

China Harbour Engineering Company Limited

Contract No. HY/2010/02

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

Monthly EM&A Report for September 2014

[10/2014]

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Disclaimer

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

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Ref.: HYDHZMBEEM00_0_2334L.14 16 October 2014

Engineer's Representative Ove Arup & Partners Chief Resident Engineer's Office 5 Ying Hei Road, Tung Chung, Lantau Hong Kong By Fax (3698 5999) and By Post

Attention: Mr. Roger Marechal

Dear Sirs,

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

Contract No. HY/2010/02 HZMB HKBCF – Reclamation Work Monthly Environmental Monitoring & Audit Report for September 2014

Reference is made to the Environmental Team's submission of the Monthly Environmental Monitoring & Audit Report for September 2014 (letter ref: 60249820/C/RMKY14101602 dated 16 October 2014) copied to us by E-mail on 16 October 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,

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)

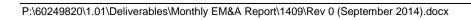
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Contract No. HY/2010/02





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 30 September 2014. As informed by the Contractor, major activities in the reporting period were:-

Marine-based Works

- Cellular structure installation
- Optimizing rubble mound seawalls
- Conforming sloping seawalls
- 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
- 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) monitoring6 sessions1-hour TSP monitoring6 sessionsNoise monitoring5 sessionsImpact water quality monitoring13 sessions

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Impact dolphin monitoring 2 surveys

Joint Environmental site inspection 4 sessions

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

Total of (4) four Action Level Exceedances of SS were recorded in this reporting month. (1) One Action Level Exceedance of SS at IS8 at mid-flood tide on 5 September 2014, (2) Two Action Level Exceedances of SS at IS5 and SR3 respectively at Mid-Ebb tide were recorded on 10 September 2014 and (1) one Action level exceedance of SS were recorded at SR10B(N) at Mid-Flood tide on 12 September 2014. After investigation, the exceedances was considered to be non-project related.

Impact Dolphin Monitoring

A total of six sightings were made, three "on effort" and three "opportunistic". Two sightings were made on the 22 September 2014 in NWL and four sightings were made on 29 September 2014 also in NWL. A total of twenty-two 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 six sightings, three groups were feeding, one in association with a purse seine trawler, two groups were travelling, one group was engaged in multiple activities, which comprised feeding and surface active behaviours. The locations of sighting with different behaviour are mapped in Figure 5d.

Two calves were recorded in September 2014, however, only one calf came close enough to photograph and it's mother has not been identified. The location of sighting with calf is mapped in Figure 5e.

Complaint, Notification of Summons and Successful Prosecution

Three environmental complaints have been received in September 2014.

As informed by the Contractor on 15 Sept 14, there is an environmental complaint received on 29 August 14 by HyD. The complainant who lives at Tower 4, Melody Garden, Tuen Mun called reflecting environmental issues arisen from many sand barges in the waters facing her apartment. According to the complainant, sand was blown into her apartment because the barges were not covered and it was worse when sand was transferred from one vessel to another on conveyor belts. After investigation, there is no adequate information to conclude the observed impact is related to this Contract.

As informed by the Contractor, a public complaint has been received by ICC on 9 September 2014 and it was referred to this Contract, the complainant raised concern about a large amount of general refuse such as food container and plastic bottles were observed on sea area off the Gold Coast, Tuen Mun. After investigation, there is no adequate information to conclude the observed impact is related to this Contract.

An air quality complaint has been received by the Contractor on 29 September 2014 via email. The complaint was first received by EPD via email on 5 September 2014 and it was referred by EPD to the HZMB HK Project Management Office (Management Office) to handle the complaint directly on 10 September 2014 following the request of the complainant. The Management Office responded to the complainant directly on 17 September 2014. Subsequently, the complainant followed up with the response given by the Management Office and complained again on 26 September 2014. This follow up complaint was referred to the project team to investigate. The complainant complained that many of the sand barges did not stay at area of reclamation works near Chek Lap Kok or at the sea area near Tuen Mun River Trade Terminal but moored in the sea area close to Melody Garden. Sand were easily blown to the inside house during days with moderate wind. The complainant suggested that, sand barges should be requested to move away from residential areas and sand barges should be provided with cover fabric and sprinkling to minimise environmental pollution caused by sand. 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 thirty-first monthly EM&A Report under the Contract No.HY/2010/02 Hong Kong-Zhuhai-Macao Bridge Hong Kong Boundary Crossing Facilities – Reclamation Works. This report presents a summary of the environmental monitoring and audit works, list of activities and mitigation measures proposed by the ET for the Project in September 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.

Table 1.1 Contact Information of Key Personnel

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

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
- Optimizing rubble mound seawalls
- Conforming sloping seawalls
- Laving 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
- 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 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 air quality monitoring was conducted at site boundary of the site office area in Works Area WA2 (AMS3B) respectively. Same baseline and Action Level for air quality, as derived from the baseline monitoring data recorded at Ho Yu College, was adopted for this alternative air quality location.
- 2.3.2 It was observed that a tree near AMS3B may affect the wind flow around the HVS located at AMS3B. With no further comment received from IEC, the HVS at AMS3B has been relocated on 8 September 2014 to slightly more than 2 meters separation from it, measured horizontally. Same baseline and Action Level for air quality, as derived from the baseline monitoring data recorded at Ho Yu College, was adopted for this alternative air quality location.
- 2.3.3 Reference is made to ET's proposal of the omission of air monitoring station (AMS 6) dated on 1 November 2012 and EPD's letter dated on 19 November 2012 regarding the conditional approval of the proposed omission of air monitoring station (AMS 6) for Contract No. HY/2010/02. The aforesaid omission of Monitoring Station AMS6 is effective since 19 November 2012.
- 2.3.4 Figure 2 shows the locations of monitoring stations. Table 2.2 describes the details of the monitoring stations.

Table 2.2 Locations of Impact Air Quality Monitoring Stations

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

*Remarks: Reference is made to EPD conditional approval of the omission of air monitoring station (AMS 6) for the 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 September 2014 is provided in Appendix F.

2.7 Results and Observations

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

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

	Average (μg/m³)	Range (μg/m³)	Action Level (μg/m³)	Limit Level (μg/m³)
AMS2	78	75 - 82	374	500
AMS3B	78	74 - 81	368	500
AMS7	78	73 - 83	370	500

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

	Average (μg/m³)	Range (μg/m³)	Action Level (μg/m³)	Limit Level (μg/m³)
AMS2	43	20 – 96	176	260
AMS3B	45	26 – 81	167	260
AMS7	46	13 – 68	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 & B&K 4231

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 data recorded at Ho Yu College) and Limit Level were adopted for this alternative noise monitoring location.
- 3.3.2 Figure 2 shows the locations of the monitoring stations. Table 3.2 describes the details of the monitoring stations.

Table 3.2 Locations of Impact Noise Monitoring Stations

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

3.4 Monitoring Parameters, Frequency and Duration

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

Table 3.3 Noise Monitoring Parameters, Frequency and Duration

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

3.5 Monitoring Methodology

3.5.1 Monitoring Procedure

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

3.5.2 Maintenance and Calibration

- (a) The microphone head of the sound level meter was cleaned with soft cloth at regular intervals.
- (b) The meter and calibrator were sent to the supplier or HOKLAS laboratory to check and calibrate at yearly intervals.
- (c) Calibration certificates of the sound level meters and acoustic calibrators are provided in Appendix E.

3.6 Monitoring Schedule for the Reporting Month

3.6.1 The schedule for construction noise monitoring in September 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.

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

	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	67	65 – 69*	70/65^

^{*+3}dB(A) Façade correction included

- 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.

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

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 and Lowrance x-4
Water Sampler	Kahlsio Water Sampler (Vertical) 2.2 L with messenger

4.3 Monitoring Parameters, Frequency and Duration

4.3.1 Table 4.2 summarises the monitoring parameters, frequency and monitoring depths of impact water quality monitoring as required in the 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 middepth 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.
- 4.4.4 The locations of these monitoring stations are summarized in Table 4.3 and depicted in Figure 3.

Table 4.3 Impact Water Quality Monitoring Stations

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



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 high-density polythene bottles. Water samples collected were well-mixed in the water sampler prior to pre-rinsing and transferring to sample bottles. Sample bottles were pre-rinsed with the same water samples. The sample bottles were then be packed in cool-boxes (cooled at 4°C without being frozen), and delivered to ALS Technichem (HK) Pty Ltd. for the analysis of suspended solids concentrations. The laboratory determination work would be started within 24 hours after collection of the water samples. ALS Technichem (HK) Pty Ltd. is a HOKLAS accredited laboratory and has comprehensive quality assurance and quality control programmes. For QA/QC procedures, one duplicate samples of every batch of 20 samples was analyzed.
- (f) The analysis method and reporting and detection limit for SS is shown in Table 4.4.

Table 4.4 Laboratory Analysis for Suspended Solids

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

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

4.5.3 Maintenance and Calibration

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

4.6 Monitoring Schedule for the Reporting Month

- 4.6.1 The schedule for impact water quality monitoring in September 2014 is provided in Appendix F.
- 4.6.2 The scheduled water quality monitoring at mid ebb on 15 September 2014 has been cancelled due to adverse weather condition.

4.7 Results and Observations

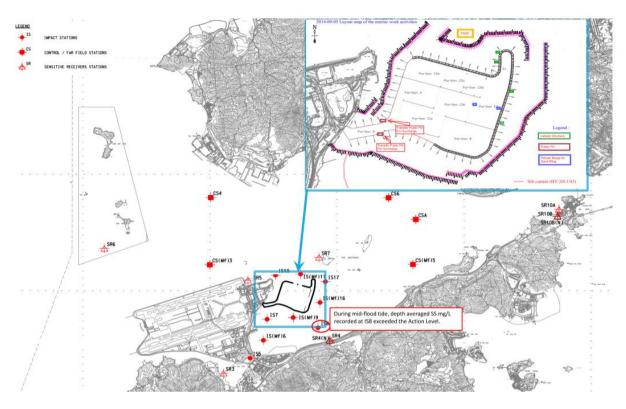
- 4.7.1 Impact water quality monitoring results and graphical presentations are provided in Appendix J.
- 4.7.2 Total of (4) four Action Level Exceedances of SS were recorded in this reporting month. (1) One Action Level Exceedance of SS at IS8 at mid-flood tide on 5 September 2014, (2) Two Action Level Exceedances of SS at IS5 and SR3 respectively at mid-ebb tide were recorded on 10 September 2014 and (1) one Action level exceedance of SS were recorded at SR10B(N) at mid-flood tide on 12 September 2014. After investigation, the exceedances was considered to be non-project related.

Table 4.5 Summary of Water Quality Exceedances

Station	Station Exceedance Level		S&M)	DO (B	ottom)	Turbidity		SS Tota		otal	
	Levei	Ebb	Flood	Ebb	Flood	Ebb	Flood	Ebb	Flood	Ebb	Flood
IS5	Action	0	0	0	0	0	0	(1) 10 Sept 14	0	1	0
	Limit	0	0	0	0	0	0	0	0	0	0
IS(Mf)6	Action	0	0	0	0	0	0	0	0	0	0
13(1111)0	Limit	0	0	0	0	0	0	0	0	0	0
IS7	Action	0	0	0	0	0	0	0	0	0	0
107	Limit	0	0	0	0	0	0	0	0	0	0
IS8	Action	0	0	0	0	0	0	0	(1) 5 Sept 14	0	1
	Limit	0	0	0	0	0	0	0	0	0	0
IS(Mf)9	Action	0	0	0	0	0	0	0	0	0	0
13(1111)3	Limit	0	0	0	0	0	0	0	0	0	0
IS10	Action	0	0	0	0	0	0	0	0	0	0
1010	Limit	0	0	0	0	0	0	0	0	0	0
IS(Mf)11	Action	0	0	0	0	0	0	0	0	0	0
10(111)11	Limit	0	0	0	0	0	0	0	0	0	0
IS(Mf)16	Action	0	0	0	0	0	0	0	0	0	0
10(111)10	Limit	0	0	0	0	0	0	0	0	0	0
IS17	Action	0	0	0	0	0	0	0	0	0	0
1017	Limit	0	0	0	0	0	0	0	0	0	0
SR3	Action	0	0	0	0	0	0	(1) 10 Sept 14	0	1	0
	Limit	0	0	0	0	0	0	0	0	0	0
SR4(N)	Action	0	0	0	0	0	0	0	0	0	0
SK4(IV)	Limit	0	0	0	0	0	0	0	0	0	0
SR5	Action	0	0	0	0	0	0	0	0	0	0
313	Limit	0	0	0	0	0	0	0	0	0	0
SR6	Action	0	0	0	0	0	0	0	0	0	0
ONO	Limit	0	0	0	0	0	0	0	0	0	0
SR7	Action	0	0	0	0	0	0	0	0	0	1
5117	Limit	0	0	0	0	0	0	0	0	0	0
SR10A	Action	0	0	0	0	0	0	0	0	0	0
51110/1	Limit	0	0	0	0	0	0	0	0	0	0
SR10B (N)	Action	0	0	0	0	0	0	0	(1) 12 Sept 14	0	1
(11)	Limit	0	0	0	0	0	0	0	0	0	0
Total	Action	0	0	0	0	0	0	2	2		4
	Limit	0	0	0	0	0	0	0	0		0

Note: S: Surface; and M: Mid-depth.

4.7.3 (1) One Action Level Exceedance of SS (27.4mg/L) was recorded at IS8 during flood tide on 5 September 2014.



- 4.7.3.1 For marine works, marine filling was conducted at portion E2 during flood at area behind cellular structures on 5 September 2014. Also refer to layout map above.
- 4.7.3.2 Exceedance was not due to marine based construction works of the Project because:
- 4.7.3.3 As informed by the Contractor, filling was conducted on 3, 5 and 8 September 2014 at Portion E2, 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.
- 4.7.3.4 Photo record of sea condition taken during flood tide at north of HKBCF Reclamation Works near IS8 on 5 September 2014.



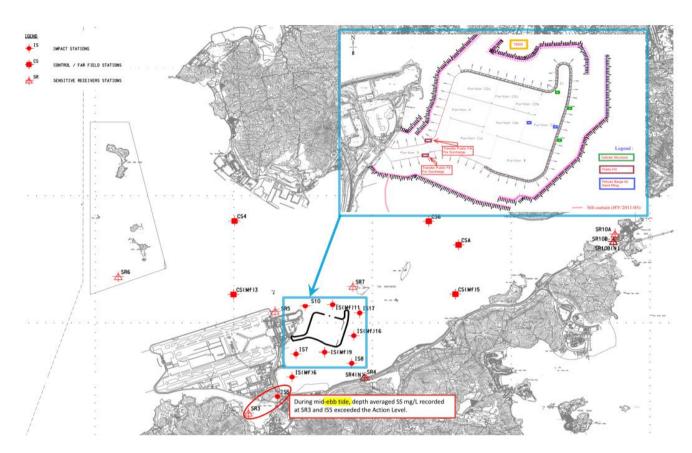
4.7.3.5 Construction activities were reviewed, almost the same marine works were conducted at almost the same location on 3, 5 and 8 September 2014, but no SS exceedance was recorded on 3 and 8 September 2014. This indicates that the SS exceedance was unlikely to attribute to marine works of this Contract.



- 4.7.3.6 IS(Mf)9 and IS(Mf)16 are located closer to the active works than monitoring station IS8. Depth Averaged Suspended Solids (SS) values (in mg/L) recorded during the flood tide on the same day at IS(Mf)9 and IS(Mf)16 were below the Action and Limit Level which shows that the water quality closer to active works was not adversely affected.
- 4.7.3.7 The monitoring location of monitoring station IS8 are considered located upstream to the active works of this project during flood tide. Therefore it was unlikely that the exceedance recorded at IS8 was due to active construction activities of this project.
- 4.7.3.8 Turbidity level (NTU) result recorded on 5 September 2014 at IS8 during flood tide is 24.5 NTU which is below the Action and Limit Level, this indicates turbidity level was not adversely affected.
- 4.7.3.9 The exceedance was likely due to local effects in the vicinity of IS8.
- 4.7.3.10 For action required under the action plan, refer to EM&A manual of this Contract for Event and Action Plan for Water Quality.
- 4.7.3.11 Action taken under the action plan:
- 1. Not applicable as SS was not measured in situ:
- 2. After considering the above mentioned investigation results, it appears that it was unlikely that the SS exceedance was attributed to active construction activities of this project;
- 3. IEC, contractor and ER were informed via email;
- 4. Monitoring data, all plant, equipment and Contractor's working methods were checked;
- 5-7. Since it is considered that the SS exceedance is 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 As informed by the Contractor, maintenance work of the silt curtain is on-going and carried out by the Contractor on a daily basis.

A=COM

- 4.7.4 (2) Two Action Level Exceedances of SS (26mg/L and 32.3mg/L) were recorded at IS5 and SR3 during ebb tide on 5 September 2014.
- 4.7.4.1 For marine works, marine filling was conducted at portion E2 during ebb tide at area behind cellular structures on 10 September 2014.



- 4.7.4.2 Exceedances were not due to marine based construction works of the Project because:
- 4.7.4.3 As informed by the Contractor, filling was conducted on 8, 10 and 12 September 2014 at Portion E2, 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.
- 4.7.4.4 Photo record of sea condition taken at South of HKBCF Reclamation Works near IS5 and SR3 on 10 September 2014.



- 4.7.4.5 Construction activities were reviewed, almost the same marine works were conducted at almost the same location on 8, 10 and 12 September 2014, but no SS exceedance was recorded at IS5 or SR3 on 8 and 12 September 2014. This indicates that the SS exceedances were unlikely to attribute to marine works of this Contract.
- 4.7.4.6 IS7 and IS(Mf)6 are located closer to the active works than monitoring station IS5 and SR3. Depth Averaged Suspended Solids (SS) values (in mg/L) recorded during the ebb tide on the same day at IS7 and IS(Mf)6 were below the Action and Limit Level which shows that the water quality closer to active works was not adversely affected. Therefore it was unlikely that the SS exceedances recorded at IS5 and SR3 were due to active construction activities of this project.
- 4.7.4.7 Turbidity level (NTU) result recorded on 10 September 2014 at IS5 and SR3 during ebb tide are 22.3 NTU and 23.9 NTU respectively which are below the Action and Limit Level, this indicates turbidity level was not adversely affected.
- 4.7.4.8 The exceedances were likely due to local effects in the vicinity of IS5 and SR3.
- 4.7.4.9 Action taken under the action plan:
- 1. Not applicable as SS was not measured in situ:
- 2. After considering the above mentioned investigation results, it appears that it was unlikely that the SS exceedances were attributed to active construction activities of this project;
- 3. IEC, contractor and ER were informed via email;
- 4. Monitoring data, all plant, equipment and Contractor's working methods were checked;
- 5-7. Since it is considered that the SS exceedances are unlikely to be project related, as such, actions 5 7 under the EAP are not considered applicable.
- 4.7.4.10 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.
- 4.7.4.11 As informed by the Contractor, maintenance work of the silt curtain is on-going and carried out by the Contractor on a daily basis.

- 4.7.5 (1) One Action Level Exceedance of SS (24.5mg/L) was recorded at IS10B(N) during ebb tide on 12 September 2014.
- 4.7.5.1 For marine works, marine filling was conducted at portion E2 during flood at area behind cellular structures on 12 September 2014. Also refer to layout map attached.
- 4.7.5.2 Exceedance was not due to marine based construction works of the Project because:
- 4.7.5.3 IS(Mf)11 and IS10 are located downstream and closer to the active works than monitoring station SR10B(N) during flood tide. Depth Averaged Suspended Solids (SS) values (in mg/L) recorded during flood tide on the same day at IS(Mf)11 and IS10 were below the Action and Limit Level which indicates project work is unlikely to contribute to the action level exceedance recorded at SR10B(N).
- 4.7.5.4 The monitoring location of monitoring station SR10B(N) are considered upstream and remote to the active works of this project during flood tide. Therefore it was unlikely that the exceedance recorded at SR10B(N) during flood tide was due to active construction activities of this project.
- 4.7.5.5 The exceedance was likely due to local effects in the vicinity of SR10B(N).
- 4.7.5.6 Action taken under the action plan:
- 1. Not applicable as SS was not measured in situ;
- 2. After considering the above mentioned investigation results, it appears that it was unlikely that the SS exceedance was attributed to active construction activities of this project;
- 3. IEC, contractor and ER were informed via email;
- 4. Monitoring data, all plant, equipment and Contractor's working methods were checked;
- 5-7. Since it is considered that the SS exceedance is unlikely to be project related, as such, actions 5 7 under the EAP are not considered applicable.
- 4.7.5.7 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.
- 4.7.5.8 As informed by the Contractor, maintenance work of the silt curtain is on-going and carried out by the Contractor on a daily basis.
- 4.7.6 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.

Table 5.1 Dolphin Monitoring Equipment

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

5.3 Monitoring Frequency and Conditions

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

5.4 Monitoring Methodology and Location

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

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

	HK Grid	System	Long Lat i	in WGS84
ID	Х	Υ	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	22.360610
21	805476	827081	113.877878	22.382668
21	805476	830562	113.877811	22.414103
22	806464	824033	113.887520	22.355164
22	806464	829598	113.887416	22.405423
23	814559	821739	113.966142	22.334574
23	814559	824768	113.966101	22.361920

*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 September 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 21st, 22th, 29th and 30th September 2014. A total of 220.3 km of transect line was conducted under favourable conditions. The total length travelled was also 220.3 km, 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 September 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.

