.7	5.2 5.3	5.2	0.0	4.6 4.4	4.5	4.6	1.5 1.5	1.5	1.4
					Bottom	9.5	28.4 28.5	28.4	7.9 7.9	7.9	21.8 22.1	22.0	79.6 75.8	77.7	5.5 5.2	5.3	5.3	5.3 5.6	5.5		1.3 1.5	1.4	
20-Aug-14	Rainy	Moderate	16:53		Surface	1.0	28.8 28.8	28.8	8.1 8.1	8.1	16.2 16.2	16.2	83.1 82.2	82.7	5.9 5.8	5.8	5.5	4.2 4.4	4.3		3.7 3.2	3.5	
				10.1	Middle	5.1	27.7 27.6	27.6	7.9 7.9	7.9	22.5 22.9	22.7	74.8 75.5	75.2	5.0 5.1	5.1		5.2 5.5	5.4	5.1	4.3 4.5	4.4	4.0
					Bottom	9.1	27.2 27.7	27.4	7.9 7.9	7.9	25.5 25.4	25.5	70.2 77.1	73.7	4.8 5.3	5.1	5.1	5.5 5.4	5.5		4.3 3.9	4.1	

* DA: Depth-Averaged

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

Water Quality Monitoring Results at IS17 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Sampli	ing	Tempera	ature (°C)	F	н	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ved Oxyger	i (mg/L)	Т	urbidity(NTL	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth ((m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
22-Aug-14	Sunny	Moderate	18:04		Surface	1.0	29.3 29.3	29.3	8.1 8.0	8.1	15.4 15.3	15.4	83.1 82.4	82.8	5.8 5.8	5.8	5.5	5.3 5.3	5.3		2.1 2.9	2.5	
				10.2	Middle	5.1	27.6 28.0	27.8	8.0 8.0	8.0	20.7 20.8	20.8	72.1 71.8	72.0	5.1 5.1	5.1	5.5	8.9 8.9	8.9	8.0	3.1 3.0	3.1	2.9
					Bottom	9.2	26.1 27.1	26.6	8.0 7.9	8.0	28.4 25.0	26.7	69.4 70.1	69.8	4.8 4.8	4.8	4.8	9.7 9.6	9.7		3.1 3.2	3.2	<u> </u>
25-Aug-14	Sunny	Moderate	19:29		Surface	1.0	29.6 29.5	29.5	8.3 8.3	8.3	19.6 18.6	19.1	109.9 106.5	108.2	7.5 7.3	7.4	6.9	7.6 7.7	7.7		3.3 3.9	3.6	
				11.1	Middle	5.6	28.8 28.5	28.6	8.2 8.1	8.2	21.0 21.8	21.4	95.7 89.1	92.4	6.6 6.1	6.4	0.5	10.1 10.4	10.3	9.3	3.6 4.3	4.0	4.1
					Bottom	10.1	28.5 28.2	28.4	8.1 8.1	8.1	21.8 22.4	22.1	95.1 87.7	91.4	6.5 6.0	6.3	6.3	9.6 10.2	9.9		5.2 4.2	4.7	
27-Aug-14	Sunny	Moderate	06:47		Surface	1.0	27.9 27.9	27.9	7.9 7.9	7.9	22.3 22.1	22.2	74.5 74.7	74.6	5.2 5.2	5.2	5.2	7.3 7.3	7.3		2.5 2.1	2.3	
				10.4	Middle	5.2	27.4 27.5	27.4	8.0 8.0	8.0	23.5 23.5	23.5	74.0 73.9	74.0	5.1 5.1	5.1	5.2	7.7 7.5	7.6	7.6	3.3 3.2	3.3	3.0
					Bottom	9.4	27.2 26.9	27.1	7.9 8.0	8.0	25.9 26.1	26.0	73.5 71.6	72.6	5.1 5.0	5.0	5.0	7.9 7.6	7.8		3.6 3.3	3.5	
29-Aug-14	Sunny	Moderate	08:36		Surface	1.0	27.7 27.5	27.6	7.8 7.8	7.8	23.4 23.5	23.4	86.3 79.6	83.0	6.0 5.6	5.8	5.8	9.4 9.4	9.4		5.2 4.4	4.8	
				10.3	Middle	5.2	27.4 27.1	27.2	7.8 7.8	7.8	24.1 25.0	24.6	82.4 78.3	80.4	5.8 5.5	5.7	5.0	9.5 9.5	9.5	9.6	5.6 4.5	5.1	5.2
					Bottom	9.3	27.1 27.3	27.2	7.8 7.8	7.8	25.9 25.7	25.8	79.8 81.8	80.8	5.6 5.8	5.7	5.7	9.7 9.8	9.8		6.5 5.0	5.8	

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

Remarks:

* DA: Depth-Averaged

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

Water Quality Monitoring Results at SR3 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	F	Η	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	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*
1-Aug-14	Sunny	Moderate	14:24		Surface	-	-	-	-	-	-	-	-	-	-	-	7.2	-	-		-	-	
				#VALUE!	Middle	0.8	30.8 30.8	30.8	8.0 8.0	8.0	18.3 18.6	18.4	105.0 108.9	107.0	7.1 7.3	7.2	1.2	5.1 4.8	5.0	5.0	7.0 5.9	6.5	6.5
					Bottom	-		-	-	-	-	-	-	-	-	-	-	-	-		-	-	
4-Aug-14	Sunny	Moderate	17:20		Surface	-	-	-	-	-	-	-	-	-	-	-	40.7	-	-		-	-	
				#VALUE!	Middle	0.7	31.1 31.1	31.1	8.4 8.4	8.4	18.3 18.4	18.3	155.3 162.4	158.9	10.4 10.9	10.7	10.7	2.8 2.9	2.9	2.9	6.1 7.1	6.6	6.6
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
6-Aug-14	Sunny	Moderate	10:08		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				#VALUE!	Middle	0.7	29.2 29.5	29.3	8.5 8.5	8.5	18.2 18.4	18.3	87.6 90.7	89.2	6.1 6.3	6.2	6.2	3.3 3.2	3.3	3.3	4.3 4.9	4.6	4.6
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
8-Aug-14	Sunny	Moderate	12:14		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				#VALUE!	Middle	0.8	29.8 29.8	29.8	8.1 8.1	8.1	19.1 19.1	19.1	98.5 98.0	98.3	6.7 6.7	6.7	6.7	5.7 5.7	5.7	5.7	4.6 4.6	4.6	4.6
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
11-Aug-14	Sunny	Moderate	11:44		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				#VALUE!	Middle	0.9	28.9 28.9	28.9	8.2 8.2	8.2	23.2 23.3	23.2	83.6 79.4	81.5	5.7 5.4	5.5	5.5	14.5 14.7	14.6	14.6	15.5 16.1	15.8	15.8
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
13-Aug-14***	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	=	-	-	<u>-</u>
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
15-Aug-14	Sunny	Moderate	14:30		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				#VALUE!	Middle	0.7	28.8 28.8	28.8	7.7 7.7	7.7	22.6 22.6	22.6	86.4 83.5	85.0	6.0 5.8	5.9	5.9	14.8 14.9	14.9	14.9	15.9 15.8	15.9	15.9
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
18-Aug-14	Sunny	Moderate	08:42		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				#VALUE!	Middle	0.8	29.5 29.5	29.5	8.0 8.0	8.0	18.2 18.2	18.2	91.6 92.1	91.9	6.3 6.4	6.3	6.3	5.7 5.4	5.6	5.6	3.1 3.9	3.5	3.5
					Bottom	-	-	-		-	-	-		-	-	-	-	-	-		-	-	
20-Aug-14	Rainy	Moderate	10:51		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				#VALUE!	Middle	0.7	28.8 28.9	28.8	8.1 8.1	8.1	15.3 15.6	15.5	90.2 89.5	89.9	6.4 6.3	6.4	6.4	6.9 6.9	6.9	6.9	6.3 7.5	6.9	6.9
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	

Remarks:

* DA: Depth-Averaged

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

Water Quality Monitoring Results at SR3 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samplir	ng	Temper	ature (°C)	F	эΗ	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ved Oxyger	ı (mg/L)	Т	urbidity(NTL	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth (I	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
22-Aug-14	Sunny	Moderate	12:23		Surface	-	-	-	-	-	-	-	-	-	-	-	5.0	-	-		-	-	
				#VALUE!	Middle	0.7	28.9 28.9	28.9	8.0 8.0	8.0	15.2 15.3	15.3	83.1 82.1	82.6	5.9 5.8	5.9	5.9	5.5 5.4	5.5	5.5	4.2 4.8	4.5	4.5
					Bottom	-		-		-	-	-	-	-	-	-	-	-	-		-	-	
25-Aug-14	Sunny	Moderate	14:26		Surface	-	-	-	-	-	-	-	-	-	-	-	6.3	-	-		-	-	
				#VALUE!	Middle	0.8	29.0 29.0	29.0	8.1 8.2	8.1	21.0 21.0	21.0	91.1 91.8	91.5	6.2 6.3	6.3	0.5	7.8 8.2	8.0	8.0	6.2 5.1	5.7	5.7
					Bottom	-		-		-	-	-		-		-	-	-	-		-	-	
27-Aug-14	Sunny	Moderate	12:47		Surface	-	-	-	-	-	-	-	-	-		-	5.5	-	-		-	-	
				#VALUE!	Middle	0.7	28.1 28.1	28.1	8.1 8.0	8.1	23.2 23.2	23.2	79.2 80.2	79.7	5.4 5.5	5.5	5.5	11.5 11.5	11.5	11.5	10.3 11.0	10.7	10.7
					Bottom	-		-		-	-	-	-	-	-	-	-	-	-		-	-	
29-Aug-14	Sunny	Moderate	13:51		Surface	-	-	-	-	-	-	-	-	-	-	-	5.3	-	-		-	-	
				#VALUE!	Middle	0.6	28.1 28.1	28.1	7.8 7.8	7.8	24.7 24.7	24.7	78.3 78.5	78.4	5.3 5.3	5.3	0.0	19.7 19.3	19.5	19.5	8.5 9.2	8.9	8.9
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	

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

Remarks:

* DA: Depth-Averaged

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

Water Quality Monitoring Results at SR3 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Sampl	ling	Tempera	ature (°C)	ĥ	Η	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	/ed Oxyger	n (mg/L)	Г	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*
1-Aug-14	Sunny	Moderate	10:16		Surface	-	-	-	-	-	-	-	-	-	-	-	8.1	-	-		-	-	
				#VALUE!	Middle	0.8	30.0 30.0	30.0	8.2 8.2	8.2	20.4 20.4	20.4	120.6 120.0	120.3	8.2 8.1	8.1	0.1	3.1 2.8	3.0	3.0	5.8 5.2	5.5	5.5
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
4-Aug-14	Sunny	Moderate	13:50		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				#VALUE!	Middle	0.9	31.0 31.0	31.0	8.4 8.4	8.4	19.5 19.6	19.5	169.9 168.3	169.1	11.4 11.2	11.3	11.3	2.9 2.9	2.9	2.9	4.2 4.1	4.2	4.2
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
6-Aug-14	Sunny	Moderate	15:01		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				#VALUE!	Middle	0.7	30.0 29.9	30.0	8.4 8.4	8.4	20.5 20.6	20.6	114.6 110.4	112.5	7.8 7.5	7.6	7.6	2.5 2.6	2.6	2.6	4.9 4.0	4.5	4.5
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
8-Aug-14	Sunny	Moderate	16:34		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				#VALUE!	Middle	0.8	30.4 30.4	30.4	8.3 8.2	8.3	20.8 20.7	20.7	- 138.1 136.4	137.3	9.3 9.1	9.2	9.2	5.6 5.5	5.6	5.6	6.4 5.5	6.0	6.0
					Bottom	-		-	-	-	-	-	-	-	-	-	-	-	-		-	-	
11-Aug-14	Sunny	Moderate	07:23		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				#VALUE!	Middle	0.8	29.0	29.0	8.2	8.2	22.7 22.7	22.7	- 77.5 77.4	77.5	5.3	5.3	5.3	6.8 7.2	7.0	7.0	7.2	7.1	7.1
					Bottom	-	29.0	-	- 8.2	-	-	-	-	-	5.3	-	-	-	-		-	-	
13-Aug-14	Rainy	Moderate	09:47		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				#VALUE!	Middle	0.8	28.5	28.5	7.9	7.9	21.9	22.0	80.0	80.0	5.5	5.5	5.5	8.6	8.8	8.8	- 6.4 5.5	6.0	6.0
					Bottom	-	28.5	-	7.9	-	- 22.0	-	80.0	-	5.5	-	-	9.0	-		-	-	
15-Aug-14	Sunny	Moderate	11:13		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				#VALUE!	Middle	0.7	28.6	28.6	7.8	7.8	21.9	22.0	76.9	76.7	5.4	5.4	5.4	6.0	6.1	6.1	6.8	7.2	7.2
					Bottom	-	- 28.5	-	7.8		- 22.0	-	- 76.4	-	5.4		-	6.2	-		7.5		
18-Aug-14	Sunny	Moderate	12:13		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				#VALUE!	Middle	0.9	- 30.0	29.9	7.9	7.9	- 19.8	19.8	101.3	101.0	6.9	6.9	6.9	- 5.8	5.9	5.9	3.3	3.2	3.2
					Bottom	-	29.9	-	7.9	-	19.9 -	-	- 100.6	-	6.8	-	-	6.0 -	_		3.1	-	-
20-Aug-14	Rainy	Moderate	15:51	<u> </u>	Surface	-	-	-	-	-	-	-	-	-	-	-		-	-			-	
				#VALUE!	Middle	0.7	- 28.9	28.9	- 7.8	7.9	- 16.1	16.0	- 103.2	102.8	- 7.3	7.3	7.3	- 4.8	4.8	4.8	- 5.6	4.9	4.9
				, THEOL!	Bottom	-	28.9	- 20.9	7.9	-	16.0 -	- 10.0	102.4		7.2	-	-	4.7	4.0	ч. 0	4.1 -		4.5
					DOLLOIT	-	-	-	-		-	-	-	-	-		-	-	-		-		<u> </u>

Remarks:

* DA: Depth-Averaged

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

Water Quality Monitoring Results at SR3 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	F	эΗ	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ved Oxyger	ı (mg/L)	Т	urbidity(NTl	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
22-Aug-14	Sunny	Moderate	17:01		Surface	-	-	-	-	-	-	-	-	-	-	-	7.4	-	-		-	-	
				#VALUE!	Middle	0.6	29.5 29.4	29.5	8.2 8.1	8.2	18.1 18.0	18.1	107.9 105.9	106.9	7.5 7.3	7.4	7.4	7.2 7.6	7.4	7.4	5.4 5.7	5.6	5.6
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
25-Aug-14	Sunny	Moderate	18:02		Surface	-	-	-	-	-	-	-	-	-	-	-	8.6	-	-		-	-	
				#VALUE!	Middle	0.8	30.1 30.0	30.0	8.1 8.0	8.1	19.9 20.0	20.0	130.1 123.5	126.8	8.8 8.4	8.6	0.0	7.0 7.2	7.1	7.1	3.9 4.8	4.4	4.4
					Bottom	-	-	-	-	-	-	-		-	-	-	-	-	-		-	-	
27-Aug-14	Sunny	Moderate	07:45		Surface	-	-	-	-	-	-	-	-	-	-	-	6.4	-	-		-	-	
				#VALUE!	Middle	0.6	28.5 28.5	28.5	8.1 8.1	8.1	21.6 21.6	21.6	93.6 90.8	92.2	6.5 6.3	6.4	0.4	11.2 11.3	11.3	11.3	8.6 8.1	8.4	8.4
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
29-Aug-14	Sunny	Moderate	09:37		Surface	-	-	-	-	-	-	-	-	-	-	-	5.4	-	-		-	-	
				#VALUE!	Middle	0.6	28.1 28.1	28.1	8.0 8.0	8.0	23.3 23.3	23.3	78.6 78.7	78.7	5.4 5.4	5.4	5.4	12.8 12.5	12.7	12.7	9.4 10.2	9.8	9.8
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	

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

Remarks:

* DA: Depth-Averaged

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

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

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	þ	ЪН	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	(mg/L)	٦	Furbidity(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*
1-Aug-14	Sunny	Moderate	15:13		Surface	1.0	30.4 30.3	30.4	8.0 7.9	7.9	20.7 20.7	20.7	103.9 106.9	105.4	7.0 7.2	7.1		4.0 4.2	4.1		2.4 2.4	2.4	
				3.8	Middle	-	-	-		-	-	-	-	-	-	-	7.1	-	-	4.3	-	-	3.0
					Bottom	2.8	30.4 30.1	30.2	7.9 7.9	7.9	20.7 20.8	20.8	105.8 100.4	103.1	7.1 6.8	6.9	6.9	4.2 4.7	4.5		3.4 3.7	3.6	
4-Aug-14	Sunny	Moderate	18:01		Surface	1.0	30.5 30.2	30.3	8.5 8.5	8.5	19.4 20.6	20.0	128.7 125.9	127.3	8.7 8.5	8.6		5.4 5.3	5.4		4.2	4.0	
				3.7	Middle	-	-	-	-	-	-	-	-	-	-	-	8.6	-	-	5.4	-	-	3.9
					Bottom	2.7	30.2 29.8	30.0	8.5 8.5	8.5	20.6 21.1	20.9	129.6 123.4	126.5	8.7 8.3	8.5	8.5	5.2 5.3	5.3		3.5 3.9	3.7	
6-Aug-14	Sunny	Moderate	09:26		Surface	1.0	30.2 30.3	30.2	8.5 8.5	8.5	18.3 18.0	18.2	100.7 102.8	101.8	6.9 7.0	6.9		5.3 5.3	5.3		4.2	4.1	
				3.8	Middle	-	-	-	-	-	-	-	-	-	-	-	6.9	-	-	5.9	-	-	4.4
					Bottom	2.8	29.8 29.9	29.9	8.4 8.5	8.4	20.7 20.8	20.7	99.3 100.0	99.7	6.7 6.8	6.7	6.7	6.4 6.6	6.5		4.8 4.3	4.6	
8-Aug-14	Sunny	Moderate	11:24		Surface	1.0	30.0 29.9	30.0	8.1 8.1	8.1	18.8 18.9	18.9	94.8 96.0	95.4	6.5 6.6	6.5		6.2 5.8	6.0		2.3 1.9	2.1	
				3.6	Middle	-	-	-	-	-	-	-	-	-	-	-	6.5	-	-	6.1	-	-	2.1
					Bottom	2.6	29.8 29.8	29.8	8.1 8.1	8.1	19.1 19.2	19.2	94.6 96.7	95.7	6.5 6.6	6.5	6.5	6.3 5.8	6.1		1.7 2.5	2.1	
11-Aug-14	Sunny	Moderate	12:34		Surface	1.0	29.0 29.1	29.0	8.2 8.2	8.2	22.3 22.2	22.2	79.3 79.3	79.3	5.4 5.4	5.4		8.8 8.1	8.5		5.0 4.7	4.9	
				3.7	Middle	-	-	-	-	-		-	-	-	-	-	5.4	-	-	8.8	-	-	5.3
					Bottom	2.7	29.0 28.9	28.9	8.2 8.2	8.2	22.5 22.6	22.5	79.1 80.7	79.9	5.4 5.5	5.4	5.4	8.9 9.2	9.1		5.8 5.4	5.6	
13-Aug-14***	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	<u> </u>
					Bottom	-	-	-		-		-	-	-	-	-	-	-	-		-	-	
15-Aug-14	Sunny	Moderate	15:32		Surface	1.0	28.9 28.9	28.9	7.8 7.7	7.7	21.1 21.2	21.2	80.9 80.0	80.5	5.7 5.6	5.7	5.7	6.5 6.7	6.6		6.9 6.4	6.7	
				3.8	Middle	-	-	-		-	-	-		-	-	-	5.7	-	-	6.7	-	-	7.1
					Bottom	2.8	28.5 28.7	28.6	7.7 7.7	7.7	21.9 21.7	21.8	81.9 80.2	81.1	5.8 5.7	5.7	5.7	6.7 6.6	6.7		7.1 7.6	7.4	
18-Aug-14	Sunny	Moderate	07:42		Surface	1.0	29.5 29.6	29.5	7.9 7.9	7.9	19.1 18.9	19.0	77.1 76.5	76.8	5.3 5.3	5.3	5.0	4.9 5.2	5.1		1.9 2.0	2.0	
				3.6	Middle	-	-	-	-	-	-	-	-	-	-	-	5.3	-	-	6.3	-	-	2.4
					Bottom	2.6	29.4 29.3	29.3	7.8 7.8	7.8	20.0 20.3	20.1	75.3 76.0	75.7	5.2 5.2	5.2	5.2	7.7 7.3	7.5		2.1 3.2	2.7	1
20-Aug-14	Rainy	Moderate	10:09		Surface	1.0	29.0 28.9	28.9	8.1 8.1	8.1	15.0 15.0	15.0	81.8 93.6	87.7	5.8 6.6	6.2	6.2	4.7 4.8	4.8		3.4 3.3	3.4	
				3.6	Middle	-	-	-		-		-	-	-	-	-	0.2	-	-	5.3	-	-	4.1
					Bottom	2.6	29.2 29.4	29.3	8.0 7.9	8.0	18.1 19.0	18.5	88.9 81.2	85.1	6.2 5.8	6.0	6.0	5.8 5.7	5.8		4.3 5.1	4.7	1

Remarks:

* DA: Depth-Averaged

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

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

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	Н	Salinit	y (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	(mg/L)	Т	urbidity(NTl	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
22-Aug-14	Sunny	Moderate	11:44		Surface	1.0	28.8 28.9	28.9	7.9 7.9	7.9	15.7 16.2	16.0	74.4 77.1	75.8	5.3 5.4	5.4	5.4	5.5 5.4	5.5		2.3 2.2	2.3	
				3.8	Middle		-	-	-	-	-	-	-	-	-	-	5.4	-	-	5.6	-	-	2.8
					Bottom	2.8	28.7 28.8	28.8	7.8 7.9	7.9	19.3 19.2	19.3	77.2 76.1	76.7	5.4 5.3	5.3	5.3	5.6 5.5	5.6		3.5 2.8	3.2	
25-Aug-14	Sunny	Moderate	13:31		Surface	1.0	29.0 28.7	28.9	8.1 8.1	8.1	20.1 20.3	20.2	93.1 91.9	92.5	6.4 6.4	6.4	6.4	6.0 5.4	5.7		3.6 3.6	3.6	
				3.8	Middle	-		-	• •	-		-	-	-		-	0.4	-	-	8.1	-	-	5.1
					Bottom	2.8	28.5 28.9	28.7	8.1 8.1	8.1	21.4 21.4	21.4	96.5 94.4	95.5	6.7 6.5	6.6	6.6	10.7 10.1	10.4		6.4 6.8	6.6	
27-Aug-14	Sunny	Moderate	13:26		Surface	1.0	28.4 28.4	28.4	8.1 8.1	8.1	21.7 21.8	21.8	92.9 88.2	90.6	6.4 6.1	6.2	6.2	4.6 4.6	4.6		7.7 7.8	7.8	
				3.8	Middle	-	-	-		-	-	-	-	-		-	0.2	-	-	4.6	-	-	8.0
					Bottom	2.8	28.4 28.2	28.3	8.0 8.1	8.0	21.8 22.4	22.1	94.9 87.3	91.1	6.5 6.0	6.3	6.3	4.5 4.6	4.6		7.8 8.5	8.2	
29-Aug-14	Sunny	Moderate	14:28		Surface	1.0	29.7 29.6	29.6	7.9 7.9	7.9	22.5 22.5	22.5	82.9 80.8	81.9	5.6 5.4	5.5	5.5	5.7 5.8	5.8		3.4 2.7	3.1	
				3.7	Middle	-	-	-	-	-	-	-	-	-	-	-	5.5	-	-	5.7	-	-	2.9
					Bottom	2.7	28.3 28.2	28.2	7.9 7.8	7.9	24.5 24.6	24.6	82.0 78.3	80.2	5.6 5.3	5.5	5.5	5.6 5.6	5.6		2.8 2.5	2.7	

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

Remarks:

* DA: Depth-Averaged

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

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

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	н	Salini	ity (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	٦	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*
1-Aug-14	Sunny	Moderate	09:30		Surface	1.0	29.8 29.8	29.8	7.9 7.9	7.9	19.5 19.5	19.5	96.7 95.6	96.2	6.6 6.5	6.6	6.6	4.3 4.2	4.3		3.1 3.4	3.3	
				3.7	Middle	-	-	-	-	-	-	-	-	-	-	-	0.0	-	-	4.5	-	-	3.7
					Bottom	2.7	29.8 29.8	29.8	7.9 8.0	7.9	19.6 19.7	19.7	95.9 97.8	96.9	6.5 6.7	6.6	6.6	4.5 4.7	4.6		4.2 3.7	4.0	
4-Aug-14	Sunny	Moderate	13:12		Surface	1.0	30.3 30.4	30.3	8.0 8.0	8.0	18.9 19.0	18.9	125.2 130.1	127.7	8.5 8.8	8.7	8.7	4.5 4.4	4.5		4.4 4.2	4.3	
				3.7	Middle	-	-	-	-	-		-	-	-	-	-	0.1	-	-	4.5	-	-	5.1
					Bottom	2.7	30.3 30.2	30.2	8.0 8.0	8.0	19.0 20.0	19.5	128.0 125.5	126.8	8.7 8.5	8.6	8.6	4.5 4.5	4.5		5.3 6.2	5.8	
6-Aug-14	Sunny	Moderate	15:38		Surface	1.0	29.9 29.8	29.8	8.5 8.6	8.6	20.0 20.0	20.0	117.3 107.2	112.3	8.0 7.3	7.6	7.6	7.1 7.5	7.3		7.6 7.3	7.5	
				3.7	Middle	•	-	-	-	-		-	-	-		-	7.0	-	-	7.4	-	-	8.1
					Bottom	2.7	29.9 29.5	29.7	8.6 8.4	8.5	19.9 21.4	20.6	113.5 109.2	111.4	7.7 7.4	7.6	7.6	7.3 7.4	7.4		8.7 8.7	8.7	
8-Aug-14	Sunny	Moderate	17:28		Surface	1.0	30.0 30.0	30.0	8.2 8.0	8.1	19.3 19.4	19.4	107.8 107.8	107.8	7.3 7.3	7.3	7.3	14.8 14.2	14.5		17.1 16.3	16.7	
				3.5	Middle	•	-	-	-	-		-	-	-		-	7.5	-	-	15.1	-	-	16.8
					Bottom	2.5	30.0 30.0	30.0	8.1 8.1	8.1	19.4 19.4	19.4	106.9 107.8	107.4	7.3 7.3	7.3	7.3	15.7 15.5	15.6		16.4 17.4	16.9	
11-Aug-14	Sunny	Moderate	06:40		Surface	1.0	28.8 28.8	28.8	8.2 8.2	8.2	21.4 21.5	21.4	78.0 78.5	78.3	5.4 5.4	5.4	5.4	9.2 9.5	9.4		6.3 6.2	6.3	
				3.7	Middle	-	-	-	-	-	-	-	-	-	-	-	5.4	-	-	9.7	-	-	6.7
					Bottom	2.7	28.7 28.7	28.7	8.2 8.1	8.1	21.6 21.7	21.6	78.4 77.4	77.9	5.4 5.3	5.3	5.3	9.8 10.1	10.0		7.1 6.9	7.0	
13-Aug-14	Rainy	Moderate	08:47		Surface	1.0	28.5 28.5	28.5	7.8 7.8	7.8	21.5 21.5	21.5	82.8 82.9	82.9	5.7 5.7	5.7	5.7	14.2 15.0	14.6		17.1 16.3	16.7	
				3.7	Middle	-	-	-	-	-	-	-	-	-	-	-	5.7	-	-	14.3	-	-	16.8
					Bottom	2.7	28.5 28.5	28.5	7.8 7.8	7.8	21.5 21.6	21.6	82.9 82.8	82.9	5.7 5.7	5.7	5.7	14.4 13.6	14.0		16.4 17.4	16.9	
15-Aug-14	Sunny	Moderate	10:32		Surface	1.0	28.7 28.6	28.6	7.8 7.8	7.8	20.1 20.1	20.1	80.0 77.1	78.6	5.7 5.5	5.6	5.6	12.9 12.5	12.7		12.7 13.0	12.9	
				3.7	Middle	-	-	-	-	-	-	-	-	-	-	-	5.0	-	-	12.7	-	-	14.2
					Bottom	2.7	28.6 28.6	28.6	7.8 7.8	7.8	20.1 20.1	20.1	84.8 78.8	81.8	6.0 5.6	5.8	5.8	12.8 12.6	12.7		15.2 15.8	15.5	
18-Aug-14	Sunny	Moderate	13:01		Surface	1.0	29.9 30.0	30.0	8.0 8.0	8.0	17.7 17.8	17.7	103.1 103.0	103.1	7.1 7.1	7.1	7.1	7.0 6.5	6.8		0.8 0.6	0.7	
				3.4	Middle	-	-	-	-	-	-	-	-	-	-	-	7.1	-	-	7.4	-	-	1.2
					Bottom	2.4	29.9 30.1	30.0	8.0 8.0	8.0	18.3 18.6	18.4	103.0 101.3	102.2	7.1 6.9	7.0	7.0	7.8 8.0	7.9		1.6 1.8	1.7	
20-Aug-14	Rainy	Moderate	16:32		Surface	1.0	28.2 27.7	28.0	7.9 7.9	7.9	13.0 12.3	12.6	87.2 88.9	88.1	6.3 6.6	6.5	0.5	10.8 10.7	10.8		4.8 5.7	5.3	
				3.6	Middle		-	-	-	-	-	-	-	-	-	-	6.5	-	-	10.8	-	-	5.3
					Bottom	2.6	29.0 29.1	29.0	7.8 7.6	7.7	17.5 17.9	17.7	89.7 94.2	92.0	6.3 6.6	6.4	6.4	10.9 10.5	10.7		5.4 5.1	5.3	1

* DA: Depth-Averaged

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

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

Date	Weather	Sea	Sampling	Water	Sampl	ing	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*
22-Aug-14	Sunny	Moderate	17:41		Surface	1.0	29.2 29.3	29.3	8.1 8.1	8.1	16.6 16.6	16.6	90.2 91.6	90.9	6.3 6.4	6.4	6.4	12.4 12.5	12.5		11.3 12.3	11.8	
				3.6	Middle		-	-	-	-	-	-	-	-	-	-	0.4	-	-	12.7	-	-	12.2
					Bottom	2.6	29.2 29.1	29.2	8.1 8.0	8.1	17.0 17.5	17.3	90.7 91.3	91.0	6.3 6.4	6.3	6.3	12.6 12.9	12.8		12.7 12.5	12.6	
25-Aug-14	Sunny	Moderate	19:05		Surface	1.0	29.3 29.6	29.5	8.0 8.1	8.1	20.2 20.1	20.2	101.9 112.2	107.1	7.0 7.7	7.3	7.3	7.3 8.0	7.7		10.1 10.5	10.3	
				3.3	Middle	-		-		-	-	-	-	-		-	7.5	-	-	8.2	-	-	10.9
					Bottom	2.3	29.4 28.8	29.1	8.0 7.9	8.0	21.0 21.8	21.4	108.4 100.0	104.2	7.4 6.8	7.1	7.1	8.9 8.5	8.7		11.4 11.5	11.5	
27-Aug-14	Sunny	Moderate	07:07		Surface	1.0	28.1 28.2	28.2	8.0 7.9	7.9	21.2 20.9	21.1	73.5 74.3	73.9	5.1 5.1	5.1	5.1	5.6 5.9	5.8		2.9 3.2	3.1	
				3.7	Middle	-	-	-	-	-	-	-	-	-	-	-	5.1	-	-	5.8	-	-	3.6
					Bottom	2.7	28.1 28.0	28.1	7.9 7.9	7.9	21.5 21.7	21.6	70.9 70.3	70.6	4.9 4.9	4.9	4.9	5.7 5.7	5.7		3.7 4.5	4.1	
29-Aug-14	Sunny	Moderate	09:00		Surface	1.0	27.9 27.9	27.9	7.9 7.9	7.9	22.5 22.5	22.5	71.9 72.0	72.0	5.0 5.0	5.0	5.0	9.6 9.5	9.6		4.7 5.1	4.9	
				3.6	Middle	-		-		-	-	-	-	-	-	-	5.0	-	-	9.8	-	-	5.1
					Bottom	2.6	27.9 27.8	27.9	7.9 7.9	7.9	22.7 22.8	22.7	71.9 71.7	71.8	5.0 5.0	5.0	5.0	9.9 9.8	9.9		5.0 5.3	5.2	