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

Survey	Date	Area	Beaufort	Effort (km)	Total Distance Travelled (km)
	09/21/2014	NWL	1	3.1	
	09/21/2014	NWL	2	11.7	52.3
1	09/21/2014	NEL	1	29.9	32.3
ı	09/21/2014	NEL	2	7.6	
	09/22/2014	NWL	1	21.2	58.1
	09/22/2014	NWL	2	36.9	30.1
	09/29/2014	NWL	1	26.2	63.2
	09/29/2014	NWL	2	37	03.2
2	09/30/2014	NWL	1	7.5	
2	09/30/2014	NWL	2	2.5	46.7
	09/30/2014	NEL	1	5.9	70.7
	09/30/2014	NEL	2	30.8	
	ove conduct under		TOTAL in Sep		220.3

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

Table 5.4 Impact Dolphin Monitoring Survey Details September 2014

Date	Location	No. Sightings "on effort"	No. Sightings "opportunistic"
09/21/2014	NW L	0	0
09/21/2014	NEL	0	0
09/22/2014	NW L	0	2
09/22/2014	NEL	0	0
09/29/2014	NW L	3	1
09/29/2014	NEL	0	0
09/30/2014	NW L	0	0
09/30/2014	NEL	0	0
	TOTAL in September 2014	3	3

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

Encounter Rate of Number of Dolphin Sightings (STG)*									
Date	NEL Track (km)	NWL Track (km)	NEL Sightings	NWL Sightings	NEL Encounter Rate	NWL Encounter Rate			
21 & 22/09/2014	37.5	72.9	0	0	0.0	0.0			
29 & 30/09/2014	36.7	73.2	0	3	0.0	4.1			
	Encounter R	Rate of Total	al Number of	f Dolphins (A	ANI)**				
NEL NWL Track Track NEL NWL Encounter Encounter Date (km) (km) Dolphins Dolphins Rate Rate									
21 & 22/09/2014	37.5	72.9	0	0	0.0	0.0			
29 & 30/09/2014	36.7	73.2	0	11	0.0	15.0			

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

- 5.7.2 A total of six sightings were made, three "on effort" and three "opportunistic". Two sightings were made on the 22 September 2014 in NWL and four sightings were made on 29 September 2014 also in NWL. A total of twenty-two 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 six sightings, three groups were feeding, one in association with a purse seine trawler, two groups were travelling, one group was engaged in multiple activities, which comprised feeding and surface active behaviours. The locations of sighting with different behaviour are mapped in Figure 5d.
- 5.7.4 Two calves were recorded in September 2014, however, only one calf came close enough to photograph and it's mother has not been identified. The location of sighting with calf is mapped in Figure 5e.
- 5.7.5 Photo ID analyses for August 2014 is presented in Appendix K.
- 5.7.6 There were five re-sightings in August 2014 HZMB 001; 022; 051; 098 and 116. Two new individuals were added to the catalogue HZMB 122 and 123. . HZMB 001 was last sighted in August 2013. This is the sixth time this individual has been sighted since March 2012 and always in NWL. HZMB 022 has been sighted nine times since July 2012, again always in NWL, and this individual was last seen in January 2014. HZMB 051 has been seen eight times since September 2012 and was last seen in May 2013, all times in NWL. HZMB 098 has been seen seven times during impact monitoring, initially in May 2013 and last seen in January 2014 and, again, always in NWL. HZMB 116 is a female and has a calf. She has been seen four times, initially in December 2013 and twice over the last few months, always in NWL

5.7.7 Noteworthy Observation¹:

AECOM

^{**} 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.

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.

- 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 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 northern end of line 10 and line 23 on 21 Sept 2014 and 21 Sept 2014 respectively. Anchored vessels affected Southern end of line 11 on 21 Sept 2014, anchored vessels affected northern end of line 10 on 30 Sept 2014. 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 Several new projects are ongoing at the southern ends of lines 3, 4, 5 and 7. These works partially blocked some of the survey view. As reported last month, there are no fixed structures, however, the platforms 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.
- 5.7.7.7 A severely injured dolphin was observed on 22 September 2014 at the southern end of line 1 and a call was made immediately to the designated AFCD hotline. The injured dolphin was lost from sight and the survey was then continued.
- 5.7.7.8 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).
- 5.7.7.9 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.

5.7.8 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 4, 12, 18 and 25 September 2014.
- 6.1.2 Particular observations during the site inspections are described below:

Air Quality

- 6.1.3 Filling was observed conducted by barge, the Contractor was reminded to keep the filling material wet or lower the conveyor belt to prevent generation of fugitive dust. (Reminder)
- 6.1.4 Dust was observed when truck passed a slope; the Contractor was reminded to enhance the dust control measures to prevent generation of fugitive dust. The Contractor enhanced the dust control measures to prevent generation of fugitive dust. (Closed)

Noise

6.1.5 No adverse observation was identified in the reporting month.

Water Quality

- 6.1.6 Muddy water was observed at land area where ground investigation works was conducted, the Contractor was reminded to prevent muddy water to be released out of the site boundary. (Reminder)
- 6.1.7 Defects (hole and deformed frame) were observed within frame of a drip trays. The Contractor was reminded to provide proper mitigation measure such as drip tray without defect to PMEs. The Contractor provided proper mitigation measure such as drip tray without defect to PMEs. (Closed)
- 6.1.8 Oil drum was observed without drip tray. The Contractor was reminded to provide mitigation measures such as drip tray or bunding to oil drum. The Contractor was provided mitigation measures such as drip tray or bunding to oil drum. (Closed)
- 6.1.9 Defects such as disconnection and insufficient overlapping of the perimeter silt curtain have been observed. The Contractor was advised to rectify the defects such as disconnection and insufficient overlapping of the perimeter silt curtain as soon as possible. The Contractor rectified the defects such as disconnection and insufficient overlapping of the perimeter silt curtain as soon as possible. (Closed)

Chemical and Waste Management

- 6.1.10 General refuses observed at cell 56 and on water of arc cell between cell 55 and 56 and near a container office. The Contractor was reminded to clear the general refuses and keep the site clean and tidy. The Contractor cleared the general refuses and kept the site clean and tidy. (Closed)
- 6.1.11 General refuses was observed near a container office. The Contractor was reminded to clear the general refuses and keep the site clean and tidy. The Contractor cleared the general refuses and keeps the site clean and tidy. (Closed)
- 6.1.12 Battery and oil drum were placed on bare ground without drip tray. The Contractor was reminded to provide mitigation measures such as drip tray such that spillage/leakage can be easily collected. The Contractor provided mitigation measures such as drip tray so that spillage/leakage can be easily collected. (Closed)



6.1.13 Water was observed accumulated inside drip tray on barge SHB209. The Contractor was reminded to clear the water accumulated inside drip tray regularly. The Contractor cleared the water accumulated inside drip tray. (Closed)

Landscape and Visual Impact

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

Others

- 6.1.15 The text on the EP was blurred and cannot be seen clearly on barge SHB209. The Contractor was reminded to replace the copy of the EP so that the text of the EP can be shown clearly. The Contractor replaced the copy of the EP so that the text of the EP can be shown clearly. (Closed)
- 6.1.16 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, 1,370,510.8m³ of fill were imported for the Project use in the reporting period. 224kg of paper/cardboard packaging and 136.5m³ of general refuse were generated and disposed of in the reporting period. Monthly summary of waste flow table is detailed in Appendix M.
- 6.2.3 The Contractor is advised to properly maintain on site C&D materials and wastes storage, collection, sorting and recording system, dispose of C&D materials and wastes at designated ground and maximize reuse / recycle of C&D materials and wastes. The Contractor is reminded to properly maintain the site tidiness and dispose of the wastes accumulated on site regularly and properly.
- 6.2.4 The Contractor is reminded that chemical waste should be properly treated and stored temporarily in designated chemical waste storage area on site in accordance with the Code of Practice on the Packaging, Labeling and Storage of Chemical Wastes.

6.3 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 Summary of Environmental Licensing and Permit Status

Statutory Reference	License/ Permit	License or Permit No.	Valid I	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		
LINO	Permit	EP- 354/2009/B	28/01/2014 N/A		1 '28/01/'2017 NI/A		Tiyo	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-RS0990- 14	18/09/2014	24/12/2014	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

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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.
- Frequency of watering per day on exposed soil was checked; with reference to the record provided by 6.4.6 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.

6.5 Summary of Exceedances of the Environmental Quality Performance Limit

- All 1-Hour TSP and 24-hour TSP results were below the Action and Limit Level in the reporting month. 6.5.1
- 6.5.2 For construction noise, no exceedance was recorded at all monitoring stations in the reporting period.
- Total of (4) four Action Level Exceedances of SS were recorded in this reporting month. (1) One Action 6.5.3 Level Exceedance of SS at IS8 at mid-flood tide on 5 September 2014. (2) Two Action Level Exceedances of SS at IS5 and SR3 respectively at Mid-Ebb tide were recorded on 10 September 2014 and (1) one Action level exceedance of SS were recorded at SR10B(N) at Mid-Flood tide on 12 September 2014. After investigation, the exceedances was considered to be non-project related.
- 6.5.4 Cumulative statistics on exceedance is provided in Appendix N.

6.6 Summary of Complaints, Notification of Summons and Successful Prosecutions

- The Environmental Complaint Handling Procedure is annexed in Figure 6. 6.6.1
- 6.6.2 Three environmental complaints have been received in September 2014.
- As informed by the Contractor on 15 Sept 14, there is an environmental complaint received on 29 6.6.3 August 14 by HyD. The complainant who lives at Tower 4, Melody Garden, Tuen Mun called reflecting environmental issues arisen from many sand barges in the waters facing her apartment. According to the complainant, sand was blown into her apartment because the barges were not covered and it was worse when sand was transferred from one vessel to another on conveyor belts.

6.6.3.1 Investigation Actions:

- 1hr TSP and 24hrs TSP monitoring data of 4 August to 1 September 2014 have been reviewed.
- Site inspections were conducted jointly on 28 August and 4 September 2014 with RSS and the Contractor.

6.6.3.2 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 and early September 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).

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Photo record below shows that sand barges were not covered but they are equipped with watering
equipment and in order to prevent generation of fugitive dust, 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 and 4
 September 2014, but no generation of fugitive dust was observed to be caused by barges loaded with
 filling material. Transfer of sand between vessels was not observed.
- 6.6.3.3 After investigation, there is no adequate information to conclude the observed impact is related to this Contract.
- 6.6.3.4 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.

6.6.4 As informed by the Contractor, a public complaint has been received by ICC on 9 September 2014 and it was referred to this Contract, the complainant raised concern about a large amount of general refuse such as food container and plastic bottles were observed on sea area off the Gold Coast, Tuen Mun.

6.6.4.1 Investigation actions:

- Site inspections were conducted jointly on 25 September 2014 with RSS and the Contractor and 18 jointly with RSS, IEC and the Contractor
- Site visit to the sea area between HKBCF Reclamation Works and Tune Mun was conducted on 22 September 2014.
- Checking sample of training record

6.6.4.2 Investigation findings:

 There is no sufficient information provided by the complainant to make sure that the general refuse such as food container and plastic bottles are related to this project.

Photo of site condition was reviewed, temporary refuse collection facility/ appropriate containers such as rubbish bins were provided by the Contractor on reclamation and vessel to collect general refuses,

please refer to the photo below:



• Photo records shows collection of general refuse by workers on a regular basis:







- Site inspections were conducted on 18 September 2014 jointly with RSS, IEC and the Contractor and jointly on 25 September 2014 with RSS and the Contractor, but no general refuse was observed on sea area.
- In addition, site visit to the sea area between HKBCF Reclamation Works and Tune Mun was conducted on 22 September 2014. No general refuse was observed to flow from HKBCF Reclamation Works to Tune Mun area. Also refer to photo record below:
- 6.6.4.3 Below photo shows condition of the sea area facing Tuen Mun on 22 September 14.



6.6.4.4 Below photo shows condition of the sea area facing HKBCF Reclamation Works on 22 September 14.



- 6.6.4.5 After investigation, there is no adequate information to conclude the observed impact is related to this Contract.
- 6.6.4.6 The Contractor was advised to ensure to continue the provision of waste mitigation measures to barges on reclamation land and vessels.
- 6.6.4.7 The Contractor was recommended that the site and surroundings shall be kept tidy and litter free. General refuse generated on-site should be stored in enclosed bins or compaction units separately from construction and chemical wastes.

- 6.6.5 An air quality complaint has been received by the Contractor on 29 September 2014 via email. The complaint was first received by EPD via email on 5 September 2014 and it was referred by EPD to the HZMB HK Project Management Office (Management Office) to handle the complaint directly on 10 September 2014 following the request of the complainant. The Management Office responded to the complainant directly on 17 September 2014.
- 6.6.5.1 Subsequently, the complainant followed up with the response given by the Management Office and complained again on 26 September 2014. This follow up complaint was referred to the project team to investigate. The complainant complained that many of the sand barges did not stay at area of reclamation works near Chek Lap Kok or at the sea area near Tuen Mun River Trade Terminal but moored in the sea area close to Melody Garden. Sand were easily blown to the inside house during days with moderate wind.
- 6.6.5.2 The complainant suggested that, sand barges should be requested to move away from residential areas and sand barges should be provided with cover fabric and sprinkling to minimise environmental pollution caused by sand.

6.6.5.3 Investigation Actions:

- 1hr TSP and 24hrs TSP monitoring data of September 2014 have been reviewed.
- Site inspections were conducted jointly with RSS, IEC and the Contractor on 18 September 2014 and jointly with RSS and the Contractor on 25 September 2014.

6.6.5.4 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 September 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).

Photo record below shows that sand barges were not covered but they are equipped with watering
equipment and in order to prevent generation of fugitive dust, watering equipment was used to keep
the sand filling material wet.



- In addition, site inspections were conducted jointly with RSS, IEC and the Contractor on 18 September 2014 and jointly with RSS and the Contractor on 25 September 2014, but no generation of fugitive dust was observed to be caused by barges loaded with filling material.
- After investigation, there is no adequate information to conclude the observed impact is related to this Contract.

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- 6.6.5.5 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.
- 6.6.6 No notification of summons and successful prosecutions was received in the reporting period.
- 6.6.7 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
- Conforming sloping seawalls
- 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
- 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

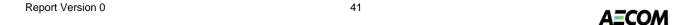
^{*}Construction activities in September & October 2014 will be changed subject to works progress.

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 October 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 Total of (4) four Action Level Exceedances of SS were recorded in this reporting month. (1) One Action Level Exceedance of SS at IS8 at mid-flood tide on 5 September 2014, (2) Two Action Level Exceedances of SS at IS5 and SR3 respectively at Mid-Ebb tide were recorded on 10 September 2014 and (1) one Action level exceedance of SS were recorded at SR10B(N) at Mid-Flood tide on 12 September 2014. After investigation, the exceedances was considered to be non-project related.
- 8.1.5 A total of six sightings were made, three "on effort" and three "opportunistic". Two sightings were made on the 22 September 2014 in NWL and four sightings were made on 29 September 2014 also in NWL. A total of twenty-two 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 six sightings, three groups were feeding, one in association with a purse seine trawler, two groups were travelling, one group was engaged in multiple activities, which comprised feeding and surface active behaviours. The locations of sighting with different behaviour are mapped in Figure 5d.
- 8.1.7 Two calves were recorded in September 2014, however, only one calf came close enough to photograph and it's mother has not been identified. The location of sighting with calf is mapped in Figure 5e.
- 8.1.8 Environmental site inspection was carried out 4 times in September 2014. Recommendations on remedial actions were given to the Contractors for the deficiencies identified during the site audits.
- 8.1.9 Three environmental complaints have been received in September 2014.
- 8.1.10 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

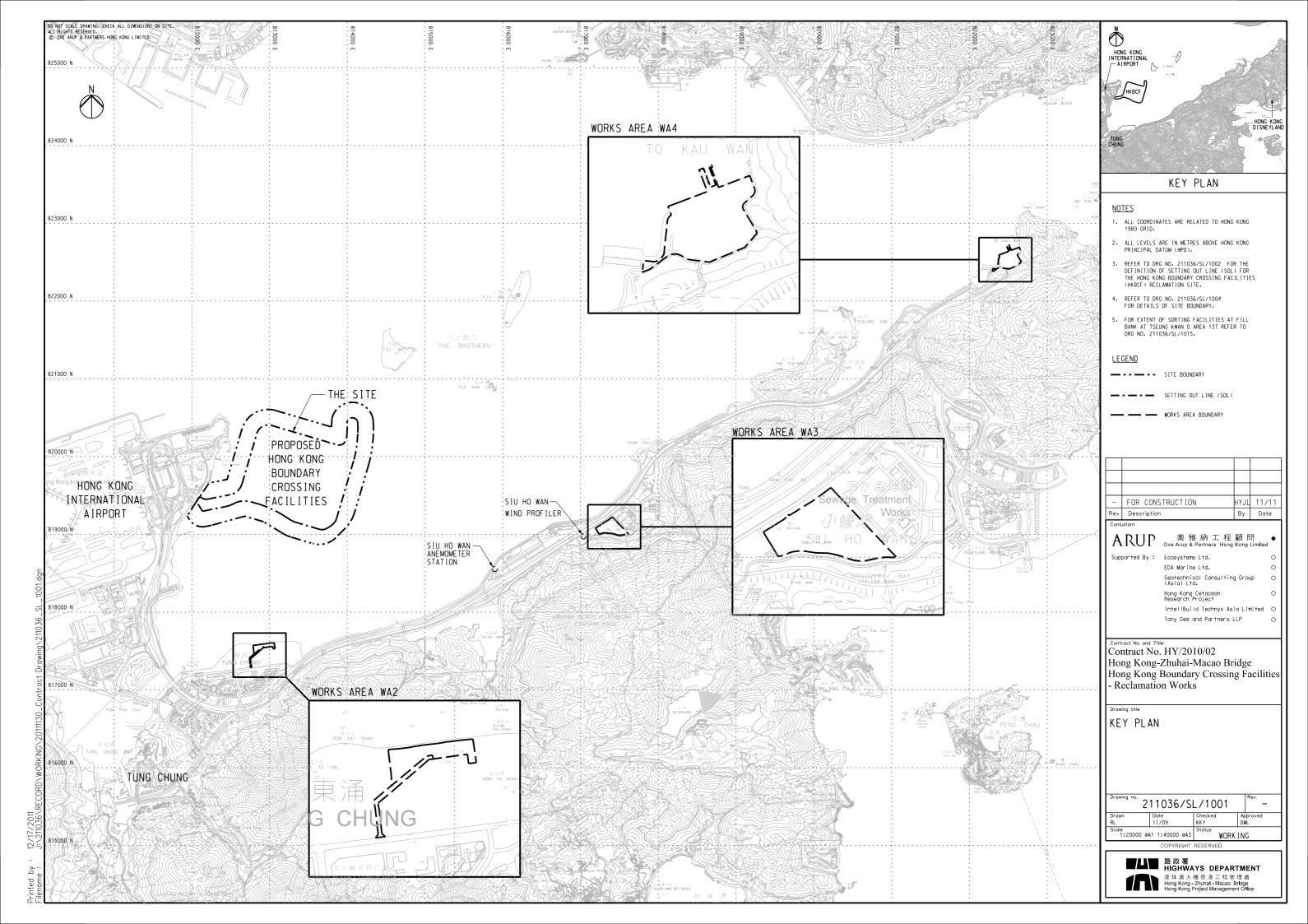
- Regular review and maintenance of silt curtain systems, drainage systems and desilting facilities in order to make sure they are functioning effectively.
- Construction of seawall should be completed as early as possible.
- Regular inspect and review the loading process from barges to avoid splashing 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.

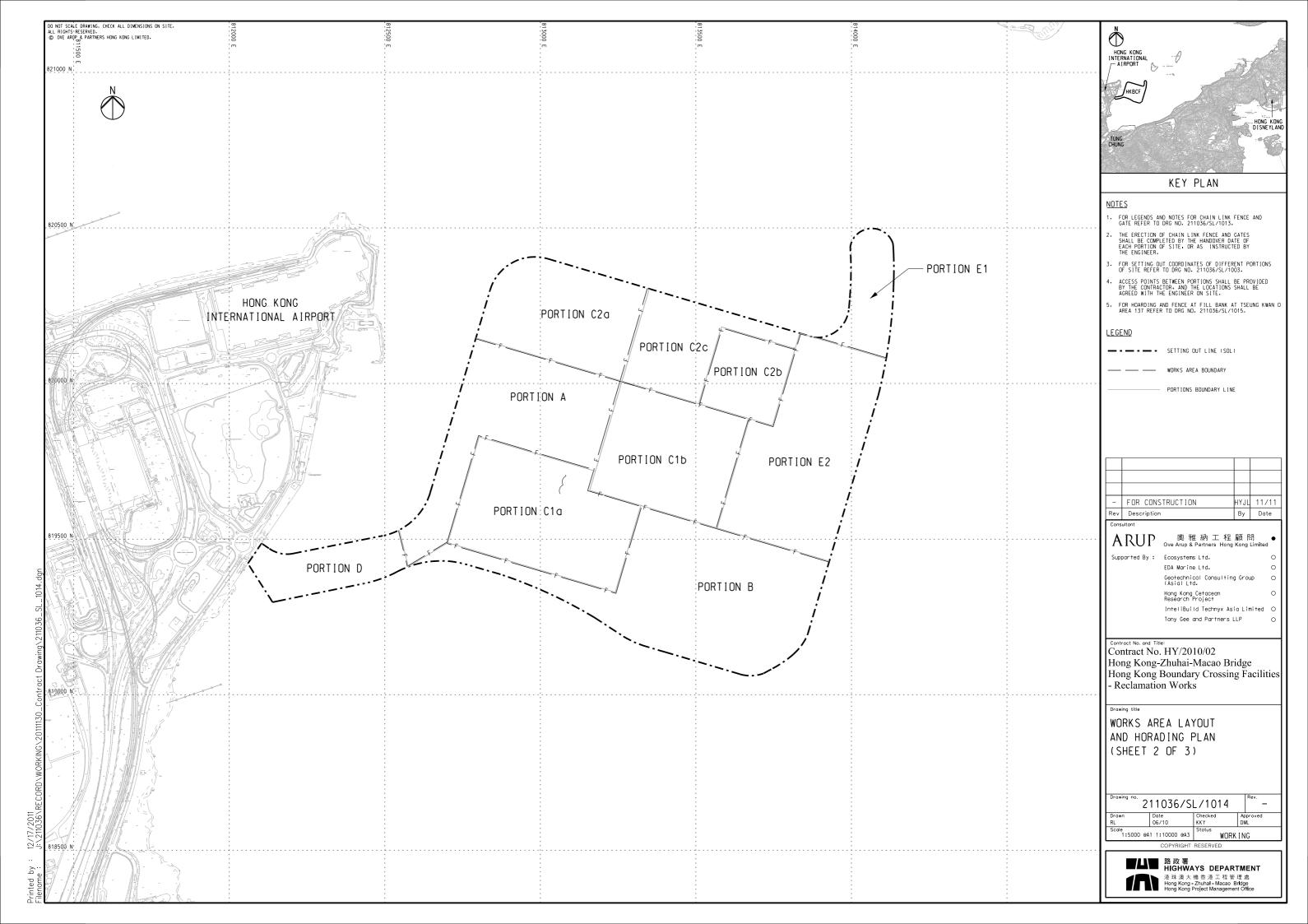
Chemical and Waste Management

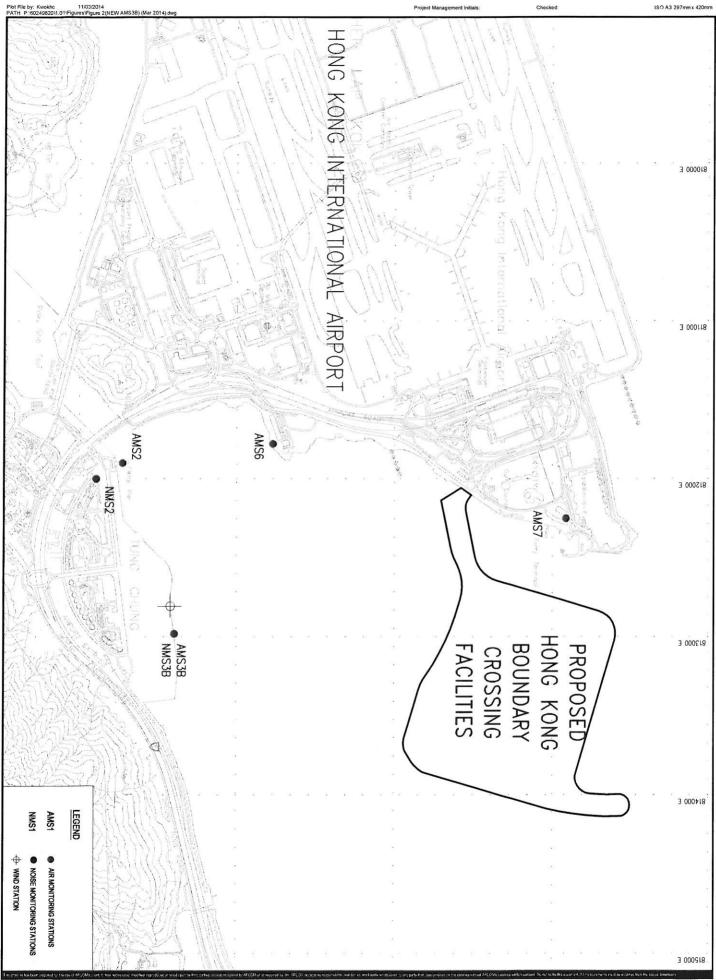
- All types of wastes, both on land and floating in the sea, should be collected and sorted properly
 and disposed of timely and properly. They should be properly stored in designated areas within
 works areas temporarily.
- All chemical containers, batteries and oil drums should be properly stored and 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

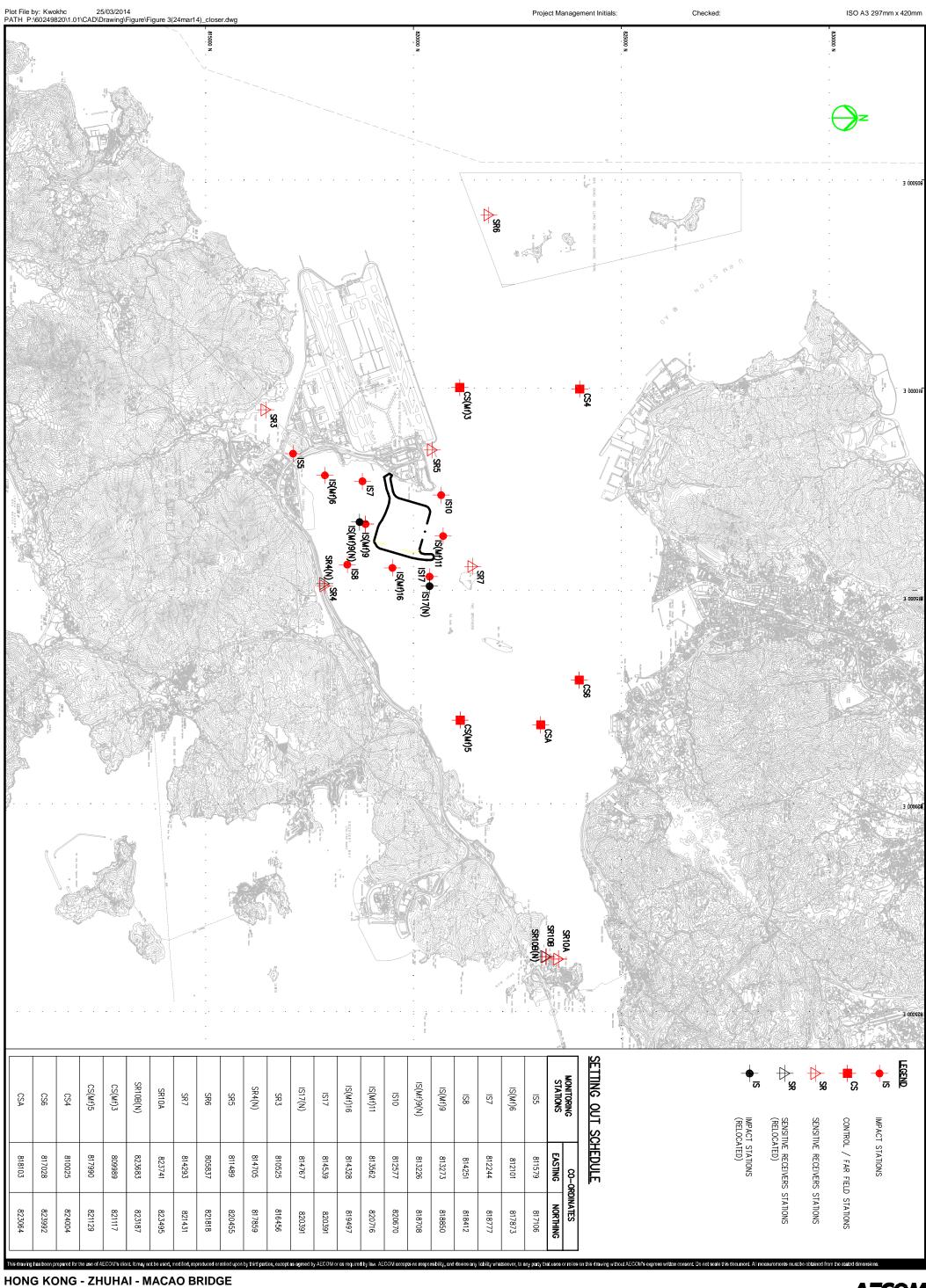
- All existing, retained/transplanted trees at the works areas should be properly fenced off and regularly inspected.
- Control night-time lighting and glare by hooding all lights.

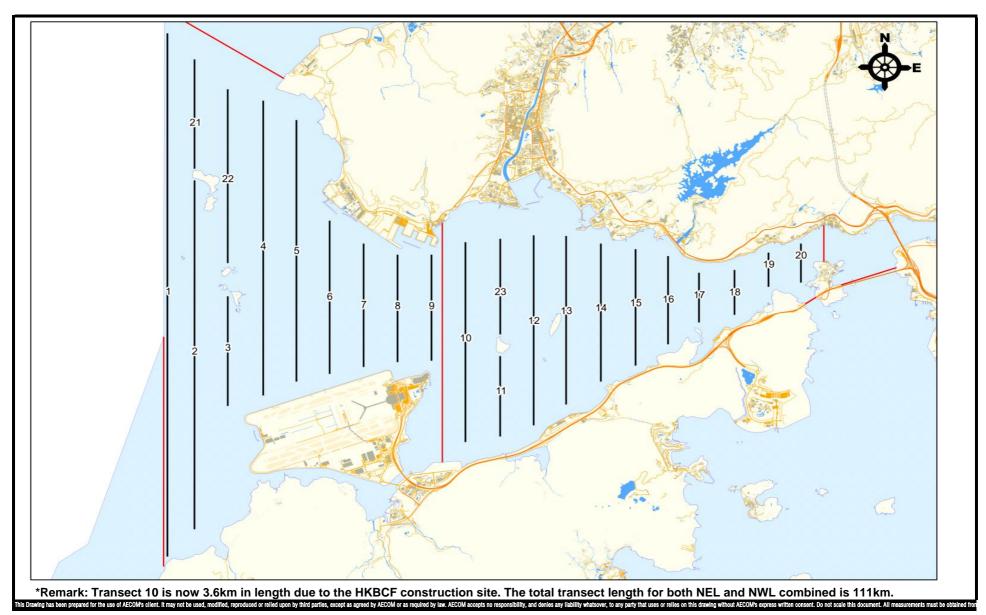






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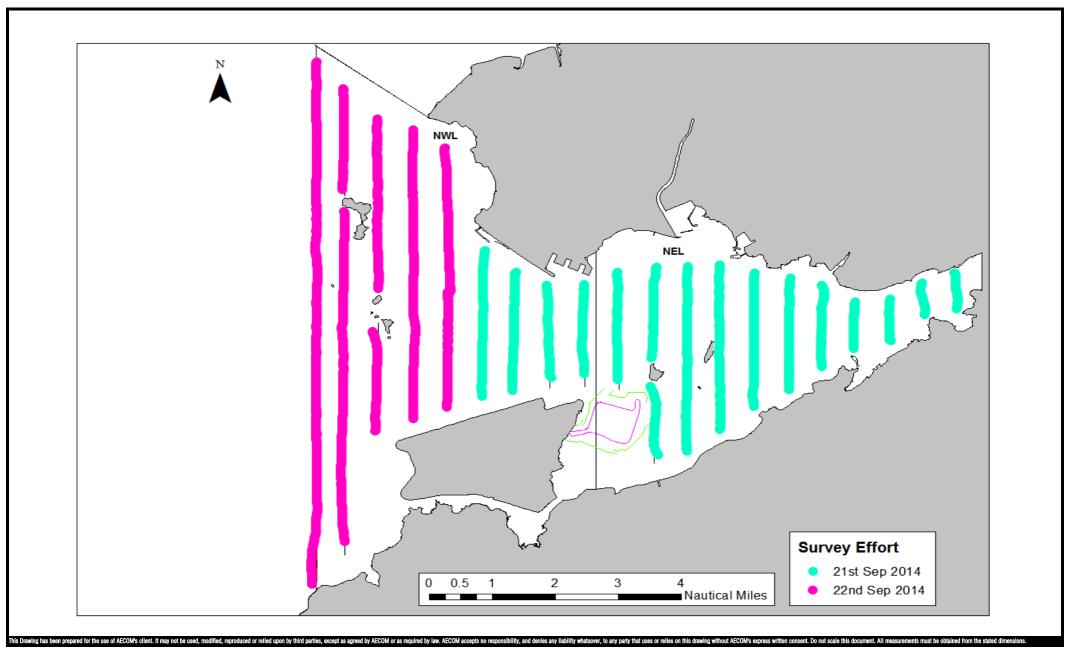




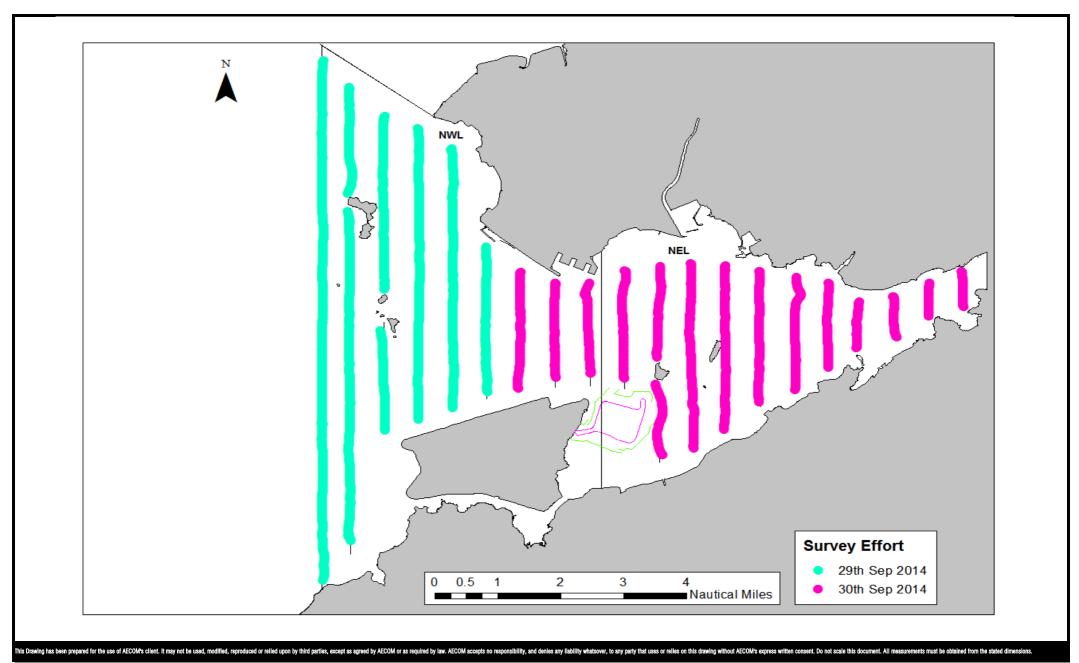
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Project No.: 60249820 Date: January 13

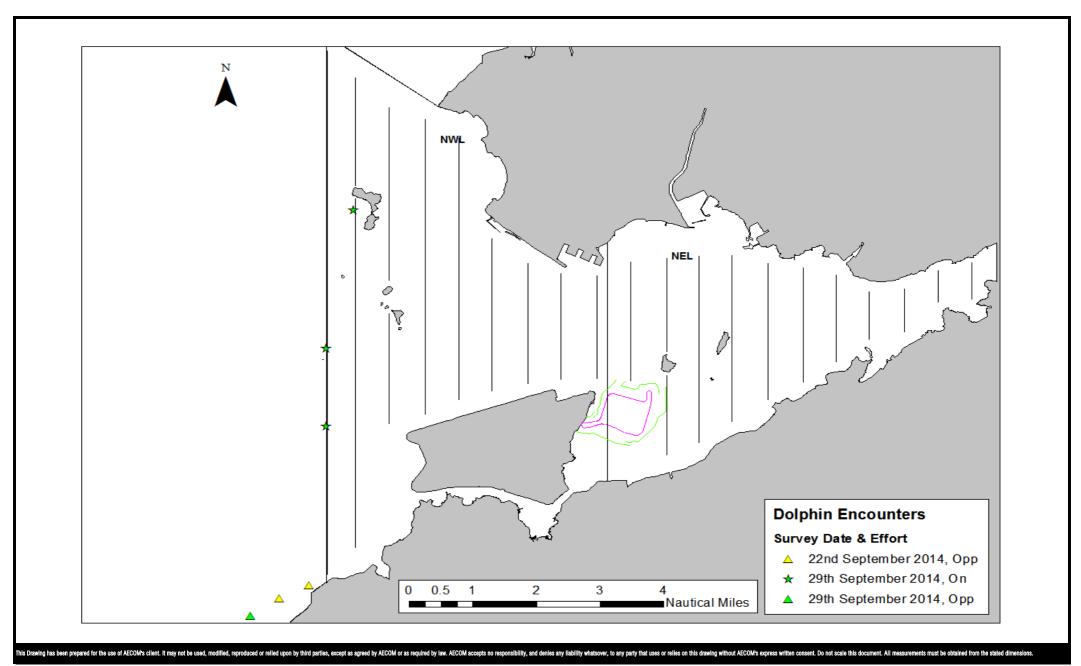




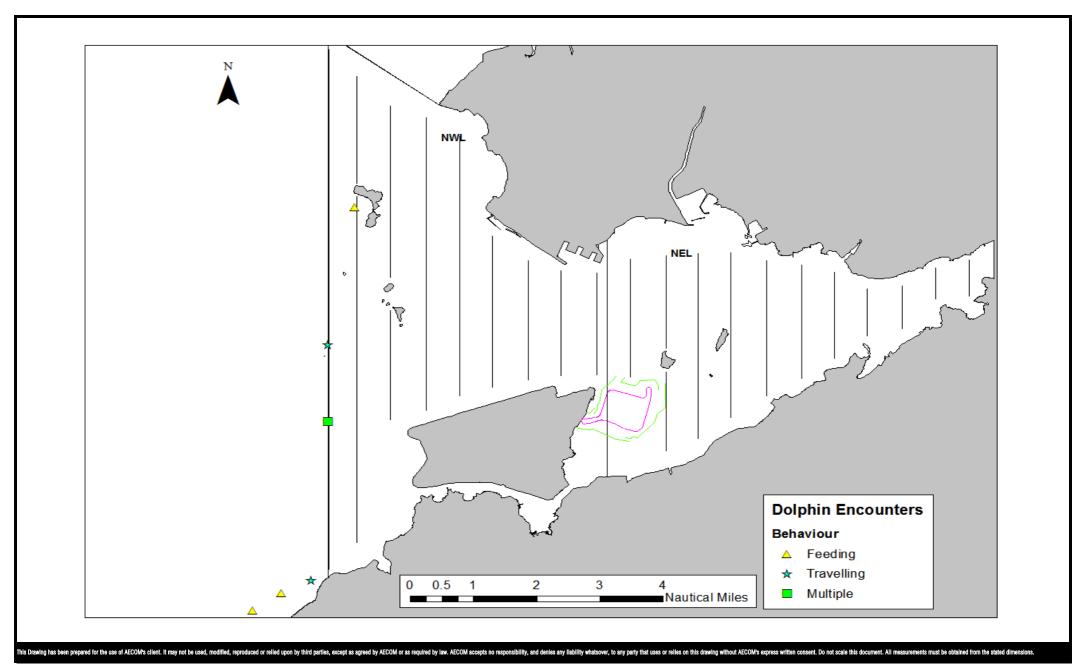
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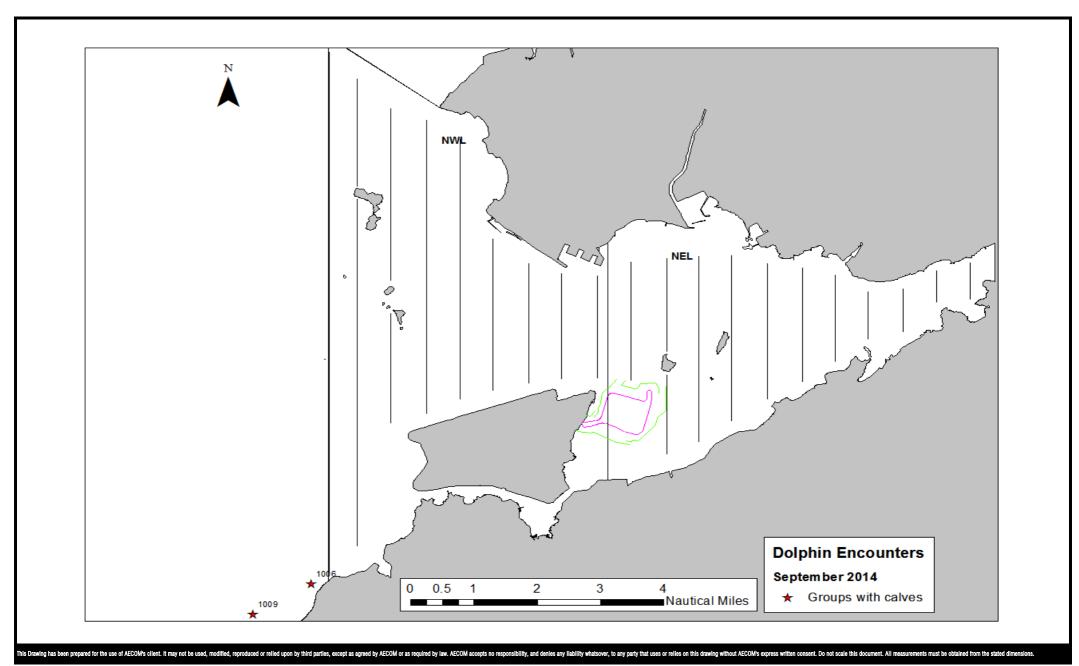
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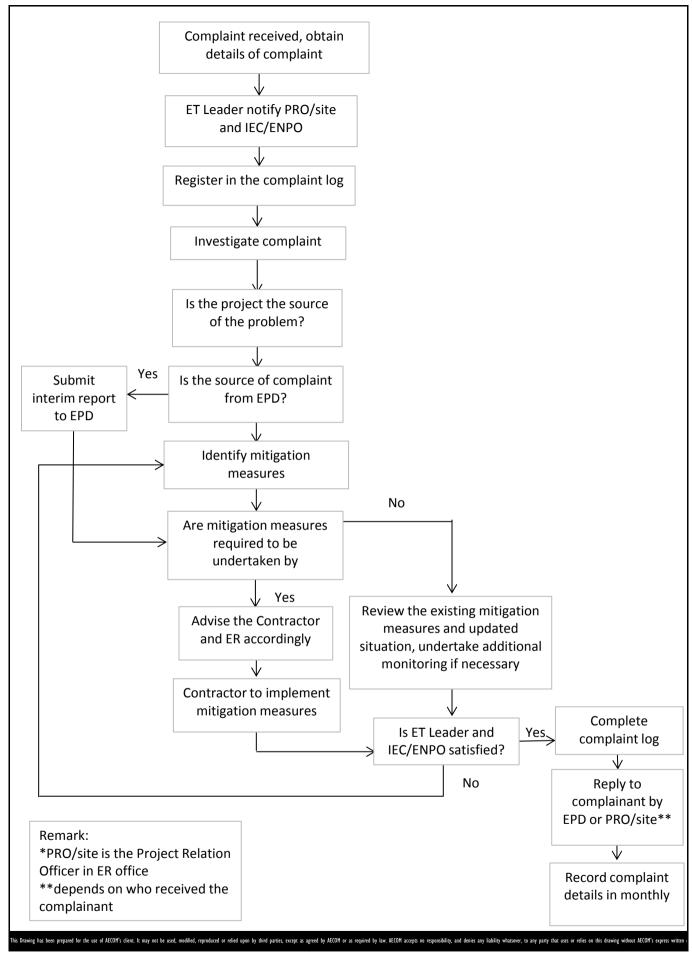
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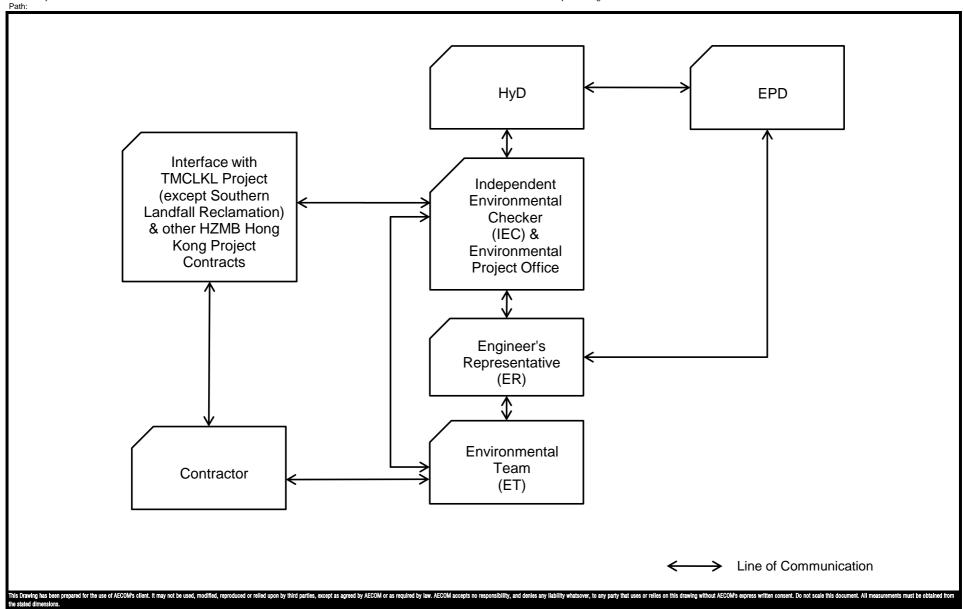