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

Remarks:

* DA: Depth-Averaged

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

Water Quality Monitoring Results at SR5 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	F	ъН	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	(mg/L)	T	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*
1-Aug-14	Sunny	Moderate	15:37		Surface	1.0	29.8 30.1	29.9	8.2 8.2	8.2	16.5 15.3	15.9	96.1 97.6	96.9	6.7 6.8	6.7	6.7	2.2 2.2	2.2		2.2 2.1	2.2	
				4.8	Middle	-	-	-	-	-	-	-	-	-	-	-	0.7	-	-	2.2	-	-	2.9
					Bottom	3.8	29.6 29.7	29.6	8.2 8.2	8.2	18.3 18.3	18.3	95.8 96.4	96.1	6.6 6.6	6.6	6.6	2.1 2.1	2.1		3.3 3.8	3.6	
4-Aug-14	Sunny	Moderate	18:24		Surface	1.0	29.8 30.1	29.9	8.3 8.3	8.3	15.4 14.8	15.1	78.2 75.0	76.6	5.7 5.6	5.6	5.0	4.4 4.4	4.4		3.0 3.0	3.0	
				4.8	Middle	-	-	-	-	-	-	-	-	-	-	-	5.6	-	-	4.4	-	-	3.5
					Bottom	3.8	29.2 29.9	29.5	8.3 8.3	8.3	19.9 19.7	19.8	81.2 79.1	80.2	6.0 6.0	6.0	6.0	4.2 4.5	4.4		3.9 3.8	3.9	
6-Aug-14	Sunny	Moderate	09:15		Surface	1.0	28.9 28.9	28.9	8.2 8.2	8.2	20.2 20.3	20.3	85.5 85.0	85.3	5.9 5.9	5.9	5.0	1.6 1.5	1.6		4.8 4.7	4.8	
				4.8	Middle	-	-	-	-	-	-	-	-	-	-	-	5.9	-	-	1.6	-	-	4.9
					Bottom	3.8	28.2 28.3	28.3	8.2 8.2	8.2	23.5 23.6	23.6	80.3 79.8	80.1	5.5 5.5	5.5	5.5	1.5 1.4	1.5		5.0 4.9	5.0	
8-Aug-14	Sunny	Moderate	11:32		Surface	1.0	29.3 29.2	29.3	8.2 8.2	8.2	14.3 14.5	14.4	90.5 89.8	90.2	6.4 6.4	6.4	6.4	2.8 2.6	2.7		-	-	
				5.0	Middle	-	-	-		-	-	-	-	-	-	-	6.4	-	-	2.8	-	-	1.9
					Bottom	4.0	29.0 28.7	28.9	8.2 8.2	8.2	18.0 18.4	18.2	90.3 91.4	90.9	6.3 6.4	6.3	6.3	2.7 2.8	2.8		1.8 1.9	1.9	
11-Aug-14	Sunny	Moderate	12:57		Surface	1.0	28.3 28.3	28.3	8.0 8.0	8.0	22.8 22.9	22.9	80.1 79.5	79.8	5.9 5.9	5.9	5.9	10.4 10.5	10.5		4.5 4.4	4.5	
				4.9	Middle	-	-	-	-	-	-	-	-	-	-	-	5.9	-	-	10.4	-	-	5.5
					Bottom	3.9	27.9 28.1	28.0	8.0 8.0	8.0	24.2 24.0	24.1	80.6 79.8	80.2	5.9 5.9	5.9	5.9	10.2 10.1	10.2		6.4 6.5	6.5	
13-Aug-14***	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
				-	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	=	-	-	-
					Bottom	-	-	-		-	-	-		-	-	-	-	-	-		-	-	
15-Aug-14	Sunny	Moderate	16:12		Surface	1.0	28.2 28.1	28.1	7.9 7.9	7.9	21.5 21.6	21.6	69.9 69.9	69.9	4.8 4.8	4.8	4.8	9.8 10.1	10.0		3.9 3.7	3.8	
				5.2	Middle	-	-	-		-	-	-		-	-	-	4.0	-	-	10.4	-	-	7.0
					Bottom	4.2	27.8 27.8	27.8	7.9 7.8	7.9	22.4 22.3	22.4	67.4 66.8	67.1	4.7 4.6	4.7	4.7	11.0 10.6	10.8		10.1 10.3	10.2	
18-Aug-14	Sunny	Moderate	07:26		Surface	1.0	29.1 29.1	29.1	8.1 8.1	8.1	14.6 14.6	14.6	90.6 89.5	90.1	6.4 6.3	6.4	6.4	2.0 2.1	2.1		1.4 1.6	1.5	
				4.9	Middle	-	-	-		-	-	-		-	-	-	0.7	-	-	2.1	-	-	1.9
					Bottom	3.9	29.0 29.1	29.0	8.0 8.0	8.0	16.7 16.8	16.7	88.4 90.9	89.7	6.2 6.4	6.3	6.3	2.2 2.0	2.1		2.2 2.4	2.3	
20-Aug-14	Rainy	Moderate	09:51		Surface	1.0	28.7 28.6	28.6	8.1 8.1	8.1	15.1 15.4	15.2	87.2 86.3	86.8	6.2 6.1	6.2	6.2	2.5 2.3	2.4		3.9 3.7	3.8	
				4.7	Middle	-	-	-	-	-	-	-	-	-	-	-	0.2	-	-	2.4	-	-	3.6
					Bottom	3.7	28.3 28.4	28.3	8.1 8.1	8.1	18.7 18.5	18.6	84.1 86.6	85.4	5.9 6.1	6.0	6.0	2.4 2.4	2.4		3.6 3.1	3.4	

Remarks:

* DA: Depth-Averaged

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

Water Quality Monitoring Results at SR5 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampl	ing	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)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
22-Aug-14	Sunny	Moderate	11:36		Surface	1.0	28.3 28.4	28.4	7.9 7.9	7.9	15.5 15.5	15.5	78.7 78.9	78.8	5.6 5.6	5.6	5.6	3.2 3.0	3.1		2.8 3.2	3.0	
				4.8	Middle	-	-	-	-	-	-	-	-	-	-	-	5.0	-	-	3.5	-	-	3.1
					Bottom	3.8	27.9 27.9	27.9	7.9 7.9	7.9	19.9 19.6	19.7	79.1 77.6	78.4	5.6 5.5	5.5	5.5	3.9 3.6	3.8		3.1 3.1	3.1	
25-Aug-14	Sunny	Moderate	13:20		Surface	1.0	28.9 28.9	28.9	8.1 8.1	8.1	16.3 16.6	16.4	74.5 73.6	74.1	5.2 5.2	5.2	5.2	3.3 3.3	3.3		1.9 1.7	1.8	
				5.2	Middle	-	-	-		-	• •	-	• •	-		-	5.2	-	-	3.3	-	-	1.9
					Bottom	4.2	28.5 28.0	28.3	8.0 8.0	8.0	19.3 19.2	19.3	73.9 70.9	72.4	5.2 5.0	5.1	5.1	3.1 3.3	3.2		1.8 2.0	1.9	
27-Aug-14	Sunny	Moderate	14:15		Surface	1.0	27.5 27.6	27.6	8.1 8.1	8.1	20.5 20.4	20.4	77.3 71.7	74.5	5.9 5.1	5.5	5.5	5.3 5.5	5.4		4.4 3.9	4.2	
				4.7	Middle	-	-	-	-	-	-	-	-	-	-	-	5.5	-	-	5.5	-	-	4.7
					Bottom	3.7	27.8 27.8	27.8	8.1 8.1	8.1	23.5 23.1	23.3	73.9 77.5	75.7	5.7 5.9	5.8	5.8	5.5 5.4	5.5		5.2 4.9	5.1	
29-Aug-14	Sunny	Moderate	14:43		Surface	1.0	27.7 27.4	27.5	8.1 8.1	8.1	22.1 23.7	22.9	84.5 82.1	83.3	5.9 5.7	5.8	5.8	8.6 8.9	8.8		5.4 5.5	5.5	
				4.7	Middle	-	-	-		-	-	-	-	-	-	-	5.0	-	-	9.1	-	-	6.0
					Bottom	3.7	27.4 27.5	27.5	8.1 8.1	8.1	23.8 23.7	23.8	85.5 83.4	84.5	5.9 5.8	5.8	5.8	9.5 9.3	9.4		6.2 6.6	6.4	

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

Remarks:

* DA: Depth-Averaged

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

Water Quality Monitoring Results at SR5 - 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)	Г	Furbidity(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*
1-Aug-14	Sunny	Moderate	09:37		Surface	1.0	29.4 29.5	29.4	8.1 8.1	8.1	17.4 17.5	17.4	84.5 84.6	84.6	5.9 5.9	5.9	5.0	1.3 1.4	1.4		1.9 2.0	2.0	
				5.2	Middle	-	-	-	-	-		-		-	-	-	5.9	-	-	1.5	-	-	2.3
					Bottom	4.2	29.3 29.2	29.3	8.1 8.1	8.1	20.7 20.1	20.4	84.3 83.7	84.0	5.8 5.7	5.7	5.7	1.5 1.5	1.5		2.7 2.3	2.5	
4-Aug-14	Sunny	Moderate	12:58		Surface	1.0	30.1 30.0	30.1	8.3 8.3	8.3	13.6 14.0	13.8	78.5 74.2	76.4	5.6 5.5	5.5	5.5	4.4 4.2	4.3		2.6 2.4	2.5	
				4.9	Middle	-	-	-	-	-		-		-	-	-	5.5	-	-	4.4	-	-	3.0
					Bottom	3.9	28.8 28.6	28.7	8.2 8.2	8.2	22.1 22.4	22.3	75.6 73.5	74.6	5.5 5.3	5.4	5.4	4.4 4.5	4.5		3.1 3.7	3.4	
6-Aug-14	Sunny	Moderate	16:03		Surface	1.0	28.8 28.9	28.8	8.3 8.4	8.3	15.5 15.2	15.3	101.2 101.4	101.3	6.9 7.2	7.0	7.0	5.6 5.3	5.5		2.8 2.7	2.8	
				4.6	Middle	-	-	-	-	-		-		-	-	-	7.0	-	-	6.0	-	-	3.7
					Bottom	3.6	28.4 28.4	28.4	8.3 8.2	8.3	23.6 23.6	23.6	97.5 98.1	97.8	6.9 6.7	6.8	6.8	6.2 6.6	6.4		4.5 4.7	4.6	
8-Aug-14	Sunny	Moderate	17:52		Surface	1.0	29.3 29.2	29.2	8.2 8.2	8.2	18.1 17.9	18.0	91.2 93.8	92.5	6.3 6.5	6.4		4.4 4.2	4.3		2.8 2.7	2.8	
				4.8	Middle	-	-	-	-	-	-	-	-	-	-	-	6.4	-	-	4.3	-	-	3.0
					Bottom	3.8	28.9 28.9	28.9	8.2 8.2	8.2	20.2 20.8	20.5	91.5 93.8	92.7	6.3 6.4	6.4	6.4	4.0 4.4	4.2		3.0 3.3	3.2	
11-Aug-14	Sunny	Moderate	06:31		Surface	1.0	27.9 27.8	27.9	8.1 8.1	8.1	23.6 24.0	23.8	75.2 75.0	75.1	5.6 5.6	5.6	5.6	11.1 12.1	11.6		16.0 15.8	15.9	
				5.0	Middle	-	-	-	-	-		-		-	-	-	0.0	-	-	11.6	-	-	17.5
					Bottom	4.0	27.8 27.7	27.8	8.1 8.1	8.1	24.1 24.5	24.3	75.2 74.5	74.9	5.6 5.5	5.5	5.5	11.6 11.5	11.6		18.7 19.5	19.1	
13-Aug-14	Rainy	Moderate	08:21		Surface	1.0	27.9 27.9	27.9	8.0 8.0	8.0	23.7 23.7	23.7	79.1 78.9	79.0	5.4 5.4	5.4	5.4	18.8 18.6	18.7		6.2 6.5	6.4	
				5.0	Middle	-	-	-	-	-	-	-	-	-	-	-	5.4	-	-	18.8	-	-	7.9
					Bottom	4.0	27.9 27.9	27.9	8.0 8.0	8.0	23.8 23.8	23.8	78.7 78.8	78.8	5.4 5.4	5.4	5.4	18.8 19.0	18.9		9.4 9.3	9.4	
15-Aug-14	Sunny	Moderate	10:11		Surface	1.0	28.3 28.3	28.3	8.0 8.0	8.0	20.4 20.4	20.4	68.5 69.6	69.1	4.8 4.8	4.8		11.3 11.3	11.3		4.6 4.3	4.5	
				5.0	Middle	-	-	-	-	-	-	-	-	-	-	-	4.8	-	-	12.5	-	-	5.1
					Bottom	4.0	27.5 27.5	27.5	7.9 7.9	7.9	23.3 23.3	23.3	65.2 65.1	65.2	4.5 4.5	4.5	4.5	13.6 13.8	13.7		5.2 6.1	5.7	
18-Aug-14	Sunny	Moderate	13:26		Surface	1.0	29.7 29.6	29.7	8.1 8.1	8.1	14.2 14.1	14.2	97.2 97.0	97.1	6.8 6.8	6.8	<u> </u>	3.1 3.2	3.2		2.5 2.7	2.6	
				5.1	Middle	-	-	-	-	-	-	-	-	-	-	-	6.8	-	-	3.3	-	-	2.7
					Bottom	4.1	29.2 29.1	29.2	8.0 8.0	8.0	17.0 17.0	17.0	96.3 95.3	95.8	6.7 6.7	6.7	6.7	3.4 3.3	3.4		2.9 2.6	2.8	1
20-Aug-14	Rainy	Moderate	16:50		Surface	1.0	28.6 28.6	28.6	8.1 8.0	8.1	13.1 12.9	13.0	94.9 93.9	94.4	6.8 6.8	6.8		3.9 4.1	4.0		4.8	4.8	
				4.9	Middle	-	-	-	-	-	-	-	-	-	-	-	6.8	-	-	4.2	-	-	5.0
					Bottom	3.9	28.4 28.4	28.4	8.0 7.9	8.0	16.9 17.0	17.0	91.5 88.2	89.9	6.5 6.3	6.4	6.4	4.2 4.4	4.3		4.4 5.7	5.1	1

Remarks:

* DA: Depth-Averaged

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

Water Quality Monitoring Results at SR5 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Sampli	ing	Tempera	ature (°C)	F	Η	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	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*
22-Aug-14	Sunny	Moderate	17:54		Surface	1.0	29.0 29.2	29.1	7.8 7.8	7.8	12.8 13.2	13.0	95.9 95.8	95.9	6.9 6.9	6.9	6.9	5.8 5.7	5.8		6.0 5.6	5.8	
				4.6	Middle	-		-		-	-	-	-	-	-	-	0.5	-	-	5.9	-	-	5.9
					Bottom	3.6	28.7 28.1	28.4	7.7 7.6	7.7	17.7 19.2	18.5	94.6 93.0	93.8	6.8 6.7	6.7	6.7	5.8 6.2	6.0		5.8 6.2	6.0	
25-Aug-14	Sunny	Moderate	19:17		Surface	1.0	29.1 29.4	29.2	8.1 8.1	8.1	16.7 16.3	16.5	80.7 84.0	82.4	5.7 5.9	5.8	5.8	2.9 2.8	2.9		3.1 3.3	3.2	
				5.1	Middle	-		-		-	-	-	-	-	-	-	0.0	-	-	3.0	-	-	3.6
					Bottom	4.1	29.1 28.8	28.9	8.1 8.2	8.1	17.9 17.9	17.9	82.8 87.9	85.4	5.8 6.2	6.0	6.0	3.0 3.2	3.1		3.8 4.2	4.0	
27-Aug-14	Sunny	Moderate	07:37		Surface	1.0	27.4 27.7	27.6	8.1 8.1	8.1	21.6 21.2	21.4	70.5 70.8	70.7	5.1 5.1	5.1	5.1	5.4 5.4	5.4		5.2 5.2	5.2	
				5.1	Middle	-	-	-	-	-	-	-	-	-	-	-	5.1	-	-	5.5	-	-	5.7
					Bottom	4.1	27.4 27.2	27.3	8.1 8.1	8.1	24.1 24.2	24.2	73.0 71.1	72.1	5.1 5.1	5.1	5.1	5.6 5.5	5.6		6.3 6.1	6.2	
29-Aug-14	Sunny	Moderate	08:53		Surface	1.0	27.2 27.1	27.1	8.1 8.1	8.1	24.4 24.4	24.4	76.0 75.7	75.9	5.3 5.3	5.3	5.3	14.2 13.9	14.1		5.9 5.7	5.8	
				4.9	Middle	-		-		-	-	-	-	-	-	-	5.5	-	-	14.7	-	-	6.1
					Bottom	3.9	27.1 27.1	27.1	8.1 8.1	8.1	24.8 24.8	24.8	75.6 75.7	75.7	5.2 5.3	5.2	5.2	15.1 15.2	15.2		6.8 5.8	6.3	

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

Remarks:

* DA: Depth-Averaged

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

Water Quality Monitoring Results at SR6 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	F	Η	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	(mg/L)	٦	Furbidity(NT	J)	Suspe	ended Solid	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
1-Aug-14	Sunny	Moderate	14:51		Surface	1.0	30.5 30.3	30.4	8.2 8.2	8.2	14.9 14.8	14.9	96.0 94.7	95.4	6.6 6.6	6.6	6.6	2.7 2.8	2.8		3.0 3.7	3.4	
				3.9	Middle	-	-	-		-	-	-	-	-	-	-	0.0	-	-	2.8	-	-	3.7
					Bottom	2.9	29.6 29.8	29.7	8.2 8.2	8.2	18.0 17.1	17.5	93.9 93.8	93.9	6.5 6.5	6.5	6.5	2.8 2.7	2.8		4.0 3.8	3.9	
4-Aug-14	Sunny	Moderate	17:46		Surface	1.0	30.1 29.8	29.9	8.3 8.3	8.3	15.0 15.2	15.1	74.8 72.6	73.7	5.5 5.3	5.4		5.8 5.7	5.8		3.2 2.9	3.1	
				3.9	Middle	-	-	-	-	-	-	-	-	-	-	-	5.4	-	-	5.7	-	-	3.3
					Bottom	2.9	29.9 29.7	29.8	8.3 8.3	8.3	17.6 17.8	17.7	72.0 74.2	73.1	5.2 5.3	5.3	5.3	5.6 5.4	5.5		3.5 3.5	3.5	
6-Aug-14	Sunny	Moderate	10:15		Surface	1.0	29.3 29.3	29.3	8.4 8.4	8.4	16.2 16.3	16.2	100.9 110.9	105.9	7.0 7.8	7.4		2.7 2.4	2.6		5.2 5.3	5.3	
				3.7	Middle	-	-	-	-	-	-	-	-	-	-	-	7.4	-	-	2.8	-	-	5.3
					Bottom	2.7	29.1 29.2	29.1	8.3 8.3	8.3	17.9 18.6	18.2	99.1 97.8	98.5	6.9 6.9	6.9	6.9	3.0 2.9	3.0		5.1 5.3	5.2	
8-Aug-14	Sunny	Moderate	12:15		Surface	1.0	29.3 29.5	29.4	8.2 8.2	8.2	16.8 16.9	16.8	83.6 84.7	84.2	5.8 5.9	5.9	5.0	2.0 2.2	2.1		1.5 1.6	1.6	
				4.1	Middle	-	-	-	-	-	-	-	-	-	-	-	5.9	-	-	2.1	-	-	1.9
					Bottom	3.1	28.7 28.7	28.7	8.2 8.1	8.2	18.5 19.0	18.8	82.8 83.1	83.0	5.8 5.8	5.8	5.8	2.1 2.1	2.1		2.3 2.1	2.2	
11-Aug-14	Sunny	Moderate	12:01		Surface	1.0	29.0 29.0	29.0	8.1 8.1	8.1	22.0 22.0	22.0	88.1 89.0	88.6	6.4 6.5	6.4	6.4	5.0 4.7	4.9		4.2 4.2	4.2	
				4.3	Middle	-	-	-	-	-	-	-	-	-	-	-	0.4	-	-	5.3	-	-	4.8
					Bottom	3.3	28.5 28.5	28.5	8.1 8.1	8.1	22.7 22.7	22.7	86.5 88.8	87.7	6.3 6.5	6.4	6.4	5.7 5.7	5.7		5.6 5.1	5.4	
13-Aug-14***	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	=
					Bottom	-	-	-		-	-	-	-	-	-	-	-	-	-		-	-	
15-Aug-14	Sunny	Moderate	15:24		Surface	1.0	29.3 29.3	29.3	7.9 8.0	8.0	19.1 19.1	19.1	80.1 79.7	79.9	5.5 5.5	5.5	5.5	5.2 5.4	5.3		6.5 6.6	6.6	
				4.2	Middle	-	-	-	-	-	-	-	-	-	-	-	5.5	-	-	5.7	-	-	7.0
					Bottom	3.2	28.0 27.9	28.0	7.9 7.9	7.9	22.1 22.2	22.2	73.9 74.3	74.1	5.1 5.2	5.1	5.1	6.2 5.8	6.0		7.4 7.1	7.3	
18-Aug-14	Sunny	Moderate	08:21		Surface	1.0	29.1 29.1	29.1	8.0 8.0	8.0	13.9 13.8	13.9	83.1 84.9	84.0	5.9 6.0	6.0	6.0	3.1 3.2	3.2		2.6 2.4	2.5	
				4.1	Middle	-	-	-		-	-	-	-	-	-	-	0.0	-	-	3.2	-	-	2.6
					Bottom	3.1	28.8 28.6	28.7	8.0 8.0	8.0	14.7 14.8	14.7	80.4 77.7	79.1	5.7 5.5	5.6	5.6	3.1 3.2	3.2		2.7 2.5	2.6	
20-Aug-14	Rainy	Moderate	10:46		Surface	1.0	28.6 28.6	28.6	8.2 8.2	8.2	13.2 13.3	13.2	98.8 98.5	98.7	7.1 7.1	7.1	7.1	3.1 3.1	3.1		5.2 4.3	4.8	
				3.9	Middle	-	-	-	-	-	-	-	-	-	-	-	1.1	-	-	3.0	-	-	4.5
					Bottom	2.9	28.6 28.6	28.6	8.2 8.2	8.2	13.5 13.5	13.5	98.0 96.8	97.4	7.0 7.0	7.0	7.0	2.6 3.0	2.8		4.4 3.7	4.1	

Remarks:

* DA: Depth-Averaged

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

Water Quality Monitoring Results at SR6 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampli	ing	Tempera	ature (°C)	F	Η	Salinit	ty (ppt)	DO Satu	ration (%)	Dissolv	ved Oxyger	ı (mg/L)	Т	urbidity(NTL	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth ((m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
22-Aug-14	Sunny	Moderate	12:29		Surface	1.0	29.4 29.4	29.4	8.0 8.0	8.0	11.8 12.0	11.9	83.3 83.4	83.4	6.0 6.0	6.0	6.0	3.6 3.7	3.7		3.0 3.1	3.1	
				4.3	Middle	-		-		-		-		-	-	-	0.0	-	-	3.7	-	-	3.1
					Bottom	3.3	29.0 28.8	28.9	8.0 8.0	8.0	13.5 13.2	13.4	82.3 80.9	81.6	5.9 5.8	5.8	5.8	3.9 3.4	3.7		3.0 3.1	3.1	
25-Aug-14	Sunny	Moderate	14:21		Surface	1.0	29.6 29.6	29.6	8.1 8.1	8.1	16.5 16.5	16.5	79.8 81.0	80.4	5.6 5.6	5.6	5.6	2.4 2.6	2.5		2.5 2.8	2.7	
				4.2	Middle	-		-	-	-	-	-	-	-	-	-	0.0	-	-	2.6	-	-	2.9
					Bottom	3.2	29.5 29.2	29.3	8.1 8.1	8.1	16.6 16.7	16.7	74.6 79.8	77.2	5.2 5.6	5.4	5.4	2.7 2.7	2.7		3.0 2.9	3.0	
27-Aug-14	Sunny	Moderate	13:16		Surface	1.0	27.6 27.7	27.6	8.1 8.1	8.1	20.8 20.9	20.9	76.7 72.0	74.4	5.9 5.5	5.7	5.7	3.6 3.5	3.6		3.7 3.4	3.6	
				4.9	Middle	-	-	-		-	-	-	-	-	-	-	5.7	-	-	3.6	-	-	3.9
					Bottom	3.9	27.3 27.8	27.6	8.1 8.1	8.1	23.1 22.7	22.9	77.7 77.5	77.6	5.9 5.8	5.8	5.8	3.6 3.4	3.5		4.5 3.9	4.2	
29-Aug-14	Sunny	Moderate	13:51		Surface	1.0	28.6 28.7	28.7	8.1 8.1	8.1	21.2 21.1	21.1	79.2 82.7	81.0	5.5 5.7	5.6	5.6	7.6 7.4	7.5		5.5 4.1	4.8	
				4.3	Middle	-		-		-		-		-	-	-	5.0	-	-	9.0	-	-	4.9
					Bottom	3.3	27.2 27.1	27.2	8.1 8.1	8.1	24.5 24.5	24.5	80.5 78.0	79.3	5.6 5.4	5.5	5.5	10.5 10.4	10.5		4.7 5.1	4.9	1

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

Remarks:

* DA: Depth-Averaged

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

Water Quality Monitoring Results at SR6 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	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*
1-Aug-14	Sunny	Moderate	10:39		Surface	1.0	29.7 29.7	29.7	8.1 8.1	8.1	15.1 15.3	15.2	84.6 85.0	84.8	5.9 5.9	5.9		1.5 1.4	1.5		2.0 2.3	2.2	
				4.3	Middle	-	-	-	-	-	-	-	-	-	-	-	5.9	-	-	1.5	-	-	2.4
					Bottom	3.3	29.6 29.5	29.6	8.0 8.1	8.1	18.2 17.8	18.0	84.6 83.9	84.3	5.8 5.8	5.8	5.8	1.5 1.5	1.5		2.3 2.7	2.5	
4-Aug-14	Sunny	Moderate	13:44		Surface	1.0	29.5 29.5	29.5	8.2 8.2	8.2	15.0 16.1	15.5	78.2 74.8	76.5	5.7 5.7	5.7		5.5 5.4	5.5		3.2 3.3	3.3	1
				4.4	Middle	-	-	-	-	-	-	-	-	-	-	-	5.7	-	-	5.5	-	-	3.3
					Bottom	3.4	29.5 29.2	29.3	8.2 8.2	8.2	17.4 17.6	17.5	75.6 74.6	75.1	5.7 5.5	5.6	5.6	5.6 5.4	5.5		3.5 3.0	3.3	
6-Aug-14	Sunny	Moderate	15:04		Surface	1.0	29.1 28.9	29.0	8.3 8.3	8.3	15.0 15.1	15.0	99.9 98.1	99.0	7.1 6.9	7.0	7.0	4.2 4.2	4.2		4.5 4.2	4.4	1
				3.7	Middle	-	-	-	-	-	-	-	-	-	-	-	7.0	-	-	5.0	-	-	4.9
					Bottom	2.7	29.1 28.4	28.8	8.3 8.2	8.3	16.9 18.4	17.7	90.0 87.6	88.8	6.4 6.2	6.3	6.3	5.5 5.8	5.7		5.6 5.0	5.3	
8-Aug-14	Sunny	Moderate	16:56		Surface	1.0	30.0 30.0	30.0	8.2 8.2	8.2	15.8 15.8	15.8	90.1 86.1	88.1	6.2 6.0	6.1		4.7	4.7		2.2 3.0	2.6	i
				4.1	Middle	-	-	-	-	-	-	-	-	-	-	-	6.1	-	-	4.8	-	-	3.5
					Bottom	3.1	29.9 29.5	29.7	8.1 8.1	8.1	17.1 17.3	17.2	88.0 79.2	83.6	6.1 5.5	5.8	5.8	4.9 4.8	4.9		4.0 4.5	4.3	
11-Aug-14	Sunny	Moderate	07:26		Surface	1.0	28.0 28.0	28.0	8.1 8.1	8.1	23.5 23.5	23.5	77.1 77.1	77.1	5.7 5.7	5.7	5.7	16.6 16.4	16.5		15.9 15.3	15.6	
				4.2	Middle	-	-	-	-	-	-	-		-	-	-	5.7	-	-	16.7	-	-	17.8
					Bottom	3.2	27.9 28.0	27.9	8.1 8.1	8.1	23.7 23.7	23.7	76.5 77.1	76.8	5.7 5.7	5.7	5.7	16.7 16.8	16.8		20.2 19.6	19.9	
13-Aug-14	Rainy	Moderate	09:11		Surface	1.0	28.0 27.9	27.9	8.0 8.0	8.0	22.7 22.9	22.8	84.0 80.9	82.5	5.8 5.6	5.7		8.2 8.3	8.3		13.5 13.1	13.3	
				5.4	Middle	-	-	-	-	-	-	-	-	-	-	-	5.7	-	-	8.3	-	-	9.8
					Bottom	4.4	27.6 27.9	27.8	8.0 8.0	8.0	23.8 23.9	23.8	80.5 81.5	81.0	5.6 5.6	5.6	5.6	8.3 8.3	8.3		6.2 6.1	6.2	
15-Aug-14	Sunny	Moderate	10:59		Surface	1.0	28.5 28.5	28.5	8.0 8.0	8.0	19.8 19.8	19.8	71.0 70.9	71.0	4.9 4.9	4.9		5.6 5.4	5.5		5.6 5.8	5.7	1
				4.0	Middle	-	-	-	-	-	-	-	-	-	-	-	4.9	-	-	6.1	-	-	6.0
					Bottom	3.0	27.7 27.7	27.7	8.0 8.0	8.0	22.6 22.6	22.6	65.2 65.4	65.3	4.5 4.5	4.5	4.5	6.8 6.5	6.7		6.1 6.2	6.2	
18-Aug-14	Sunny	Moderate	12:31		Surface	1.0	29.4 29.4	29.4	8.0 8.0	8.0	14.1 14.1	14.1	86.0 88.7	87.4	6.1 6.3	6.2	6.2	3.3 3.4	3.4		2.5 2.8	2.7	
				4.1	Middle	-	-	-	-	-	-	-	-	-	-	-	6.2	-	-	3.4	-	-	3.0
					Bottom	3.1	28.6 28.7	28.6	8.0 8.0	8.0	19.8 18.2	19.0	81.8 86.3	84.1	5.7 6.0	5.9	5.9	3.3 3.3	3.3		3.0 3.4	3.2	
20-Aug-14	Rainy	Moderate	15:52		Surface	1.0	28.6 28.6	28.6	8.0 8.0	8.0	14.2 12.1	13.2	87.8 88.1	88.0	6.3 6.4	6.3	6.0	5.4 5.3	5.4		4.8 5.5	5.2	
				3.6	Middle	-	-	-	-	-	-	-	-	-	-	-	6.3	-	-	5.6	-	-	5.0
					Bottom	2.6	28.5 28.6	28.5	7.9 8.0	7.9	15.8 15.2	15.5	85.9 87.8	86.9	6.1 6.3	6.2	6.2	6.0 5.5	5.8	1	4.9 4.4	4.7	

Remarks:

* DA: Depth-Averaged

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

Water Quality Monitoring Results at SR6 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Sampl	ling	Tempera	ature (°C)	F	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	n (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*
22-Aug-14	Sunny	Moderate	16:59		Surface	1.0	29.4 29.4	29.4	7.8 7.7	7.8	12.6 12.6	12.6	81.4 80.8	81.1	5.8 5.8	5.8	5.8	4.8 4.8	4.8		6.5 6.1	6.3	
				4.3	Middle	-	-	-		-		-	-	-	-	-	5.0	-	-	4.7	-	-	6.5
					Bottom	3.3	29.2 29.3	29.3	7.7 7.7	7.7	13.1 13.0	13.1	80.6 81.1	80.9	5.7 5.8	5.8	5.8	4.4 4.6	4.5		6.5 6.8	6.7	
25-Aug-14	Sunny	Moderate	18:20		Surface	1.0	29.8 29.8	29.8	8.2 8.2	8.2	15.4 15.5	15.4	94.2 92.4	93.3	6.6 6.4	6.5	6.5	3.7 3.7	3.7		2.2 3.0	2.6	
				4.2	Middle	-	-	-		-	-	-	-	-	-	-	0.0	-	-	3.8	-	-	3.0
					Bottom	3.2	29.7 29.6	29.7	8.2 8.2	8.2	15.8 15.9	15.9	93.5 91.8	92.7	6.5 6.4	6.5	6.5	3.9 3.7	3.8		3.4 3.4	3.4	
27-Aug-14	Sunny	Moderate	08:28		Surface	1.0	27.2 27.1	27.2	8.1 8.1	8.1	24.0 24.2	24.1	72.8 72.5	72.7	5.5 5.2	5.3	5.3	3.5 3.3	3.4		11.3 11.7	11.5	
				4.3	Middle	-	-	-	-	-	-	-	-	-	-	-	5.5	-	-	3.4	-	-	11.9
					Bottom	3.3	27.2 27.2	27.2	8.1 8.1	8.1	24.1 24.2	24.2	77.3 78.1	77.7	5.9 5.8	5.8	5.8	3.2 3.5	3.4		11.6 13.0	12.3	
29-Aug-14	Sunny	Moderate	09:47		Surface	1.0	27.9 27.9	27.9	8.1 8.1	8.1	20.7 20.7	20.7	80.0 79.2	79.6	5.6 5.5	5.6	5.6	7.2 7.3	7.3		2.7 2.4	2.6	
				4.3	Middle	-	-	-	-	-		-	-	-	-	-	5.0	-	-	8.8	-	-	3.3
					Bottom	3.3	27.1 27.6	27.3	8.1 8.0	8.0	24.8 24.6	24.7	77.1 79.1	78.1	5.3 5.5	5.4	5.4	9.8 10.8	10.3		3.6 4.1	3.9	