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Environmental Complaint Handling Procedure

Project No.: 60249820 Date: July 2012 Figure 6



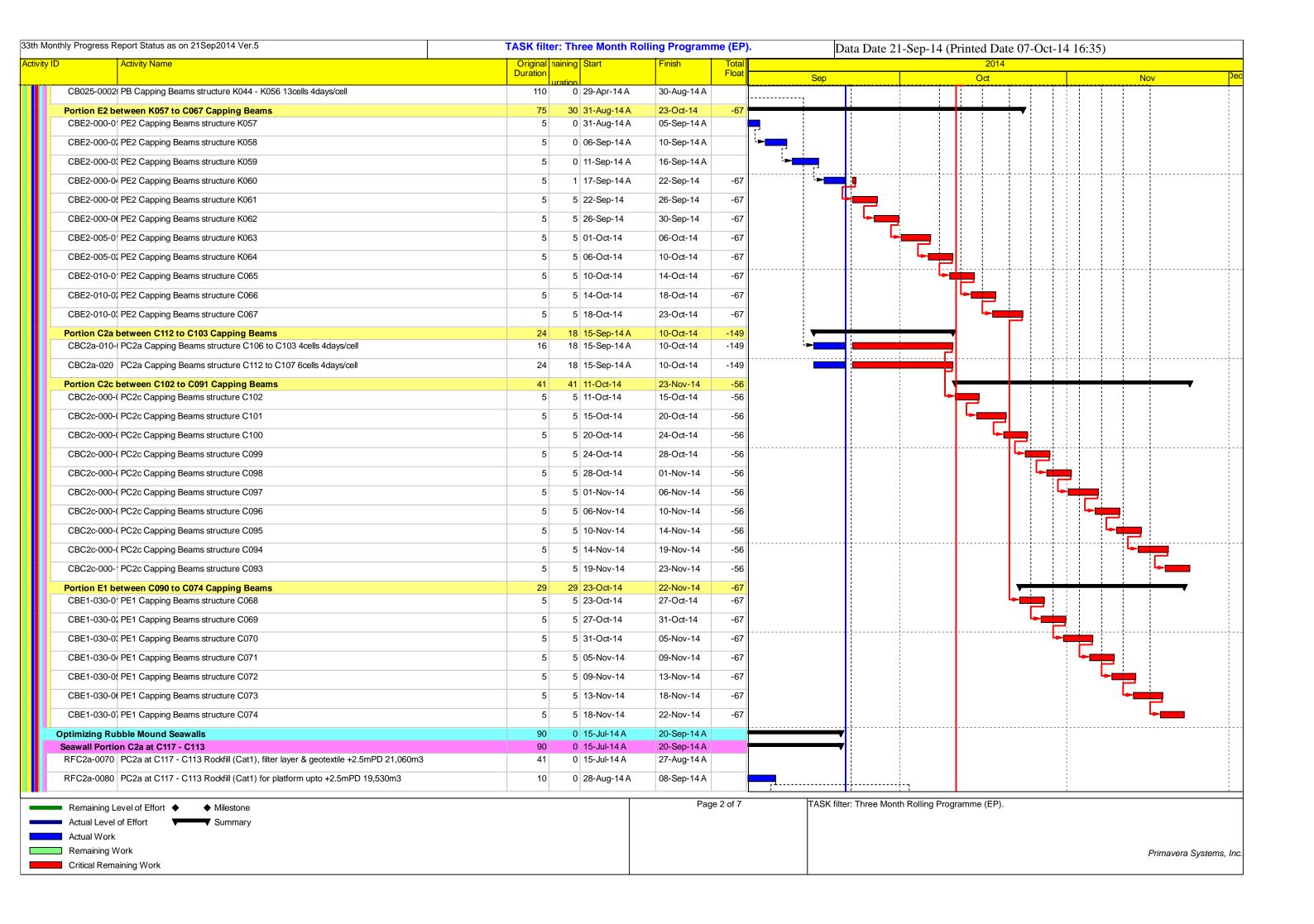
HONG KONG - ZHUHAI - MACAO BRIDGE HONG KONG BOUNDARY CROSSING FACILITIES --RECLAMATION WORKS

Project No.: 60249820 Date: April 2013

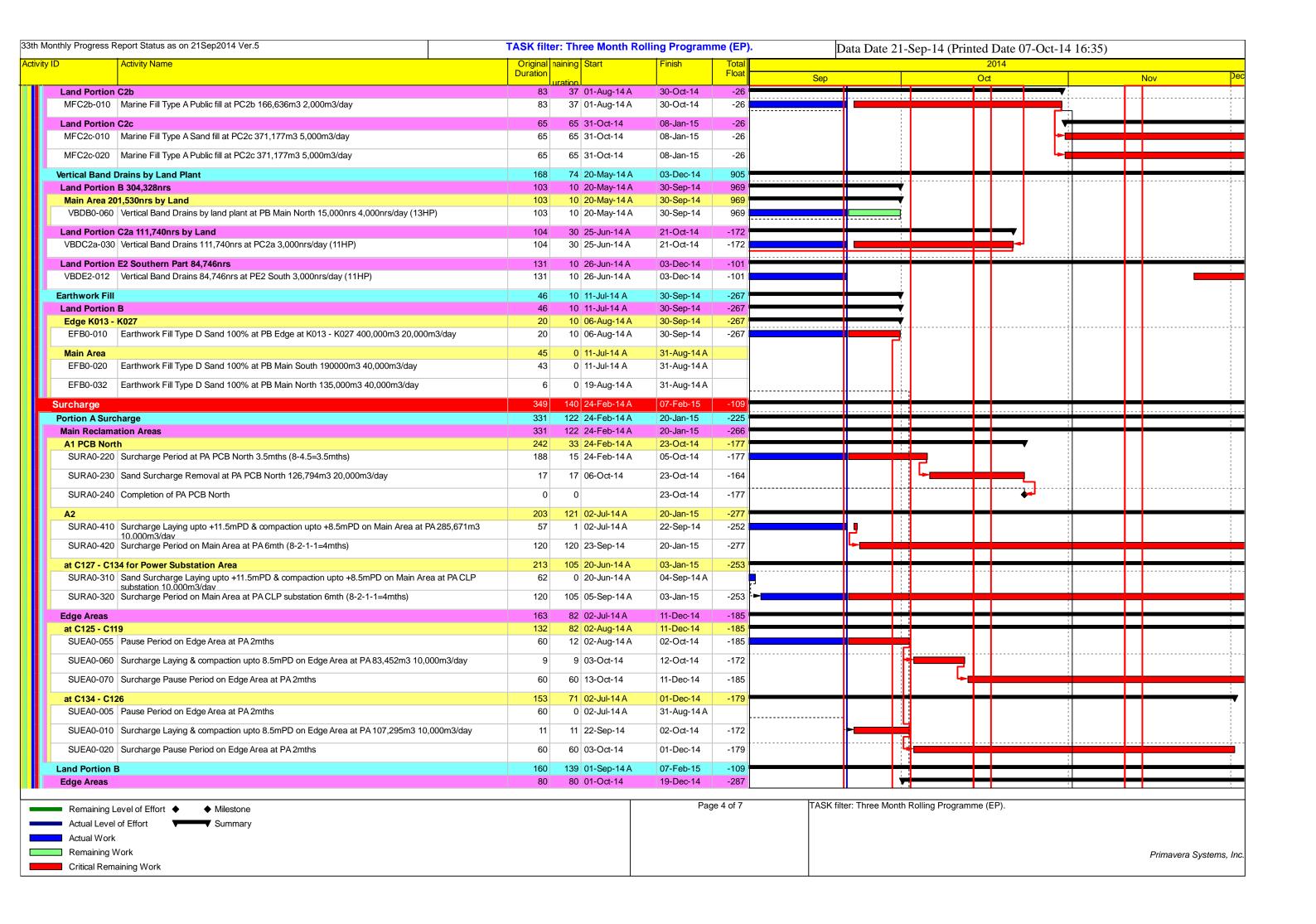


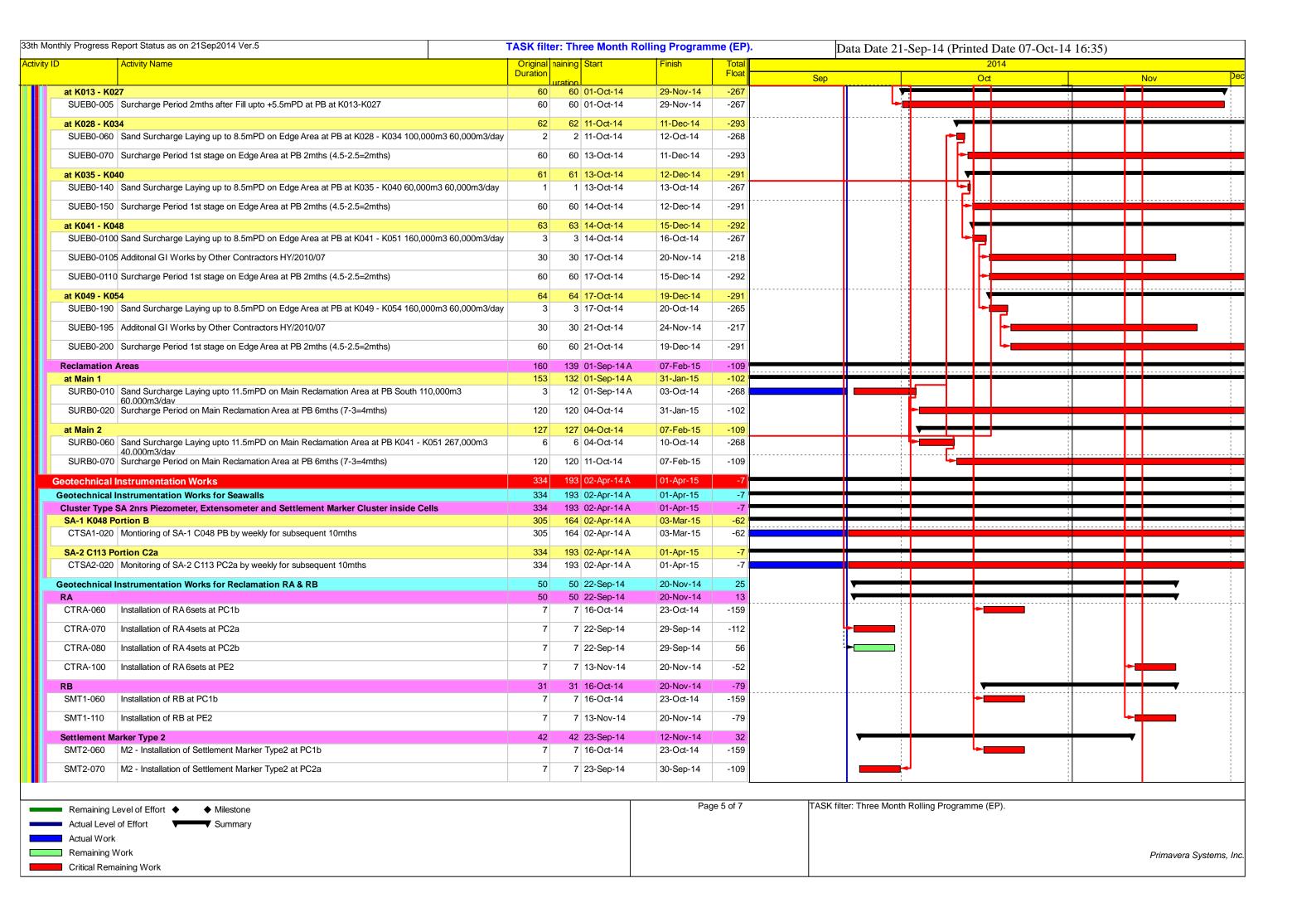


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		Duration	urotion			Float	Sep			Oct		Nov	
RFC2a-0090	PC2a at C117 - C113 Rockfill (Cat1 Fill) upto +6.0mPD & geotextile laying 7,980m3	4	(09-Sep-14 A	12-Sep-14 A		· -	!	<u> </u>				
RFC2a-0100	PC2a at C117 - C113 UnderLayer (0mPD 12,600m3	6	C	13-Sep-14 A	20-Sep-14 A		<u>-</u>				 		
Conforming Slo	oping Seawalls	210	65	5 20-Mar-14 A	29-Nov-14	847							
Geotextile		51	13	3 11-Jul-14 A	04-Oct-14	-69			-				
	ion E1 at C068 - C090 23cells	51		3 11-Jul-14 A	04-Oct-14	-69			-				
SGE1-010	PE1 Geotextile at C090 - C080 11cells	51	13	11-Jul-14 A	04-Oct-14	-69							
SGE1-030	PE1 Geotextile at C077 - C068 10cells	49	C	13-Jul-14 A	20-Sep-14 A				 				
Rockfill		210	65	20-Mar-14 A	29-Nov-14	847			-				
	ion B at K028 - K040	29	ç	20-Mar-14 A	30-Sep-14	903		 					
RFB1-000	PB Rockfill at K028 - K040 Rockfill 13cells	29	9	20-Mar-14 A	30-Sep-14	903							
Seawall Porti	ion B at K041 - K051	22	ç	20-Apr-14 A	30-Sep-14	903		<u>; </u>	<u> </u>				
RFB3-000	PB Rockfill at K041 - K051 Rockfill 11cells	22	9	20-Apr-14 A	30-Sep-14	903							
Seawall Portion	ion C2a at C112 - C103 10cells	116	15	05-May-14 A	07-Oct-14	-146		<u> </u>			1		
	PC2a Rockfill at C112 - C103 Rockfill 10cells	116	15	05-May-14 A	07-Oct-14	-146							
Seawall Portion	ion C2c at C102 - C091 12cells	77	17	7 18-Jun-14 A	09-Oct-14	49			.				
	PC2c Rockfill at C102 - C091 12cells	77		7 18-Jun-14 A	09-Oct-14	49							
Seawall Portion	ion E2 at K052 - C067 16cells	159	38	3 14-May-14 A	31-Oct-14	-33		-					
	PE2 Rockfill at C052 - C062 11cells	110		3 14-May-14 A	10-Oct-14	-89]		
RFF2-020	PE2 Rockfill at C063 - C067 5cells	20	20) 11-Oct-14	31-Oct-14	-33							
	on E1 at C068 - C090 23cells	50		08-Aug-14 A	29-Nov-14	- 77							
RFE1-010	PE1 Rockfill at C090 - C080 11cells	44	65	08-Aug-14 A	29-Nov-14	-//							
RFE1-030	PE1 Rockfill at C077 - C068 10cells	50	65	08-Aug-14 A	29-Nov-14	-77			į				
Reclamation		465	110	01-Apr-14 A	08-Jan-15	869			-				
Ground Treatm	nent	164	5	01-Apr-14 A	26-Sep-14	-178		_			1		
Geotextile		113		01-May-14 A	20-Sep-14 A		_						
	bed Below -5mPD n E2 Northern Part	113		0 01-May-14 A 0 01-May-14 A	20-Sep-14 A 20-Sep-14 A								
	PE2 Geotextile for sand blanket Northern (seabed below -5mPD)	113		0 01-May-14 A	20-Sep-14 A								
	· · · · · · · · · · · · · · · · · · ·			·	·	405	1						
Sand Blankets	s bed below -5mPD	81 81		5 10-Jun-14 A 5 10-Jun-14 A	26-Sep-14 26-Sep-14	-165 -165							
	n E2 Northern Part	81		5 10-Jun-14 A	26-Sep-14	-165							
	Sand Blankets at PE2 71,000m3 5,000m3/day North-East	81		10-Jun-14 A	26-Sep-14	-165		■					
Vertical Band I	Drains by Marine Plant	152	(01-Apr-14 A	27-Aug-14 A								
	n E2 Northern Part 84,746nrs	152		01-Apr-14 A	27-Aug-14 A								
VBDE2-020	Vertical Band Drains 61,714nrs by marine plant at PE2 (750nrs/day)	152	C	01-Apr-14 A	27-Aug-14 A			1	!	·			
Marine Fill		333	109	01-Aug-14 A	08-Jan-15	-28		1	:	_	1		
Land Portion (23		11-Aug-14 A	15-Oct-14	-200						· · · · · · · · · · · · · · · · · · ·	
MFC1b-030	Marine Fill Type A at PC1b east 454,612m3 20,000m3/day	23	9	11-Aug-14 A	15-Oct-14	-200				=			
Land Portion (C2a	34	ç	28-Aug-14 A	30-Sep-14	-160							
MFC2a-010	Marine Fill Type A at PC2a 730,287m3 20,000m3/day	34	9	28-Aug-14 A	30-Sep-14	-160			a J		_		
Land Portion I	E2	42	42	2 16-Oct-14	26-Nov-14	-93				→	+		
	Start PE2 after Marine Fill Type A Sand 100% at PC1b	0		16-Oct-14		-101				*			
MFE2-010	Marine Fill Type A at PE2 South 516,405m3 20,000m3/day	26	26	6 16-Oct-14	12-Nov-14	-94				-			
	,, , , , , , , , , , , , , , , , , , ,	20						1					
	Marine Fill Type A at PE2 North-W 76,867m3 20,000m3/day	4		1 13-Nov-14	17-Nov-14	-87							
MFE2-030	Marine Fill Type A at PE2 North-M 182,445m3 20,000m3/day	9	9	9 18-Nov-14	26-Nov-14	-87		i 1 1				 -	
-	evel of Effort • Milestone				Pac	je 3 of 7	TASK filter	: Three Month	Rolling Proa	ramme (EP).	-	• •	
- Remaining La									5 5	` '			
Remaining Le	of Effort Summary												
 Actual Level of 	•												
_												Primavera	o Cunto