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

Remarks:

* DA: Depth-Averaged

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

Water Quality Monitoring Results at SR7 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	(mg/L)	F	Furbidity(NT	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*
1-Aug-14	Sunny	Moderate	16:09		Surface	1.0	29.8 29.9	29.9	8.2 8.2	8.2	16.2 15.9	16.0	95.4 96.0	95.7	6.6 6.7	6.6	6.6	3.2 3.1	3.2		1.8 2.4	2.1	
				4.3	Middle	-	-	-	-	-	-	-	-	-	-	-	0.0	-	-	3.3	-	-	2.2
					Bottom	3.3	29.6 29.8	29.7	8.1 8.2	8.2	17.8 17.5	17.7	95.5 95.9	95.7	6.6 6.6	6.6	6.6	3.3 3.4	3.4		2.4 2.2	2.3	
4-Aug-14	Sunny	Moderate	18:58		Surface	1.0	30.2 30.2	30.2	8.4 8.4	8.4	15.5 15.5	15.5	73.5 77.8	75.7	5.3 5.7	5.5		5.4 5.6	5.5		2.4 2.3	2.4	
				4.1	Middle	-	-	-	-	-	-	-	-	-	-	-	5.5	-	-	5.5	-	-	2.5
					Bottom	3.1	30.3 30.1	30.2	8.4 8.4	8.4	16.3 16.6	16.4	73.9 74.3	74.1	5.3 5.5	5.4	5.4	5.2 5.5	5.4		2.7 2.3	2.5	
6-Aug-14	Sunny	Moderate	08:44		Surface	1.0	28.9 29.4	29.1	8.3 8.3	8.3	18.9 18.1	18.5	96.6 97.7	97.2	6.7 6.7	6.7	0.7	1.6 1.6	1.6		4.3 4.4	4.4	
				4.0	Middle	-	-	-	-	-	-	-	-	-	-	-	6.7	-	-	1.7	-	-	4.2
					Bottom	3.0	28.2 28.0	28.1	8.2 8.1	8.2	24.2 24.3	24.3	94.4 86.3	90.4	6.5 5.9	6.2	6.2	1.6 1.8	1.7		3.8 4.1	4.0	1
8-Aug-14	Sunny	Moderate	11:03		Surface	1.0	29.9 29.0	29.4	8.3 8.2	8.3	14.6 15.5	15.1	90.7 89.2	90.0	6.4 6.3	6.3		2.1 2.1	2.1		1.5 1.4	1.5	
				4.3	Middle	-	-	-	-	-	-	-	-	-	-	-	6.3	-	-	2.1	-	-	1.6
					Bottom	3.3	28.9 28.7	28.8	8.2 8.3	8.2	18.4 18.4	18.4	89.5 92.2	90.9	6.2 6.5	6.3	6.3	2.1 2.1	2.1		1.5 1.8	1.7	1
11-Aug-14	Sunny	Moderate	13:24		Surface	1.0	28.7 28.9	28.8	8.1 8.0	8.1	22.2 22.2	22.2	80.6 83.4	82.0	5.9 6.1	6.0		6.7 6.5	6.6		5.3 5.5	5.4	
				4.3	Middle	-	-	-	-	-	-	-	-	-	-	-	6.0	-	-	6.7	-	-	5.6
					Bottom	3.3	28.2 27.8	28.0	8.0 8.0	8.0	23.9 24.3	24.1	80.8 78.0	79.4	5.9 5.8	5.8	5.8	6.8 6.7	6.8		5.7 5.7	5.7	1
13-Aug-14***	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	1
				-	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
15-Aug-14	Sunny	Moderate	16:45		Surface	1.0	28.6 28.6	28.6	8.0 8.0	8.0	20.8 20.8	20.8	74.2 74.2	74.2	5.1 5.1	5.1	5.4	6.8 6.9	6.9		6.4 5.8	6.1	
				4.1	Middle	-	-	-	-	-	-	-		-	-	-	5.1	-	-	7.1	-	-	7.7
					Bottom	3.1	28.4 28.4	28.4	8.0 8.0	8.0	21.3 21.2	21.2	72.2 73.1	72.7	5.0 5.1	5.0	5.0	7.2 7.3	7.3		9.1 9.4	9.3	
18-Aug-14	Sunny	Moderate	07:00		Surface	1.0	29.1 29.1	29.1	7.9 8.0	7.9	14.8 14.8	14.8	92.6 92.5	92.6	6.6 6.6	6.6		1.9 2.0	2.0		2.0 2.0	2.0	
				4.3	Middle	-	-	-	-	-	-	-	-	-	-	-	6.6	-	-	2.0	-	-	1.9
					Bottom	3.3	29.1 29.1	29.1	7.9 7.8	7.8	16.3 16.4	16.4	92.6 92.5	92.6	6.5 6.5	6.5	6.5	2.0 1.9	2.0		1.9 1.6	1.8	1
20-Aug-14	Rainy	Moderate	09:19		Surface	1.0	28.6 28.5	28.6	7.3 7.3	7.3	13.8 14.5	14.1	87.6 85.8	86.7	6.3 6.0	6.2		2.5 2.6	2.6		2.0 3.2	2.6	
				3.8	Middle	-	-	-	-	-	-	-	-	-	-	-	6.2	-	-	2.6	-	-	2.6
					Bottom	2.8	28.1 28.4	28.2	7.1 7.0	7.1	19.5 19.7	19.6	82.8 84.2	83.5	5.9 6.0	6.0	6.0	2.7	2.6		2.6 2.4	2.5	1

Remarks:

* DA: Depth-Averaged

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

Water Quality Monitoring Results at SR7 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampli	ing	Tempera	ature (°C)	F	Η	Salinit	ty (ppt)	DO Satu	ration (%)	Dissolv	ved Oxyger	ı (mg/L)	Т	urbidity(NTL	J)	Suspe	nded Solids	. (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth ((m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
22-Aug-14	Sunny	Moderate	11:07		Surface	1.0	29.2 29.0	29.1	8.0 8.0	8.0	11.8 12.3	12.1	83.4 83.5	83.5	6.0 6.0	6.0	6.0	3.2 3.1	3.2		3.8 3.9	3.9	
				4.3	Middle	-		-		-		-		-	-	-	0.0	-	-	3.0	-	-	3.8
					Bottom	3.3	28.6 28.7	28.7	8.0 8.0	8.0	15.0 14.9	14.9	82.9 82.6	82.8	5.9 5.9	5.9	5.9	2.6 2.8	2.7		3.6 3.8	3.7	
25-Aug-14	Sunny	Moderate	12:51		Surface	1.0	28.9 29.1	29.0	8.1 8.1	8.1	16.7 16.6	16.6	77.6 78.3	78.0	5.5 5.5	5.5	5.5	2.8 2.8	2.8		2.3 2.3	2.3	
				4.3	Middle	-		-	-	-	-	-	-	-	-	-	0.0	-	-	2.9	-	-	2.8
					Bottom	3.3	28.1 28.6	28.4	8.1 8.1	8.1	18.8 17.8	18.3	77.2 77.4	77.3	5.4 5.4	5.4	5.4	2.9 2.9	2.9		3.4 3.2	3.3	
27-Aug-14	Sunny	Moderate	14:46		Surface	1.0	28.0 28.0	28.0	8.1 8.1	8.1	20.1 20.2	20.2	78.3 78.8	78.6	5.8 5.9	5.8	5.8	2.4 2.3	2.4		4.6 5.0	4.8	
				4.1	Middle	-	-	-	-	-	-	-	-	-	-	-	5.0	-	-	2.4	-	-	5.0
					Bottom	3.1	28.0 27.9	28.0	8.1 8.2	8.1	20.3 21.5	20.9	78.2 77.4	77.8	5.8 5.4	5.6	5.6	2.5 2.2	2.4		5.0 5.4	5.2	
29-Aug-14	Sunny	Moderate	15:09		Surface	1.0	27.6 27.7	27.6	8.1 8.1	8.1	23.5 23.0	23.3	79.5 79.5	79.5	5.5 5.5	5.5	5.5	5.5 5.2	5.4		3.3 5.1	4.2	
				4.0	Middle	-		-		-		-		-	-	-	5.5	-	-	6.1	-	-	4.4
					Bottom	3.0	27.2 27.4	27.3	8.1 8.1	8.1	24.7 24.5	24.6	78.8 79.3	79.1	5.5 5.5	5.5	5.5	6.6 6.7	6.7		4.1 4.8	4.5	

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

Remarks:

* DA: Depth-Averaged

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

Water Quality Monitoring Results at SR7 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	i (mg/L)	Г	Furbidity(NT	J)	Suspe	ended Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
1-Aug-14	Sunny	Moderate	09:09		Surface	1.0	29.0 29.0	29.0	8.1 8.1	8.1	20.0 20.0	20.0	81.2 79.9	80.6	5.6 5.5	5.5		1.7 1.8	1.8		4.1 4.3	4.2	
				4.3	Middle	-	-	-	-	-		-		-	-	-	5.5	-	-	1.8	-	-	4.4
					Bottom	3.3	28.9 29.0	29.0	8.1 8.1	8.1	20.3 20.1	20.2	83.1 80.5	81.8	5.7 5.5	5.6	5.6	1.8 1.8	1.8		4.6 4.4	4.5	1
4-Aug-14	Sunny	Moderate	12:28		Surface	1.0	29.2 29.0	29.1	8.3 8.2	8.3	20.5 20.3	20.4	76.2 73.2	74.7	5.5 5.3	5.4		5.4 5.8	5.6		4.4 4.6	4.5	
				4.0	Middle	-	-	-	-	-	-	-	-	-	-	-	5.4	-	-	5.5	-	-	5.2
					Bottom	3.0	29.1 28.1	28.6	8.2 8.2	8.2	23.3 23.8	23.5	75.8 71.4	73.6	5.4 5.3	5.4	5.4	5.2 5.6	5.4		6.1 5.6	5.9	1
6-Aug-14	Sunny	Moderate	16:32		Surface	1.0	29.3 29.4	29.3	8.4 8.5	8.4	17.3 17.2	17.2	116.4 120.6	118.5	8.0 8.4	8.2		3.5 3.3	3.4		5.8 5.5	5.7	
				4.2	Middle	-	-	-	-	-	-	-	-	-	-	-	8.2	-	-	3.3	-	-	6.5
					Bottom	3.2	29.0 28.8	28.9	8.4 8.4	8.4	20.2 20.7	20.4	114.7 111.3	113.0	7.8 7.8	7.8	7.8	3.3 3.0	3.2		7.2 7.3	7.3	
8-Aug-14	Sunny	Moderate	18:21		Surface	1.0	29.2 29.2	29.2	8.2 8.2	8.2	19.3 19.3	19.3	85.1 85.6	85.4	5.9 5.9	5.9	5.0	5.4 5.4	5.4		3.7 3.7	3.7	
				4.2	Middle	-	-	-		-	-	-		-	-	-	5.9	-	-	5.5	-	-	4.0
					Bottom	3.2	29.2 28.9	29.0	8.2 8.2	8.2	19.3 19.8	19.6	85.4 82.8	84.1	5.9 5.7	5.8	5.8	5.6 5.6	5.6		3.7 4.7	4.2	
11-Aug-14	Sunny	Moderate	06:01		Surface	1.0	28.2 28.1	28.2	8.1 8.1	8.1	22.1 22.1	22.1	79.5 79.3	79.4	5.9 5.9	5.9	5.9	8.8 8.9	8.9		5.3 5.2	5.3	
				4.3	Middle	-	-	-	-	-	-	-	-	-	-	-	5.5	-	-	8.9	-	-	6.1
					Bottom	3.3	27.6 28.0	27.8	8.1 8.1	8.1	24.4 24.1	24.2	78.5 79.7	79.1	5.8 5.9	5.8	5.8	8.9 8.9	8.9		6.6 7.0	6.8	
13-Aug-14	Rainy	Moderate	08:00		Surface	1.0	28.0 28.0	28.0	8.0 8.0	8.0	22.7 22.8	22.8	91.1 86.8	89.0	6.3 6.0	6.1	6.1	11.2 11.1	11.2		3.7 3.7	3.7	
				4.6	Middle	I	-	-		-		-		-	-	-	0.1	-	-	11.2	-	-	4.0
					Bottom	3.6	28.0 28.0	28.0	8.0 8.0	8.0	23.4 23.1	23.2	87.2 85.2	86.2	6.0 5.9	5.9	5.9	11.2 11.1	11.2		3.7 4.7	4.2	
15-Aug-14	Sunny	Moderate	09:37		Surface	1.0	28.1 28.1	28.1	7.9 7.8	7.9	20.8 20.7	20.8	70.4 70.3	70.4	4.9 4.9	4.9	4.9	12.9 13.3	13.1		11.1 11.3	11.2	
				3.9	Middle	I	-	-		-		-		-	-	-	4.5	-	-	13.7	-	-	11.3
					Bottom	2.9	28.0 28.0	28.0	7.8 7.8	7.8	21.3 21.3	21.3	69.8 69.8	69.8	4.9 4.9	4.9	4.9	13.9 14.4	14.2		11.5 11.3	11.4	
18-Aug-14	Sunny	Moderate	13:55		Surface	1.0	29.1 29.0	29.0	8.1 8.0	8.1	18.4 18.4	18.4	92.4 90.4	91.4	6.4 6.3	6.3	6.3	2.5 2.5	2.5		1.5 1.3	1.4	
				4.1	Middle	-	-	-		-		-		-	-	-	0.0	-	-	2.6	-	-	1.6
					Bottom	3.1	29.0 28.6	28.8	8.1 8.0	8.0	18.6 19.0	18.8	91.8 88.4	90.1	6.4 6.2	6.3	6.3	2.6 2.7	2.7		1.5 2.1	1.8	
20-Aug-14	Rainy	Moderate	17:18		Surface	1.0	28.4 28.4	28.4	8.1 8.1	8.1	14.2 14.2	14.2	95.5 95.3	95.4	6.9 6.8	6.9	6.9	2.9 2.9	2.9		3.2 2.7	3.0	
				3.9	Middle	-	-	-		-		-		-	-	-	0.0	-	-	2.9	-	-	3.6
					Bottom	2.9	28.5 28.5	28.5	8.1 8.1	8.1	16.6 16.3	16.5	94.6 94.9	94.8	6.7 6.7	6.7	6.7	2.8 3.0	2.9		4.1 4.0	4.1	

Remarks:

* DA: Depth-Averaged

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

Water Quality Monitoring Results at SR7 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Sampl	ling	Tempera	ature (°C)	F	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	i (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*
22-Aug-14	Sunny	Moderate	18:21		Surface	1.0	29.4 29.3	29.4	8.0 8.0	8.0	12.6 13.1	12.8	80.6 81.2	80.9	5.7 5.8	5.8	5.8	4.1 4.3	4.2		4.2 4.2	4.2	
				4.1	Middle	-	-	-		-		-		-	-	-	5.0	-	-	3.7	-	-	4.7
					Bottom	3.1	29.1 28.9	29.0	7.9 8.0	8.0	14.8 14.9	14.9	80.1 81.9	81.0	5.7 5.8	5.7	5.7	3.3 3.1	3.2		4.5 5.6	5.1	
25-Aug-14	Sunny	Moderate	19:46		Surface	1.0	29.0 29.2	29.1	8.1 8.1	8.1	16.6 16.6	16.6	75.2 77.0	76.1	5.3 5.4	5.3	5.3	2.6 2.6	2.6		3.3 4.1	3.7	
				4.2	Middle	-	-	-		-		-	-	-	-	-	0.0	-	-	2.6	-	-	4.4
					Bottom	3.2	28.4 29.1	28.7	8.1 8.1	8.1	18.2 17.6	17.9	74.8 76.9	75.9	5.3 5.4	5.3	5.3	2.5 2.5	2.5		4.9 5.0	5.0	
27-Aug-14	Sunny	Moderate	06:59		Surface	1.0	27.4 27.4	27.4	8.1 8.1	8.1	23.4 23.4	23.4	71.9 77.7	74.8	5.1 5.4	5.3	5.3	5.2 5.7	5.5		5.7 5.1	5.4	
				4.0	Middle	-	-	-	-	-	-	-	-	-	-	-	5.5	-	-	5.5	-	-	5.6
					Bottom	3.0	27.3 27.3	27.3	8.1 8.1	8.1	23.6 23.7	23.7	73.6 70.9	72.3	5.1 5.1	5.1	5.1	5.3 5.5	5.4		5.6 5.7	5.7	
29-Aug-14	Sunny	Moderate	08:25		Surface	1.0	27.2 27.2	27.2	8.1 8.1	8.1	24.0 24.1	24.0	83.3 87.8	85.6	5.8 6.1	5.9	5.9	15.2 15.2	15.2		4.7 5.6	5.2	
				4.3	Middle	-	-	-		-	-	-	-	-	-	-	5.9	-	-	15.1	-	-	5.3
					Bottom	3.3	27.2 27.2	27.2	8.1 8.1	8.1	24.2 24.2	24.2	79.6 81.1	80.4	5.5 5.6	5.6	5.6	14.8 15.2	15.0		5.3 5.5	5.4	

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

Remarks:

* DA: Depth-Averaged

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

Water Quality Monitoring Results at SR10A - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	/ed Oxygen	(mg/L)	Т	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*
1-Aug-14	Sunny	Moderate	16:14		Surface	1.0	29.9 30.3	30.1	8.0 8.0	8.0	21.4 21.0	21.2	96.6 101.5	99.1	6.5 6.8	6.7		1.7 1.9	1.8		2.8 2.6	2.7	
				6.3	Middle	3.2	30.0 29.6	29.8	7.9 7.9	7.9	21.3 21.9	21.6	99.0 93.8	96.4	6.7 6.3	6.5	6.6	2.4 2.3	2.4	2.2	2.5 2.6	2.6	2.7
					Bottom	5.3	29.1 29.8	29.5	7.9 7.9	7.9	23.2	22.5	93.1 98.2	95.7	6.3 6.6	6.5	6.5	2.2 2.4	2.3		2.7	2.9	
4-Aug-14	Sunny	Moderate	19:12		Surface	1.0	30.1 29.7	29.9	8.5 8.4	8.5	20.1	20.3	126.3 116.1	121.2	8.5 7.9	8.2		1.7	1.7		3.6 3.7	3.7	
				6.4	Middle	3.2	29.1 29.0	29.1	8.4 8.3	8.4	22.8	22.8	114.8	112.9	7.8	7.7	8.0	1.6 1.6	1.6	1.7	3.7 3.7 3.7	3.7	3.7
					Bottom	5.4	29.4 28.8	29.1	8.4 8.3	8.4	22.8	23.1	119.4 110.4	114.9	8.0 7.5	7.8	7.8	1.7	1.7		3.8 3.8	3.8	
6-Aug-14	Sunny	Moderate	08:06		Surface	1.0	28.7 28.7	28.7	8.6 8.3	8.4	21.4 21.5	21.4	109.6 110.8	110.2	7.5	7.6		1.3 1.2	1.3		4.0 3.5	3.8	
				6.6	Middle	3.3	28.3 28.4	28.4	8.5 8.5	8.5	23.2	22.9	103.6 109.5	106.6	7.1 7.5	7.3	7.5	1.5	1.5	1.4	4.1 4.0	4.1	4.1
					Bottom	5.6	28.4	28.3	8.5 8.5	8.5	23.6 24.1	23.9	107.7	105.4	7.4	7.2	7.2	1.5	1.5		4.1	4.4	
8-Aug-14	Sunny	Moderate	09:54		Surface	1.0	28.8 28.9	28.9	8.1 8.0	8.0	19.7 19.5	19.6	96.6 97.3	97.0	6.7 6.7	6.7		1.8 2.0	1.9		1.7 1.5	1.6	
				6.7	Middle	3.4	28.7 28.8	28.8	8.0 8.0	8.0	20.0	19.9	95.3 96.7	96.0	6.6 6.7	6.6	6.7	1.8	1.9	1.9	3.1 3.9	3.5	2.8
					Bottom	5.7	28.6 28.6	28.6	7.9 8.0	7.9	20.2 20.5	20.4	96.4 95.5	96.0	6.7 6.6	6.6	6.6	1.8 1.8	1.8		3.6 3.2	3.4	
11-Aug-14	Sunny	Moderate	13:50		Surface	1.0	28.8 28.7	28.8	8.2 8.3	8.3	23.5 23.6	23.6	87.5 83.5	85.5	5.9 5.7	5.8	5.9	4.1 4.1	4.1		4.2 4.3	4.3	
				7.0	Middle	3.5	28.4 28.5	28.5	8.3 8.2	8.2	24.2 24.0	24.1	83.2 90.2	86.7	5.7 6.1	5.9	5.9	4.3 4.2	4.3	4.2	4.3 4.4	4.4	4.5
					Bottom	6.0	28.5 28.4	28.4	8.3 8.2	8.2	24.2 24.2	24.2	84.4 85.0	84.7	5.7 5.7	5.7	5.7	4.2 4.3	4.3		4.6 4.9	4.8	
13-Aug-14***	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
				-	Middle	-	-	-	-	-	-	-	-	-		-	-	-	-	=	-	-	<u>-</u>
					Bottom	-	-	-		-	-	-	-	-	-	-	-	-	-		-	-	
15-Aug-14	Sunny	Moderate	16:51		Surface	1.0	29.1 29.1	29.1	7.9 7.8	7.9	21.9 21.8	21.9	78.6 79.4	79.0	5.5 5.6	5.5	5.5	4.0 3.9	4.0		4.2 4.4	4.3	
				6.5	Middle	3.3	28.8 28.9	28.8	7.8 7.9	7.9	22.6 22.4	22.5	78.8 78.2	78.5	5.5 5.5	5.5	0.0	4.0 4.0	4.0	4.0	4.3 4.2	4.3	4.4
					Bottom	5.5	29.0 28.5	28.7	7.8 7.8	7.8	22.3 23.2	22.8	79.1 82.5	80.8	5.5 5.8	5.7	5.7	3.9 4.1	4.0		4.6 4.8	4.7	
18-Aug-14	Sunny	Moderate	06:16		Surface	1.0	29.2 29.2	29.2	7.7 7.7	7.7	17.1 17.2	17.1	86.0 85.8	85.9	6.0 6.0	6.0	6.0	2.6 2.4	2.5		2.4 2.3	2.4	
				6.8	Middle	3.4	29.2 29.2	29.2	7.7 7.7	7.7	17.7 17.5	17.6	84.7 85.1	84.9	5.9 5.9	5.9	0.0	2.3 2.4	2.4	2.4	2.5 2.9	2.7	2.6
					Bottom	5.8	29.1 29.1	29.1	7.7 7.7	7.7	18.8 18.1	18.5	84.8 84.8	84.8	5.9 5.9	5.9	5.9	2.3 2.3	2.3		2.6 2.6	2.6	
20-Aug-14	Rainy	Moderate	08:49		Surface	1.0	28.8 28.8	28.8	8.0 8.0	8.0	14.8 15.1	14.9	96.3 97.1	96.7	6.9 6.9	6.9	6.8	2.5 2.5	2.5		3.3 3.0	3.2	
				6.6	Middle	3.3	28.7 28.7	28.7	8.0 7.9	8.0	17.0 16.9	16.9	96.0 95.3	95.7	6.8 6.7	6.7		2.5 2.6	2.6	2.5	4.8 5.7	5.3	4.6
					Bottom	5.6	28.7 28.6	28.7	8.0 7.9	7.9	17.0 17.3	17.1	97.2 96.0	96.6	6.8 6.8	6.8	6.8	2.5 2.5	2.5		4.4 6.4	5.4	

Remarks:

* DA: Depth-Averaged

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

Water Quality Monitoring Results at SR10A - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samplin	ng	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 (r	m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
22-Aug-14	Sunny	Moderate	10:21		Surface	1.0	28.5 28.5	28.5	7.7 7.7	7.7	15.6 15.4	15.5	73.7 74.3	74.0	5.2 5.3	5.3	5.3	3.6 3.6	3.6		3.3 3.4	3.4	
				6.3	Middle	3.2	28.1 28.1	28.1	7.7 7.8	7.8	18.4 18.3	18.3	72.5 73.5	73.0	5.1 5.2	5.2	5.5	3.5 3.5	3.5	3.6	3.0 3.8	3.4	3.8
					Bottom	5.3	28.1 28.0	28.1	7.8 7.7	7.7	18.8 19.0	18.9	73.1 68.6	70.9	5.1 4.8	5.0	5.0	3.7 3.9	3.8		3.6 5.3	4.5	<u> </u>
25-Aug-14	Sunny	Moderate	11:56		Surface	1.0	28.5 28.5	28.5	7.9 7.9	7.9	21.2 20.5	20.8	88.2 87.3	87.8	6.1 6.0	6.1	6.0	2.3 2.1	2.2		2.1 2.2	2.2	
				6.8	Middle	3.4	28.1 27.9	28.0	7.9 7.9	7.9	22.2 21.8	22.0	86.8 84.7	85.8	6.0 5.9	5.9	0.0	2.2 2.3	2.3	2.4	2.2 2.0	2.1	2.3
					Bottom	5.8	27.7 28.0	27.8	7.9 7.9	7.9	23.0 22.4	22.7	83.9 86.8	85.4	5.8 6.0	5.9	5.9	2.6 2.5	2.6		2.7 2.2	2.5	
27-Aug-14	Sunny	Moderate	14:39		Surface	1.0	27.2 27.3	27.3	8.1 8.1	8.1	25.7 24.9	25.3	77.4 75.1	76.3	5.3 5.2	5.2	5.2	3.6 3.6	3.6		3.9 3.7	3.8	
				6.5	Middle	3.3	26.3 26.9	26.6	8.0 8.1	8.0	28.5 26.3	27.4	74.3 74.1	74.2	5.1 5.1	5.1	5.2	3.6 3.6	3.6	3.7	3.6 4.0	3.8	4.8
					Bottom	5.5	26.8 26.2	26.5	8.1 7.9	8.0	26.7 29.1	27.9	75.2 73.9	74.6	5.2 5.1	5.1	5.1	3.8 3.7	3.8		7.1 6.4	6.8	
29-Aug-14	Sunny	Moderate	15:42		Surface	1.0	28.3 27.5	27.9	8.0 7.9	7.9	25.7 27.3	26.5	73.6 73.5	73.6	5.0 5.0	5.0	5.0	3.9 3.8	3.9		3.1 2.2	2.7	
				6.5	Middle	3.3	26.6 27.4	27.0	7.9 7.9	7.9	29.3 27.5	28.4	73.1 73.1	73.1	5.0 5.0	5.0	5.0	3.9 3.8	3.9	4.1	2.3 3.2	2.8	2.6
					Bottom	5.5	27.4 27.1	27.2	7.9 7.9	7.9	27.7 29.2	28.4	73.6 71.5	72.6	5.0 4.8	4.9	4.9	4.3 4.4	4.4		2.4 2.1	2.3	

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

Remarks:

* DA: Depth-Averaged

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

Water Quality Monitoring Results at 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	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*
1-Aug-14	Sunny	Moderate	08:21		Surface	1.0	29.4 29.6	29.5	7.9 7.9	7.9	18.6 18.2	18.4	83.2 84.8	84.0	5.7 5.9	5.8		1.5 1.5	1.5		2.1 2.2	2.2	
				6.6	Middle	3.3	29.4 29.3	29.4	7.9 7.9	7.9	20.1 19.2	19.6	82.2 82.4	82.3	5.6 5.7	5.6	5.7	1.5 1.4	1.5	1.5	3.1 3.0	3.1	2.8
					Bottom	5.6	29.0 29.0	29.0	7.9	7.9	21.0 21.3	21.2	82.8 80.5	81.7	5.7 5.5	5.6	5.6	1.5 1.5	1.5		2.7	3.1	
4-Aug-14	Sunny	Moderate	11:50		Surface	1.0	30.0 30.0	30.0	7.8 7.8	7.8	18.2 18.1	18.1	89.3 88.4	88.9	6.1 6.1	6.1		1.4 1.4	1.4		2.6 2.9	2.8	
				6.5	Middle	3.3	28.9 28.8	28.8	7.7	7.7	21.9	22.3	79.4 77.9	78.7	5.4 5.3	5.4	5.8	1.5	1.5	1.4	3.2 3.3	3.3	3.1
					Bottom	5.5	27.6 27.6	27.6	7.7	7.7	25.6 25.6	25.6	77.4	78.5	5.3 5.4	5.4	5.4	1.4	1.4		3.3	3.3	
6-Aug-14	Sunny	Moderate	17:10		Surface	1.0	28.0 28.2	28.1	8.2 8.3	8.2	25.2 24.9	25.1	102.8 108.4	105.6	7.0 7.4	7.2		2.1	2.1		3.3 3.4	3.4	
				6.7	Middle	3.4	27.5 27.6	27.6	8.1 8.2	8.2	26.8 26.6	26.7	98.1 103.4	100.8	6.7 7.0	6.9	7.1	2.2	2.2	2.1	4.0	4.1	4.3
					Bottom	5.7	27.5	27.6	8.1 8.2	8.1	26.9 26.6	26.8	100.2	103.1	6.8 7.2	7.0	7.0	2.1	2.1		5.2 5.3	5.3	
8-Aug-14	Sunny	Moderate	18:45		Surface	1.0	27.4	27.3	8.1 8.1	8.1	26.4 26.8	26.6	77.4 78.0	77.7	5.3 5.3	5.3		4.2	4.5		2.6 2.6	2.6	
				6.9	Middle	3.5	26.8 27.0	26.9	8.1 8.1	8.1	27.8 27.5	27.7	76.1 75.5	75.8	5.2 5.1	5.1	5.2	5.2 5.4	5.3	5.0	2.6	2.6	2.8
					Bottom	5.9	26.9 26.5	26.7	8.0 8.1	8.1	27.8 29.2	28.5	72.1 71.0	71.6	4.9 4.8	4.9	4.9	5.2 5.4	5.3		2.9 3.3	3.1	
11-Aug-14	Sunny	Moderate	05:26		Surface	1.0	27.2 27.1	27.1	8.2 8.2	8.2	26.2 26.3	26.3	75.5 74.9	75.2	5.2 5.1	5.2	5.4	5.9 6.4	6.2		2.5 2.6	2.6	
				6.8	Middle	3.4	26.9 26.8	26.8	8.2 8.2	8.2	27.0 27.0	27.0	72.7 73.2	73.0	5.0 5.0	5.0	5.1	7.3 6.6	7.0	6.8	3.3 3.5	3.4	3.2
					Bottom	5.8	26.6 26.6	26.6	8.2 8.2	8.2	27.9 28.0	28.0	73.8 72.4	73.1	5.1 5.0	5.0	5.0	7.1 7.3	7.2		3.5 3.6	3.6	
13-Aug-14	Rainy	Moderate	07:21		Surface	1.0	27.3 27.2	27.2	7.8 7.8	7.8	25.8 25.9	25.8	80.3 79.9	80.1	5.5 5.5	5.5	5.5	8.6 8.7	8.7		5.1 5.3	5.2	
				6.9	Middle	3.5	26.8 26.8	26.8	7.8 7.8	7.8	27.4 27.2	27.3	79.0 77.7	78.4	5.4 5.3	5.4	5.5	10.2 10.8	10.5	9.9	5.1 5.9	5.5	6.0
					Bottom	5.9	27.0 26.7	26.9	7.8 7.8	7.8	27.4 27.6	27.5	80.2 77.1	78.7	5.5 5.3	5.4	5.4	10.1 10.8	10.5		7.0 7.4	7.2	
15-Aug-14	Sunny	Moderate	08:59		Surface	1.0	28.2 28.3	28.2	7.7 7.7	7.7	21.6 21.4	21.5	72.7 74.1	73.4	5.2 5.3	5.2	5.2	5.8 5.6	5.7		6.2 6.0	6.1	
				6.5	Middle	3.3	28.1 28.0	28.0	7.7 7.7	7.7	21.9 21.9	21.9	73.9 71.6	72.8	5.3 5.1	5.2	J.2	5.8 5.8	5.8	5.8	5.7 5.9	5.8	6.1
					Bottom	5.5	27.9 27.9	27.9	7.7 7.7	7.7	22.6 23.3	22.9	77.4 72.7	75.1	5.5 5.2	5.3	5.3	5.8 5.8	5.8		6.2 6.5	6.4	
18-Aug-14	Sunny	Moderate	14:17		Surface	1.0	28.9 29.1	29.0	8.0 7.9	7.9	20.2 19.8	20.0	87.7 89.3	88.5	6.0 6.1	6.1	6.1	2.4 2.3	2.4		1.5 1.5	1.5	
				6.8	Middle	3.4	28.3 28.3	28.3	7.8 7.9	7.9	22.4 22.4	22.4	89.6 88.3	89.0	6.2 6.1	6.1	0.1	2.5 2.3	2.4	2.4	1.7 1.9	1.8	1.9
					Bottom	5.8	28.3 28.3	28.3	8.0 7.9	7.9	23.5 23.2	23.4	89.3 92.0	90.7	6.1 6.3	6.2	6.2	2.4 2.3	2.4		2.5 2.2	2.4	
20-Aug-14	Rainy	Moderate	17:50		Surface	1.0	28.1 27.9	28.0	7.9 8.0	7.9	19.0 20.4	19.7	80.4 78.6	79.5	5.7 5.5	5.6	5.5	2.8 2.7	2.8		3.2 3.8	3.5	
				6.5	Middle	3.3	27.1 27.0	27.1	7.9 7.8	7.8	24.4 24.4	24.4	76.0 80.7	78.4	5.2 5.6	5.4	0.0	2.9 2.8	2.9	2.8	3.9 2.5	3.2	3.4
					Bottom	5.5	27.1 26.9	27.0	7.8 7.7	7.8	25.3 25.5	25.4	70.6 80.1	75.4	4.9 5.5	5.2	5.2	2.8 2.8	2.8		2.7 4.1	3.4	