D Activity	Name	Original of Duration	aining Start	Finish	Total Float		2014		
SMT2-080 M2 - Ins	stallation of Settlement Marker Type2 at PC2b	7	7 23-Oct-14	30-Oct-14	43	Sep	Oct	Nov	
		•							
SMT2-110 M2 - Ins	stallation of Settlement Marker Type2 at PE2	7	7 05-Nov-14	12-Nov-14	-42		 	4	
ortion D		270	148 22-May-14 A	15-Feb-15	831				
ubmission		0	0 21-Sep-14	21-Sep-14	979	,			
Design Submission		0	0 21-Sep-14	21-Sep-14	979			 	
	Settlement Assessment for Vertical Seawall w No Dredging Analysis and settlement assessment for vertical seawall with no dredging	0	0 21-Sep-14	21-Sep-14 21-Sep-14*	979 979	ľ			
			0			ľ			
	Settlement Assessment for Sloping Seawall w No Dredging Analysis and Settlement Assessment for Sloping seawall with no dredging	0	0 21-Sep-14	21-Sep-14 21-Sep-14*	979 979	ľ			
<u> </u>		0	0 24 Cap 44	·					
	nt for Culverts C1 - C4 w No Dredging ent assessment for box culverts C1 - C4 with no dredging	0	0 21-Sep-14 0	21-Sep-14 21-Sep-14*	979 979			 	
	Culverts C1 - C4 w Precast Method	0	0 21-Sep-14	21-Sep-14	-105				
	ral analysis for Box Culverts C1 - C4 with Precast Method	0	0 21-Sep-14	21-Sep-14*	-105	Į.			
	ssment & Temporary Diversion (stg2 - for construction of box culvert EC1)	0	0 21-Sep-14	21-Sep-14	-105				
	ge Impact Assessment and Temporary Diversion (stage 2 - for construction of box culvert EC1)	0	0	21-Sep-14*	-105	.			
Settlement Assessmer	nt for Box Culvert EC1	0	0 21-Sep-14	21-Sep-14	-105			 	
	ent Assessment for Box culvert EC1 Submission 1st	0	0	21-Sep-14*	-105	.			
Structural Analysis for	Box Culvert EC1 w Precast & Cast in-situ Method	0	0 21-Sep-14	21-Sep-14	-105	.			
	ral Analysis for Box culvert EC1 with Precast and Cast in-situ Method	0	0	21-Sep-14*	-105	•			
Detailed General Arran	gement & RC drawings for C1 to C4 w Precast Method	0	0 21-Sep-14	21-Sep-14	-105	•			
	d General Arrangement and RC drawings for Box culverts C1 to C4 with Precast Method	0	0	21-Sep-14*	-105	•		 	
Detailed General Arran	gement & RC drawings for EC1 w Precast & Cast insitu Methods	0	0 21-Sep-14	21-Sep-14	979	▼			
PD-DGN-1101 Detailed	d General Arrangement and RC drawings for Box Culverts EC1 with Precast and Cast in-situ	0	0	21-Sep-14*	979	•			
	wall Blocks & Culverts	116	148 11-Aug-14 A	15-Feb-15	-231				
Culverts		116	148 11-Aug-14 A	15-Feb-15	-231				
PD-PY-0210 Precast	C1 6nrs	91	91 17-Nov-14*	15-Feb-15	-231				
PD-PY-0240 Precast	C3 5nrs	60	60 23-Oct-14	21-Dec-14	-219				
PD-PY-0250 Precast	C4 5nrs	60	41 11-Aug-14 A	31-Oct-14	-219				
ite Construction		268	145 22-May-14 A	13-Feb-15	-178				
urcharge		268	145 22-May-14 A	13-Feb-15	-178				
West1 Portion		243	120 22-May-14 A	19-Jan-15	-242				
A1640 PD We	st1 - Surcharge Laying upto 8.5mPD 42,843m3 5,000m3/day outstanding	92	0 22-May-14 A	08-Sep-14 A					
A1650 PD We	st1 - Surcharge compaction upto 8.5mPD	104	0 22-May-14 A	08-Sep-14 A		<u> </u>			
A1656 PD We	st1 - Surcharge Pause Period 0mths	0	0 09-Sep-14 A	09-Sep-14 A		L			
A1658 PD We	st1 - Surcharge Laying +11.5mPD 42,843m3 5,000m3/day	8	0 09-Sep-14 A	22-Sep-14	-220	; >	 ■		
	st1 - Surcharge Period 4mths	120	120 22-Sep-14	19-Jan-15	-242			 	
	act data algot shou mano		·						
West2 Portion A2194 PD West2	st2 - Allow to surcharge upto 8.5mPD by result of Vent Shear Test	196	128 16-Jul-14 A 0	27-Jan-15 21-Aug-14 A	-222				
	st2 - Surcharge Laying upto +8.5mPD 42,843m3 5,000m3/day outstanding	7	0 16-Jul-14 A	20-Sep-14 A			1		
					000				
	st2 - Surcharge Laying +11.5mPD 42,843m3 5,000m3/day	8	8 22-Sep-14	29-Sep-14	-206			 	<u> </u>
A2220 PD We	st2 - Surcharge Period 4mths	120	120 30-Sep-14	27-Jan-15	-222		<u> </u>		
East1 Portion		189	129 01-Aug-14 A	05-Feb-15	-197				
Remaining Level of E	Effort ♦ Milestone			Pag	e 6 of 7	TASK filter:	Three Month Rolling Programme (EP)		
 Actual Level of Effort 	Summary								
Actual Work	·								
Remaining Work								Primavera S	Syster
Critical Remaining W	ork								

y ID	Activity Name	Original	naining	Start	Finish	Total		2014		
		Duration	uration			Float	Sep	Oct	Nov	
A1675	PD East1 - Surcharge Laying upto +8.5mPD 42,843m3 5,000m3/day outstanding	8	0	01-Aug-14 A	20-Sep-14 A					
A1688	PD East1 - Surcharge Laying +11.5mPD 42,843m3 5,000m3/day	8	8	30-Sep-14	08-Oct-14	-182	-			
A1690	PD East1 - Surcharge Period 4mths	120	120	09-Oct-14	05-Feb-15	-197		≻	1	
East2 Portion	on	180	128	3 18-Aug-14 A	13-Feb-15	-178				
A2240	PD East2 - Surcharge Laying upto +8.5mpD 42843m3 5,000m3/day	10	0	18-Aug-14 A	13-Sep-14 A					
A2258	PD East2 - Surcharge Laying +11.5mPD 42,843m3 5,000m3/day	8	8	3 09-Oct-14	16-Oct-14	-166		└-		
A2260	PD East2 - Surcharge Period 4mths	120	120	17-Oct-14	13-Feb-15	-178		→		
Box Culvert	t Construction	0	0	21-Aug-14 A	21-Aug-14 A					
Extension C		0	0	21-Aug-14 A	21-Aug-14 A					
EC1-0005	The Area of EC1 handback by HY/2011/03	0	0	21-Aug-14 A						
Works Area	a WA2 (Tung Chung)	1431	732	2 21-May-12 A	28-Feb-17	0				
Zone A		1431	732	2 21-May-12 A	28-Feb-17	0				
A1880	Maintenance of Engineer's Accommodation	1431	732	21-May-12 A	28-Feb-17	0	<u> </u>			
Works Area	a TKO Fill Bank	1251	659	25-Sep-12 A	30-Nov-16	0			<u> </u>	
WA-TKO-1040	Operate and Maintain Public Fill Sorting Facilities in Zone A, B1 & B2	1251	659	25-Sep-12 A	30-Nov-16	0				
WA-TKO-1050	Maintainance of Site in Zone C	568	0	25-Sep-12 A	22-Aug-14 A				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

Appendix C - Implementation Schedule of Environmental Mitigation Measures

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 with		

EIA Ref.	EM&A Log	Environmental Mitigation Measures	Location	Implementation
	Ref			Status
		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		

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		
		surface stabiliser within six months after the last construction activity on the		

EIA Ref.	EM&A Log	Environmental Mitigation Measures	Location	Implementation
	Ref			Status
		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;		
		All receiving hoppers should be enclosed on three sides up to 3m above unloading		

EIA Ref.	EM&A Log	Environmental Mitigation Measures	Location	Implementation
	Ref			Status
		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 I	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		
		so that the noise is directed away from nearby NSRs;		

EIA Ref.	EM&A Log	Environmental Mitigation Measures	Location	Implementation
	Ref			Status
		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/m²), acoustic mat or full enclosure	For plant items listed	N/A
HKBCFEIA		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
TMCLKLEIA			representative noise	

EIA Ref.	EM&A Log	Environmental Mitigation Measures	Location	Implementation
	Ref			Status
			monitoring station	
Waste Manag	ement (Constr			
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	7 til Gorioti dollori 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;		
		Implement a trip-ticket system for each works contract to ensure that the disposal of		

EIA Ref.	EM&A Log	Environmental Mitigation Measures	Location	Implementation
	Ref			Status
		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-	WM5	C&D Waste	All construction sites	V
S8.3.11 of		Standard formwork or pre-fabrication should be used as far as practicable in order to		
HKBCFEIA		minimise the arising of C&D materials. The use of more durable formwork or plastic		
and S12.6 of		facing for the construction works should be considered. Use of wooden hoardings		
TMCLKLEIA		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 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		

EIA Ref.	EM&A Log	Environmental Mitigation Measures	Location	Implementation
	Ref			Status
		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- S8.3.15 of HKBCFEIA and S12.6 of TMCLKLEIA	WM6	 Chemical Waste Chemical Waste that is produced, as defined by Schedule 1 of the Waste Disposal (Chemical Waste) (General) Regulation, should be handled in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. 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. 	All construction sites	V
		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		
		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.		

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

EIA Ref.	EM&A Log	Environmental Mitigation Measures	Location	Implementation
	Ref			Status
		 Training should be provided to workers about the concepts of site cleanliness and appropriate waste management procedure, including reduction, reuse and recycling of wastes. Sufficient dustbins shall be provided for storage of waste as required under the Public Cleansing and Prevention of Nuisances By-laws. In addition, general refuse shall be cleared daily and shall be disposed of to the nearest licensed landfill or refuse transfer station. All waste containers shall be in a secure area on hardstanding. 		
Water Quality	(Construction	,	During filling	V
	W1	Mitigation during the marine works to reduce impacts to within acceptable levels have	During lilling	V
		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:		
		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		

EIA Ref.	EM&A Log	Environmental Mitigation Measures	Location	Implementation
	Ref			Status
		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 to		
		prevent sediment loss at navigation accesses. The length of each staggered layers		
		shall be at least 200m;		
1				

EIA Ref.	EM&A Log	Environmental Mitigation Measures	Location	Implementation
	Ref			Status
		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	W2	Land Works	All land-based	V
HKBCFEIA		General construction activities on land should also be governed by standard good	construction sites	
and S6.10		working practice. Specific measures to be written into the works contracts should		
of		include:		
TMCLKLEIA		wastewater from temporary site facilities should be controlled to prevent direct		
		discharge to surface or marine waters;		

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

EIA Ref.	EM&A Log	Environmental Mitigation Measures	Location	Implementation
	Ref			Status
		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;		
		the contractors shall prepare an oil / chemical cleanup plan and ensure that leakages		
		or spillages are contained and cleaned up immediately;		

EIA Ref.	EM&A Log	Environmental Mitigation Measures	Location	Implementation
	Ref			Status
		 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 HKBCFEIA and S6.10 of TMCLKLEIA	W3	Implement a water quality monitoring programme	At identified monitoring location	V
S6.10 of TMCLKLEIA	W4	All construction works shall be subject to routine audit to ensure implementation of all EIA recommendations and good working practice.	All construction site areas	V
Ecology (Cons	struction Phas	e)		
S10.7 of HKBCFEIA and S8.14 of	E1	 Install silt curtain during the construction Limit works fronts Construct seawall prior to reclamation filling where practicable 	Seawall, reclamation area	V
TMCLKLEIA		 Good site practices Strict enforcement of no marine dumping 		

EIA Ref.	EM&A Log	Environmental Mitigation Measures	Location	Implementation
	Ref			Status
		Site runoff control		
		Spill response plan		
S10.7 of	E2	Watering to reduce dust generation; prevention of siltation of freshwater habitats; Site	Land-based works	V
HKBCFEIA		runoff should be desilted, to reduce the potential for suspended sediments, organics	areas	
		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
HKBCFEIA		Skipper training		
and S8.14 of		Predefined and regular routes for working vessels; avoid Brothers Islands		

EIA Ref.	EM&A Log	Environmental Mitigation Measures	Location	Implementation
	Ref			Status
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		
		rock materials and planting strip area accommodating screen buffer to		

EIA Ref.	EM&A Log	Environmental Mitigation Measures	Location	Implementation
	Ref			Status
		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			1	
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

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

Location	Action Level	Limit Level
AMS2	374 μg/m³	500 μg/m³
AMS3A*	368 μg/m³	500 μg/m³
AMS6	360 μg/m³	500 μg/m³
AMS7	370 μg/m³	500 μg/m³

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/m³		
AMS6	173 μg/m³	260 μg/m ³		
AMS7	183 μg/m³	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.

Table 4 - Action and Limit Levels for Water Quality

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)
	<u>Bottom</u>	<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 and130% 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	

Notes:

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

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

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

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

Station Tung Chung Development Pier (AMS2)		MS2)	Operator:	Cheung H	Hung Wai	_	
Cal. Date:	5-Aug-14			Next Due Date:	5-Oct-14		_
Equipment No.:	A-001-78T	ř		Serial No.	33	83	-
			Ambient	Condition			
Temperatu	re, Ta (K)	303	Pressure,	Pa (mmHg)		752.2	
						12	
			Orifice Transfer S	tandard Informatio	on		
Serial	No:	988	Slope, mc	1.97518	Interce	ept, bc	-0.0100
Last Calibra	ation Date:	28-May-14	28-May-14 $mc \times Qstd + bc = [DH \times (Pa/760) \times (298/Ta)]^{1/2}$				
Next Calibra	ation Date:	28-May-15		Qstd = {[DH x (Pa/760) x (298/Ta)]	^{1/2} -bc} / mc	
				of TSP Sampler			
			Orfice		HV	S Flow Recorder	
Resistance Plate No.	DH (orifice), in. of water	[DH x (Pa/7	60) x (298/Ta)] ^{1/2}	Qstd (m³/min) X - axis	Flow Recorder Reading (CFM)	Continuous Flor Reading IC (CF	
18	8.8		2.93	1.49	48.0	47.36	
13	7.4		2.68	1.36	44.0	43.4	1
10	5.8		2.38	1.21	38.0	37.49	
7	4.0		1.97		31.0	30.58	
5	2.8		1.65	0.84	24.0	23.68	
Slope , mw = Correlation Coe	36.4726 fficient* = efficient < 0.990,	A9940 -	9983 brate.	Intercept, bw =	-6.5	601	-
			0.45	0-1-1-1			
From the TSD Eig	eld Calibration Cu	uruo, taka Oatd =		Calculation			
rioili lile Regles	sion Equation, the	e i value accor	ding to				
		mw	x Ostd + bw = IC	x [(Pa/760) x (298/	Ta)1 ^{1/2}		
			X 40ta - 211 10	x [(: a:: 00) x (200:	. 4/1		
Therefore, Set Po	oint; IC = (mw x	Qstd + bw) x [(7	60 / Pa) x (Ta / 29	98)] ^{1/2} =		41.41	
					**		_
Remarks:							
QC Reviewer:	INS CH	IAN	Signature:	PI		Date: 6/8	/14

Call Date: Equipment No.: A-001-79T	Station	Site Boundary of	f Site Office (WA2	2) (AMS3B)	Operator:	Leung `	Yiu Ting	
Ambient Condition Temperature, Ta (K) 303 Pressure, Pa (mmHg) 754.3	Cal. Date:	30-Jul-14			Next Due Date:	30-S	ep-14	-
Temperature, Ta (K) 303 Pressure, Pa (mmHg) 754.3	Equipment No.:	A-001-79T			Serial No.			-
Temperature, Ta (K) 303 Pressure, Pa (mmHg) 754.3				Ambien	t Condition			
Orifice Transfer Standard Information	Temperatu	ire Ta (K)	303				754.3	
Serial No: 988 Slope, mc 1.97518 Intercept, bc	Tomporata	10, 14 (14)	000	1 1035016,	r a (mining)		704.0	
Last Calibration Date: 28-May-14 Next Calibration Date: 28-May-15 Qstd = {[DH x (Pa/760) x (298/Ta)]}^{1/2} Qstd = {[DH x (Pa/760) x (298/Ta)]}^{1/2} -bc} / mc				Orifice Transfer S	Standard Information	on		
Next Calibration Date: 28-May-15 Qstd = {[DH x (Pa/760) x (298/Ta)]^{1/2} -bc} / mc	Seria	l No:	988	Slope, mc	1.97518	Interce	ept, bc	-0.0100
Next Calibration Date: 28-May-15 Qstd = {[DH x (Pa/760) x (298/Ta)]^{1/2} -bc} / mc	Last Calibra	ation Date:	28-May-14		mc x Qstd + bc	= [DH x (Pa/760) x	(298/Ta)] ^{1/2}	•
Note	Next Calibra	ation Date:	28-May-15					
Note				Calibration	of TCD Complex			
Resistance Plate No. DH (orifice), in. of water [DH x (Pa/760) x (298/Ta)]^{1/2} Qstd (m³/min) X Reading (CFM) Reading IC (CFM)			0		or 13P Sampler	HV	S Flow Recorder	
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 By Linear Regression of Y on X Slope, mw = 43.6838 Intercept, bw = -15.9935 Gorrelation Coefficient* = 0.9992 If Correlation Coefficient < 0.990, check and recalibrate. Set Point Calculation from the TSP Field Calibration Curve, take Qstd = 1.30m³/min rom the Regression Equation, the "Y" value according to mw x Qstd + bw = IC x [(Pa/760) x (298/Ta)] ^{1/2} therefore, Set Point; IC = (mw x Qstd + bw) x [(760 / Pa) x (Ta / 298)] ^{1/2} = 41.29	PARKET PROPO CONTROL	1450		3.00	3	Flow Recorder	Continuous Flow	
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 By Linear Regression of Y on X Slope , mw = 43.6838 Intercept, bw = -15.9935 Correlation Coefficient* = 0.9992 If Correlation Coefficient < 0.990, check and recalibrate. Set Point Calculation From the TSP Field Calibration Curve, take Qstd = 1.30m ³ /min From the Regression Equation, the "Y" value according to mw x Qstd + bw = IC x [(Pa/760) x (298/Ta)] ^{1/2} Therefore, Set Point; IC = (mw x Qstd + bw) x [(760 / Pa) x (Ta / 298)] ^{1/2} = 41.29	18	8.8		2.93	1.49	50.0	49.40)
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 By Linear Regression of Y on X Blope , mw = 43.6838 Intercept, bw = -15.9935 Correlation Coefficient* = 0.9992 If Correlation Coefficient < 0.990, check and recalibrate. Set Point Calculation From the TSP Field Calibration Curve, take Qstd = 1.30m ³ /min From the Regression Equation, the "Y" value according to mw x Qstd + bw = IC x [(Pa/760) x (298/Ta)] ^{1/2} Therefore, Set Point; IC = (mw x Qstd + bw) x [(760 / Pa) x (Ta / 298)] ^{1/2} 41.29	13	7.0		2.61			1/2/1/20	
7 4.1 2.00 1.02 29.0 28.65 5 2.5 1.56 0.80 19.0 18.77 by Linear Regression of Y on X loope , mw = 43.6838 Intercept, bw = -15.9935 correlation Coefficient* = 0.9992 of Correlation Coefficient < 0.990, check and recalibrate. Set Point Calculation rom the TSP Field Calibration Curve, take Qstd = 1.30m³/min rom the Regression Equation, the "Y" value according to mw x Qstd + bw = IC x [(Pa/760) x (298/Ta)] ^{1/2} herefore, Set Point; IC = (mw x Qstd + bw) x [(760 / Pa) x (Ta / 298)] ^{1/2} 41.29	10	5.1			+			
5 2.5 1.56 0.80 19.0 18.77 By Linear Regression of Y on X Blope , mw = 43.6838 Intercept, bw = -15.9935 Forrelation Coefficient* = 0.9992 If Correlation Coefficient < 0.990, check and recalibrate. Set Point Calculation rom the TSP Field Calibration Curve, take Qstd = 1.30m³/min rom the Regression Equation, the "Y" value according to mw x Qstd + bw = IC x [(Pa/760) x (298/Ta)] ^{1/2} therefore, Set Point; IC = (mw x Qstd + bw) x [(760 / Pa) x (Ta / 298)] ^{1/2} 41.29	7					340,000,000,000		
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Set Point Calculation From the TSP Field Calibration Curve, take Qstd = 1.30m³/min From the Regression Equation, the "Y" value according to mw x Qstd + bw = IC x [(Pa/760) x (298/Ta)] 1/2 Therefore, Set Point; IC = (mw x Qstd + bw) x [(760 / Pa) x (Ta / 298)] 1/2 = 41.29	Slope , mw = Correlation Coef	43.6838 fficient* =			Intercept, bw =	-15.9	9935	-
rom the TSP Field Calibration Curve, take Qstd = 1.30m³/min rom the Regression Equation, the "Y" value according to mw x Qstd + bw = IC x [(Pa/760) x (298/Ta)] ^{1/2} herefore, Set Point; IC = (mw x Qstd + bw) x [(760 / Pa) x (Ta / 298)] ^{1/2} = 41.29	If Correlation Co	efficient < 0.990,	check and recalit	orate.				
mw x Qstd + bw = IC x [(Pa/760) x (298/Ta)] ^{1/2} Therefore, Set Point; IC = (mw x Qstd + bw) x [(760 / Pa) x (Ta / 298)] ^{1/2} = 41.29					Calculation			
mw x Qstd + bw = IC x [(Pa/760) x (298/Ta)] ^{1/2} herefore, Set Point; IC = (mw x Qstd + bw) x [(760 / Pa) x (Ta / 298)] ^{1/2} = 41.29	rom the TSP Fie	eld Calibration Cu	rve, take Qstd = '	1.30m³/min				
herefore, Set Point; IC = (mw x Qstd + bw) x [(760 / Pa) x (Ta / 298)] ^{1/2} = 41.29	rom the Regress	sion Equation, the	e "Y" value accord	ling to				
	*		mw	x Qstd + bw = IC	х [(Pa/760) x (298/1	[a)] ^{1/2}		
					4.0	,-		
emarks:	herefore, Set Po	pint; IC = (mw x C	Qstd + bw) x [(76	60 / Pa) x (Ta / 29	98)] ^{1/2} =		41.29	•
emarks:								
lemarks:								
	emarks:							
); -						47 - 47	
C Reviewer: WS CHAV Signature: Date: 30/7//	C Reviewer	WS CHE	42/	Signature:	P	i i	Date: 2 - 17 /	114

Station	Site Boundary of	Site Office (WA2	2) (AMS3B)	Operator:	Leung Y		
Cal. Date:	8-Sep-14			Next Due Date:	7-Nov-14		
Equipment No.:	A-001-79T	_		Serial No.	33	84	_
		,	Ambient	Condition			
Temperatu	ure, Ta (K)	301	Pressure, F	Pa (mmHg)		756.9	
	, , ,			, 0,			
			Orifice Transfer St	tandard Information	on		
Seria	il No:	843	Slope, mc	1.99102	Interce	pt, bc	-0.00616
Last Calibra	ation Date:	9-Dec-14		mc x Qstd + bc	= [DH x (Pa/760) x	(298/Ta)] ^{1/2}	
Next Calibr	ation Date:	9-Dec-15		Qstd = {[DH x (Pa/760) x (298/Ta)] ¹	^{/2} -bc} / mc	
			Calibration o	f TSP Sampler			
		(Orfice	i Tor Gampler	HVS	S Flow Recorder	
Resistance Plate No.	DH (orifice), in. of water		(60) x (298/Ta)] ^{1/2}	Qstd (m³/min) X -	Flow Recorder Reading (CFM)	Continuous Fle	ow Recorder
18	7.4		2.70	1.36	55.0	54.62	
13	6.0		2.43	1.22	46.0	45.0	
10	4.9		2.20	1.11	38.0	37.74	
7	3.3	1.80		0.91	29.0	28.80	
5	2.1		1.44	0.73	18.0	17.88	
Slope , mw = Correlation Coe	56.7008 efficient* =		9950 ibrate.	Intercept, bw =	-23.4	1681	_
	•						
# TOD F:	ald Calibratian Co	4-1 0-44		Calculation			
	eld Calibration Cu						
-rom the Regres	ssion Equation, the	"Y" value accor	ding to				
		mu	x Qstd + bw = IC	v [(Do/760) v (2007	To\1 ^{1/2}		
		IIIW	A GOLU T DW - IC	^ [(Fai100) X (2301	ι α)]		
Therefore, Set P	oint; IC = (mw x C	Qstd + bw) x [(7	60 / Pa) x (Ta / 29	(8)] ^{1/2} =		50.59	
	₩ 6		5-00 CT-0	According to	e-		_
				2			
Remarks:			den.				
1	4 . 1 =	_			6	1	a 00
QC Reviewer: 🗸	lung you lin	9	Signature:	The state of the s		Date:	8-9-19

Station	Hong Kong Sky0	City Marriott Hotel	(AMS7)	Operator:	Operator: Cheung Hung Wai		
Cal. Date:	5-Aug-14			Next Due Date:	5-Oct-14		_
Equipment No.:	A-001-80T	y.d.	Serial No. 3385		85	_	
			Ambient	Condition			
Temperatu	ire, Ta (K)	303	Pressure, I	Pa (mmHg)	AND THE RESERVE OF THE PERSON	752.2	
				, ,,			
		C	Prifice Transfer S	tandard Informatio	n		
Seria	l No:	988	Slope, mc	1.97518	Interce		-0.0100
Last Calibra	Last Calibration Date:			mc x Qstd + bc	= [DH x (Pa/760) x	(298/Ta)] ^{1/2}	
Next Calibra	ation Date:	28-May-15		Qstd = {[DH x (Pa/760) x (298/Ta)]	^{1/2} -bc} / mc	
	<u> </u>			of TSP Sampler	10.0		
Resistance		Oi	rfice		HV	S Flow Recorder	
Plate No.	DH (orifice), in. of water	[DH x (Pa/76	[DH x (Pa/760) x (298/Ta)] ^{1/2}		Flow Recorder Reading (CFM)	Continuous Flow Record Reading IC (CFM) Y-ax	
18	7.6	1	2.72	1.38	47.0	46.37	
13	6.5	;	2.52	1.28	41.0	40.4	ļ5
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	
Slope , mw = Correlation Coe			979	Intercept, bw =	-23.6	5983	_
"if Correlation Co	Deπicient < 0.990,	check and recalib	rate.				
				Calculation			
From the TSP Fi	eld Calibration Cu	urve, take Qstd = 1	1.30m³/min				
From the Regres	sion Equation, th	e "Y" value accord	ling to				
		mw :	x Qstd + bw = IC	x [(Pa/760) x (298/	Га)]" ²		
Therefore Set D	oint: IC = / mw v	Qstd + bw) x [(76	:0 / Pa \ v / Ta / 20	08 \1 ^{1/2} -		42.48	
meretore, set r	olit, IC – (IIIW X	Ser Town X [(10	10/Fa) X (1a/2	, , , , , , , , , , , , , , , , , , ,	2-	42.40	
Remarks:							
				Dawn			
OC Reviewer	LIS CHA	2)	Signature: <	PI		Date: 6/8	114



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 - M Operator		Rootsmeter Orifice I.I		438320 0988	Ta (K) - Pa (mm) -	296 - 751.84
PLATE OR Run #	VOLUME START (m3)	VOLUME STOP (m3)	DIFF VOLUME (m3)	DIFF TIME (min)	METER DIFF Hg (mm)	ORFICE DIFF H2O (in.)
1 2 3 4 5	NA NA NA NA	NA NA NA NA	1.00 1.00 1.00 1.00 1.00	1.3790 0.9720 0.8690 0.8260 0.6830	3.2 6.4 7.9 8.8 12.8	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 0.7191 0.9875 1.0159 0.9854 1.1339 0.9843 1.1916 0.9790 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	0.8874 1.2549 1.4030 1.4715 1.7747
Qstd slope (m) = intercept (b) = coefficient (r) =	1.97518 -0.01001 0.99998	Qa slope intercept coefficie	t (b) =	1.23683 -0.00630 0.99998
y axis = SQRT[H2O(H	Pa/760)(298/Ta)]	y axis =	SQRT[H20(Га/Ра)]

CALCULATIONS

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

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

For subsequent flow rate calculations:

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

Type:			2)	Laser Du	st Moni	tor		
	acturer/Brand:			SIBATA				
Model	No.:		_	LD-3				
	ment No.:			A.005.07				
Sensit	ivity Adjustment	Scale Setting:		557 CPI	/			
Opera	tor:			Mike She	k (MSKN	1)		
Standa	rd Equipment							
	Addition of the Control of the Contr							
Equip		Rupprech		the same of the sa				
Venue		Cyberpor		ring Seco	naary So	chool)		
Model		Series 14		A D 240 00	20002			
Serial	NO:	Control:		DAB21989	-	V . 40500		
Last C	alibration Date*:	Sensor: 10 May 2		00C14365	9803	K _o : <u>12500</u>		
Last	anbration bate .	_ TO May 2	014		-		****	
*Remar	ks: Recommend	ed interval for h	ardwar	e calibrat	ion is 1 y	/ear		
Calibra	tion Result							
0	: : . A . P	01-0-11-1		0 . !!! !!		557 00		
	ivity Adjustment					557 CP		
Sensit	ivity Adjustment	Scale Setting (A	Affer Ca	alibration)	1.	_557 CP	IVI	
Hour	Date	Time		Amb	ient	Concentration	Total	Count/
100000000000000000000000000000000000000	(dd-mm-yy)	(10.00000000000000000000000000000000000		Cond		(mg/m ³)	Count ²	Minute ³
				Temp	R.H.	Y-axis		X-axis
				(°C)	(%)			
1	11-05-14		10:30	26.7	75	0.04434	1775	29.58
2	11-05-14		11:30	26.7	75	0.04716	1880	31.33
3	11-05-14		12:30	26.8	76	0.04927	1964	32.73
4	11-05-14		13:30	26.8	75	0.05035	2015	33.58
Note:		lata was measu				shnick TEOM®		
		was logged by						
	3. Count/minut	te was calculate	ea by (I	otal Coul	11/60)			
By Line	ar Regression of	Y or X						
	(K-factor):		015					
	ation coefficient:		982					
V / P P:				0.45				
Validit	y of Calibration F	Record: 11	May 20	015				
DI								
Remark	is:							
					1./			
QC Re	eviewer: YW F	ung	Signat	ture:	9/	Date	: 12 Ma	y 2014

Type: Manufacturer/Brand: Model No.: Equipment No.: Sensitivity Adjustment Scale Setting: Operator:			-	Laser Dust Monitor SIBATA LD-3 A.005.08a 702 CPM Mike Shek (MSKM)				
•		4-2		WING OTT	ok (MON		35 HH-1	
Standard	Equipment							
Equipme Venue: Model N	lo.:	Rupprech Cyberpor Series 14	t (Pui ` 100AB	Ying Seco	ondary S			
Serial N	0:	Control: Sensor:	-	0AB2198 00C1436		K _o : 128	500	
Last Cal	libration Date*:	10 May 2	_	0001430	39003	No. 120	500	
*Remarks	: Recommend	ed interval for h	ardwa	re calibra	ation is 1	year		
Calibratio	on Result						4 S. MAR.	
		Scale Setting (E Scale Setting (A				702 702	CPM CPM	
Hour	Date (dd-mm-yy)	Time		Ambient Condition Temp R.H. (°C) (%)	Concentration ¹ (mg/m ³) Y-axis	Total Count ²	Count/ Minute ³ X-axis	
1	11-05-14	09:45 - 1	0:45	26.7	75	0.04568	1713	28.50
2	11-05-14	10:45 - 1	1:45	26.7	75	0.04857	1819	30.32
3	11-05-14		2:45	26.8	76	0.05063	1903	31.72
4	11-05-14	//5//	3:45	26.8	75	0.05116	1922	32.03
	Total Count Count/minut	was logged by e was calculate	Laser	Dust Mor	nitor	tashnick TEOM [®]		
	Regression of							
	<pre><-factor):</pre>		0016					
	tion coefficient: of Calibration F		984 May 2	015				
Remarks	:			1				
QC Rev	riewer: <u>YW</u> F	-ung	Signa	iture:	4/		Date: 12	2 May 2014

Model Equipr Sensit Opera	ment No.: ivity Adjustment	Scale Setting:		Laser Du SIBATA LD-3 A.005.09a 797 CPM Mike She	a 1			
Equipr		Rupprechi				L N		
Venue		Cyberport		ing Seco	ndary Sc	nooi)		
Model		Series 140		A D24000	0000			
Serial	No:	Control:		AB21989		K _o : 12500		- 10-1 00
1 4 0	alibuatian Data*.	Sensor:		0C14365	9803	K _o : <u>12500</u>		
Last C	Calibration Date*:	10 May 20)14					
*Remar	ks: Recommend	ed interval for ha	ardwar	e calibrat	ion is 1 y	/ear		
Calibra	tion Result	all and a second						
	ivity Adjustment ivity Adjustment					797 CP 797 CP		
Hour	Date	Time		Amb	ient	Concentration ¹	Total	Count/
l loui	(dd-mm-yy)			Conc		(mg/m ³)	Count ²	Minute ³
	(44)))			Temp	R.H.	Y-axis		X-axis
				(°C)	(%)	3 700000000		
1	11-05-14	13:30 - 1	4:30	26.8	75	0.05034	2017	33.62
2	11-05-14	14:30 - 1	15:30	26.9	76	0.05211	2084	34.73
3	11-05-14	15:30 - 1	16:30	26.9	76	0.05163	2066	34.43
4	11-05-14		17:30	26.9	76	0.05272	2113	35.22
Slope Corre	2. Total Count 3. Count/minut ar Regression of (K-factor): lation coefficient: ty of Calibration F	0.0	Laser [Oust Mon Total Cou	itor	ashnick TEOM [™]		
		Fung	Signa	ture:	9/	Date	e: 12 Ma	ay 2014

Model Equipr	acturer/Brand: No.: nent No.: ivity Adjustment	Scale Setti		Laser Du SIBATA LD-3 A.005.10 753 CPN	а	tor		
Opera	•		_	Mike She	600 0000 000	1)		
Standar	rd Equipment			****				
Equipr Venue Model	: No.:	Cybe Serie	precht & Par erport (Pui \ es 1400AB	ing Seco	ndary So	chool)		
Serial Last C	No: alibration Date*:	Cont Sens 10 M		0AB21989 00C14365		K _o : _1250	00	
*Remarl	ks: Recommend	ed interval	for hardwar	e calibrat	ion is 1 y	year		
Calibra	tion Result							
	ivity Adjustment ivity Adjustment		• ,				CPM CPM	
Hour	Date (dd-mm-yy)	Ti	me	Amb Cond Temp (°C)		Concentration ¹ (mg/m ³) Y-axis	Total Count ²	Count/ Minute ³ X-axis
1	11-05-14	13:45	- 14:45	26.8	75	0.04984	1996	33.27
2	11-05-14		- 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		- 17:45	26.9	76	0.05263	2109	35.15
Slope Correl	2. Total Count 3. Count/minut ar Regression of (K-factor): ation coefficient: y of Calibration F	was logge e was calc Y or X	d by Laser [Oust Mon otal Cou	itor	ashnick TEOM [®]		
Siliain			2					
QC Re	eviewer: YW F	ung	_ Signa	ture:	4/	Da	ate: 12 Ma	y 2014

Model Equipr Sensit Opera	ment No.: ivity Adjustment	Scale Setting	g: _	Laser Du SIBATA LD-3 A.005.11 799 CPI Mike She	а И			
	(New York)	_						
Equipr			echt & Pa			, ,		
Venue			port (Pui \	ring Seco	ndary So	chool)		
Model	46 NTHE		1400AB	0400400	20000			
Serial	NO:	Contro		DAB21989		V . 40500		
Loot C	alibration Data*	Senso		00C1436	9803	K _o : <u>12500</u>	,	
Last C	alibration Date*:	_10 Ma	y 2014					
*Remar	ks: Recommend	ed interval fo	or hardwar	re calibra	tion is 1 v	vear		
			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0 00		,		
Calibra	tion Result							
Sensit	ivity Adjustment	Scale Setting	g (Before	Calibratio	n):	799 CF	PM	
Sensit	ivity Adjustment	Scale Setting	g (After Ca	alibration):	799 CF	PM	
Hour	Date	Tim	е	Amb	pient	Concentration ¹	Total	Count/
	(dd-mm-yy)			Cond	dition	(mg/m ³)	Count ²	Minute ³
				Temp	R.H.	Y-axis		X-axis
				(°C)	(%)			
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:	 Monitoring of 	lata was mea	asured by	Rupprec	ht & Pata	ashnick TEOM®		R-12
	Total Count	was logged	by Laser [Dust Mon	itor			
	Count/minut	e was calcul	ated by (T	Total Cou	nt/60)			
	ar Regression of							
	(K-factor):	-	0.0015					
Correl	ation coefficient:	_	0.9987					
Validit	y of Calibration F	Record: _	18 May 20	015				
Remark	e.							
Temark	.5.		* 100	TO .				
	100							
					11	/		
QC Re	eviewer: YW F	-ung	Signa	ture:		Date	e: 19 Ma	y 2014

Type: Manufacturer/Brand: Model No.: Equipment No.: Sensitivity Adjustment Scale Setting:				Laser Dust Monitor SIBATA LD-3B A.005.13a 643 CPM					
Operat	tor:		_!	Mike She	k (MSKM)			
Standar	d Equipment								
	: No.:	Cyber Series Contro Senso 10 Ma	or: 120 by 2014	ing Seco AB21989 0C14365	ndary Sc 99803 99803	K _o : _12500			
Calibrat	tion Result								
	ivity Adjustment ivity Adjustment					643 CF	PM PM		
Hour	Date (dd-mm-yy)	Tin	ne		dition R.H. (%)	Concentration ¹ (mg/m ³) Y-axis	Total Count ²	Count/ Minute ³ 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	
Slope	Monitoring of 2. Total Count 3. Count/minuter Regression of (K-factor): ation coefficient:	was logged te was calcu Y or X	by Laser I	Just Mon	itor	shnick TEOM®			
Validit	y of Calibration I	Record:	18 May 2	015					
Remark	KS:								
OC B	eviewer VW	Funa	Signa	iture:	4/	Da	te: 19 Ma	ay 2014	

		а И			
	Mike She	k (MSKN	1)		
1170			***		
Cyberport (Pui Y Series 1400AB Control: 140 Sensor: 120 10 May 2014	/ing Seco 0AB21989 00C14365	99803 99803	K _o : <u>12500</u>		
				200	
Setting (After Ca	alibration)): [*]			
Time	Cond Temp	lition R.H.	Concentration ¹ (mg/m ³) Y-axis	Total Count ²	Count/ Minute ³ X-axis
45 - 13:45	28.4	77	0.05027	2158	35.97
	28.5	76	0.05161	2211	36.85
	28.5	76	0.05235	2247	37.45
45 - 16:45	28.4	77	0.05203	2233	37.22
ogged by Laser Escalculated by (TX) 0.0014 0.9969	Oust Moni otal Cour	tor	shnick TEOM®		
	Rupprecht & Pail Cyberport (Pui Y Series 1400AB Control: 140 Sensor: 120 10 May 2014 terval for hardwar e Setting (Before 0 Setting (After Ca Time 45 - 13:45 45 - 14:45 45 - 15:45 45 - 16:45 Vas measured by ogged by Laser Description of the control of the co	Rupprecht & Patashnick Cyberport (Pui Ying Second Series 1400AB	Rupprecht & Patashnick TEOM® Cyberport (Pui Ying Secondary Scotes 1400AB	Cyberport (Pui Ying Secondary School) Series 1400AB Control: 140AB219899803 Sensor: 1200C143659803 K _o : 12500 10 May 2014 Series In Indian	Rupprecht & Patashnick TEOM® Cyberport (Pui Ying Secondary School) Series 1400AB

Type:			_	Laser Du	st Moni	tor		
	facturer/Brand:			SIBATA				
Model				LD-3B				
	ment No.: tivity Adjustment	Scale Setting:	_	A.005.16 521 CPN				
Serisi	ivity Aujustinent	ocale Setting.	_	JZT OF	"			
Opera	tor:			Mike She	k (MSKN	1)		
Standa	rd Equipment			**************************************				
			301					
Equip				ashnick		, n		
Venue				ing Seco	ndary So	chool)		
Model		Series 1		A DO 400	20000			
Serial	No:	Control:		AB21989		1/ 10500		
1 1 0	Nalibuatian Datata	Sensor:		0C14365	9803	K _o : <u>12500</u>		
Last	Calibration Date*:	_10 May :	2014					
*Remar	ks: Recommend	ed interval for	hardwar	e calibrat	tion is 1 y	/ear		
Calibra	tion Result					3 - 3		
	tivity Adjustment tivity Adjustment					521 CF		
Hour	Date	Time		Amb	pient	Concentration ¹	Total	Count/
	(dd-mm-yy)			Cond	dition	(mg/m ³)	Count ²	Minute ³
	,			Temp	R.H.	Y-axis		X-axis
				(°C)	(%)		1	
1	26-07-14	10:30 -	11:30	28.6	77	0.04931	1971	32.85
2	26-07-14	11:45 -	12:45	28.6	77	0.05142	2052	34.20
3	26-07-14	13:15 -	14:15	28.7	77	0.05589	2243	37.38
4	26-07-14	14:40 -	15:40	28.8	78	0.05293	2116	35.27
Note:	Monitoring of 2. Total Count 3. Count/minut ar Regression of	was logged by te was calculat	Laser [Dust Mon	itor	ashnick TEOM [®]		
	(K-factor):		0015					
	lation coefficient:		9934					
	y of Calibration F	· · · · · · · · · · · · · · · · · · ·	6 July 20	015				
Remark	(S:							
QC R	eviewer: YW F	-ung	Signat	ture:		Date	e: 28 Jul	y 2014



綜合試驗有限公司

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:

of

2

Item tested

Description: Manufacturer: Acoustical Calibrator (Class 1)

Rion Co., Ltd.

Type/Model No.:

NC-73

Serial/Equipment No.:

10307223 / N.004.08

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 calibration

Description:	Model:	Serial No.	Expiry Date:	Traceable to:
Lab standard microphone	B&K 4180	2341427	17-Apr-2014	SCL
Preamplifier	B&K 2673	2239857	16-Apr-2014	CEPREI
Measuring amplifier	B&K 2610	2346941	24-Apr-2014	CEPREI
Signal generator	DS 360	61227	15-Apr-2014	CEPREI
Digital multi-meter	34401A	US36087050	10-Dec-2013	CEPREI
Audio analyzer	8903B	GB41300350	15-Apr-2014	CEPREI
Universal counter	53132A	MY40003662	15-Apr-2014	CEPREI

Ambient conditions

Temperature: Relative humidity:

22 ± 1 °C 60 ± 10 %

Air pressure:

1000 ± 10 hPa

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.
- 3, 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.

Huang Jian Min/Feng Jun Qi

Approved Signatory:

Date: 11-Nov-2013

Company Chop:

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.

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



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.:

14CA0408 01-01

Page:

of

2

to:

Item tested

Description:

Acoustical Calibrator (Class 1)

Manufacturer: Type/Model No.: B & K 4231

Serial/Equipment No.: Adaptors used:

3006428

06428 1004.03

Item submitted by

Curstomer:

AECOM ASIA CO., LTD.

Address of Customer:

- -

Request No.: Date of receipt:

08-Apr-2014

Date of test:

15-Apr-2014

Reference equipment used in the calibration

Description:	Model:	Serial No.	Expiry Date:	Traceable t
Lab standard microphone	B&K 4180	2341427	17-Apr-2014	SCL
Preamplifier	B&K 2673	2743150	10-Apr-2015	CEPREI
Measuring amplifier	B&K 2610	2346941	08-Apr-2015	CEPREI
Signal generator	DS 360	61227	09-Apr-2015	CEPREI
Digital multi-meter	34401A	US36087050	17-Dec-2014	CEPREI
Audio analyzer	8903B	GB41300350	07-Apr-2015	CEPREI
Universal counter	53132A	MY40003662	11-Apr-2015	CEPREI

Ambient conditions

Temperature: Relative humidity:

22 ± 1 °C 60 ± 10 %

Air pressure:

1000 ± 10 hPa

Test specifications

- The Sound Calibrator has been calibrated in accordance with the requirements as specified in IEC 60942 1997 Annex B and the lab calibration procedure SMTP004-CA-156.
- 2, The calibrator was tested with its axis vertical facing downwards at the specific frequency using insert voltage technique.
- 3, 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.

hin/Feng Jun Qi

Huang Jian

Approved Signatory:

Date:

23-Apr-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.

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



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 Website: www.cigismec.com E-mail: smec@cigismec.com

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



CERTIFICATE OF CALIBRATION

Certificate No.:

13CA1107 01-01

Page

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.007.03A

90565

Adaptors used:

Item 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

Reference equipment used in the calibration

Description:

Multi function sound calibrator

Model: B&K 4226 Serial No.

Expiry Date:

Traceable to:

Signal generator Signal generator

DS 360 DS 360 2288444 33873 61227

22-Jun-2014 15-Apr-2014 15-Apr-2014

CIGISMEC CEPREI **CEPREI**

Ambient conditions

Temperature:

22 ± 1 °C 60 ± 10 %

Relative humidity: Air pressure:

1000 ± 10 hPa

Test specifications

The Sound Level Meter has been calibrated in accordance with the requirements as specified in BS 7580: Part 1: 1997 and the lab calibration procedure SMTP004-CA-152.