* DA: Depth-Averaged

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

Water Quality Monitoring Results at SR10A - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Sampli	ing	Tempera	ature (°C)	F	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	i (mg/L)	Т	urbidity(NTL	J)	Suspe	nded Solids	; (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth ((m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
22-Aug-14	Sunny	Moderate	19:06		Surface	1.0	27.7 28.5	28.1	7.9 7.9	7.9	23.0 20.5	21.8	74.8 74.2	74.5	5.2 5.2	5.2	5.2	2.9 2.9	2.9		2.3 2.3	2.3	
				6.4	Middle	3.2	26.5 27.1	26.8	8.0 7.9	7.9	26.5 25.3	25.9	73.1 73.7	73.4	5.1 5.1	5.1	5.2	3.4 3.4	3.4	3.3	2.2 2.4	2.3	2.3
					Bottom	5.4	26.4 26.5	26.5	7.9 8.0	7.9	26.7 26.6	26.7	68.1 68.6	68.4	4.7 4.8	4.7	4.7	3.4 3.5	3.5		2.4 2.3	2.4	
25-Aug-14	Sunny	Moderate	20:29		Surface	1.0	26.5 26.7	26.6	7.9 8.0	8.0	28.1 27.5	27.8	80.3 74.1	77.2	5.5 5.1	5.3	5.2	9.8 10.6	10.2		8.9 8.3	8.6	
				6.9	Middle	3.5	26.2 26.2	26.2	7.9 8.0	7.9	28.7 29.4	29.0	75.2 73.5	74.4	5.2 5.0	5.1	5.2	11.5 11.2	11.4	11.4	9.8 10.3	10.1	10.1
					Bottom	5.9	26.3 26.1	26.2	7.9 7.9	7.9	29.6 29.7	29.7	72.0 76.5	74.3	4.9 5.3	5.1	5.1	12.3 12.6	12.5		11.2 11.9	11.6	
27-Aug-14	Sunny	Moderate	06:06		Surface	1.0	27.1 27.1	27.1	7.9 7.9	7.9	25.2 25.4	25.3	74.8 75.4	75.1	5.2 5.2	5.2	5.2	5.7 5.5	5.6		2.9 3.9	3.4	
				6.4	Middle	3.2	26.7 26.7	26.7	7.9 7.9	7.9	26.4 26.3	26.4	74.5 74.6	74.6	5.1 5.1	5.1	5.2	6.6 6.2	6.4	6.2	4.3 4.8	4.6	4.2
					Bottom	5.4	26.6 26.6	26.6	7.9 7.9	7.9	26.9 26.8	26.8	73.4 74.1	73.8	5.1 5.1	5.1	5.1	6.5 6.5	6.5		4.7 4.4	4.6	
29-Aug-14	Sunny	Moderate	07:50		Surface	1.0	27.4 27.1	27.2	7.8 7.8	7.8	24.6 25.4	25.0	81.3 80.3	80.8	5.7 5.6	5.7	5.7	5.4 5.2	5.3		5.5 5.2	5.4	
				6.6	Middle	3.3	26.8 26.8	26.8	7.8 7.8	7.8	26.7 26.7	26.7	79.0 79.8	79.4	5.6 5.6	5.6	5.7	5.4 5.1	5.3	5.3	5.1 5.5	5.3	5.2
					Bottom	5.6	26.9 26.7	26.8	7.8 7.8	7.8	26.6 26.7	26.7	78.2 78.1	78.2	5.5 5.5	5.5	5.5	5.2 5.3	5.3		4.7 5.2	5.0	

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

Remarks:

* DA: Depth-Averaged

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

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

	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	H	Salini	ity (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Т	urbidity(NT	U)	Suspe	nded Solids	s (mg/L) د
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
1-Aug-14	Sunny	Moderate	16:31		Surface	1.0	30.2 30.2	30.2	8.0 8.0	8.0	21.0 21.1	21.0	101.9 102.6	102.3	6.9 6.9	6.9		1.7 1.6	1.7		2.3 2.4	2.4	
				5.0	Middle	-	-	-	-	-	-	-	-	-		-	6.9	-	-	1.6	-	-	2.5
			Bottom	4.0	29.7 29.9	29.8	8.0 8.0	8.0	21.7 21.5	21.6	99.6 102.0	100.8	6.7 6.9	6.8	6.8	1.5 1.5	1.5		2.4 2.8	2.6			
4-Aug-14	Sunny	Moderate	19:21		Surface	1.0	29.9 29.7	29.8	8.5 8.4	8.4	20.9 21.1	21.0	126.1 125.3	125.7	8.5 8.5	8.5		1.5 1.5	1.5		3.4 3.0	3.2	
			5.1	Middle	-	-	-	-	-	-	-		-	-	-	8.5		-	1.5		-	4.8	
					Bottom	4.1	29.7 29.7	29.7	8.3 8.4	8.4	21.5 21.3	21.4	126.1 125.4	125.8	8.5 8.5	8.5	8.5	1.5 1.4	1.5		6.2 6.5	6.4	
6-Aug-14	Sunny	Moderate	08:00		Surface	1.0	27.8 27.6	27.7	8.1 8.0	8.0	23.2 24.2	23.7	93.2 89.5	91.4	6.4 6.2	6.3		2.1 2.1	2.1		3.4 3.8	3.6	
				5.3	Middle	-	-	-	-	-	-	-	-	-	-	-	6.3	-	-	2.1	-	-	4.1
					Bottom	4.3	27.4 27.6	27.5	7.9 8.0	8.0	25.7 23.8	24.8	90.6 91.5	91.1	6.2 6.3	6.3	6.3	2.0 2.0	2.0		4.6 4.6	4.6	
8-Aug-14	Sunny	Moderate	09:41		Surface	1.0	28.3 28.2	28.2	7.8 7.8	7.8	20.9 21.2	21.0	85.9 85.4	85.7	6.0 5.9	5.9		3.0 3.1	3.1		2.8 2.5	2.7	
			4.7	Middle	-	-	-	-	-	-	-	-	-	-	-	5.9	-	-	3.2	-	-	3.2	
				Bottom	3.7	27.9 28.1	28.0	7.7 7.8	7.8	22.1 22.4	22.3	85.5 85.8	85.7	5.9 5.9	5.9	5.9	3.2 3.3	3.3		3.0 4.2	3.6		
11-Aug-14	Sunny	Moderate	14:07		Surface	1.0	28.7 28.6	28.7	8.2 8.3	8.3	23.7 23.8	23.8	82.3 81.4	81.9	5.6 5.5	5.6	5.0	4.0 3.8	3.9	4.0	4.1 4.4	4.3	
				5.4	Middle	-	-	-	-	-	-	-	-	-	-	-	5.6	-	-		-	-	4.4
					Bottom	4.4	28.3 28.7	28.5	8.3 8.2	8.2	24.3 23.9	24.1	81.0 81.7	81.4	5.5 5.5	5.5	5.5	4.1 4.0	4.1		4.6 4.3	4.5	
13-Aug-14***	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<u>-</u>
					Bottom	-	-	-		-	-	-	-	-	-	-	-	-	-		-	-	
15-Aug-14	Sunny	Moderate	17:00		Surface	1.0	29.1 29.1	29.1	7.9 7.9	7.9	21.7 21.8	21.8	77.5 78.0	77.8	5.4 5.5	5.5		4.2 4.2	4.2		3.5 3.5	3.5	
				5.1	Middle	-	-	-	-	-	-	-	-	-	-	-	5.5	-	-	4.2	-	-	3.7
					Bottom	4.1	28.9 28.7	28.8	7.9 7.9	7.9	22.4 22.8	22.6	77.7 76.4	77.1	5.5 5.4	5.4	5.4	4.2 4.1	4.2		3.7 4.1	3.9	
18-Aug-14	Sunny	Moderate	06:01		Surface	1.0	28.0 28.1	28.1	7.7	7.7	20.6 20.9	20.8	74.7 74.1	74.4	5.2 5.2	5.2	5.0	3.6 3.6	3.6		3.2 3.5	3.4	
				4.9	Middle	-	-	-	-	-	-	-	-	-	-	-	5.2	-	-	4.0	-	-	4.0
					Bottom	3.9	27.7 27.9	27.8	7.7 7.7	7.7	21.8 21.7	21.8	75.5 74.1	74.8	5.3 5.2	5.2		4.4 4.2	4.3		4.8 4.3	4.6	
20-Aug-14	Rainy	Moderate	08:42		Surface	1.0	27.8 28.2	28.0	7.9 7.8	7.8	18.6 19.2	18.9	79.8 84.3	82.1	5.7 5.9	5.8		3.4 3.3	3.4		3.9 5.0	4.5	
				5.0	Middle	-	-	-	-	-	-	-	-	-	-	- 5.8	5.8	-	-	3.4	-	-	4.2
					Bottom	4.0	27.0 26.7	26.9	7.8 7.7	7.8	22.6 22.9	22.8	- 77.0 77.2	77.1	5.4 5.4	5.4	5.4	3.4 3.3	3.4		3.6 4.2	3.9	1

Remarks:

* DA: Depth-Averaged

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

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

Date	Weather	Sea	Sampling	Water	Sampl	ing	Tempera	ature (°C)	p	Н	Salinit	y (ppt)	DO Satu	ration (%)	Dissolv	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*
22-Aug-14	Sunny	Moderate	10:13		Surface	1.0	28.5 28.4	28.4	7.6 7.7	7.7	15.5 15.5	15.5	74.3 74.1	74.2	5.3 5.3	5.3	5.3	3.8 3.8	3.8		5.6 5.8	5.7	
				4.7	Middle		-	-	-	-	-	-	-	-	-	-	5.5	-	-	3.8	-	-	5.7
					Bottom	3.7	28.0 28.2	28.1	7.7 7.7	7.7	18.6 18.5	18.5	73.4 73.6	73.5	5.2 5.2	5.2	5.2	3.7 3.7	3.7		5.8 5.5	5.7	
25-Aug-14 Sunny	Moderate	11:39		Surface	1.0	27.2 27.3	27.3	7.8 7.8	7.8	24.6 23.9	24.3	76.4 77.9	77.2	5.3 5.4	5.3	5.3	3.7 3.4	3.6		4.3 4.3	4.3		
				5.2	Middle	-	-	-	• •	-	-	-	-	-		-	5.5		-	3.8	-	-	4.5
					Bottom	4.2	27.1 27.3	27.2	7.8 7.8	7.8	24.8 23.7	24.3	76.8 79.1	78.0	5.3 5.5	5.4	5.4	3.9 4.0	4.0		4.4 5.0	4.7	
27-Aug-14	Sunny	Moderate	14:49		Surface	1.0	27.0 26.9	27.0	8.1 8.1	8.1	26.2 26.3	26.2	74.0 73.1	73.6	5.1 5.0	5.1	5.1	3.4 3.5	3.5		3.5 3.6	3.6	
				5.1	Middle	-	-	-		-	-	-	-	-		- 3.1	5.1		-	3.5	-	-	3.8
					Bottom	4.1	26.9 26.9	26.9	8.0 8.1	8.1	26.4 26.5	26.5	74.0 73.6	73.8	5.1 5.1	5.1	5.1	3.5 3.5	3.5		3.4 4.4	3.9	
29-Aug-14	Sunny	Moderate	15:50		Surface	1.0	28.3 28.1	28.2	8.0 8.0	8.0	25.4 25.6	25.5	78.5 79.3	78.9	5.3 5.4	5.3	5.3	3.1 3.2	3.2		2.4 4.2	3.3	
				5.1	Middle	-	-	-	-	-	-	-	-	-	-	-	5.5	-	-	3.2	-	-	3.4
					Bottom	4.1	27.5 28.3	27.9	8.0 8.0	8.0	27.5 26.9	27.2	76.9 79.5	78.2	5.2 5.3	5.3	5.3	3.2 3.1	3.2		3.5 3.3	3.4	

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

Remarks:

* DA: Depth-Averaged

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

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

Date	Weather	Sea	Sampling	Water	Samp			ature (°C)	p	н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	(mg/L)	Г	Furbidity(NT	U)	Suspended Solids (mg		
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
1-Aug-14	Sunny	Moderate	08:06		Surface	1.0	28.7 28.5	28.6	8.0 8.0	8.0	20.6 20.8	20.7	74.2 73.3	73.8	5.1 5.1	5.1		2.0 2.0	2.0		4.3 4.2	4.3	
				5.1	Middle	-		-	-	-	-	-	-	-	-	-	5.1	-	-	2.2	-	-	4.2
				Bottom	4.1	28.1 28.3	28.2	7.9 8.0	7.9	23.9 24.7	24.3	72.1 73.4	72.8	4.9 5.0	5.0	5.0	2.3 2.3	2.3		3.6 4.3	4.0	-	
4-Aug-14	Sunny	Moderate	11:45		Surface	1.0	28.8 28.9	28.9	7.7	7.7	20.8 20.4	20.6	87.0 89.7	88.4	6.0 6.2	6.1		1.7 1.6	1.7		3.4 3.4	3.4	
				4.9	Middle	-	-	-	-	-	-	-	-	-	-	-	6.1	-	-	1.7	-	-	3.3
					Bottom	3.9	28.4 28.9	28.6	7.7 7.7	7.7	22.7 22.8	22.8	87.4 88.8	88.1	6.0 6.0	6.0	6.0	1.6 1.7	1.7		3.5 2.8	3.2	
6-Aug-14	Sunny	Moderate	17:21		Surface	1.0	27.8 27.8	27.8	8.3 8.2	8.2	25.6 26.1	25.8	104.8 103.0	103.9	7.1 7.0	7.1		1.7 1.8	1.8		3.6 3.7	3.7	
				5.3	Middle	-	-	-	-	-	-	-	-	-	-	-	7.1	-	-	1.8	-	-	3.9
					Bottom	4.3	27.4 27.7	27.5	8.1 8.2	8.2	27.1 26.8	26.9	103.6 104.9	104.3	7.1 7.1	7.1	7.1	1.8 1.8	1.8		4.0 3.9	4.0	
8-Aug-14	Sunny	Moderate	18:55		Surface	1.0	27.2 27.3	27.3	8.1 8.1	8.1	26.9 26.4	26.6	76.8 77.5	77.2	5.2 5.3	5.3		4.2 4.0	4.1		2.8 2.7	2.8	
				4.7	Middle	-	-	-	-	-	-	-	-	-	-	-	5.3	-	-	4.8	-	-	3.0
					Bottom	3.7	27.1 27.2	27.2	8.1 8.1	8.1	27.5 27.5	27.5	77.9 76.8	77.4	5.3 5.2	5.3	5.3	5.6 5.4	5.5		3.2 3.1	3.2	
11-Aug-14	Sunny	Moderate	05:15		Surface	1.0	27.2 27.2	27.2	8.2 8.2	8.2	26.1 26.1	26.1	75.6 79.4	77.5	5.2 5.5	5.3	5.3	6.0 5.6	5.8		3.5 3.8		
				5.4	Middle	-	-	-	-	-	-	-	-	-	-	-	5.5	-	-	6.3	-	-	4.2
					Bottom	4.4	27.0 27.0	27.0	8.2 8.2	8.2	26.6 26.8	26.7	76.3 76.5	76.4	5.2 5.3	5.2	5.2 6.9	6.7 6.9	6.8		4.3 4.8	4.6	
13-Aug-14	Rainy	Moderate	07:06		Surface	1.0	27.3 27.0	27.2	7.8 7.7	7.7	25.0 25.7	25.4	82.8 82.4	82.6	5.7 5.7	5.7	5.7	7.5 7.7	7.6		8.4 8.2	8.3	
				5.4	Middle	-	-	-	-	-	-	-	-	-	-	-	5.7	-	-	8.5	-	-	8.8
					Bottom	4.4	26.8 26.9	26.9	7.8 7.7	7.8	26.9 24.9	25.9	82.7 78.1	80.4	5.7 5.4	5.6	5.6	9.5 9.0	9.3	1	9.5 9.0	9.3	
15-Aug-14	Sunny	Moderate	08:53		Surface	1.0	26.5 26.3	26.4	7.7 7.7	7.7	26.8 27.2	27.0	74.4 72.3	73.4	5.3 5.2	5.2	5.2	13.4 13.7	13.6		13.4 13.8	13.6	
				5.0	Middle	-	-	-	-	-	-	-	-	-	-	-	5.2	-	-	13.6	-	-	14.1
					Bottom	4.0	26.3 26.2	26.3	7.7 7.6	7.7	28.2 27.0	27.6	73.2 79.5	76.4	5.2 5.7	5.4	5.4	13.3 13.9	13.6		14.8 14.2	14.5	
18-Aug-14	Sunny	Moderate	14:31		Surface	1.0	29.4 29.2	29.3	8.0 8.0	8.0	18.9 18.9	18.9	90.4 89.4	89.9	6.2 6.2	6.2	6.2	2.2 2.4	2.3		1.4 1.3	1.4	
				5.2	Middle	-	-	-	-	-	-	-	-	-	-	-	0.2	-	-	2.5	-	-	1.7
					Bottom	4.2	28.7 28.3	28.5	8.0 8.0	8.0	22.2 22.6	22.4	88.8 86.4	87.6	6.1 5.9	6.0	6.0	2.7 2.6	2.7		1.5 2.2	1.9	
20-Aug-14	Rainy	Moderate	17:59		Surface	1.0	27.2 27.4	27.3	8.0 8.0	8.0	23.5 23.0	23.2	73.6 74.2	73.9	5.1 5.2	5.1	5.1 2.5 -		2.6		4.8 4.7	4.8	
				5.1	Middle	-	-	-	-	-	-	-	-	-	-	-		-	-	2.6	-	-	4.9
					Bottom	4.1	26.9 27.2	27.1	7.9 8.0	8.0	25.5 24.9	25.2	72.3 72.9	72.6	5.0 5.1	5.1	5.1	2.5 2.6	2.6	1	5.0 4.8	4.9	4.5

Remarks:

* DA: Depth-Averaged

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

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

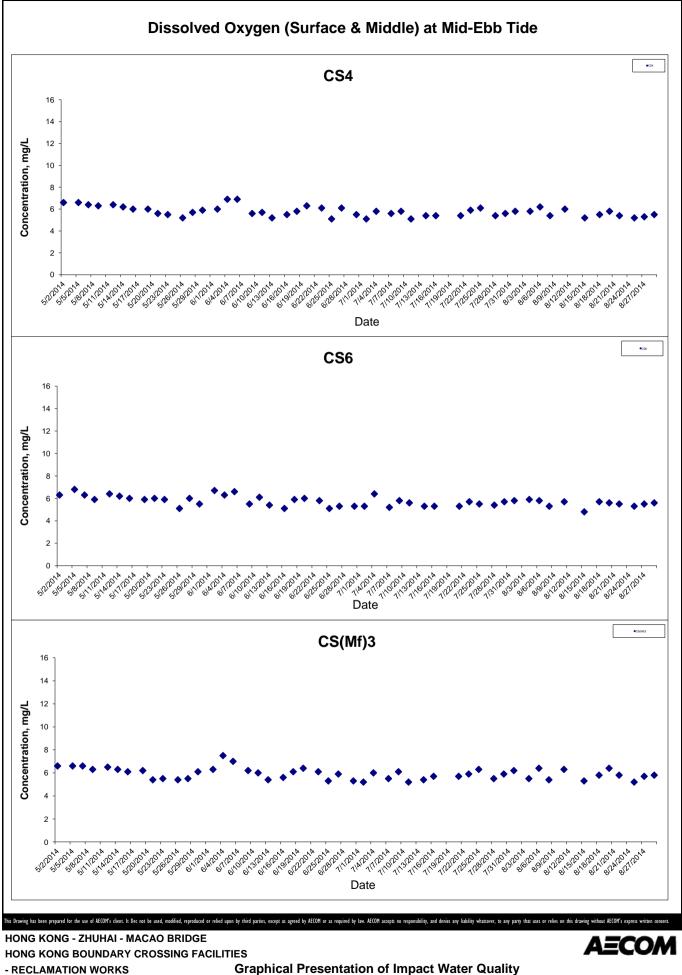
Date	Weather	Sea	Sampling	Water	Sampli			ature (°C)	F	н	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ved Oxyger	i (mg/L)	Т	urbidity(NTl	J)	Suspe	s (mg/L)	
	Condition	Condition**	Time	Depth (m)	Depth ((m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
22-Aug-14	Sunny	Moderate	19:16		Surface	1.0	27.3 27.5	27.4	8.0 8.0	8.0	22.6 22.9	22.8	74.3 74.9	74.6	5.1 5.2	5.2	5.2	4.0 4.1	4.1		2.8 2.3	2.6	
				5.0	Middle	-	-	-	-	-	-	-	-	-	-	-	5.2	-	-	4.2	-	-	2.7
					Bottom	4.0	26.5 26.6	26.5	8.0 8.0	8.0	26.7 26.7	26.7	73.9 73.5	73.7	5.1 5.1	5.1	5.1	4.3 4.2	4.3		2.8 2.8	2.8	
25-Aug-14 Sunny	Sunny	Moderate	20:43		Surface	1.0	26.6 26.5	26.6	8.1 8.1	8.1	28.0 28.2	28.1	73.7 73.3	73.5	5.1 5.0	5.0	5.0	10.1 10.7	10.4		11.2 10.6	10.9	
				5.2	Middle	-		-		-	-	-	-	-		-	5.0	-	-	10.8		-	10.9
					Bottom	4.2	26.5 26.3	26.4	8.1 8.1	8.1	28.5 28.9	28.7	73.7 72.9	73.3	5.1 5.0	5.0	5.0	11.2 11.0	11.1		10.3 11.5	10.9	
27-Aug-14	Sunny	Moderate	05:56		Surface	1.0	26.6 26.6	26.6	7.8 7.9	7.9	26.9 27.0	27.0	73.9 73.6	73.8	5.2 5.1	5.1	5.1	7.8 7.9	7.9		17.3 16.1	16.7	
				5.1	Middle	-	-	-	-	-	-	-	-	-	-		5.1	-	-	7.8	-	-	16.8
					Bottom	4.1	26.6 26.5	26.6	7.8 7.8	7.8	27.1 26.7	26.9	72.8 73.5	73.2	5.0 5.1	5.1	5.1	7.6 7.7	7.7		16.7 17.1	16.9	
29-Aug-14	Sunny	Moderate	07:44		Surface	1.0	26.1 26.1	26.1	7.8 7.8	7.8	28.5 28.3	28.4	72.2 78.3	75.3	5.1 5.5	5.3	5.3	8.8 8.5	8.7		6.6 6.2	6.4	
				5.3	Middle	-		-		-	-	-	-	-	-	-	0.0	-	-	8.7	-	-	6.1
					Bottom	4.3	26.1 26.1	26.1	7.8 7.8	7.8	28.0 28.4	28.2	72.8 73.8	73.3	5.1 5.2	5.2	5.2	8.5 8.9	8.7		5.7 5.7	5.7	

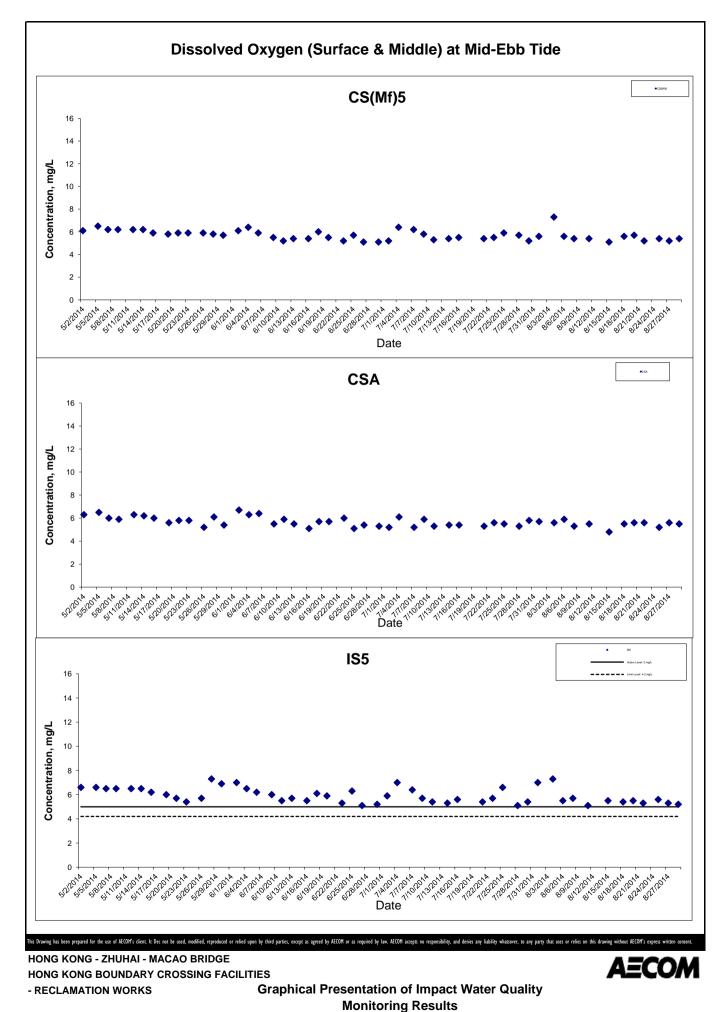
Remarks: Bolded values means the measured values exceed the Action Level; Underlined bolded values means the measured values exceed the Limit Level.

Remarks:

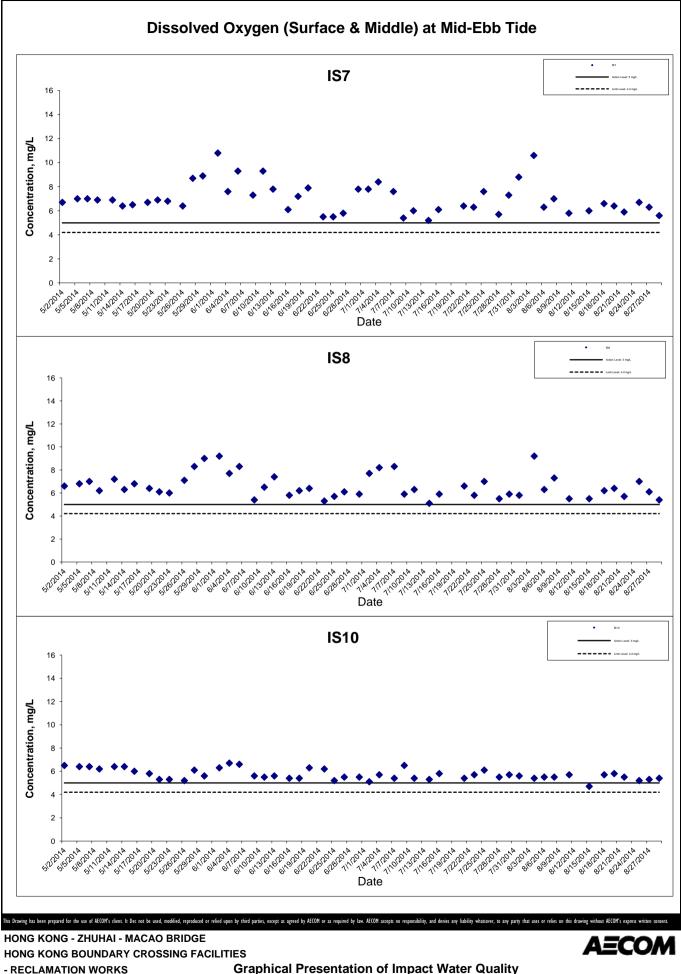
* DA: Depth-Averaged

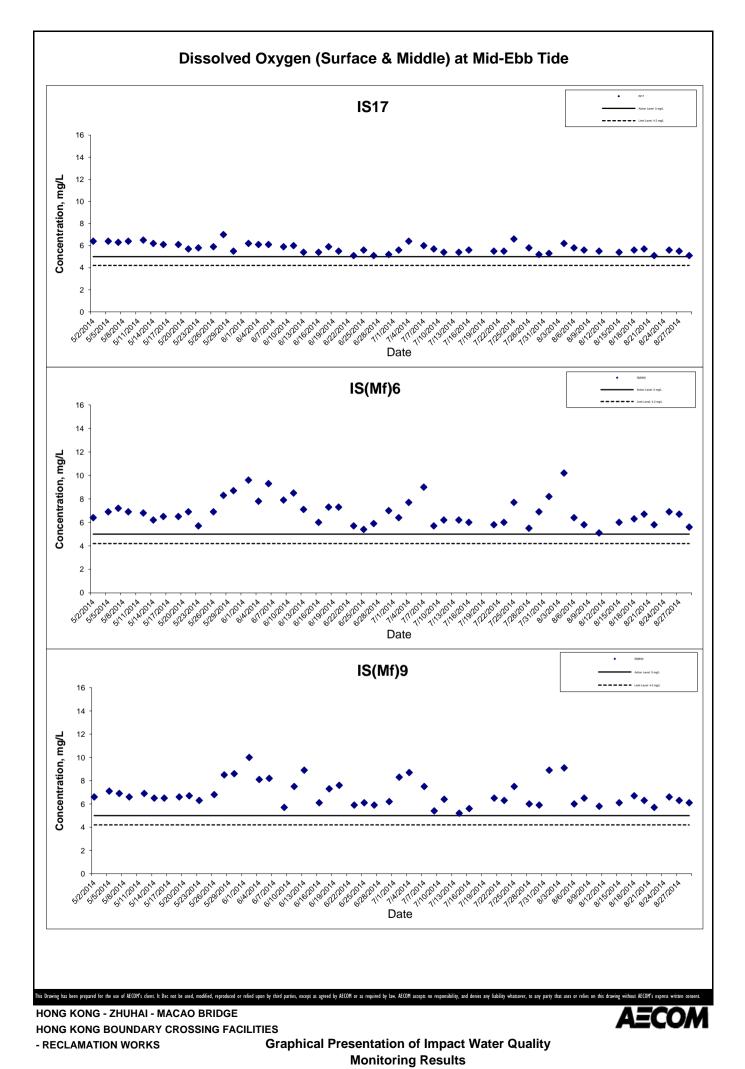
** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher

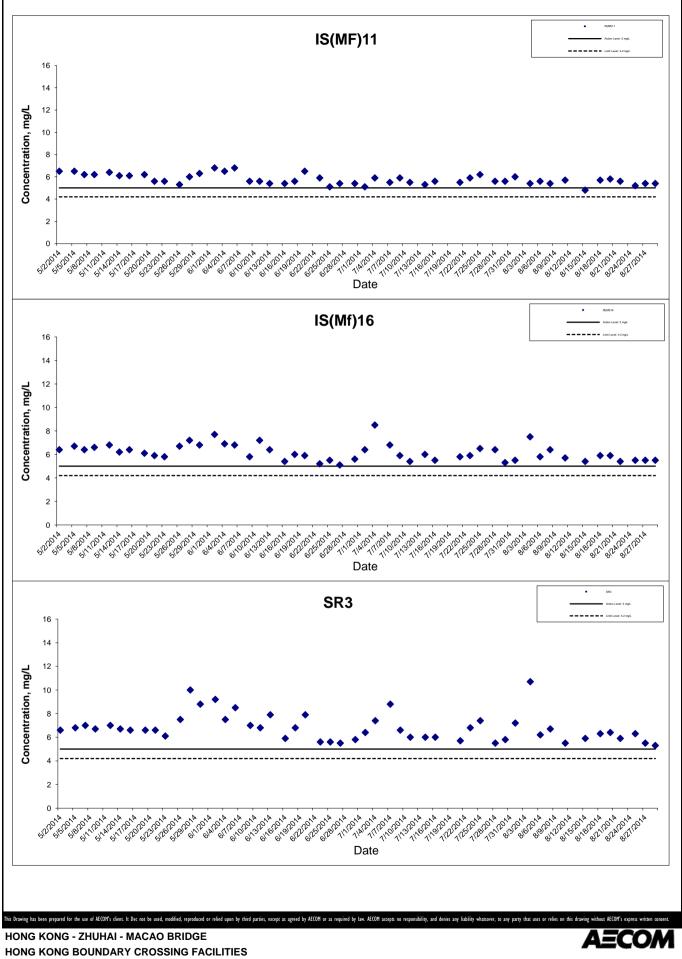




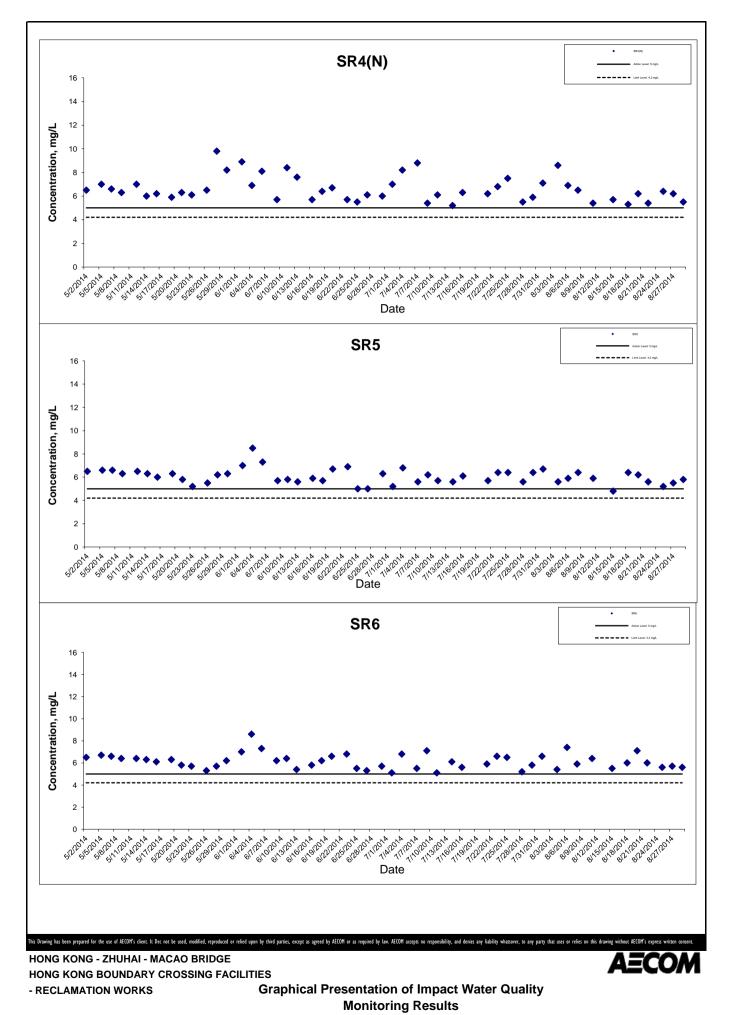
Project No.: 60249820 Date: Sep 2014

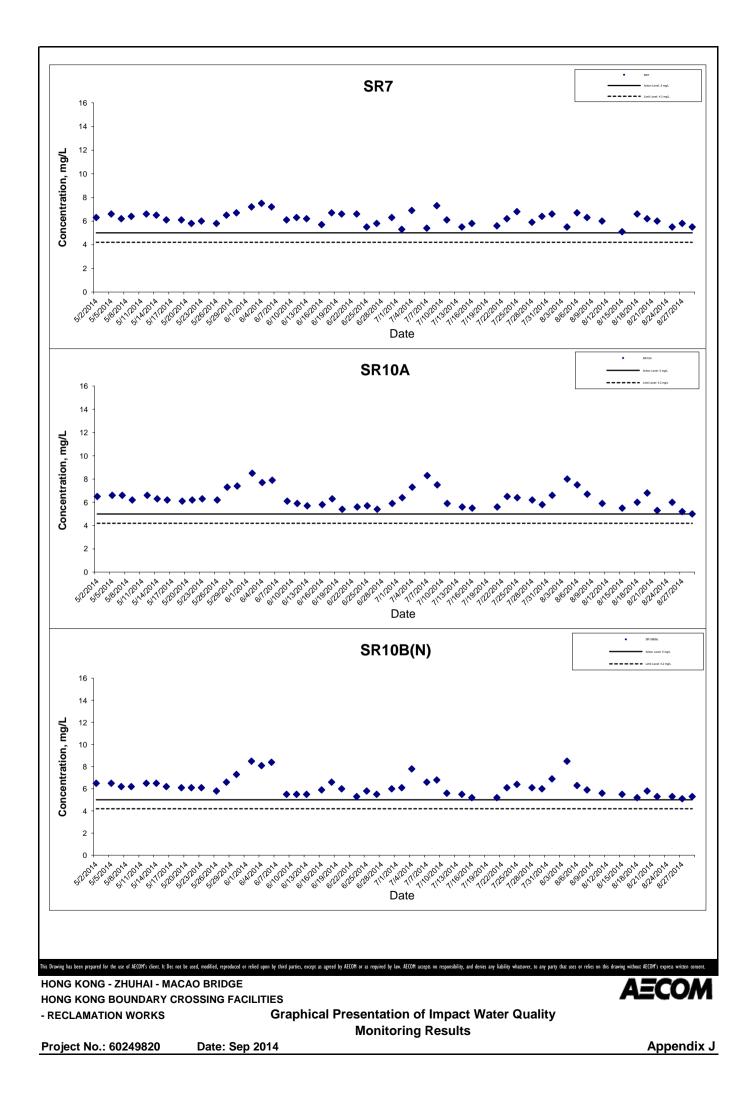


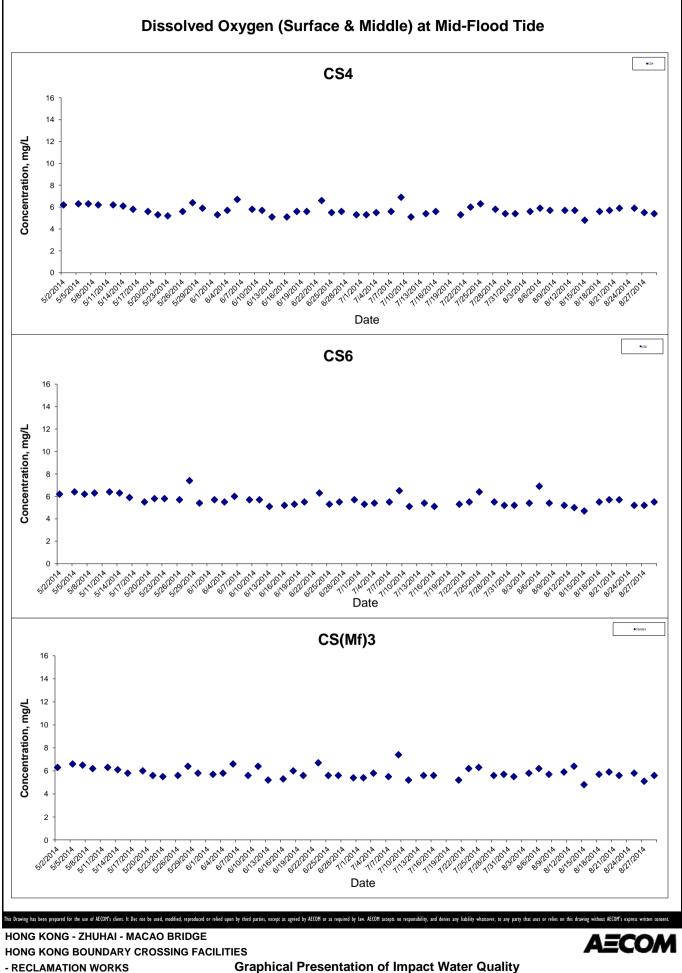


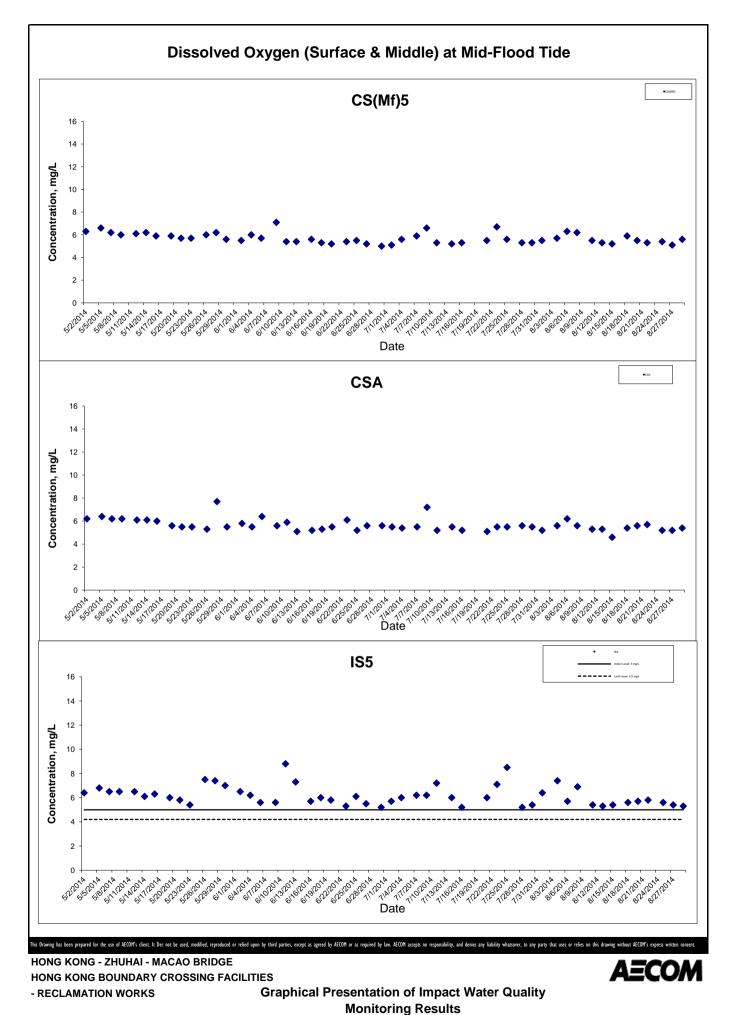


- RECLAMATION WORKS

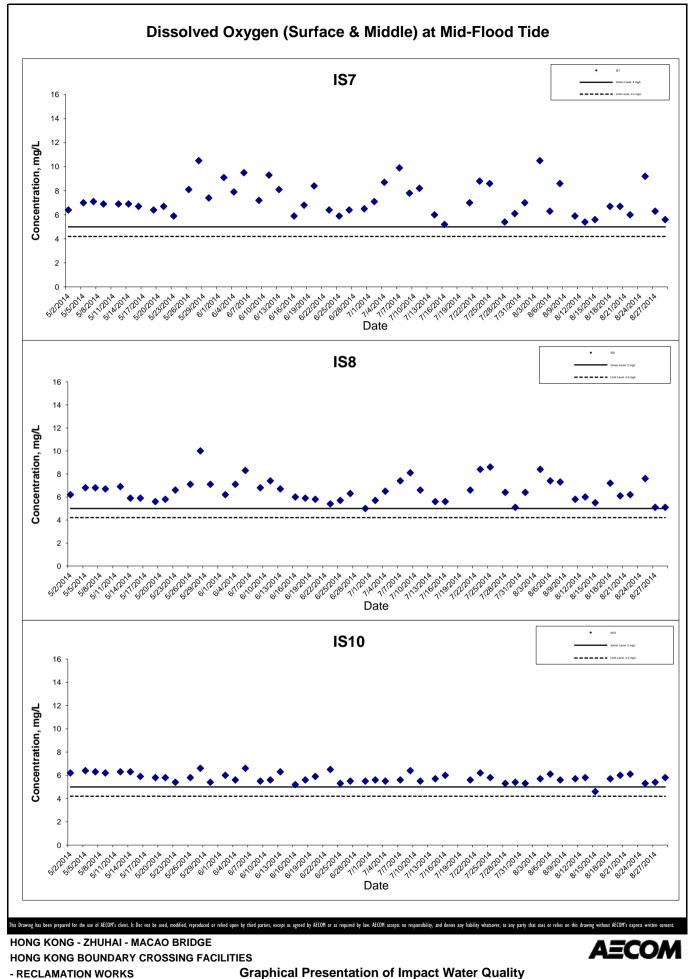




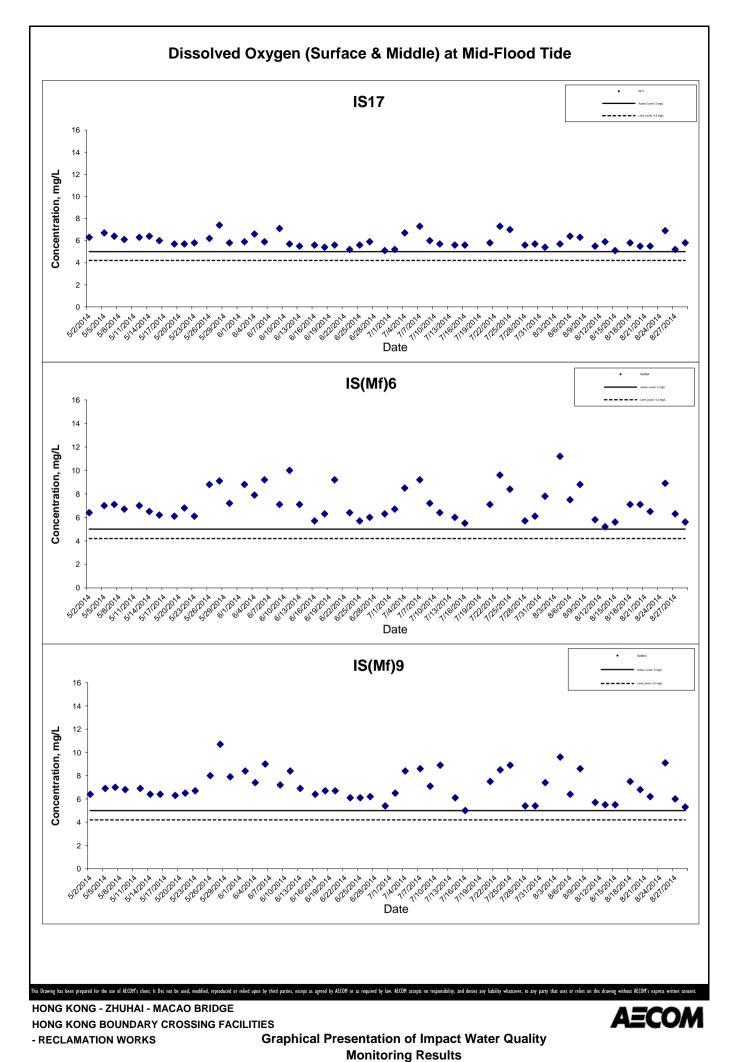




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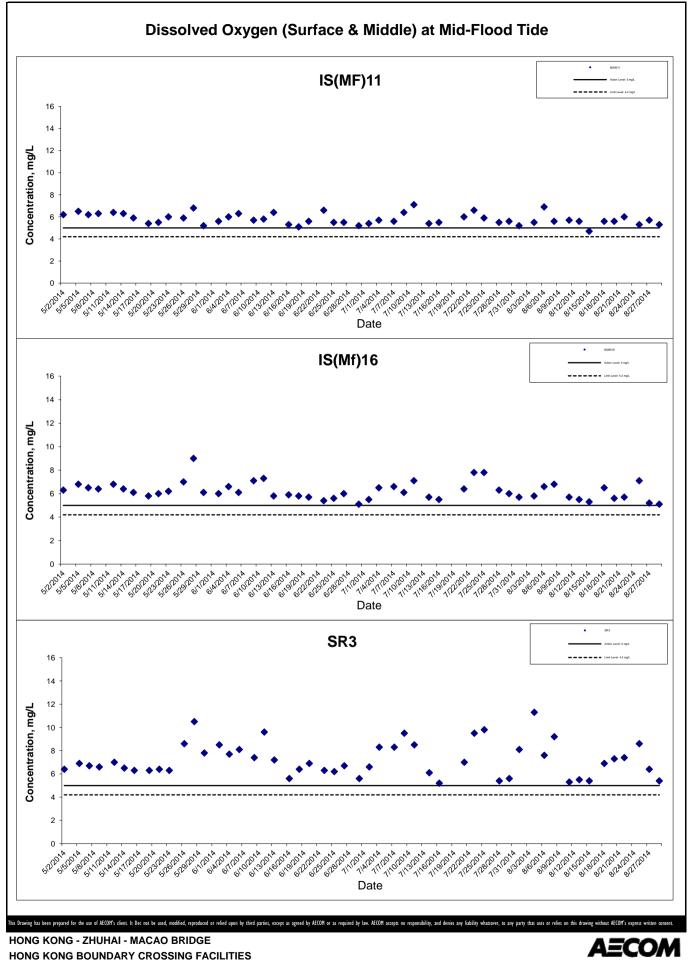


Monitoring Results

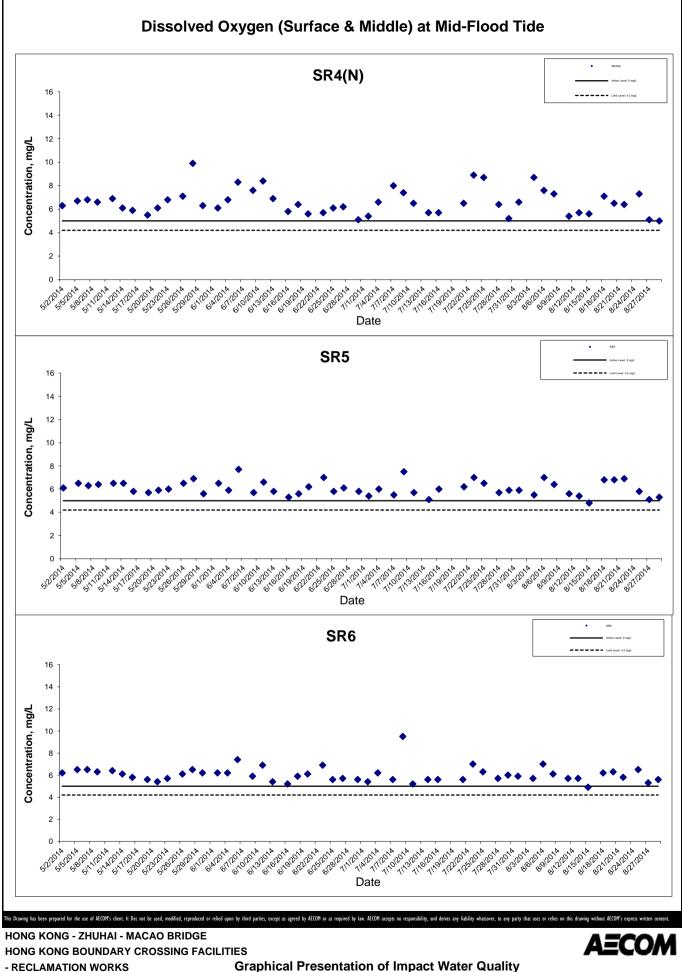


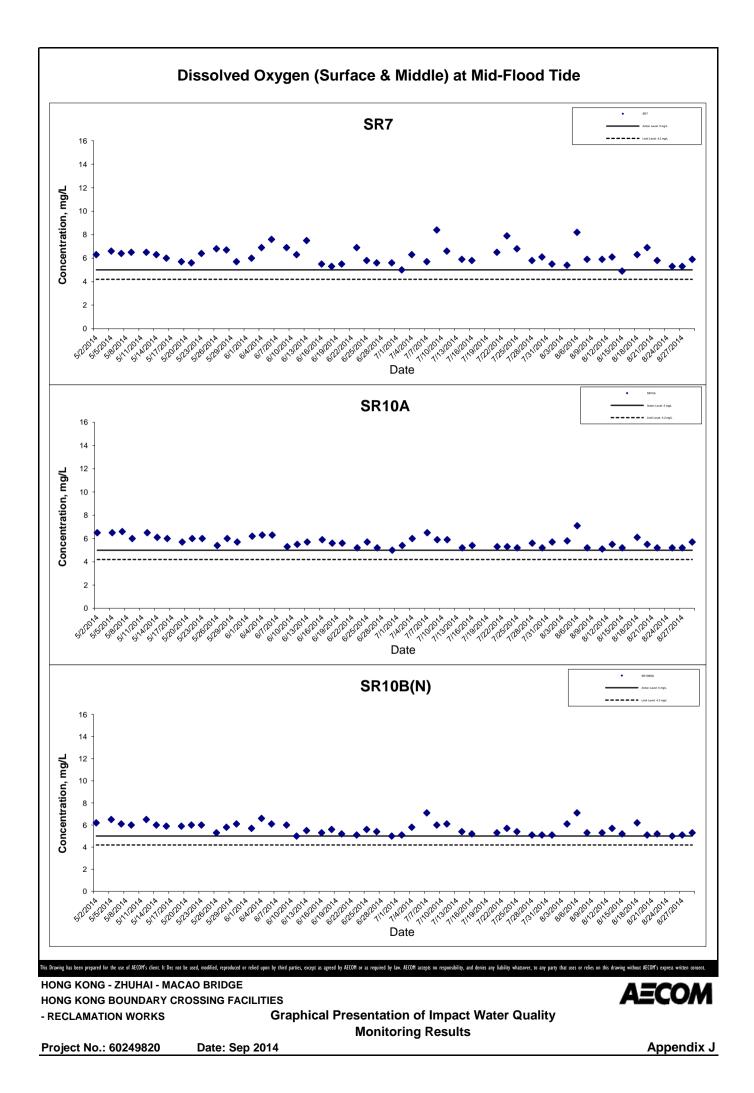
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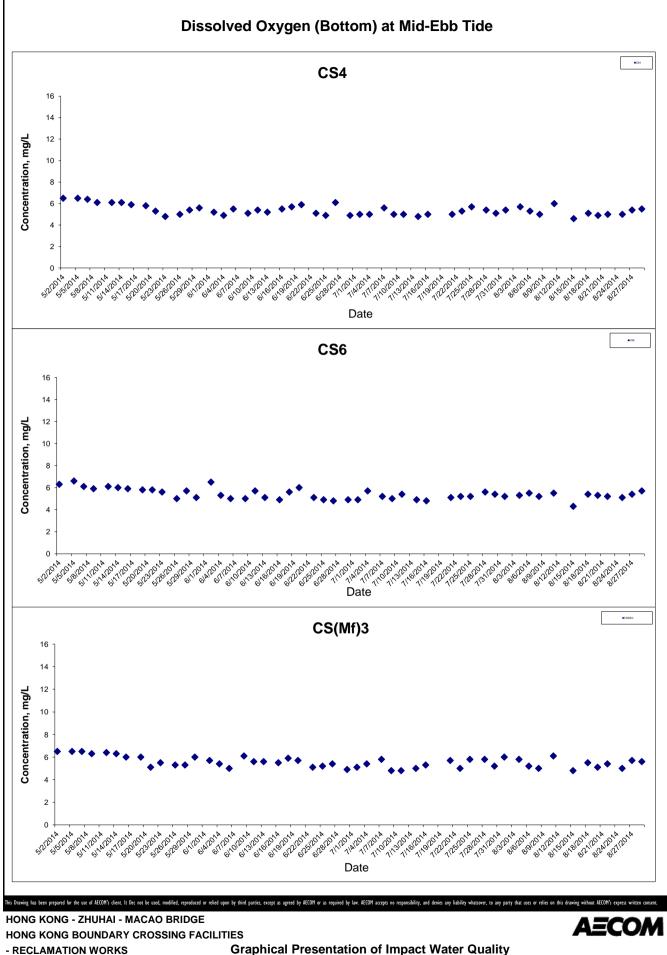
Appendix J

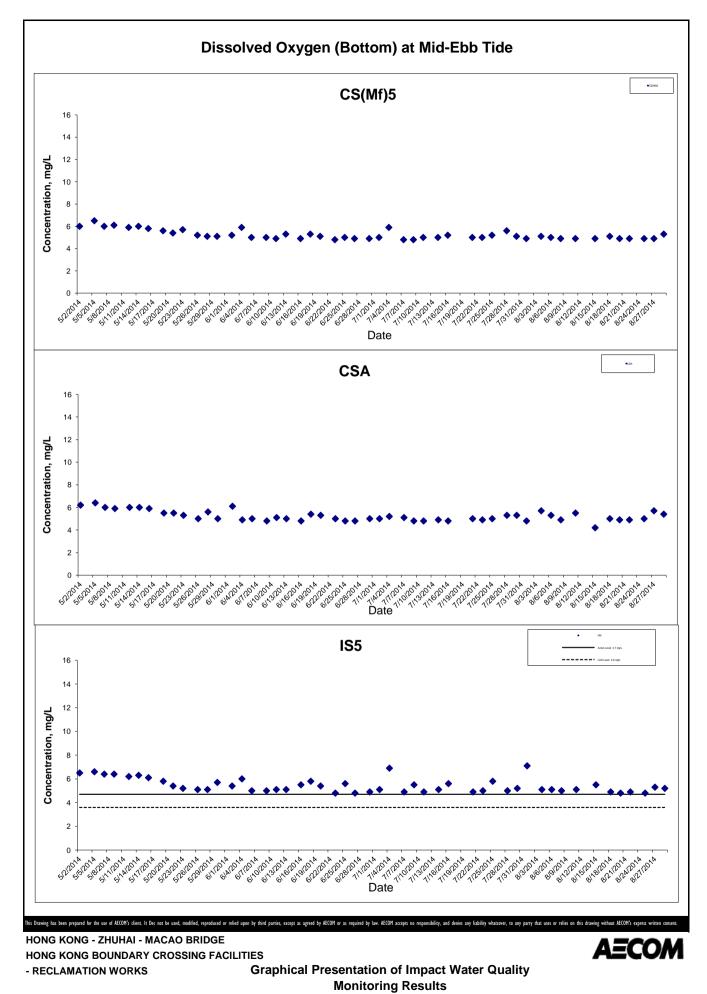


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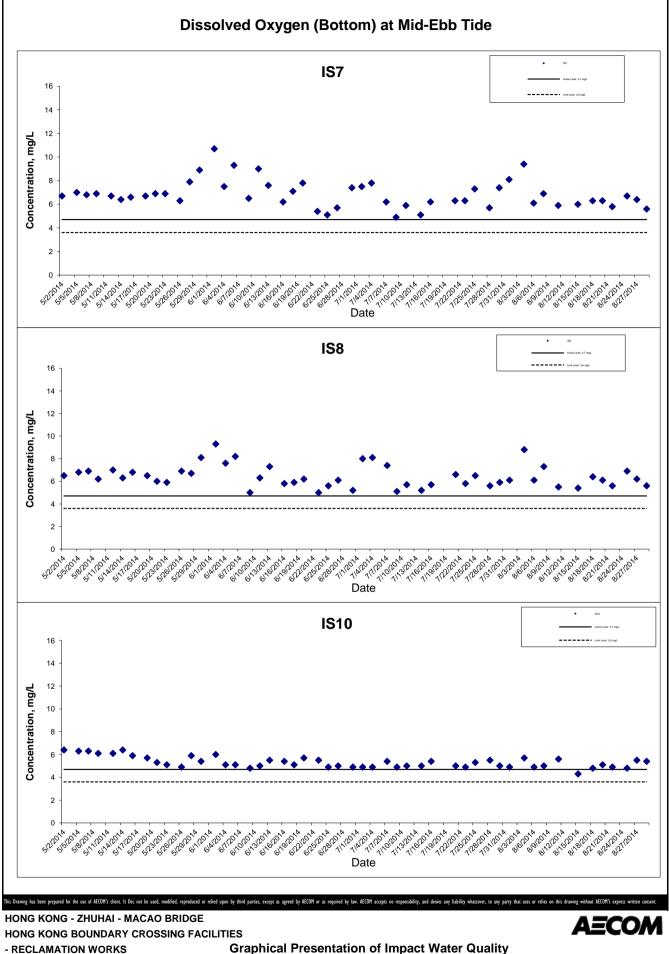