The electrical tests were performed using an electrical signal substituted for the microphone which was removed and 2, 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 3 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

Huang Jian Min/Feng Jun Qi

Actual Measurement data are documented on worksheets

Approved Signatory:

Date:

11-Nov-2013

Company Chop:

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.

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



恰 試 驗 有 限 公 司

P/F., 12/F., 13/F. & 20/F., Leader Centre, 37 Wong Chuk Hang Road, Aberdeen, Hong Kong. 巷 黃 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

of

2

Item tested

Description: Manufacturer: Type/Model No .: Sound Level Meter (Type 1)

N.009.04

B&K

2238

Microphone **B&K**

4188 2250420

Serial/Equipment No.: Adaptors used:

2285692

Item submitted by

Customer Name:

AECOM ASIA CO. LTD.

Address of Customer:

Request No.:

Date of receipt:

05-Mar-2014

Date of test:

07-Mar-2014

Reference equipment used in the calibration

Description:

Multi function sound calibrator

Signal generator

Signal generator

Model: B&K 4226

DS 360

DS 360

2288444

33873 61227

Serial No.

Expiry Date:

22-Jun-2014 15-Apr-2014

CIGISMEC **CEPREI** 15-Apr-2014 CEPREI

Traceable to:

Ambient conditions

Temperature:

22 ± 1 °C

Relative humidity: Air pressure:

60 ± 10 % 1000 ± 10 hPa

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

Date:

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.

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

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

Work Order: Date of Issue: HK1421424 23/07/2014

Client:

AECOM ASIA COMPANY LIMITED



Description:

Sonde Environmental Monitoring System

Brand Name:

Model No.: Serial No.:

6820 V1 W.026.09

Equipment No.:

W.026.09

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 (%)
	907 2008 1 200	
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
		900 000000
	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

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

Work Order:

HK1421424

Date of Issue:

23/07/2014

Client:

AECOM ASIA COMPANY LIMITED



Description:

Sonde Environmental Monitoring System

Brand Name:

Model No.:

6820 V1

Serial No.:

W.026.09

Equipment No.:

W.026.09

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	0.01	L
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

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

Work Order: Date of Issue:

HK1421422 23/07/2014

Client:

AECOM ASIA COMPANY LIMITED



Description:

Sonde Environmental Monitoring System

Brand Name:

Model No.: Serial No.:

6820 V1

Equipment No.:

04F11451 W.026.31

Date of Calibration: 08 July, 2014

Date of next Calibration:

08 October, 2014

Parameters:

Conductivity

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

146.9 6667 12890	150.1 6711	+2.2
6667	1-27-34-34-32	9.00 (19.00)
		+0.7
12090	12786	-0.8
58670	57900	-1.3

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

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)		
3.55	3.51	-0.04		
5.90	5.85	-0.05		
7.75	7.69	-0.06		
	Tolerance Limit (mg/L)	±0.20		

Turbidity

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

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
	20.0	
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
	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

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

Work Order:

HK1421422

Date of Issue:

23/07/2014

Client:

AECOM ASIA COMPANY LIMITED



Description:

Sonde Environmental Monitoring System

Brand Name:

Model No.:

6820 V1

Serial No.: Equipment No.: 04F11451 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			
	5000 pagelore 85				
	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	14.11	+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

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 ALS Environmental

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

Sunday	Monday		Tuesday	Wedne		Thursday	Frid	ay	Saturday
		1-Sep	2-Sep		3-Sep	4-Sep		5-Sep	6-Se
		11:21 17:05		Mid-Ebb Mid-Flood	6:56 14:46		Mid-Ebb Mid-Flood	9:33 17:04	24-hour TSP 1-hour TSP
7-Sep		8-Sep	9-Sep		10-Sep	11-Sep		12-Sep	13-Se
		12:13 19:00		Mid-Flood Mid-Ebb	7:21 13:42		Mid-Flood Mid-Ebb 24-hour 1-hour Noi:	TSP	
14-Sep	15	5-Sep	16-Sep		17-Sep	18-Sep		19-Sep	20-Sep
		12:07 17:23		Mid-Ebb Mid-Flood	7:26 20:18		Mid-Ebb Mid-Flood	10:00 17:18	
21-Sep	22	2-Sep	23-Sep		24-Sep	25-Sep		26-Sep	27-Se
	Mid-Flood	12:02 18:27		Mid-Ebb Mid-Flood	13:06 19:13		Mid-Flood Mid-Ebb	8:03 14:09	
Dolphin Monitoring	Dolphin Monitorin	g		24-hour 1-hour Nois	TSP				
28-Sep	25	9-Sep	30-Sep						
		10:20 16:05 g	24-hour TSP 1-hour TSP Noise Dolphin Monitoring						

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

Appendix F Schedule April 2014

^{*}The scheduled water quality monitoring at mid-ebb on 15 September 2014 was cancelled due to tropical Cyclone Warning Signal no. 3 or above was hoisted 3 hours before the commencement of scheduled water quality monitoring.

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

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday		
			1-0	ct 2-Oct	3-Oct	4-00		
			Mid-Ebb 5: Mid-Flood 12:8		Mid-Ebb 7:42 Mid-Flood 15:41			
5-Oct	6-Oct	7-Oct	8-O	ct 9-Oct	10-Oct	11-00		
	Mid-Ebb 11:02 Mid-Flood 17:47		Mid-Ebb 12:3 Mid-Flood 18:4		Mid-Flood 8:10 Mid-Ebb 14:03	24-hour TSP		
	1-hour TSP Noise					1-hour TSP		
12-Oct	13-Oct	t 14-Oct	15-O	ct 16-Oct	17-Oct	18-Oc		
	Mid-Flood 10:50 Mid-Ebb 16:11		Mid-Ebb 5: Mid-Flood 17:4		Mid-Ebb 7:36 Mid-Flood 15:58			
	Dolphin Monitoring	Dolphin Monitoring	24-hour TSP 1-hour TSP Noise					
19-Oct	20-Oct	21-Oct	22-0	ct 23-Oct	24-Oct	25-00		
	Mid-Ebb 10:49 Mid-Flood 17:15 Dolphin Monitoring	Dolphin Monitoring 24-hour TSP 1-hour TSP	Mid-Ebb 12:0 Mid-Flood 18:0		Mid-Flood 7:18 Mid-Ebb 13:11			
		Noise						
26-Oct	27-Oct	t 28-Oct	29-0	ct 30-Oct	31-Oct			
	Mid-Flood 9:31 Mid-Ebb 15:12 24-hour TSP 1-hour TSP Noise		Mid-Flood 11:2 Mid-Ebb 16:5		Mid-Ebb 5:51 Mid-Flood 14:07			

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

Appendix F Schedule April 2014

Appendix G Impact Air Quality Monitoring Results

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

Date	Session	Weather Condition	averaged Wind Speed (m/s)*	Time (hh:mm)	Conc. (µg/m³)	Action Level (µg/m³)	Limit Level (µg/m³)										
2-Sep-14	1st Hour	Sunny	0.84	10:20	79	374	500										
	2nd Hour		0.04	11:20	79	374	500										
2-Sep-14		Sunny															
2-Sep-14	3rd Hour	Sunny	0.27	12:20	80	374	500										
6-Sep-14	1st Hour	Sunny	0.11	11:20	81	374	500										
6-Sep-14	2nd Hour	Sunny	0.80	12:20	82	374	500										
6-Sep-14	3rd Hour	Sunny	0.66	13:20	81	374	500										
12-Sep-14	1st Hour	Cloudy	3.15	11:15	79	374	500										
12-Sep-14	2nd Hour	Cloudy	2.83	12:15	81	374	500										
12-Sep-14	3rd Hour	Cloudy	Cloudy 1.41		80	374	500										
18-Sep-14	1st Hour	Sunny	0.35	10:20	76	374	500										
18-Sep-14	2nd Hour Sunny		p-14 2nd Hour Sunny		1.01	11:20	75	374	500								
18-Sep-14	3rd Hour	rd Hour Sunny		3rd Hour Sunny 1.66		3rd Hour Sunny 1.66 12:20 77		77	374	500							
24-Sep-14	1st Hour	Sunny	0.10	10:21	75	374	500										
24-Sep-14	2nd Hour	Sunny	Sunny	Sunny	Sunny	Sunny	Sunny	Sunny	Sunny	Sunny	Sunny	Sunny	0.04	11:21	77	374	500
24-Sep-14	3rd Hour	Sunny	1.34	12:21	78	374	500										
30-Sep-14	1st Hour	Sunny	0.27	10:12	78	374	500										
30-Sep-14	2nd Hour	Sunny	0.27	11:12	78	374	500										
30-Sep-14	3rd Hour	Sunny	0.27	12:12	76	374	500										
				Average	78												
				Min	75												
				Max	82												

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

5.	0	Weather	averaged Wind	Time	Conc. (µg/m³)	Action Level (µg/m³) ^	Limit Level	
Date	Session	Condition	Speed (m/s)*	(hh:mm)	(µg/m)	(μg/m) ^λ	(µg/m³)	
2-Sep-14	1st Hour	Sunny	0.11	11:42	78	368	500	
2-Sep-14	2nd Hour	Sunny	0.27	12:42	79	368	500	
2-Sep-14	3rd Hour	Sunny	0.24	13:42	79	368	500	
6-Sep-14	1st Hour	Sunny	0.11	11:34	80	368	500	
6-Sep-14	2nd Hour	Sunny	0.80	12:34	81	368	500	
6-Sep-14	3rd Hour	Sunny	0.66	13:34	81	368	500	
12-Sep-14	1st Hour	Cloudy	3.15	11:30	79	368	500	
12-Sep-14	2nd Hour	Cloudy	Cloudy 2.83		80	368	500	
12-Sep-14	3rd Hour	Cloudy	1.41	13:30	79	368	500	
18-Sep-14	1st Hour	Sunny	0.35	11:27	75	368	500	
18-Sep-14	2nd Hour	Sunny	1.01	12:27	76	368	500	
18-Sep-14	3rd Hour	Sunny	1.66	13:27	74	368	500	
24-Sep-14	1st Hour	Sunny	0.10	11:34	74	368	500	
24-Sep-14	2nd Hour	Sunny	0.04	12:34	75	368	500	
24-Sep-14	3rd Hour	Sunny	1.34	13:34	78	368	500	
30-Sep-14	1st Hour	Sunny	0.27	11:50	77	368	500	
30-Sep-14	2nd Hour	Sunny	0.27	12:50	76	368	500	
30-Sep-14	3rd Hour	Sunny	0.27	13:50	78	368	500	
· · · · · · · · · · · · · · · · · · ·	·	·		Average	78		·	

Min Max

Remarks:

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

		Weather	averaged Wind	Time	Conc.	Action Level	Limit Level	
Date	Session	Condition	Speed (m/s)*	(hh:mm)	(µg/m³)	(µg/m³)	(µg/m³)	
2-Sep-14	1st Hour	Sunny	0.84	10:03	80	370	500	
2-Sep-14	2nd Hour	Sunny	0.11	11:03	78	370	500	
2-Sep-14	3rd Hour	Sunny	0.27	12:03	79	370	500	
6-Sep-14	1st Hour	Sunny	0.11	11:02	82	370	500	
6-Sep-14	2nd Hour	Sunny	0.80	12:02	82	370	500	
6-Sep-14	3rd Hour	Sunny	0.66	13:02	83	370	500	
12-Sep-14	1st Hour	ur Cloudy 3.15 11:45		80	370	500		
12-Sep-14	2nd Hour	Cloudy	2.83	12:45	81	370	500	
12-Sep-14	3rd Hour	Cloudy 1.41		13:45	80	370	500	
18-Sep-14	1st Hour	Sunny	0.35	11:39	73	370	500	
18-Sep-14	2nd Hour	Sunny	1.01	12:39	75	370	500	
18-Sep-14	3rd Hour	Sunny	1.66	13:39	76	370	500	
24-Sep-14	1st Hour	Sunny	0.10	10:12	77	370	500	
24-Sep-14	2nd Hour	Sunny	0.04	11:12	74	370	500	
24-Sep-14	3rd Hour	Sunny	1.34	12:12	76	370	500	
30-Sep-14	1st Hour	Sunny	0.27	11:12	75	370	500	
30-Sep-14	2nd Hour	Sunny	0.27	12:12	77	370	500	
30-Sep-14	3rd Hour	Sunny	0.27	13:12	77	370	500	
					70			

 Average
 78

 Min
 73

 Max
 83

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

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	(m³/min.)	Av. flow	Total vol.	Filter We	eight (g)	Particulate	Elaps	e Time	Sampling	Conc.	Action 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.)	$(\mu g/m^3)$	(µg/m ³)	(µg/m ³)
1-Sep-14	16:00	2-Sep-14	16:00	Sunny	29.4	1010.8	1.33	1.33	1.33	1912.3	2.7122	2.7523	0.0401	3869.84	3893.84	24.00	21	176	260
5-Sep-14	16:00	6-Sep-14	16:00	Sunny	29.7	1007.2	1.33	1.33	1.33	1912.3	2.7172	2.7937	0.0765	3893.84	3917.84	24.00	40	176	260
11-Sep-14	16:00	12-Sep-14	16:00	Cloudy	30.3	1008.0	1.33	1.33	1.33	1912.3	2.7890	2.8266	0.0376	3917.84	3941.84	24.00	20	176	260
17-Sep-14	16:00	18-Sep-14	16:00	Fine	28.1	1011.2	1.33	1.33	1.33	1912.3	2.6991	2.7571	0.0580	3941.84	3965.84	24.00	30	176	260
23-Sep-14	16:00	24-Sep-14	16:00	Sunny	27.5	1008.6	1.33	1.33	1.33	1912.3	2.7898	2.9736	0.1838	3965.84	3989.84	24.00	96	176	260
29-Sep-14	16:00	30-Sep-14	16:00	Fine	29.3	1011.4	1.33	1.33	1.33	1912.3	2.7884	2.8859	0.0975	3989.84	4013.84	24.00	51	176	260
																Average	43		•

Max

Min

Max

96

81

13

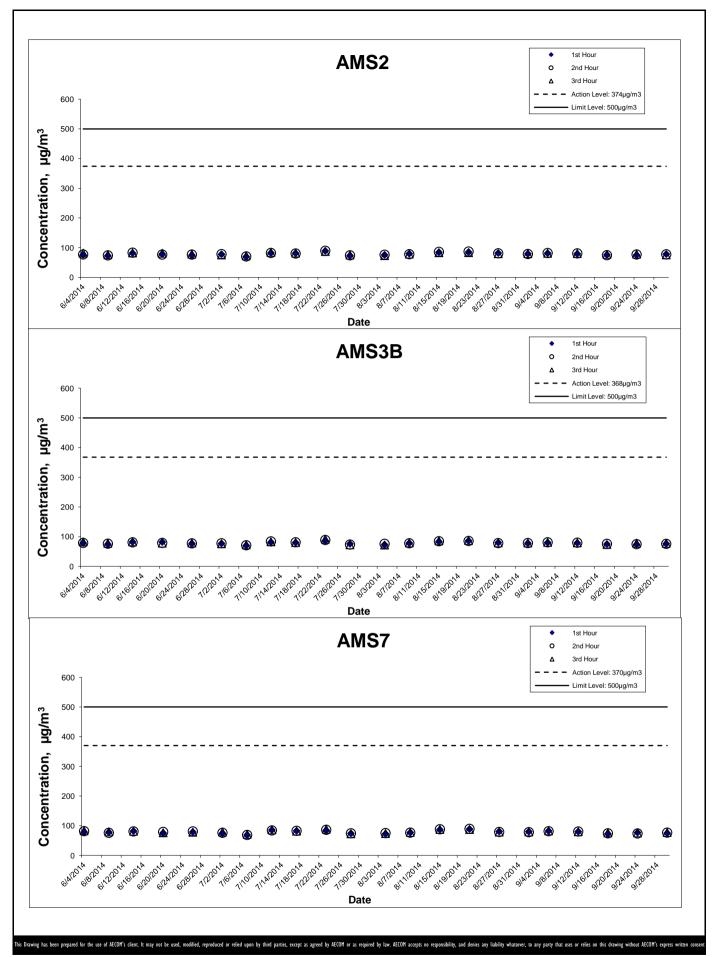
24-hour TSP Monitoring Results at Station AMS3B - Site Boundary of Site Office (WA2)

Start	Start	End	End	Weather	Air	Atmospheric	Flow Rate	(m³/min.)	Av. flow	Total vol.	Filter We	eight (g)	Particulate	Elapse	e Time	Sampling	Conc.	Action 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.)	$(\mu g/m^3)$	(µg/m ³)	$(\mu g/m^3)$
1-Sep-14	16:00	2-Sep-14	16:00	Sunny	29.4	1010.8	1.34	1.34	1.34	1923.8	2.7124	2.7631	0.0507	3805.80	3829.80	24.00	26	167	260
5-Sep-14	16:00	6-Sep-14	16:00	Sunny	29.7	1007.2	1.34	1.34	1.34	1923.8	2.7076	2.8056	0.0980	3829.80	3853.80	24.00	51	167	260
11-Sep-14	16:00	12-Sep-14	16:00	Cloudy	30.3	1008.0	1.35	1.35	1.35	1941.1	2.7996	2.8727	0.0731	3853.80	3877.80	24.00	38	167	260
17-Sep-14	16:00	18-Sep-14	16:00	Fine	28.1	1011.2	1.34	1.34	1.34	1923.8	2.7064	2.7675	0.0611	3877.80	3901.80	24.00	32	167	260
23-Sep-14	16:00	24-Sep-14	16:00	Sunny	27.5	1008.6	1.34	1.34	1.34	1923.8	2.8063	2.9630	0.1567	3901.80	3925.80	24.00	81	167	260
29-Sep-14	16:00	30-Sep-14	16:00	Fine	29.3	1011.4	1.34	1.34	1.34	1923.8	2.7835	2.8683	0.0848	3925.80	3949.80	24.00	44	167	260
-														·		Average	45		
																Min	26	11	

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

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

Start	Start	End	End	Weather	Air	Atmospheric	Flow Rate	(m³/min.)	Av. flow	Total vol.	Filter We	eight (g)	Particulate	Elapse	e Time	Sampling	Conc.	Action 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/m³)	(µg/m ³)	(µg/m³)
1-Sep-14	16:00	2-Sep-14	16:00	Sunny	29.4	1010.8	1.30	1.30	1.30	1869.1	2.7234	2.7741	0.0507	3827.98	3851.98	24.00	27	183	260
5-Sep-14	16:00	6-Sep-14	16:00	Sunny	29.7	1007.2	1.35	1.35	1.35	1939.7	2.7144	2.8320	0.1176	3851.98	3875.98	24.00	61	183	260
11-Sep-14	16:00	12-Sep-14	16:00	Cloudy	30.3	1008.0	1.31	1.31	1.31	1882.1	2.7833	2.8070	0.0237	3875.98	3899.98	24.00	13	183	260
17-Sep-14	16:00	18-Sep-14	16:00	Fine	28.1	1011.2	1.34	1.34	1.34	1926.7	2.7094	2.7918	0.0824	3899.98	3923.98	24.00	43	183	260
23-Sep-14	16:00	24-Sep-14	16:00	Sunny	27.5	1008.6	1.34	1.34	1.34	1926.7	2.8072	2.9390	0.1318	3923.98	3947.98	24.00	68	183	260
29-Sep-14	16:00	30-Sep-14	16:00	Fine	29.3	1011.4	1.34	1.34	1.34	1926.7	2.7834	2.8587	0.0753	3947.98	3971.98	24.00	39	183	260
	·				·	·			·		·	·		·		Average	46		



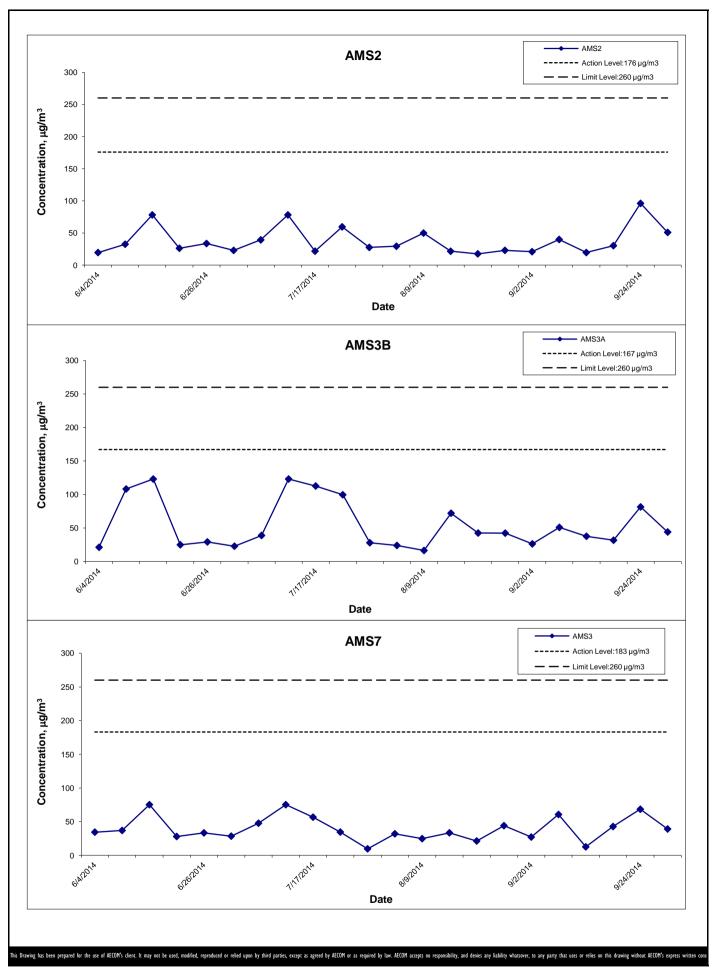
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HONG KONG BOUNDARY CROSSING FACILITIES
- RECLAMATION WORKS
Gra

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Graphical Presentation of Impact 1-hour TSP

Monitoring Results

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HONG KONG BOUNDARY CROSSING FACILITIES
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Graphical Presentation of Impact 24-hour TSP