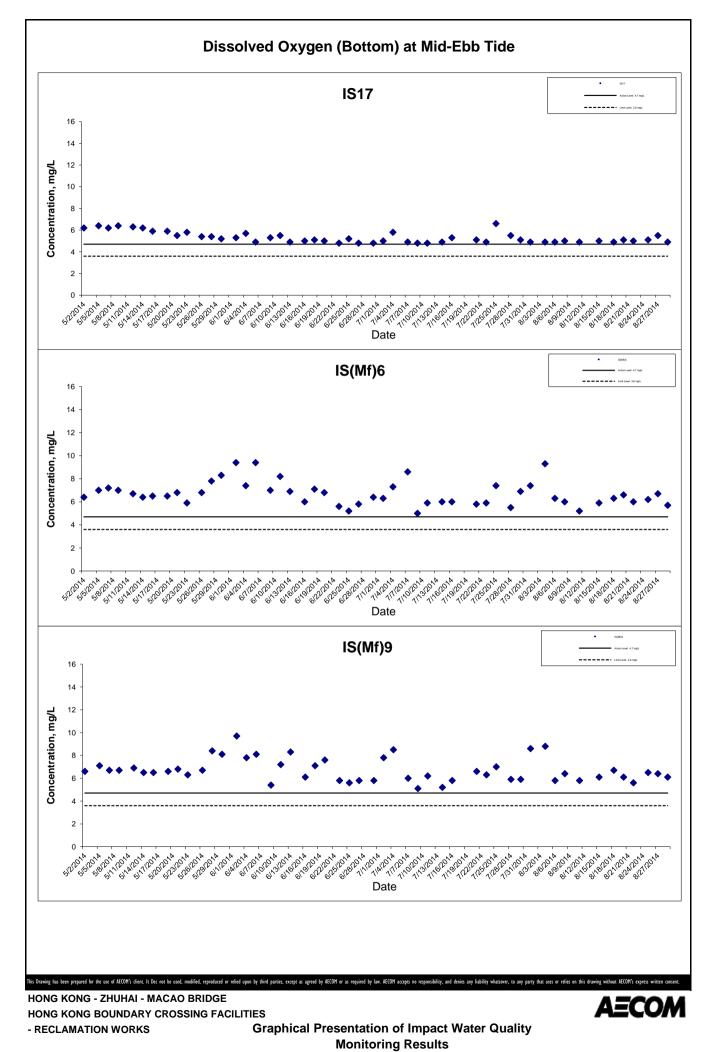


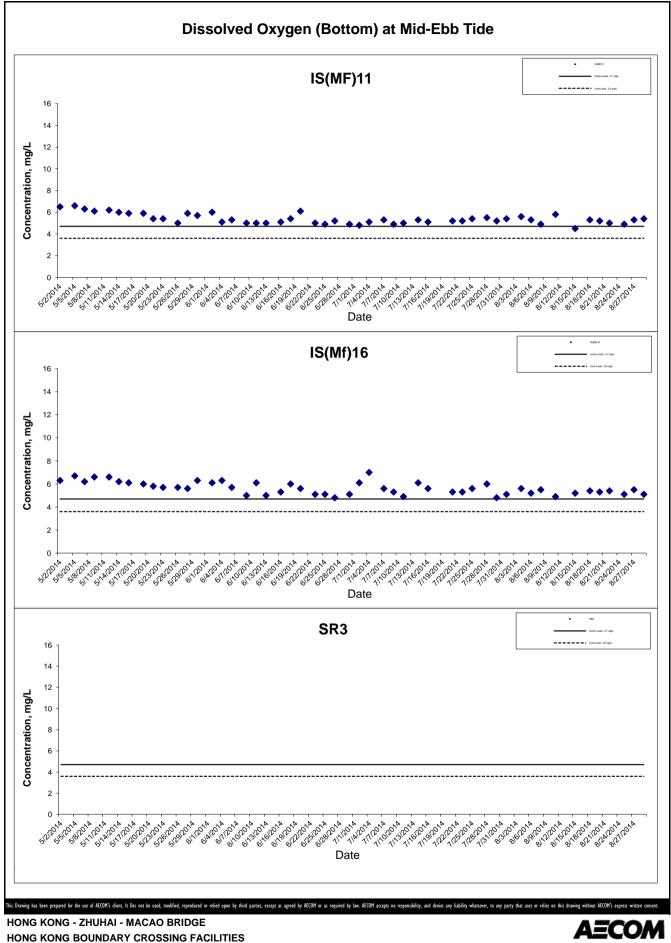




Project No.: 60249820 Date: Sep 2014

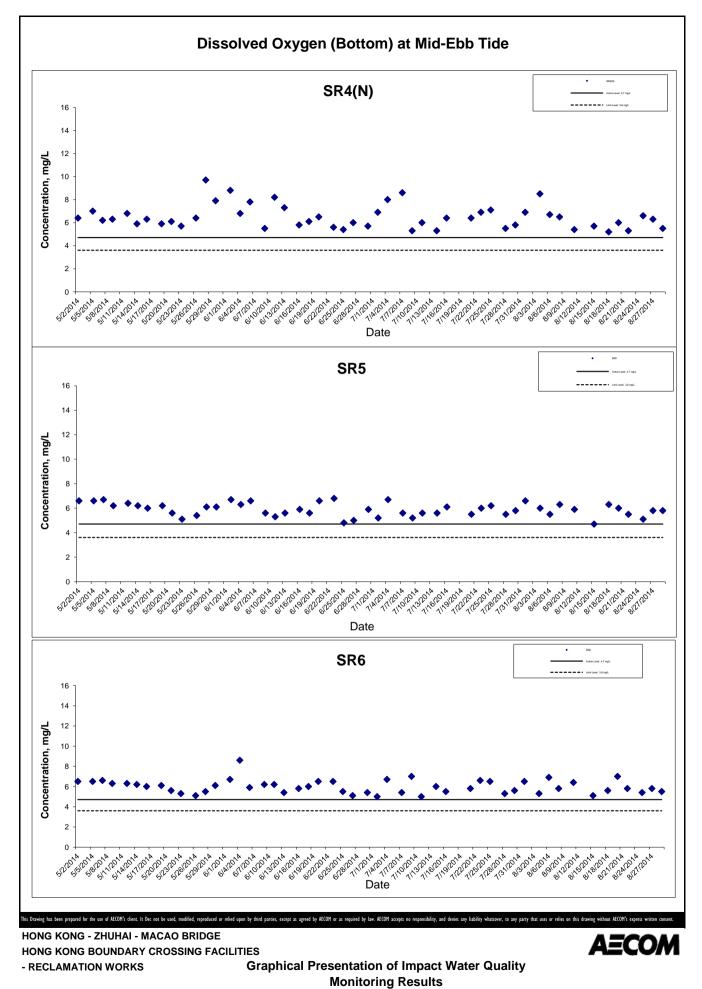




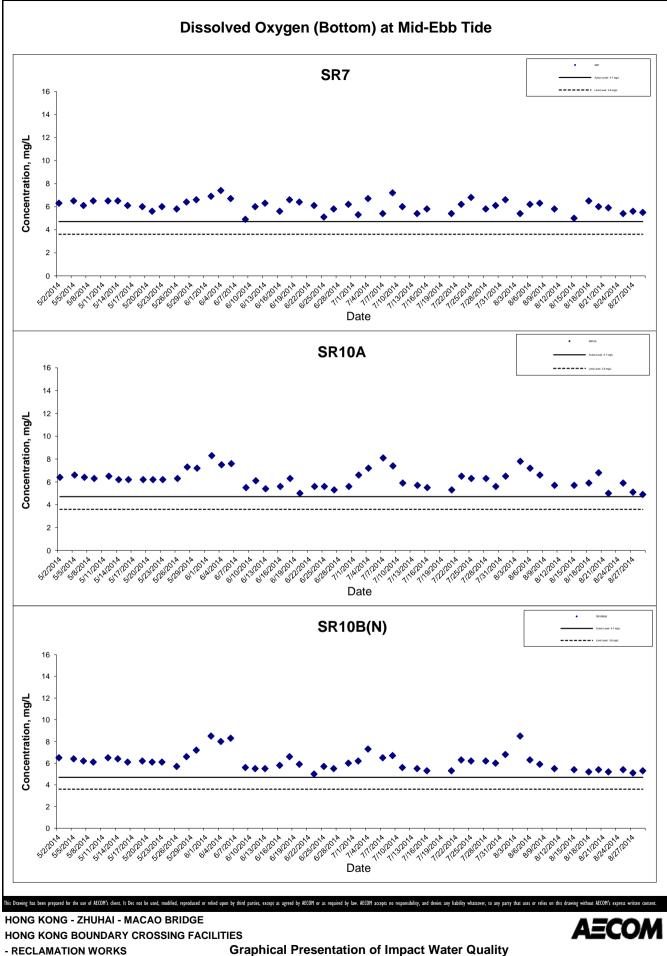


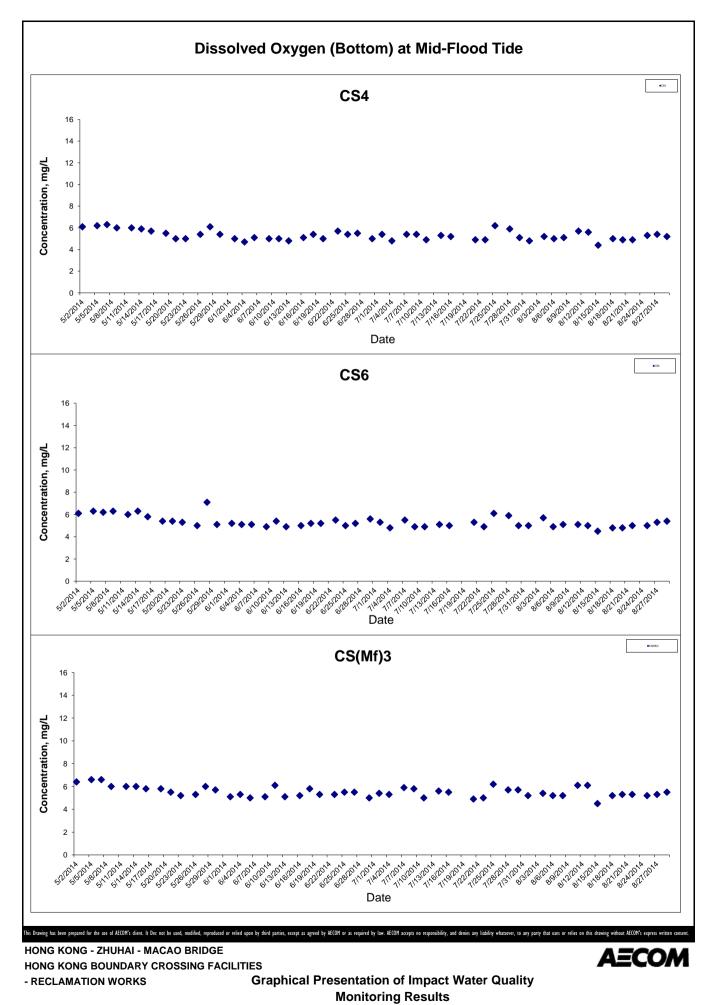
Graphical Presentation of Impact Water Quality Monitoring Results

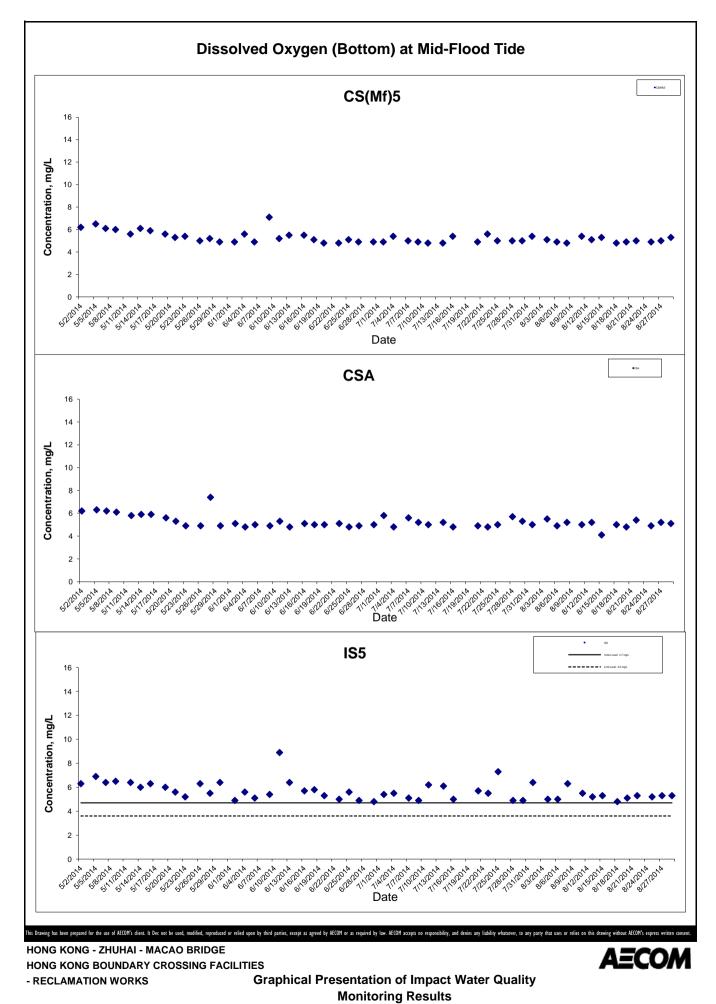
- RECLAMATION WORKS



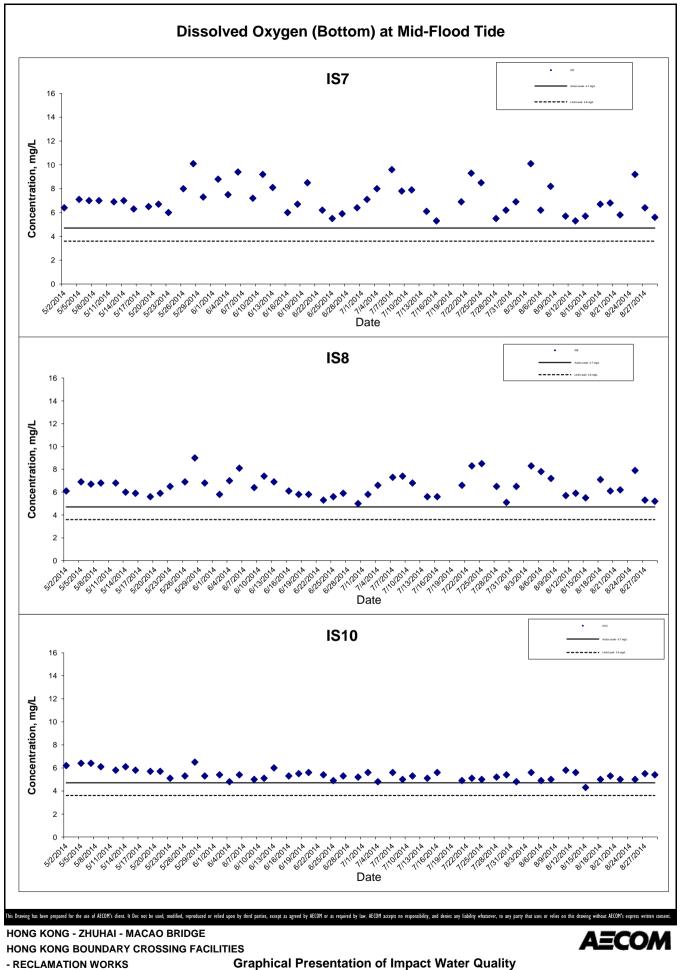
Project No.: 60249820 Date: Sep 2014



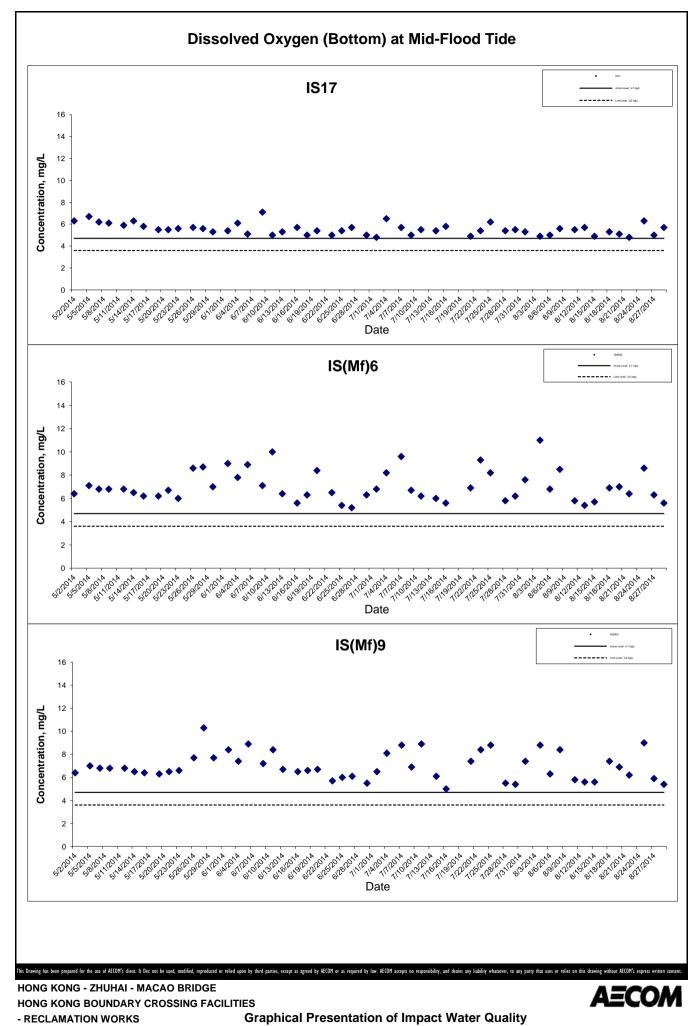




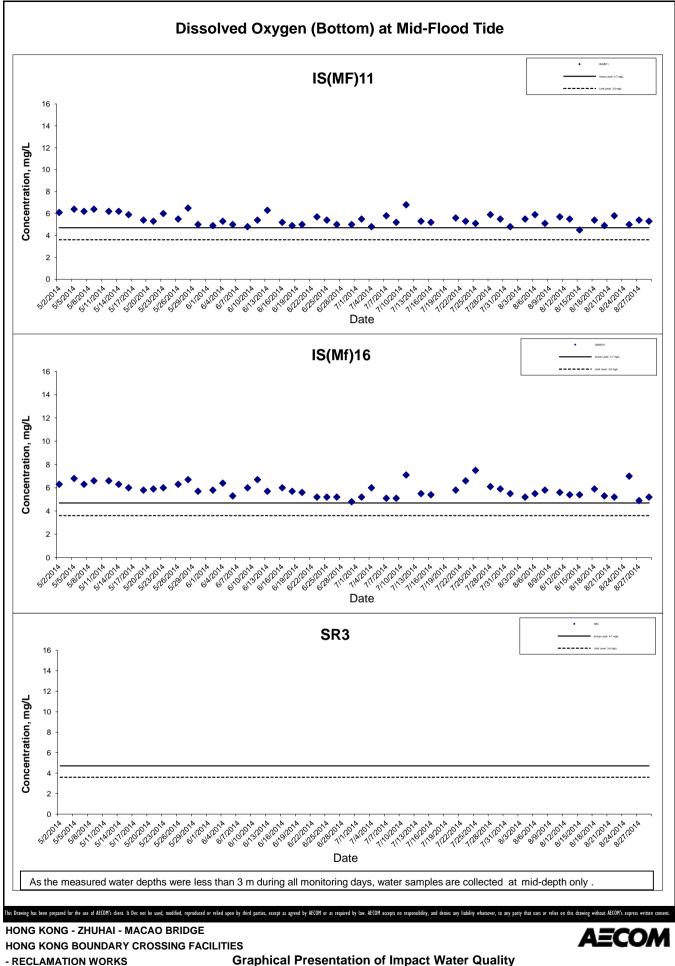
Appendix J



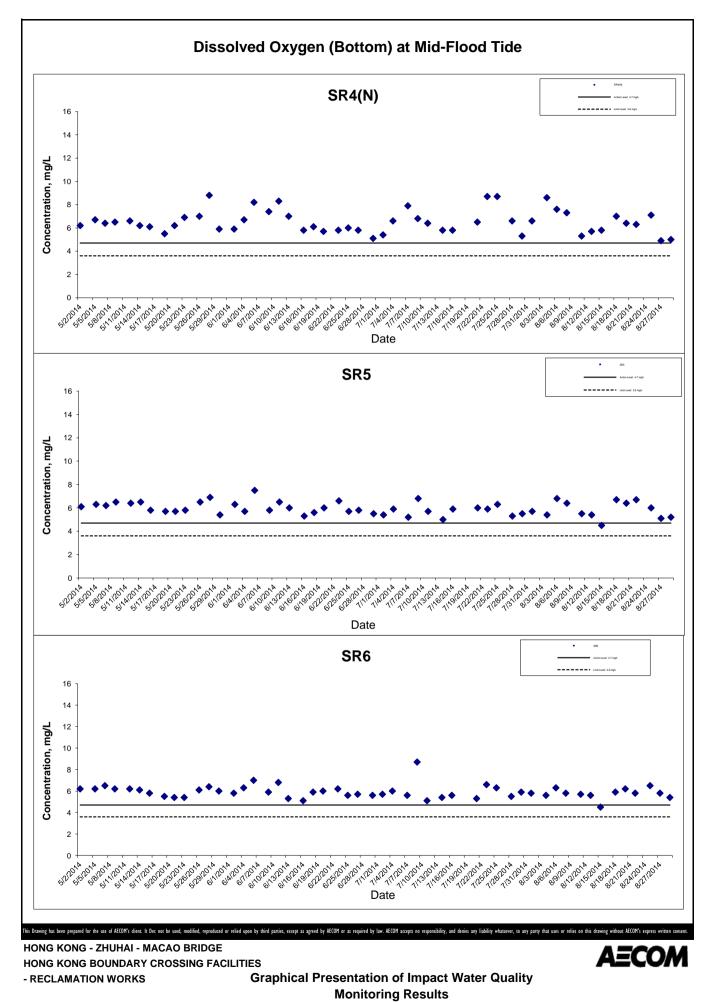
. Monitoring Results

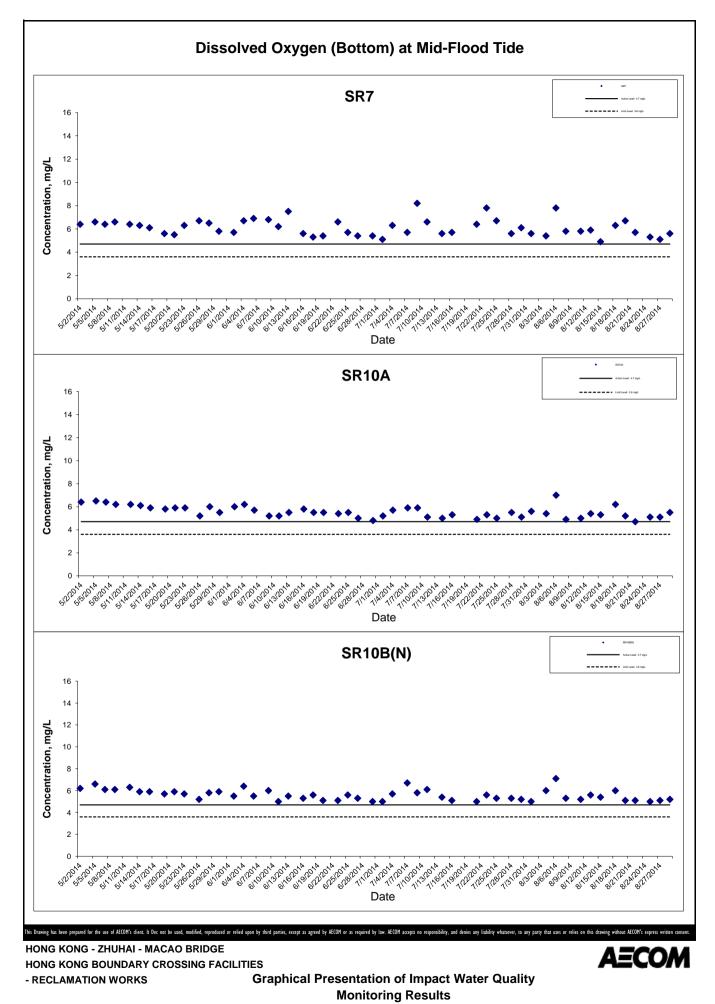


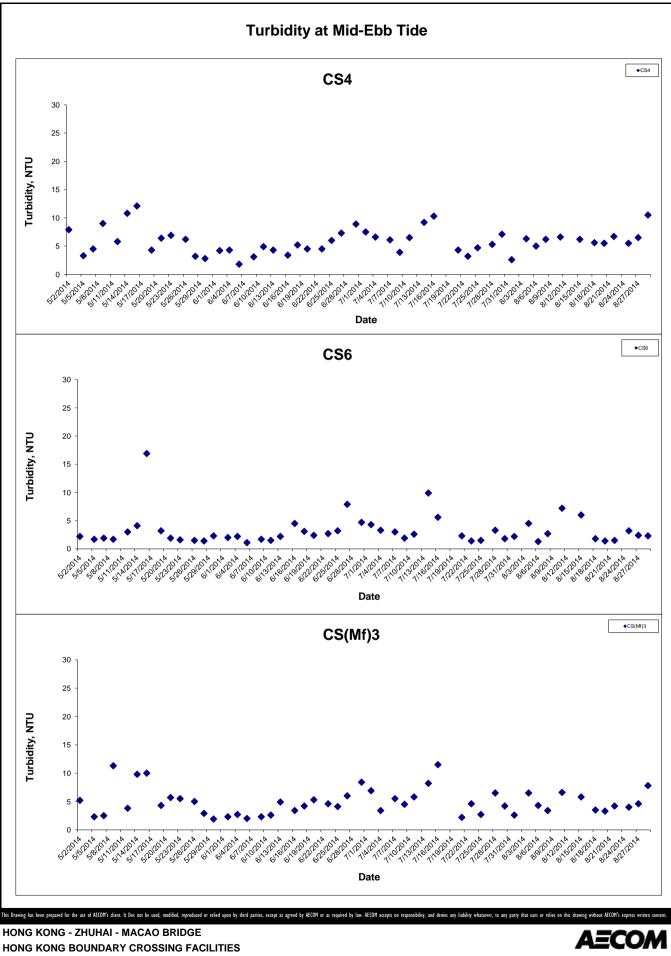
Monitoring Results



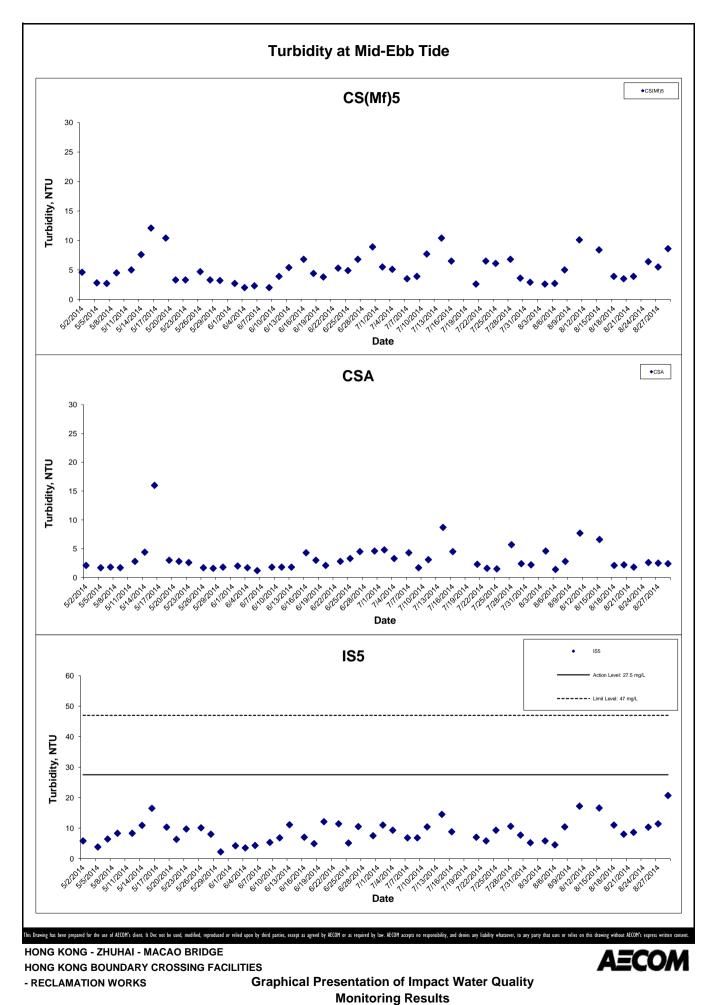
Monitoring Results



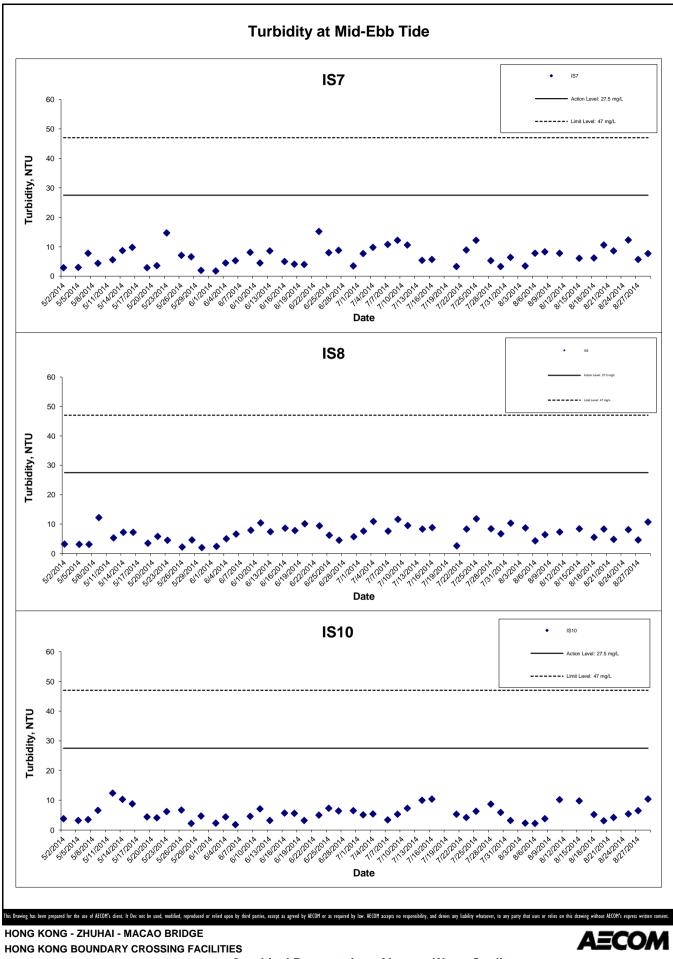




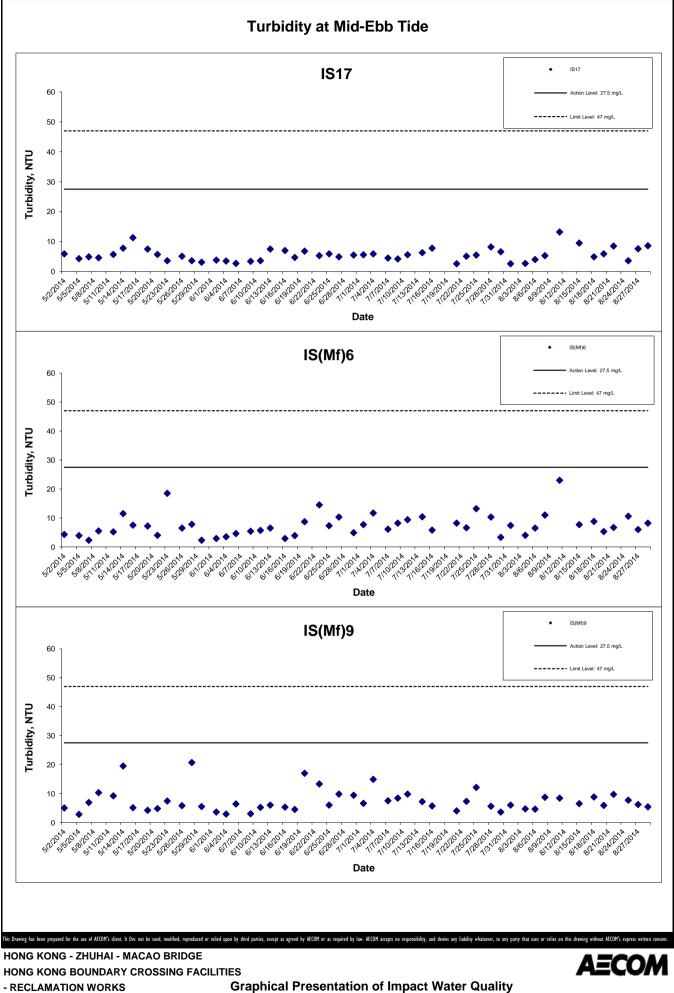
- RECLAMATION WORKS Graphical Presentation of Impact Water Quality Monitoring Results

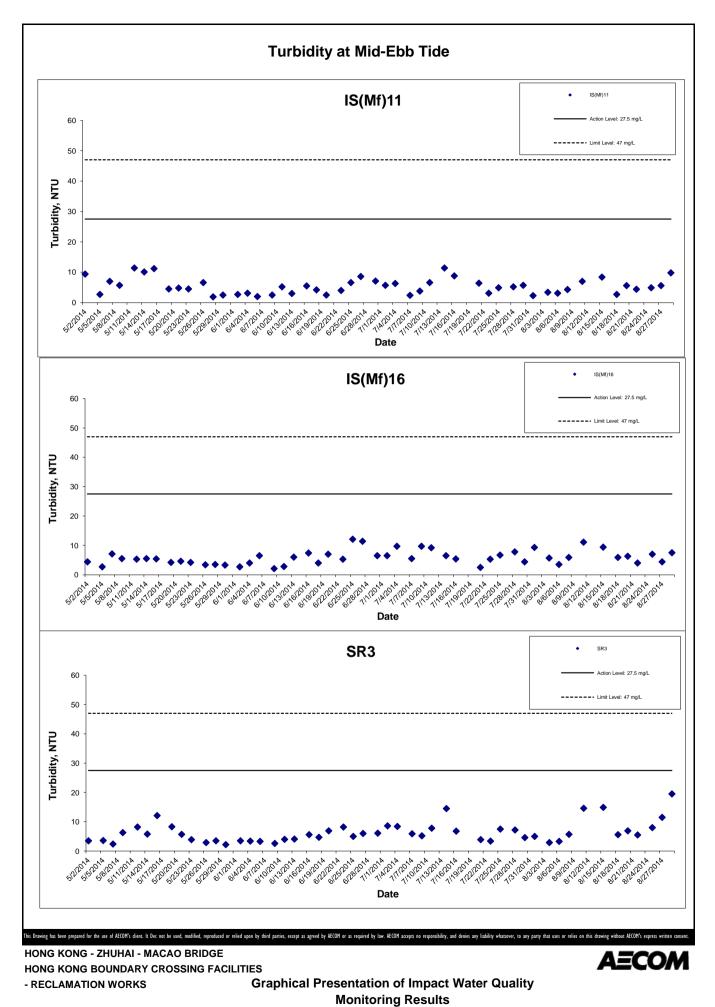


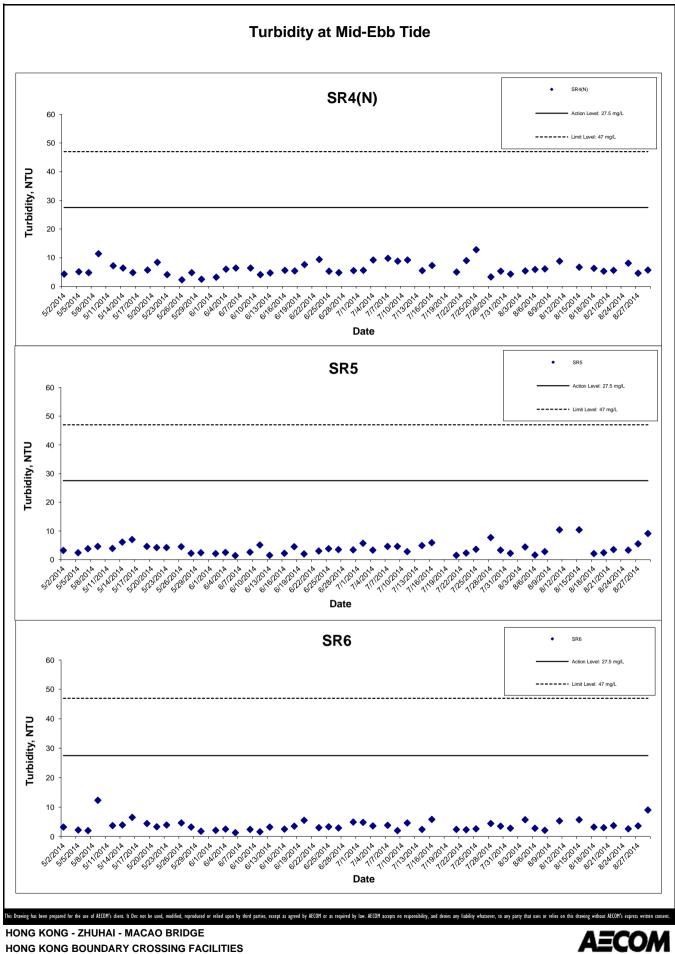
Appendix J

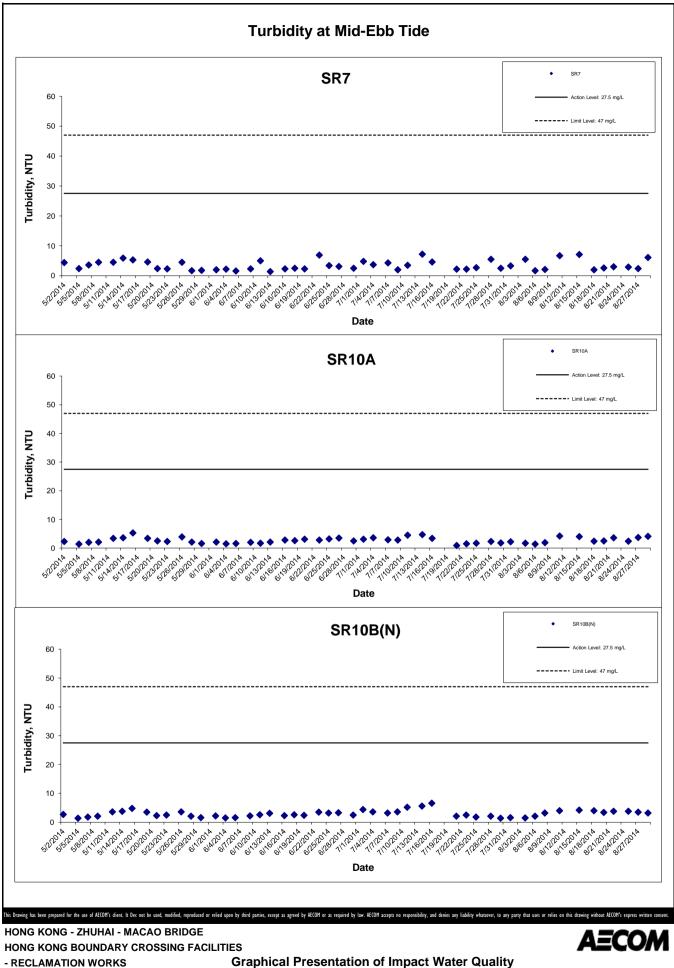


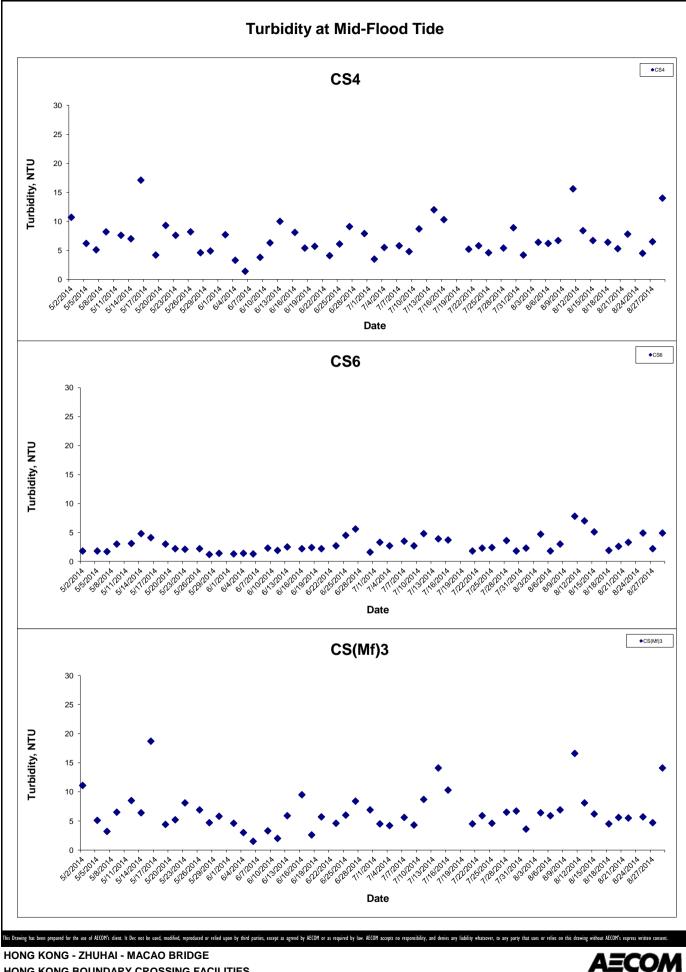
- RECLAMATION WORKS Graphical Presentation of Impact Water Quality Monitoring Results



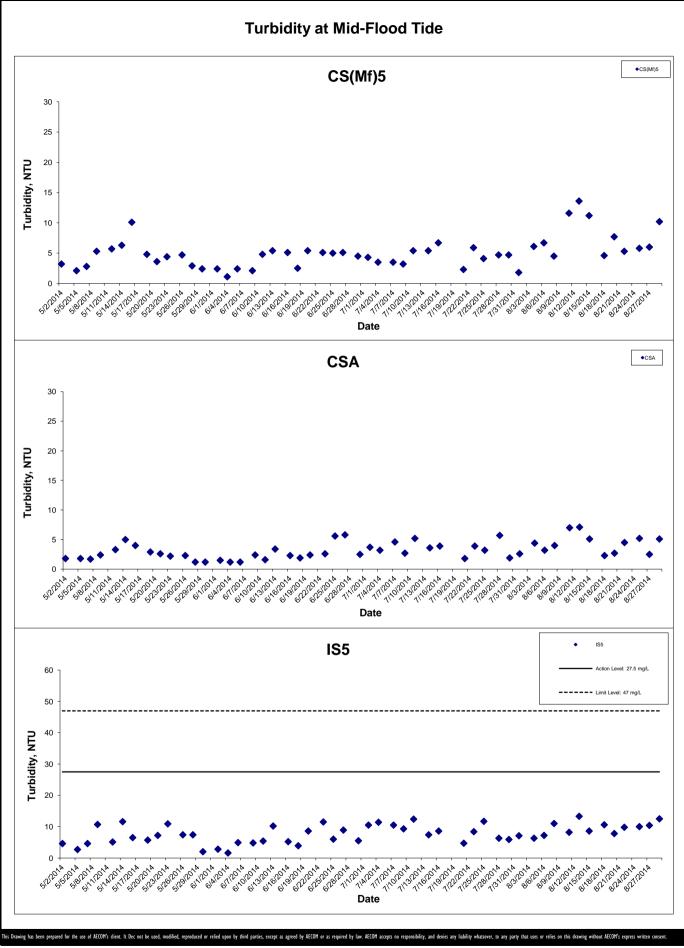






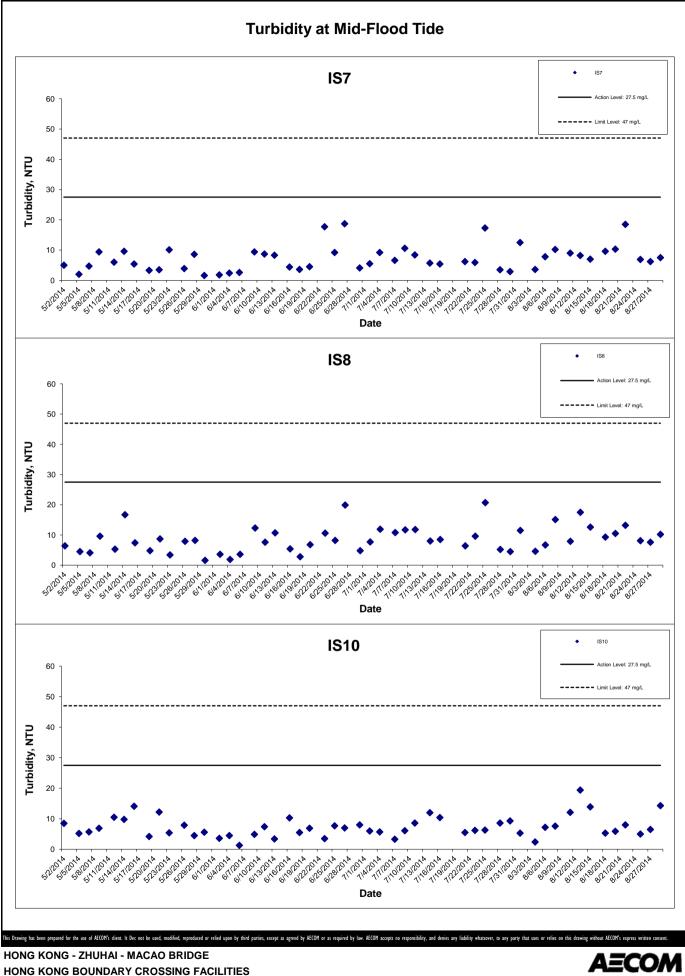


HONG KONG - ZHUHAI - MACAO BRIDGE HONG KONG BOUNDARY CROSSING FACILITIES - RECLAMATION WORKS Graphical Prese



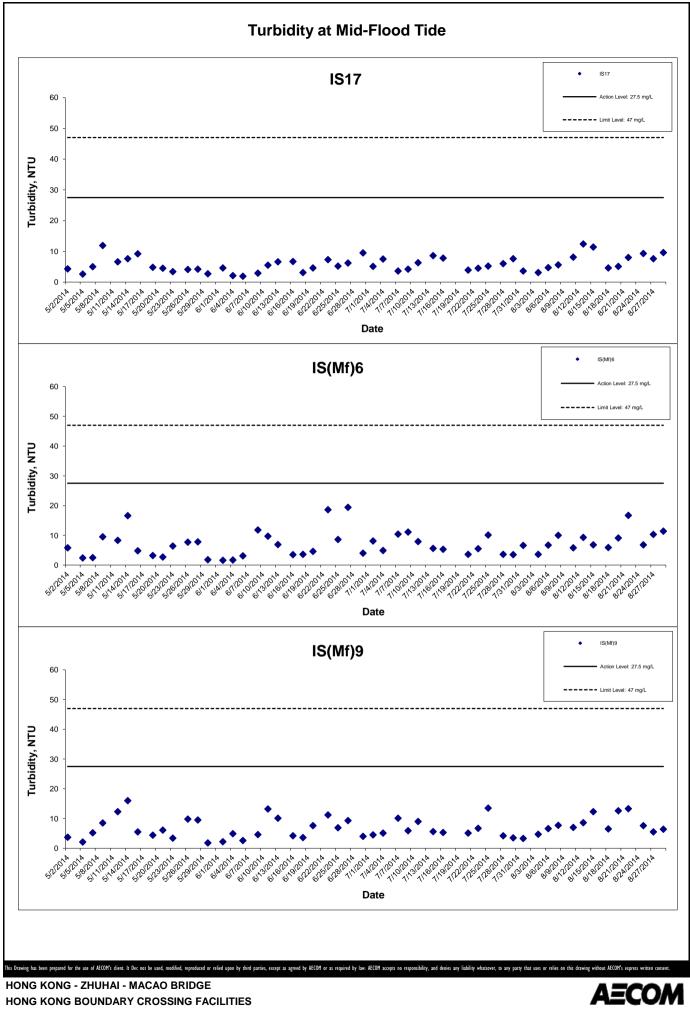
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Graphical Presentation of Impact Water Quality Monitoring Results AECOM

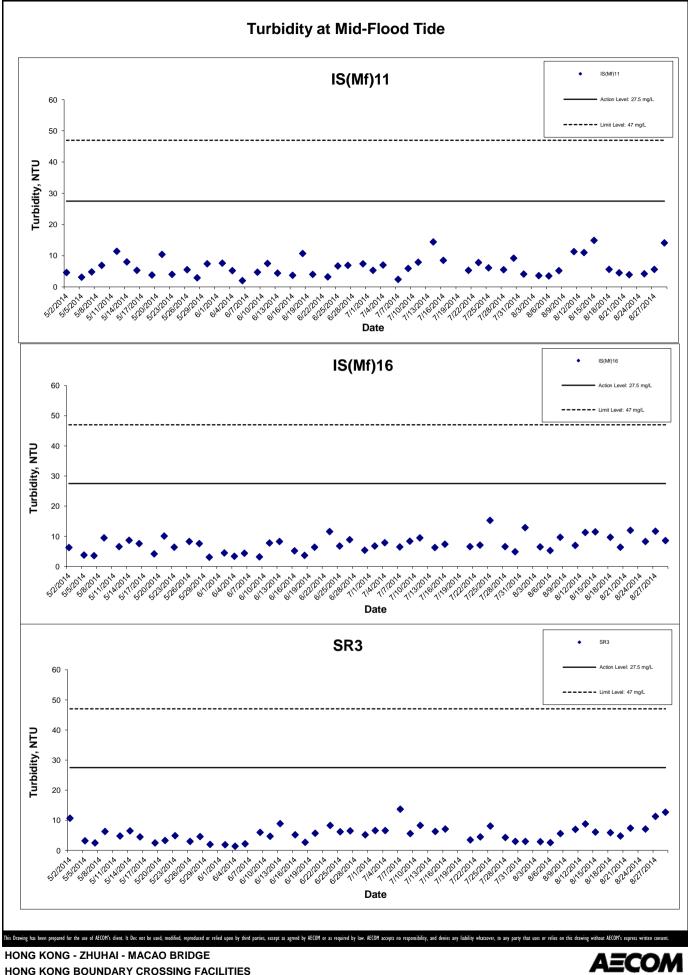


HONG KONG BOUNDARY CROSSING FACILITIES

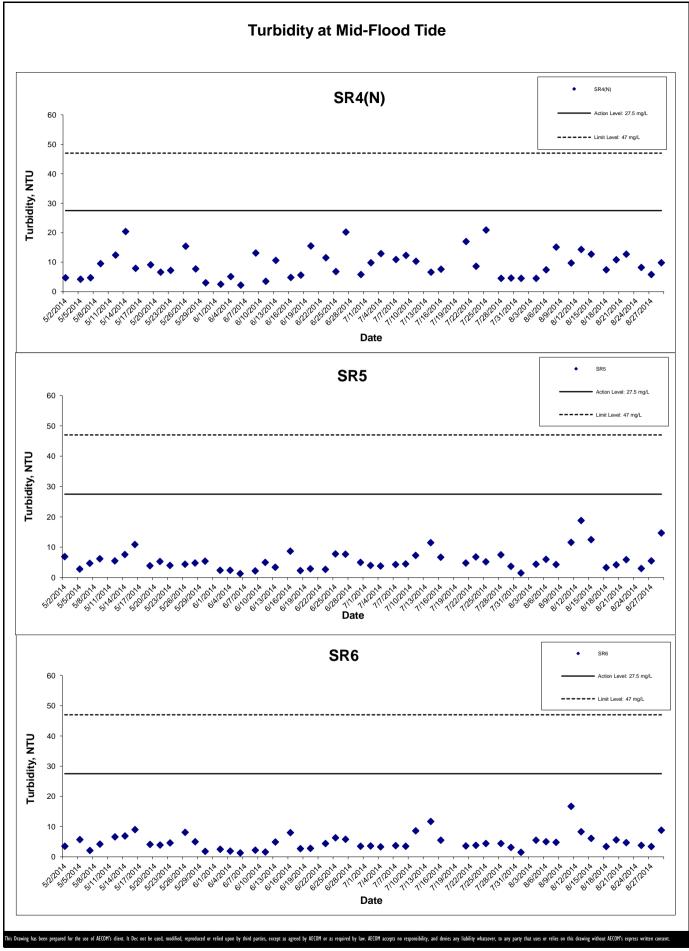
Graphical Presentation of Impact Water Quality Monitoring Results



- RECLAMATION WORKS

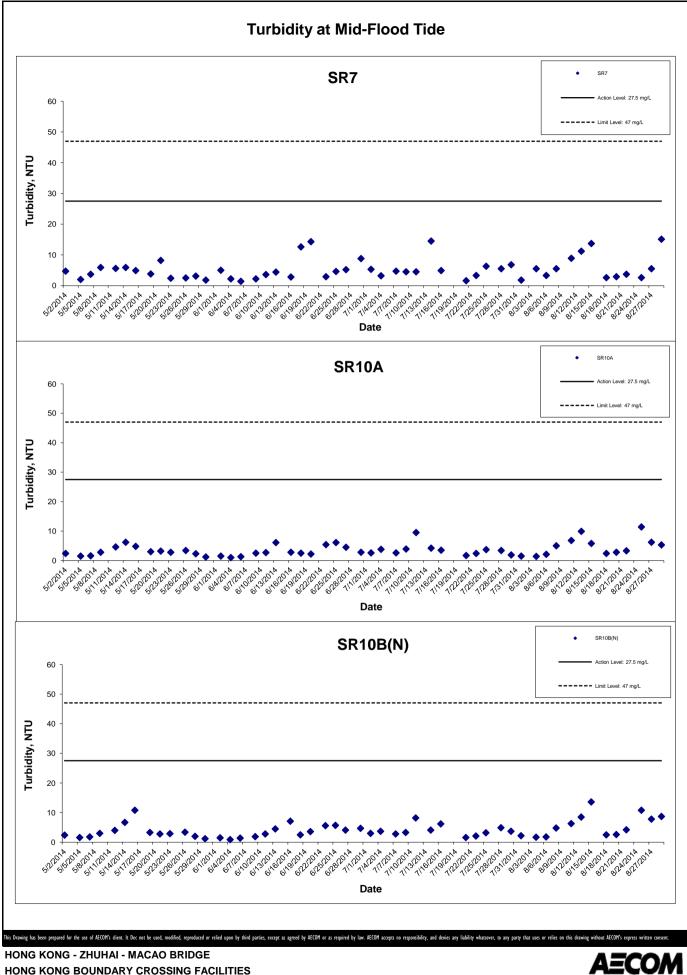


HONG KONG BOUNDARY CROSSING FACILITIES

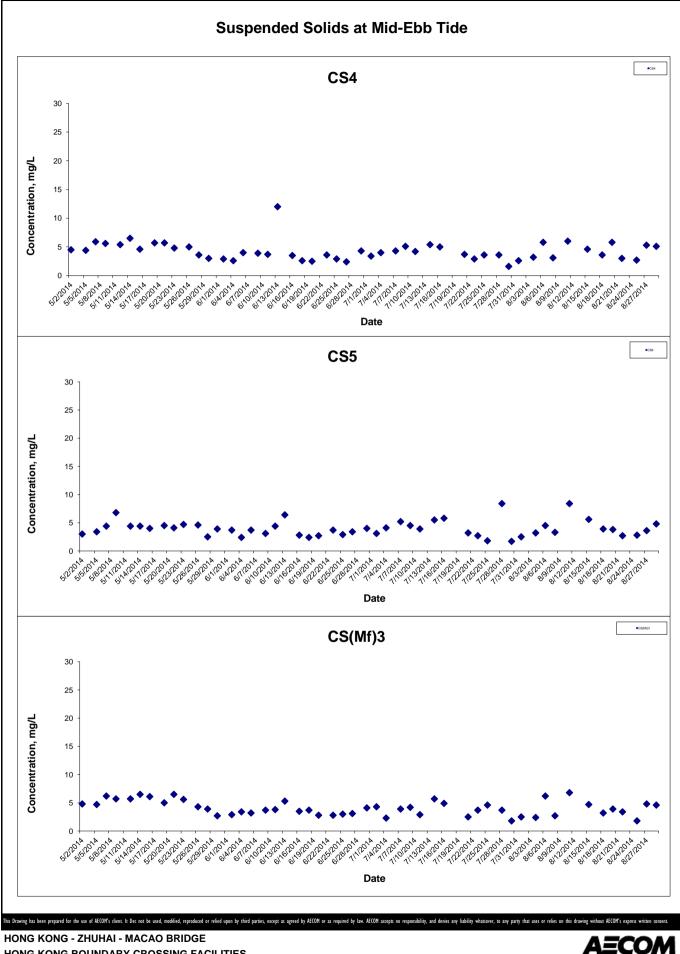


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Graphical Presentation of Impact Water Quality Monitoring Results AECOM

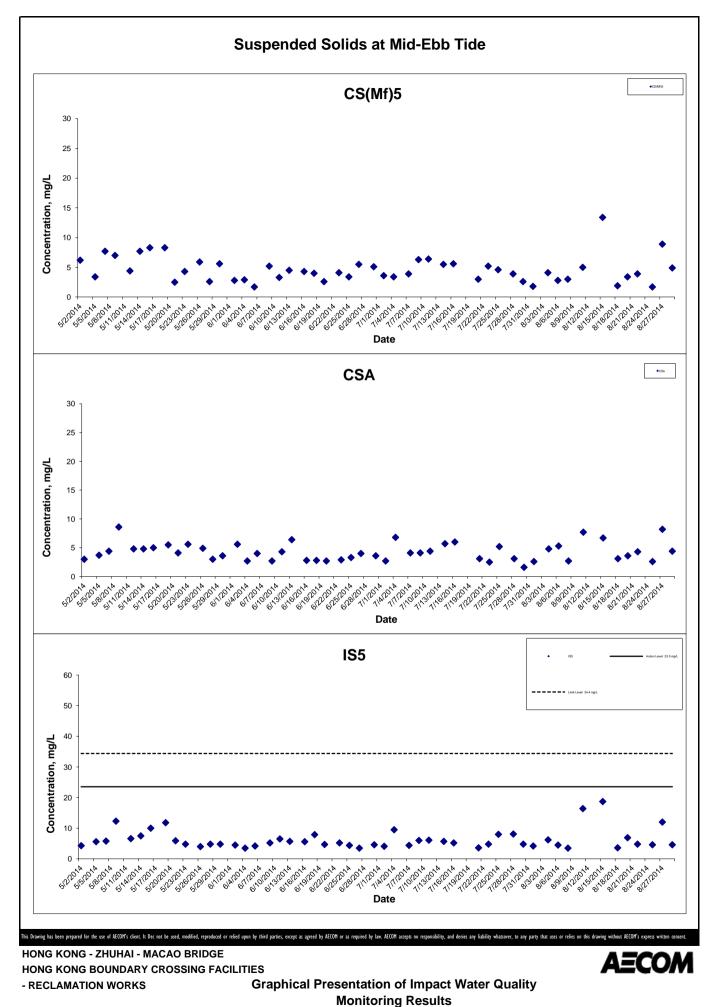


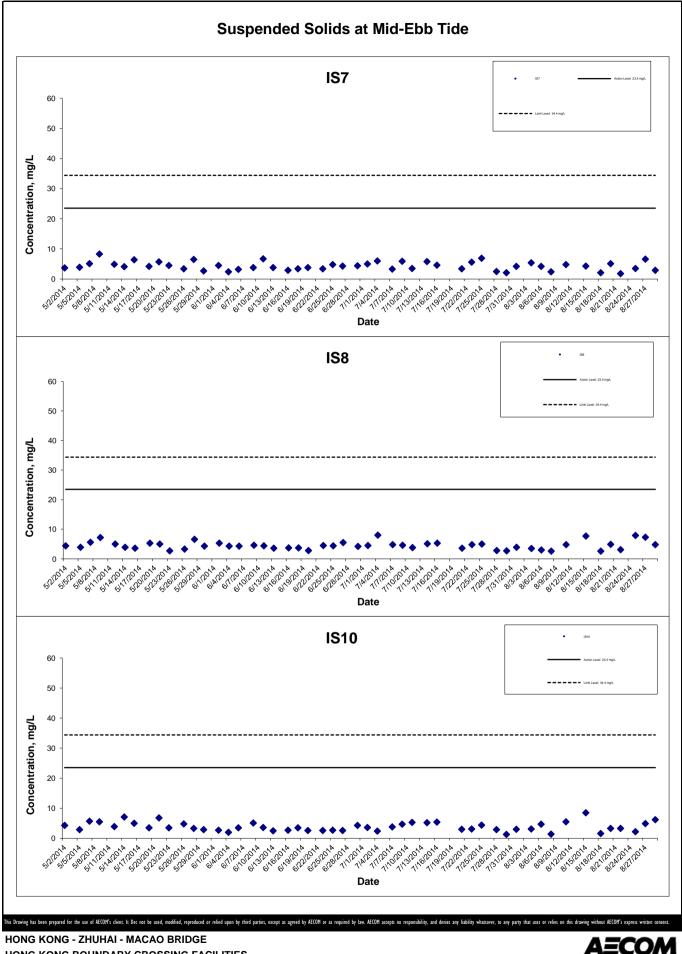
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HONG KONG BOUNDARY CROSSING FACILITIES

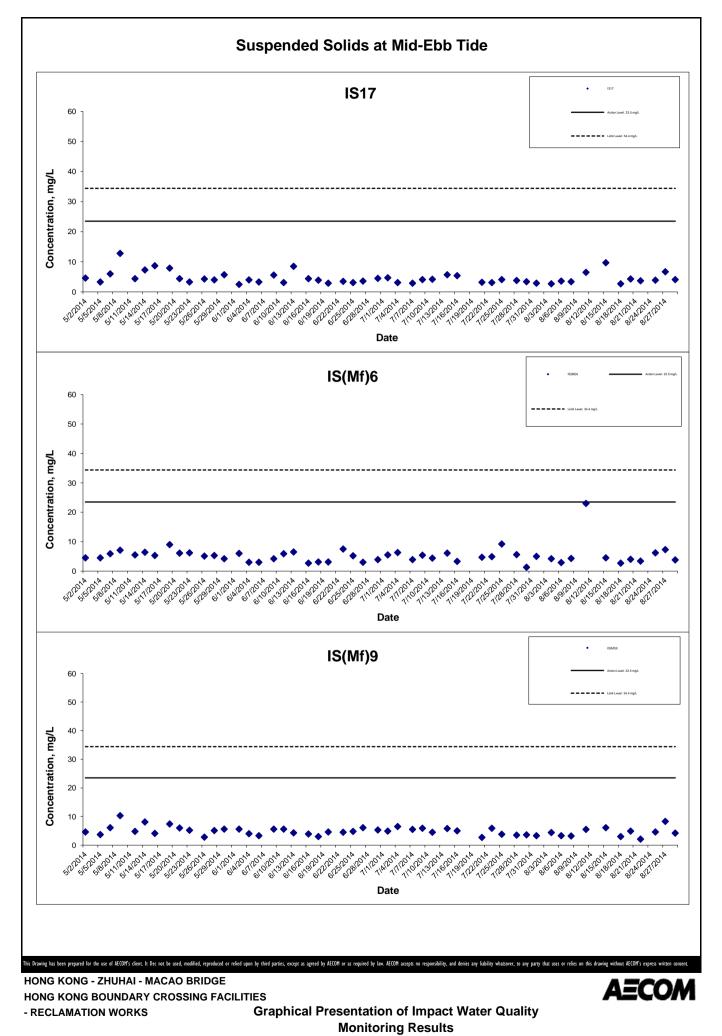
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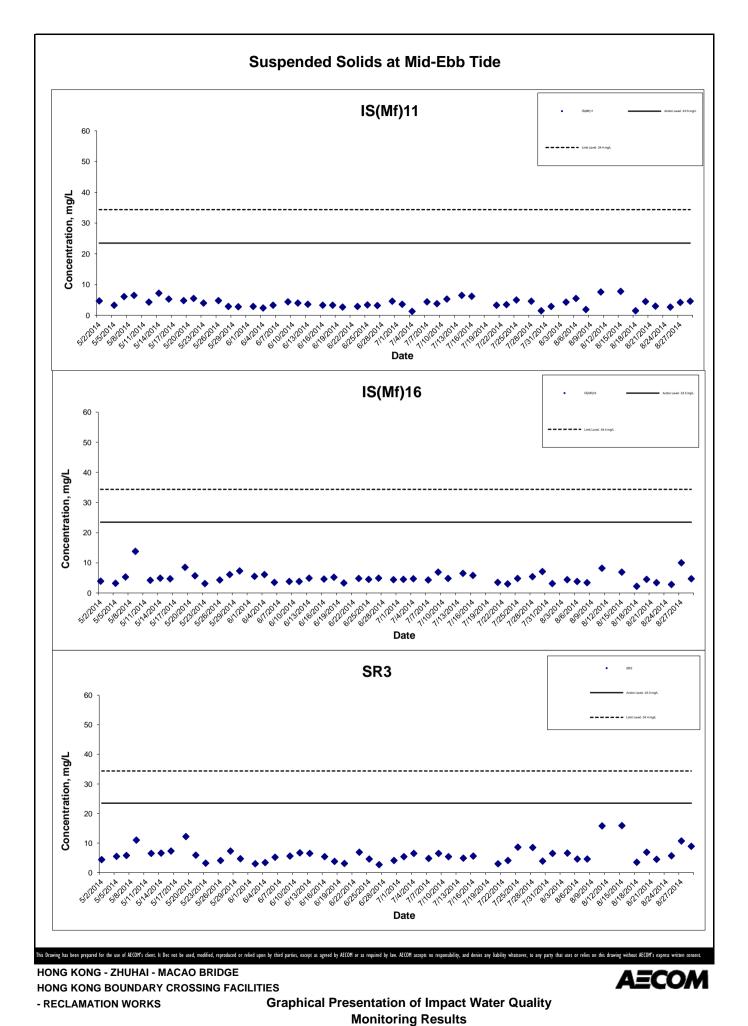


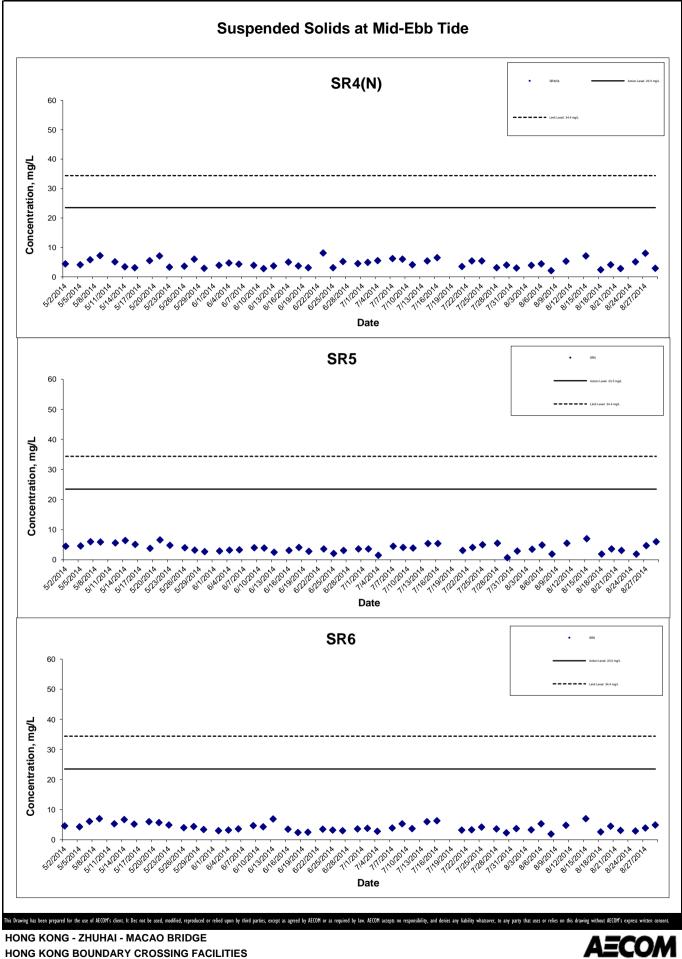


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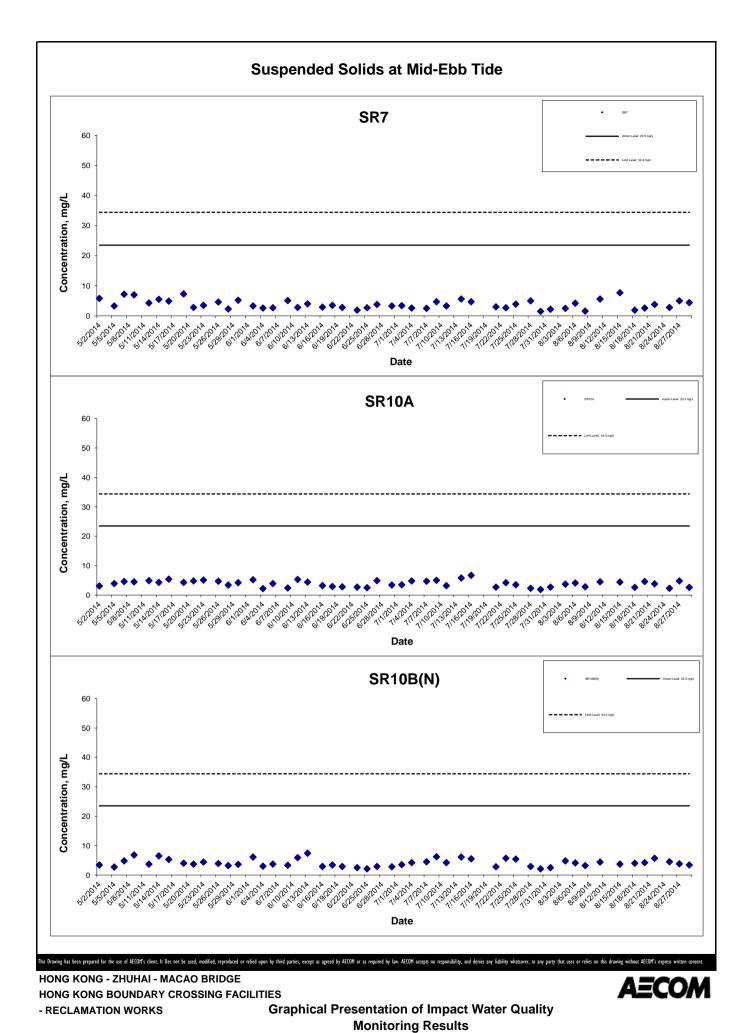
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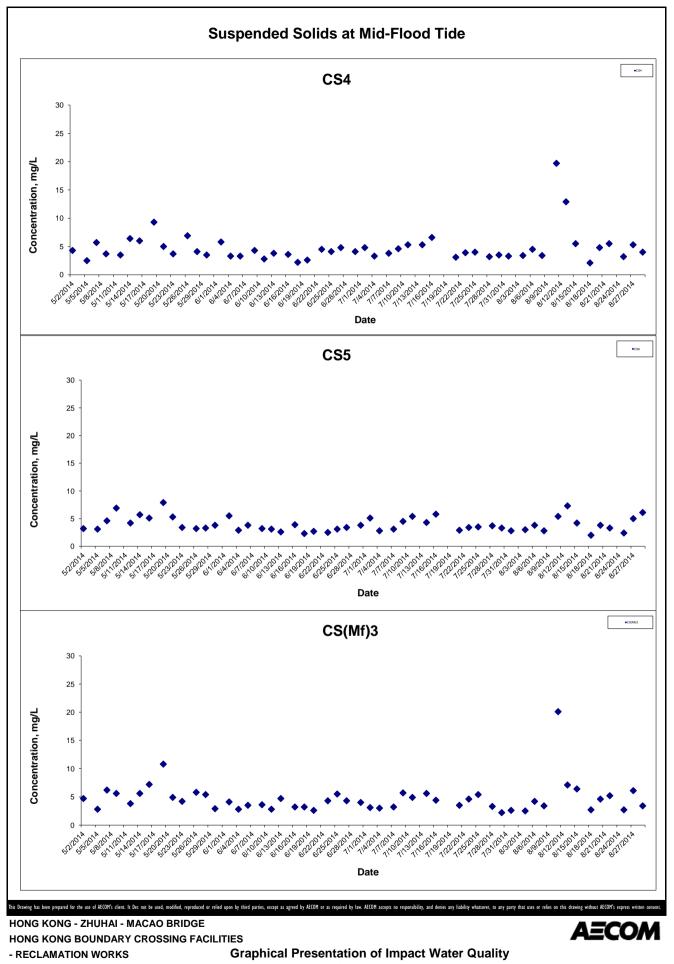




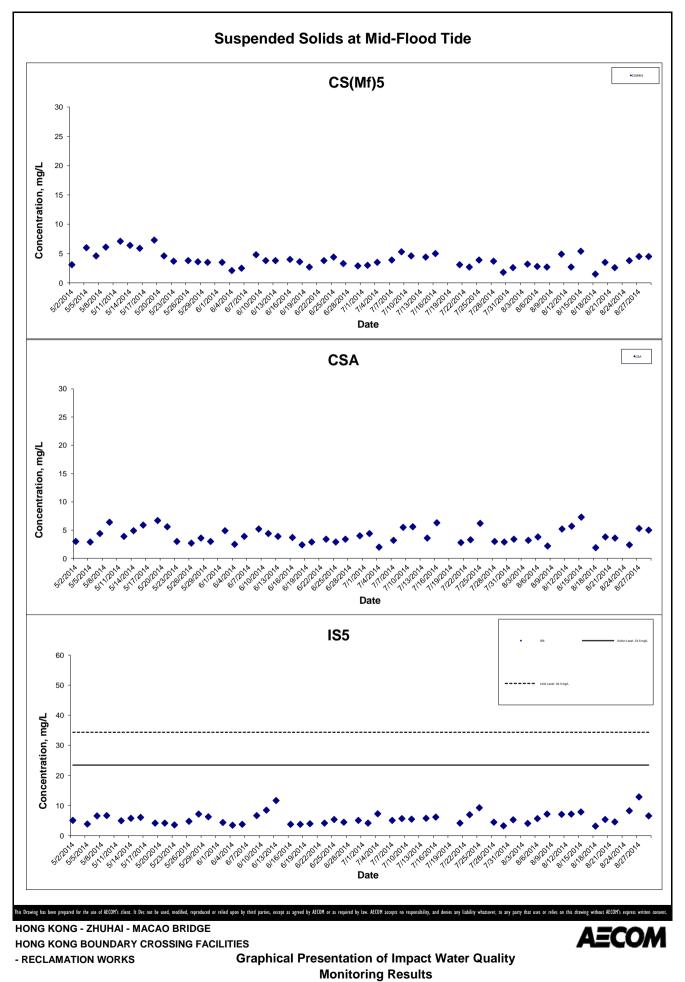


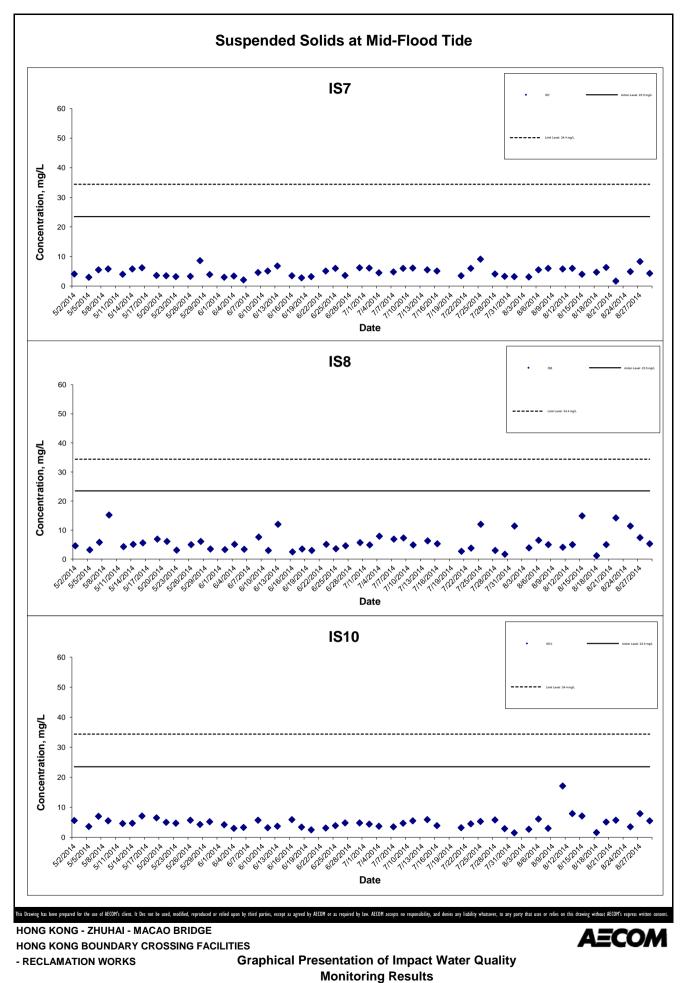
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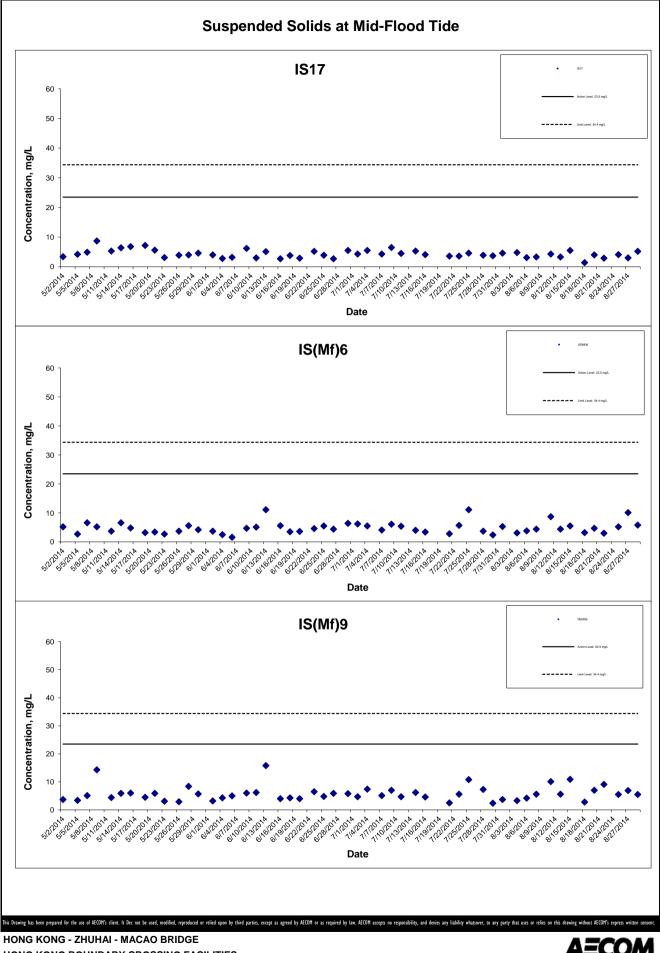




Monitoring Results

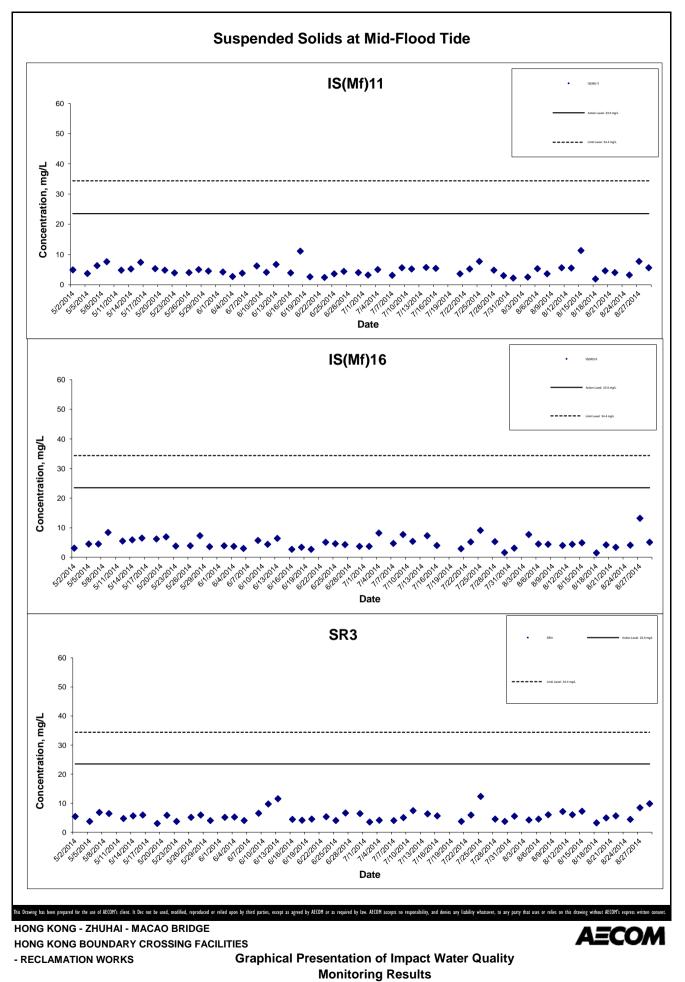




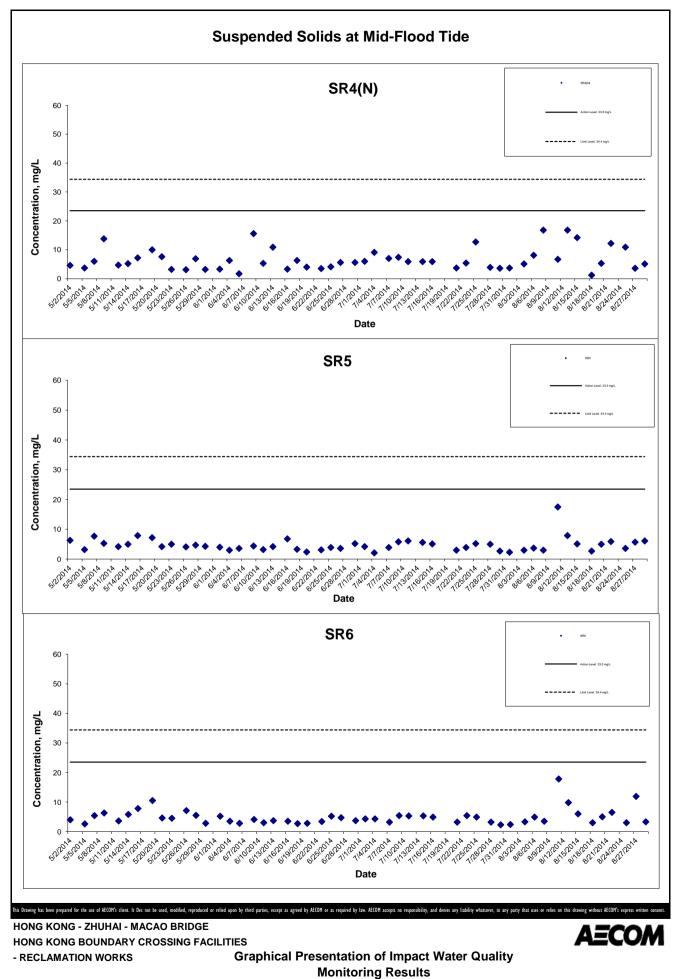


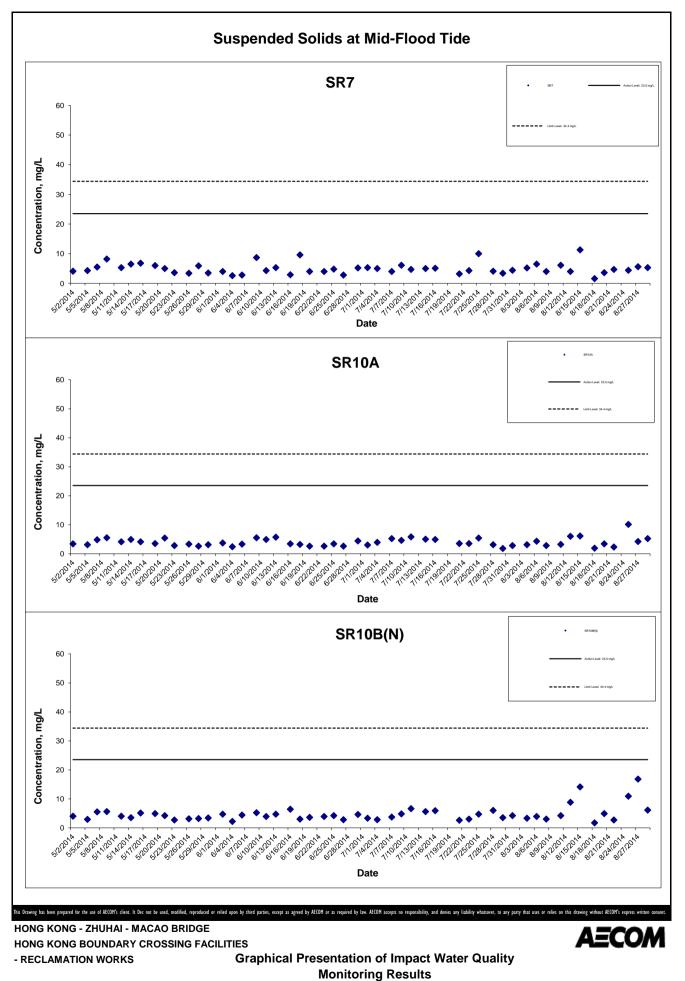
HONG KONG BOUNDARY CROSSING FACILITIES

Graphical Presentation of Impact Water Quality Monitoring Results



Project No.: 60249820 Date: Sep 2014





Appendix K Impact Dolphin Monitoring Survey Sighting Summary

Table 1 Impact Dolphin Monitoring Survey Sighting Table

Project	Contract	Date	Sighting No.	Time	Group Size		Beaufort	PSD	Effort	Туре	Northing	Easting	Season	Boat Association
HKBCF	HY/2010/02	04-Aug-14	988	9:19	1	NWL	2	N/A	Орр	Impact	813844	803515	Summer	No
HKBCF	HY/2010/02	04-Aug-14	989	9:30	2	NWL	2	N/A	Орр	Impact	813890	803340	Summer	No
HKBCF	HY/2010/02	04-Aug-14	990	9:43	1	NWL	2	N/A	Орр	Impact	814124	803165	Summer	No
HKBCF	HY/2010/02	04-Aug-14	991	13:09	2	NWL	1	455	On	Impact	824375	806452	Summer	No
HKBCF	HY/2010/02	04-Aug-14	992	13:36	4	NWL	1	46	On	Impact	826380	806466	Summer	No
HKBCF	HY/2010/02	25-Aug-14	997	9:20	6	NWL	1	N/A	Орр	Impact	813999	803433	Summer	No
HKBCF	HY/2010/02	25-Aug-14	998	10:46	2	NWL	1	350	On	Impact	822497	804676	Summer	No
HKBCF	HY/2010/02	25-Aug-14	999	12:09	7	NWL	1	710	On	Impact	829095	805452	Summer	No

KEY:

Sighting

On On effort

PSD Perpendicular Sighting Distance

Group Size Represents best estimate for group encountered

Opp Opportunistic

NEL NWL North East Lantau North West Lantau

July 2014 Photo Identification Information

Table 2. Sightings of Individually Identified Chinese White Dolphin (Sousa chinensis) between March 2012 -	
June 2014	

Identification Number	Baseline Identification Number	Date (YYYY- MM-DD)	Sighting Number	Area Sighted
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		2014/07/14	972	NWL
		2014/07/14	971	NWL
		2013/12/26	879	NWL
HZMB 115		2013/12/26	879	NWL
HZMB 114		2013/10/24	827	NWL
HZMB 113		2013/10/24	827	NWL
HZMB 112		2013/10/15	815	NWL
HZMB111		2013/10/15	815	NWL
HZMB 110		2013/10/15	812	NWL
HZMB 108		2013/08/30	780	NEL
HZMB 107		2013/08/21	770	NWL
HZMB 106		2013/08/21	769	NWL
		2014/05/31	951	NWL
HZMB 105		2013/07/08	711	NWL
HZMB 104		2013/07/08	711	NWL
HZMB 103		2013/07/08	711	NWL
HZMB 102		2013/07/08	706	NWL
HZMB 101		2013/07/08	706	NWL
HZMB 100		2013/07/08	706	NWL
		2013/06/13	681	NWL
HZMB 099		2013/06/13	680	NWL
		2014/01/06	888	NWL
		2013/11/02	849	NWL
		2013/11/02	845	NWL
HZMB 098	NL104	2013/10/24	831	NWL
		2013/07/08	711	NWL
		2013/05/24	659	NWL

Identification Number	Baseline Identification Number	Date (YYYY- MM-DD)	Sighting Number	Area Sighted
HZMB 097		2013/05/09	647	NWL
HZMB 096		2013/04/01	621	NWL
		2013/08/30	780	NEL
HZMB 095		2013/06/25	697	NWL
		2013/06/13	682	NWL
		2013/04/01	621	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
		2013/05/24	657	NWL
HZMB 093		2013/02/21	587	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
		2013/05/09	642	NWL
HZMB 086	NL242	2013/02/15	579	NWL
		2011/10/10	Baseline	NWL
		2014/05/31	954	NWL
HZMB 085		2013/06/26	703	NWL
		2013/02/15	579	NWL
HZMB 084		2013/02/14	575	NWL
		2013/12/19	863	NWL
		2013/03/28	607	NWL
HZMB 083	NL136	2013/02/15	579	NWL
		2013/01/28	568	NWL
		2012/01/28	564	NWL
		2013/02/21	587	NWL
HZMB 082		2013/02/15	579	NWL
		2013/01/28	563	NWL

Contract No. HY/2010/02 Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities – Reclamation Works Monthly EM&A Report for August 2014

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

Identification Number	Baseline Identification Number	Date (YYY- MM-DD)	Sighting Number	Area Sighted
		2013/01/28	559	NWL
		2012/12/11	537	NWL
HZMB 066	NL93	2012/10/24	475	NWL
		2012/10/12	466	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
HZMB 063		2013/05/09	647	NWL
		2012/10/12	466	NWL
HZMB 062		2012/12/06	525	NEL
		2012/10/11	457	NWL
HZMB 060		2012/09/18	447	NWL
		2013/02/21	591	NWL
HZMB 059		2012/09/18	445	NWL
HZMB 057		2012/09/18	440	NWL
		2012/09/18	442	NWL
HZMB 056		2012/09/05	433	NEL
HZMB 055		2012/09/04	425	NWL
		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
		2013/08/30	780	NEL
		2013/07/08	711	NWL
		2013/09/18	448	NWL
HZMB 054	CH34	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

Identification Number	Baseline Identification Number	Date (YYYY- MM-DD)	Sighting Number	Area Sighted
HZMB 052		2012/09/04	423	NWL
		2013/05/09	644	NWL
		2013/04/01	622	NWL
		2013/02/15	582	NWL
HZMB 051	NL213	2013/02/15	581	NWL
		2013/01/28	559	NWL
		2013/01/28	556	NWL
		2012/09/04	422	NWL
		2014/07/14	971	NWL
		2014/01/10	900	NWL
HZMB 050		2014/01/06	888	NWL
		2013/02/15	579	NWL
		2012/09/04	421	NWL
HZMB 049		2014/07/29	982	NWL
		2012/09/03	419	NWL
HZMB 048		2012/09/03	419	NWL
HZMB 047		2012/09/03	412	NWL
HZMB 046		2012/09/03	412	NWL
		2014/02/17	910	NWL
		2013/06/13	682	NWL
HZMB 045		2013/02/15	579	NWL
		2012/11/01	495	NWL
		2014/02/17	910	NWL
		2013/12/19	864	NWL
		2013/11/02	845	NWL
		2013/11/01	842	NWL
		2013/10/15	819	NWL
HZMB 044	NL98	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
HZMB 043		2012/09/03	407	NWL
		2013/12/19	863	NWL
HZMB 042	NL260	2012/11/01	495	NWL
		2011/11/07	Baseline	NWL
HZMB 041	NL24	2014/06/05	960	NEL

Identification Number	Baseline Identification Number	Date (YYYY- MM-DD)	Sighting Number	Area Sighted
		2014/02/17	910	NWL
		2013/11/02	845	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
		2011/11/06	Baseline	NEL
		2011/11/05	Baseline	NWL
		2011/11/05	Baseline	NWL
		2011/10/10	Baseline	NWL
		2014/02/17	910	NWL
		2014/01/06	893	NWL
		2013/10/15	821	NWL
HZMB 040		2013/07/08	714	NWL
		2013/07/08	711	NWL
		2013/02/21	589	NWL
		2012/11/01	493	NWL
HZMB 038		2012/11/01	490	NWL
HZMB 037		2012/11/01	490	NWL
		2012/09/03	407	NWL
HZMB 036		2012/11/01	490	NWL
		2013/02/15	579	NWL
HZMB 035		2012/11/01	490	NWL
HZMB 034		2012/11/01	493	NWL
		2013/04/01	625	NWL
HZMB 028		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
		2013/06/25	697	NWL
		2013/05/09	642	NWL
HZMB 026		2013/01/28	561	NWL
		2012/06/13	295	NEL
HZMB 025		2013/02/22	596	NEL

Contract No. HY/2010/02 Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities – Reclamation Works Monthly EM&A Report for August 2014

Identification Number	Baseline Identification Number	Date (YYYY- MM-DD)	Sighting Number	Area Sighted
		2013/02/21	591	NWL
		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
		2014/01/06	888	NWL
		2013/07/08	715	NWL
		2013/07/08	711	NWL
HZMB 023		2013/04/01	619	NWL
		2013/02/21	589	NWL
		2013/02/15	579	NWL
		2012/07/10	330	NWL
		2014/01/06	888	NWL
		2013/10/24	827	NWL
		2013/07/08	715	NWL
		2013/07/08	711	NWL
HZMB 022		2013/04/01	619	NWL
		2013/02/21	589	NWL
		2013/02/15	579	NWL
		2012/07/10	330	NWL
	NL37	2012/07/10	330	NWL
HZMB 021	INL37	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

Identification Number	Baseline Identification Number	Date (YYYY- MM-DD)	Sighting Number	Area Sighted
		2013/12/26	880	NWL
		2012/08/06	373	NWL
	NII 470	2012/06/13	295	NEL
HZMB 014	NL176	2011/11/06	Baseline	NEL
		2011/11/01	Baseline	NEL
		2011/11/01	Baseline	NEL
HZMB 013		2012/05/28	281	NWL
HZMB 012		2012/05/28	281	NWL
		2013/02/22	597	NEL
		2013/02/21	592	NEL
		2013/02/14	572	NEL
HZMB 011	EL01	2012/11/06	517	NEL
	ELUI	2012/09/19	452	NWL
		2012/03/31	261	NEL
		2011/11/02	Baseline	NWL
		2011/11/01	Baseline	NEL
HZMB 009		2012/05/28	281	NWL
HZMB 008		2012/05/28	281	NWL
HZMB 007	NL246	2012/12/10	529	NEL
		2013/02/21	594	NEL
HZMB 006		2012/12/11	539	NWL
		2012/11/01	495	NWL
		2012/03/29	250	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
HZMB 004		2012/09/04	421	NWL
		2012/03/31	262	NWL
		2013/10/15	812	NWL
		2013/06/25	697	NWL
HZMB 003	NL179	2012/12/10	529	NEL
		2012/03/31	261	NWL
		2011/11/06	Baseline	NEL
		2011/09/16	Baseline	NWL

Contract No. HY/2010/02 Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities – Reclamation Works Monthly EM&A Report for August 2014

Identification Number	Baseline Identification Number	Date (YYYY- MM-DD)	Sighting Number	Area Sighted
		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
		2013/08/21	771	NWL
		2013/06/13	681	NWL
HZMB 001	WL46	2013/04/01	617	NWL
		2013/02/14	573	NWL
		2012/03/29	250	NWL
	CH98	2011/11/02	Baseline	NWL
		2011/11/02	Baseline	NWL
	NL11	2011/11/07	Baseline	NWL
	NL12	2011/11/02	Baseline	NWL
		2011/09/23	Baseline	NWL
		2011/11/01	Baseline	NEL
	NL33	2011/11/05	Baseline	NWL
		2011/11/07	Baseline	NWL
	NL37	2011/09/16	Baseline	NWL
	NL46	2011/10/28	Baseline	NWL



HZMB 116 LL_2014-07-14 12-36-26 (4)



HZMB 121 LL_2014-07-14 11-08-30 (4)





HZMB 116 CALF



HZMB 121 LL_2014-07-14 11-11-35 (2)



Appendix L – Event Action Plan

Event / Action Plan for Air Quality

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

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

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

Event / Action Plan for Construction Noise

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

Event / Action Plan for Water Quality

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

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

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

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

Event / Action Plan for Dolphin Monitoring

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

 6. Repeat review to ensure all the dolphin protective measures are fully and properly implemented and advise on additional measures if necessary. 7. If ET proves that the source of impact is caused by any of the construction activity by the works contract, ET to arrange a meeting to discuss with IEC, ER/SOR and Contractor the necessity of additional dolphin monitoring and/or any other potential mitigation measures (e.g., consider to modify the perimeter silt curtain or consider to control/temporarily stop relevant construction activity etc.) and submit to IEC a proposal of additional dolphin monitoring and/or mitigation measures where necessary. 	advise ER/SOR of the results and findings accordingly. 5. Supervise / Audit the implementation of additional monitoring and/or any other mitigation measures and advise ER/SOR the results and findings accordingly.	 Supervise the implementation of additional monitoring and/or any other mitigation measures. 	and/or any other mitigation measures.
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Monthly Summary Waste Flow Table for <u>August / 2014 (year)</u>

Project : H	Iong Kong – Z	huhai – Macao	Bridge, Hong	Kong Bound	ary Crossing	g Facilities – R	eclamation 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	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics (see Note 2)	Chemical Waste (see Note 4)	Others, e.g. general refuse (see Note 3)
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000 m ³)
Jan-14	0.0000	0.0000	0.0000	0.0000	0.0000	1158.9828	0.0000	0.1680	0.0000	2.0000	0.0325
Feb-14	0.0000	0.0000	0.0000	0.0000	0.0000	1064.5957	0.0000	0.2520	0.0000	0.0000	0.0520
Mar-14	0.0000	0.0000	0.0000	0.0000	0.0000	1111.9982	0.0000	0.0000	0.0000	1.4000	0.1690
Apr-14	0.0000	0.0000	0.0000	0.0000	0.0000	1294.8080	0.0000	0.0000	0.0000	0.0000	0.0845
May-14	0.0000	0.0000	0.0000	0.0000	0.0000	1181.4168	0.0400	0.0240	0.0000	1.0000	0.2250
Jun-14	0.0000	0.0000	0.0000	0.0000	0.0000	752.7711	0.0000	0.1400	0.0000	8.8000	0.1690
Sub-total	0.0000	0.0000	0.0000	0.0000	0.0000	6564.5726	0.0400	0.5840	0.0000	13.2000	0.7320
Jul-14	0.0000	0.0000	0.0000	0.0000	0.0000	1252.4373	0.0030	0.0340	0.0010	0.2000	0.2145
Aug-14	0.0000	0.0000	0.0000	0.0000	0.0000	1427.9730	0.0000	0.1960	0.0000	0.0000	0.0650
Sep-14											
Oct-14											
Nov-14											
Dec-14											
Total	0.0000	0.0000	0.0000	0.0000	0.0000	9244.9829	0.0430	0.8140	0.0010	13.4000	1.0115

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

(2) Plastics refer to plastic bottles/ containers, plastic sheets/ foam 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".

Appendix N

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

Cumulative statistics on Exceedances

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

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

Cumulative statistics on Exceedances, 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 August 2014	As informed by the Contractor on 22 Aug 2014, EPD referred a complainant to this Contract on 21 August 2014, the complainant raised concern about uncovered sand barges at the sea area outside Melody Garden, Tuen Mun, sand were brought to inside of houses by wind and also causing the vicinity to be covered with sand	Closed	1	23

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

Hong Kong Boundary Crossing Facilities – Reclamation			Monthly EM&A Report for August 2014		
		and dust.			
		After investigation, there is no adequate information to conclude the observed impact is related to this Contract.			
Notification of summons	-	-	-	-	2
Successful Prosecutions	-	-	-	-	2