Monitoring Results

Project No.: 60249820 Date: July 2014 Appendix G



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

WIND DATA

WIND DATA			
Date	Time	Averaged Wind Speed (m/s)	Averaged Wind Direction (degrees)
09/01/14	15:54:28	0.99	308
09/01/14	16:54:28	0.27	202
09/01/14	17:54:28	1.12	155
09/01/14	18:54:28	0.84	122
09/01/14	19:54:28	0.49	304
09/01/14	20:54:28	1.72	247
			262
09/01/14	21:54:28	0.38	
09/01/14	22:54:28	0.34	152
09/01/14	23:54:28	0.57	80
09/02/14	00:54:28	0.46	258
09/02/14	01:54:28	0.62	270
09/02/14	02:54:28	0.48	273
09/02/14	03:54:28	0.88	318
09/02/14	04:54:28	0.73	288
09/02/14		0.74	99
	05:54:28		
09/02/14	06:54:28	0.22	284
09/02/14	07:54:28	0.07	103
09/02/14	08:54:28	0.11	309
09/02/14	09:52:57	0.20	90
09/02/14	10:52:57	0.84	124
09/02/14	11:52:57	0.11	119
09/02/14	12:52:57	0.27	106
09/02/14	13:52:57	0.24	119
09/02/14	14:52:57	0.55	137
09/02/14	15:52:57	1.09	141
09/02/14	16:52:57	0.94	125
09/05/14	15:52:57	4.77	163
09/05/14	16:52:57	0.32	193
09/05/14	17:52:57	0.32	42
09/05/14	18:52:57	0.71	155
09/05/14	19:52:57	0.60	115
09/05/14	20:52:57	0.74	292
09/05/14	21:52:57	0.66	267
09/05/14	22:52:57	0.84	137
09/05/14	23:52:57	0.56	138
09/06/14	00:52:57	0.53	268
09/06/14	01:52:57	0.67	158
09/06/14	02:52:57	0.46	75
09/06/14	03:52:57	0.38	251
09/06/14	04:52:57	0.63	157
09/06/14	05:52:57	0.95	151
09/06/14	06:52:57	0.43	128
09/06/14	07:52:57	0.08	108
09/06/14	08:52:57	0.70	123
09/06/14	09:52:57	0.22	106
09/06/14	10:52:57	0.11	355
09/06/14	11:52:57	0.11	70
09/06/14	12:52:57	0.80	11
09/06/14	13:52:57	0.66	307
09/06/14	14:52:57	1.41	330
09/06/14	15:52:57	1.55	144
09/06/14	16:52:57	0.55	124
09/11/14	15:52:57	1.16	84
09/11/14	16:52:57	1.99	127
09/11/14	17:52:57	1.09	58
			119
09/11/14	18:52:57	0.76	
09/11/14	19:52:57	0.17	125
09/11/14	20:52:57	1.31	154
09/11/14	21:52:57	2.88	149
09/11/14	22:52:57	3.94	164
09/11/14	23:52:57	2.21	98
09/12/14	00:52:57	1.38	130
09/12/14	01:52:57	2.62	165
09/12/14	02:52:57	1.82	153
09/12/14	03:52:57	0.78	138
09/12/14	04:52:57	0.71	100
09/12/14	05:52:57	0.28	325
09/12/14	06:52:57	0.67	158
09/12/14	07:52:57	2.31	131
09/12/14	08:52:57	0.92	104
09/12/14	09:52:57	0.28	265
09/12/14	10:52:57	3.96	172
09/12/14	11:52:57	3.15	139
09/12/14	12:03:37	2.83	131
09/12/14	12:03:44	1.41	121
09/12/14	13:03:44	1.09	344
09/12/14	14:03:44	2.01	124
09/12/14	15:03:44		129
		2.18	
09/12/14	16:03:44	1.17	136
09/17/14	16:03:44	2.95	103
09/17/14	17:03:44	1.47	49
09/17/14	18:03:44	2.28	85
09/17/14	19:03:44	2.53	61
09/17/14	20:03:44	2.85	100
09/17/14	21:03:44	3.61	110
09/17/14	22:03:44	2.76	113
09/17/14	23:03:44	2.80	179
09/18/14	00:03:44	2.45	104
09/18/14	01:03:44	2.07	152

Appendix H Wind Data 1 October 2014

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

WIND DATA

WIND DATA			
Date	Time	Averaged Wind Speed (m/s)	Averaged Wind Direction (degrees)
09/18/14	02:03:44	2.45	285
09/18/14	03:03:44	2.94	88
09/18/14	04:03:44	2.97	242
09/18/14	05:03:44	2.98	89
09/18/14	06:03:44	2.74	241
09/18/14	07:03:44	1.68	142
09/18/14	08:03:44	0.43	83
09/18/14	09:03:44	0.50	61
		0.34	334
09/18/14	10:03:44		
09/18/14	11:03:44	0.35	356
09/18/14	12:03:44	1.01	313
09/18/14	13:03:44	1.66	294
09/18/14	14:03:44	0.29	285
09/18/14	15:03:44	0.25	354
09/18/14	16:03:44	0.55	113
09/23/14	16:03:44	0.01	39
09/23/14	17:03:44	0.28	72
09/23/14	18:03:44	0.29	113
09/23/14	19:03:44	0.39	242
09/23/14	20:03:44	0.77	234
09/23/14	21:03:44	0.49	221
09/23/14	22:03:44		227
		0.60	242
09/23/14	23:03:44	0.49	
09/24/14	00:03:44	0.52	265
09/24/14	01:03:44	0.50	231
09/24/14	02:03:44	1.01	236
09/24/14	03:03:44	0.74	276
09/24/14	04:03:44	0.60	252
09/24/14	05:03:44	0.67	273
09/24/14	06:03:44	0.52	269
09/24/14	07:03:44	0.48	279
09/24/14	08:03:44	0.42	299
09/24/14	09:03:44	0.29	13
09/24/14	10:03:44	0.10	104
09/24/14	11:03:44	0.04	46
09/24/14	12:03:44	1.34	270
09/24/14	13:03:44	2.50	309
09/24/14	14:03:44	0.70	282
09/24/14	14:32:06	0.20	229
09/24/14	15:32:06	0.10	47
09/24/14	16:32:06	0.91	295
09/29/14	15:32:06	0.18	250
09/29/14	16:32:06	0.25	272
09/29/14	17:32:06	0.03	273
09/29/14	18:32:06	0.24	125
09/29/14	19:32:06	0.70	238
09/29/14	20:32:06	1.27	239
09/29/14	21:32:06	0.35	250
09/29/14	22:32:06	0.45	237
09/29/14	23:32:06	0.38	237
09/30/14	00:32:06	0.45	134
09/30/14	01:32:06	0.22	245
09/30/14	02:32:06	0.25	260
09/30/14	03:32:06	0.15	260
09/30/14	04:32:06	0.14	251
09/30/14	05:32:06	0.48	248
09/30/14	06:32:06	0.85	236
09/30/14	07:32:06	0.77	287
09/30/14	08:32:06	0.17	328
09/30/14	09:32:06	0.08	24
09/30/14	10:32:06	0.27	308
00/00/17	10.02.00	V.E.	

Appendix H Wind Data 2 October 2014

Appendix I Impact Daytime Construction Noise Monitoring Results

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

Average

	Weather	No	ise Level for	30-min, dB(A)#		Baseline Noise	Limit Level,	
Date	Condition	Time	L90	L10	Leq	Averaged Wind Speed (m/s)	Level, dB(A)	dB(A)	Exceedance (Y/N)
2-Sep-14	Sunny	10:50	63	68	66	<5m/s	62.9	75	N
12-Sep-14	Cloudy	10:32	63	69	67	<5m/s	62.9	75	N
18-Sep-14	Sunny	10:35	63	69	66	<5m/s	62.9	75	N
24-Sep-14	Sunny	10:40	62	70	66	<5m/s	62.9	75	N
30-Sep-14	Sunny	10:30	64	67	66	<5m/s	62.9	75	N
		Min	62	67	66				·
		Max	64	70	67	1			

66

67

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

	Weather	No	ise Level for	30-min, dB(A)#		Baseline Noise	Limit Level,	
Date	Condition	Time	L90	L10	Leq	Averaged Wind Speed (m/s)	Level, dB(A) ^	dB(A)**	Exceedance (Y/N)
2-Sep-14	Sunny	11:36	64	68	67	<5m/s	66.3	70	N
12-Sep-14	Cloudy	11:25	64	70	68	<5m/s	66.3	70	N
18-Sep-14	Sunny	11:25	63	68	65	<5m/s	66.3	70	N
24-Sep-14	Sunny	11:30	67	70	69	<5m/s	66.3	70	N
30-Sep-14	Sunny	13:15	65	69	68	<5m/s	66.3	70	N
-	·	Min	63	68	65		·		
		Max	67	70	69				

Remark:

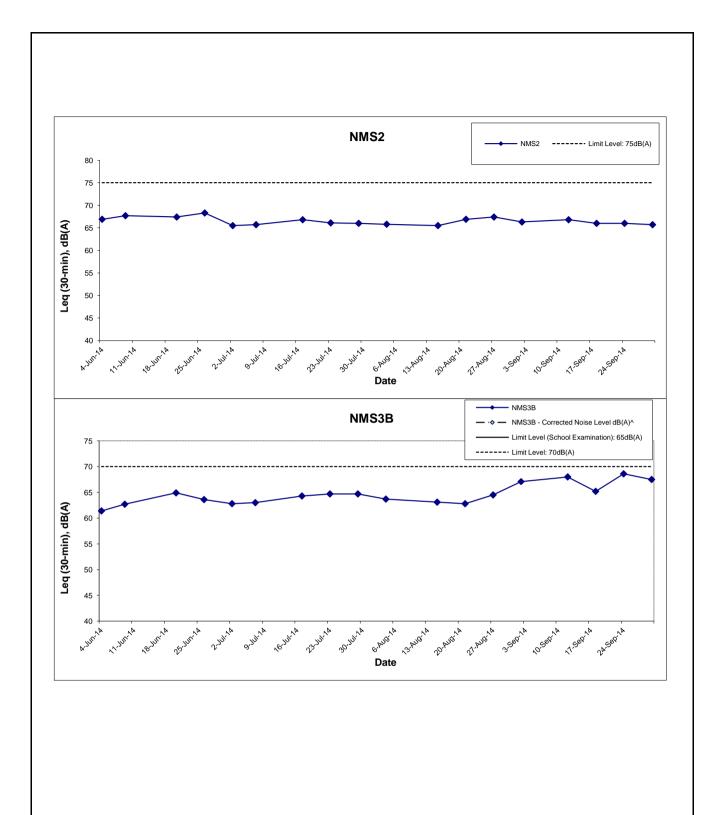
Average

[#] 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.



Remarks: Effective from July 2012, the Limit Level at NMS3A was revised to 70dB(A). Daytime noise Limit Level of 70 dB(A) applies to education institutions, while 65dB(A) applies during school examination period.

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- RECLAMATION WORKS

Graphical Presentation of Impact Daytime Construction Noise Monitoring Results



Project No.: 60249820 Date: July 2014 Appendix I

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

Date	Weather	Sea	Sampling	Water	Sampl	ling	Tempera	ature (°C)	p	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ed Oxygen	(mg/L)	Т	urbidity(NTl	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
1-Sep-14	Sunny	Moderate	16:30		Surface	1.0	29.6 29.5	29.5	8.1 8.1	8.1	18.3 18.0	18.1	79.8 80.5	80.2	5.5 5.5	5.5		4.8 4.5	4.7		3.3 2.0	2.7	
				6.3	Middle	3.2	28.1 27.9	28.0	8.1 8.1	8.1	21.9 23.3	22.6	80.3 76.9	78.6	5.5 5.2	5.4	5.5	4.6 4.5	4.6	4.6	3.7 4.2	4.0	3.8
					Bottom	5.3	27.9 27.8	27.8	8.1 8.1	8.1	25.2 25.4	25.3	73.4 75.5	74.5	5.1 5.2	5.1	5.1	4.5 4.5	4.5		4.2	4.6	
3-Sep-14	Sunny	Moderate	07:20		Surface	1.0	29.2 29.2	29.2	8.1 8.1	8.1	14.6 15.0	14.8	81.1 82.6	81.9	5.7 5.8	5.8		3.3	3.2		1.1	1.6	
				6.5	Middle	3.3	29.1	29.0	8.1	8.1	16.4	16.6	82.0	81.3	5.7	5.7	5.8	4.1	4.2	4.0	2.1	2.1	2.2
					Bottom	5.5	29.0	28.6	8.2 8.1	8.1	16.8 23.4	21.3	80.6 75.8	78.7	5.7	5.5	5.5	4.3	4.5		3.0	2.9	
5-Sep-14	Sunny	Moderate	10:00		Surface	1.0	29.1 28.4	28.4	8.1 8.2	8.2	19.1 22.1	22.1	81.5 81.7	81.2	5.7 5.6	5.6		4.3 1.8	1.9		2.7 1.6	1.8	
				6.8	Middle	3.4	28.4 28.0	28.1	8.2 8.2	8.2	22.2 24.4	23.9	80.7 77.9	77.2	5.5 5.2	5.2	5.4	2.0 3.3	3.2	3.2	1.9	1.8	2.2
				0.0	Bottom	5.8	28.2 27.9	27.9	8.2 8.1	8.1	23.4 28.4	28.3	76.4 75.6	74.3	5.1 5.1	5.0	5.0	3.1 4.3	4.4	5.2	1.8 3.1	2.9	2.2
8-Sep-14	Cloudy	Moderate	12:30				27.8 28.3		8.2 8.2		28.3 25.7		72.9 79.9		5.0 5.4		5.0	4.5 8.5	<u> </u> 		2.7 5.1		
·	,			0.0	Surface	1.0	28.2 28.1	28.3	8.2 8.2	8.2	26.3 27.0	26.0	84.3 80.6	82.1	5.7 5.5	5.5	5.5	8.8 8.8	8.7	0.0	6.4 5.0	5.8	
				6.3	Middle	3.2	28.1 28.1	28.1	8.2 8.1	8.2	27.2 27.7	27.1	79.7 79.4	80.2	5.4 5.4	5.4		8.8 8.9	8.8	8.8	4.8 6.4	4.9	5.8
10-Sep-14	Sunny	Moderate	13:03		Bottom	5.3	28.0	28.1	8.2 8.0	8.2	28.0	27.8	81.4 84.4	80.4	5.5 5.6	5.4	5.4	8.9 6.7	8.9		6.8	6.6	
10-Зер-14	Sullily	Moderate	13.03		Surface	1.0	29.7	29.8	8.1	8.1	23.5	23.4	83.0	83.7	5.6	5.6	5.5	6.6	6.7		5.9	6.1	
				6.7	Middle	3.4	29.4 29.0	29.2	8.1 8.1	8.1	23.8 25.1	24.5	81.5 80.8	81.2	5.5 5.4	5.4		8.8 8.7	8.8	8.5	5.7 4.2	5.0	5.4
					Bottom	5.7	28.8 28.9	28.9	8.1 8.0	8.1	26.2 26.2	26.2	80.5 82.0	81.3	5.4 5.5	5.4	5.4	9.6 10.3	10.0		5.6 4.3	5.0	
12-Sep-14	Sunny	Moderate	14:31		Surface	1.0	29.0 29.0	29.0	8.1 8.1	8.1	24.6 24.7	24.6	79.6 80.4	80.0	5.5 5.5	5.5	5.5	8.6 8.6	8.6		13.8 13.6	13.7	
				6.6	Middle	3.3	28.9 28.9	28.9	8.1 8.1	8.1	25.4 25.7	25.6	79.7 79.3	79.5	5.5 5.4	5.5	0.0	8.8 8.6	8.7	8.7	13.6 13.7	13.7	13.7
					Bottom	5.6	28.9 28.8	28.9	8.0 8.0	8.0	26.6 26.7	26.6	81.0 82.8	81.9	5.5 5.7	5.6	5.6	8.7 8.9	8.8		13.6 13.7	13.7	
15-Sep-14 ***	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	-	-	-	-	-	-	-		-	-	-	-	-	-	<u>=</u>	-	-	<u> </u>
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
17-Sep-14	Cloudy	Moderate	08:06		Surface	1.0	28.2 28.2	28.2	8.1 8.1	8.1	25.1 25.0	25.1	86.5 86.3	86.4	5.9 5.9	5.9		5.0 4.9	5.0		6.4 6.5	6.5	
				6.9	Middle	3.5	28.2 28.2	28.2	8.2 8.1	8.2	25.5 25.9	25.7	86.1 86.1	86.1	5.8 5.8	5.8	5.9	5.1 5.0	5.1	5.2	7.9 7.9	7.9	8.6
					Bottom	5.9	28.1 28.0	28.1	8.1 8.2	8.1	27.2 27.3	27.3	86.1 86.2	86.2	5.8 5.8 5.8	5.8	5.8	5.4 5.6	5.5		11.3 11.6	11.5	
19-Sep-14	Sunny	Moderate	10:47		Surface	1.0	29.4	29.4	8.2	8.2	14.2	14.1	93.0	92.9	6.6	6.6		3.2	3.2		2.2	2.4	
				6.4	Middle	3.2	29.4 29.1	29.1	8.2 8.2	8.2	15.8	15.8	92.8 88.5	89.9	6.6	6.3	6.5	3.2	3.3	3.3	2.6	2.9	2.8
					Bottom	5.4	29.2 28.4	28.7	8.2 8.1	8.1	15.8 28.1	25.7	91.3 88.1	89.9	6.4 5.9	6.0	6.0	3.3	3.4		3.0	3.2	1
					DOLLOITI	J. T	29.1	20.1	8.1	0.1	23.2	20.1	91.6	03.3	6.2	0.0	0.0	3.5	5.4		3.4	J.Z	<u> </u>

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Monitoring was cancelled as typhoon signal was hoisted by HKO.

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

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)		ЭΗ	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	1	urbidity(NT	J)	Suspe	nded Solids	(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*
22-Sep-14	Sunny	Moderate	12:30		Surface	1.0	27.8 27.8	27.8	8.3 8.3	8.3	30.1 30.1	30.1	99.9 99.5	99.7	6.6 6.6	6.6	6.6	11.1 11.1	11.1		13.1 13.7	13.4	
				6.4	Middle	3.2	27.7 27.7	27.7	8.3 8.3	8.3	30.5 30.5	30.5	98.9 99.8	99.4	6.6 6.6	6.6	0.0	11.1 11.2	11.2	11.2	13.1 12.8	13.0	13.7
					Bottom	5.4	27.7 27.7	27.7	8.3 8.3	8.3	30.7 30.6	30.6	101.1 99.6	100.4	6.7 6.6	6.7	6.7	11.2 11.1	11.2		14.2 15.0	14.6	
24-Sep-14	Sunny	Moderate	13:29		Surface	1.0	28.5 28.6	28.5	8.2 8.2	8.2	26.3 25.8	26.0	90.1 87.6	88.9	6.0 5.9	6.0	6.0	2.3 2.5	2.4		5.5 5.7	5.6	
				6.5	Middle	3.3	28.3 28.3	28.3	8.2 8.2	8.2	27.9 28.0	27.9	86.2 89.5	87.9	5.8 6.0	5.9	0.0	2.6 2.1	2.4	2.4	5.3 5.8	5.6	5.8
					Bottom	5.5	28.3 28.3	28.3	8.2 8.2	8.2	28.1 28.1	28.1	86.7 92.2	89.5	5.8 6.2	6.0	6.0	2.3 2.2	2.3		5.7 6.6	6.2	
26-Sep-14	Fine	Moderate	13:31		Surface	1.0	29.3 29.0	29.2	8.2 8.2	8.2	23.5 23.8	23.7	87.5 86.0	86.8	5.9 5.8	5.8	5.8	7.1 7.3	7.2		2.5 2.1	2.3	
				6.5	Middle	3.3	28.8 28.7	28.7	8.2 8.2	8.2	24.9 26.1	25.5	84.3 84.6	84.5	5.7 5.7	5.7	3.6	7.7 7.7	7.7	7.6	2.7 3.3	3.0	2.8
					Bottom	5.5	28.7 28.5	28.6	8.2 8.2	8.2	26.9 26.9	26.9	86.2 84.7	85.5	5.8 5.7	5.7	5.7	7.6 7.9	7.8		3.3 2.7	3.0	
29-Sep-14	Sunny	Moderate	15:31		Surface	1.0	29.5 29.6	29.5	8.1 8.1	8.1	21.7 21.6	21.6	81.9 82.2	82.1	5.5 5.6	5.6	5.5	6.6 6.3	6.5		5.8 6.0	5.9	
				6.5	Middle	3.3	29.0 29.0	29.0	8.1 8.1	8.1	24.1 24.1	24.1	78.9 80.2	79.6	5.3 5.4	5.4	3.3	6.5 6.6	6.6	6.6	6.5 6.6	6.6	7.0
					Bottom	5.5	29.1 29.0	29.1	8.1 8.1	8.1	25.0 25.1	25.0	82.1 80.1	81.1	5.5 5.4	5.4	5.4	6.6 6.6	6.6		8.6 8.6	8.6	
1-Oct-14	0	0	0		Surface	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	_	0.0 0.0	0.0	
				1.0	Middle	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	0.0
					Bottom	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0		0.0 0.0	0.0	

Remarks:

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

- DA: Depth-Averaged
- ** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
- *** Monitoring was cancelled as typhoon signal was hoisted by HKO.

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

Date	Weather	Sea	Sampling	Water	Sampl	ing	Tempera	ature (°C)	ŗ	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-Sep-14	Sunny	Moderate	11:29		Surface	1.0	28.6 28.2	28.4	8.1 8.1	8.1	20.3 21.2	20.7	73.3 77.0	75.2	5.1 5.3	5.2		8.3 8.5	8.4		3.2 3.0	3.1	
				6.4	Middle	3.2	27.7 27.7	27.7	8.0 8.1	8.1	24.5 24.6	24.5	72.9 73.1	73.0	5.1 5.0	5.1	5.2	8.8 8.5	8.7	8.6	4.1 3.7	3.9	3.5
					Bottom	5.4	27.6 27.7	27.7	8.0	8.0	24.8	24.8	72.2 71.6	71.9	5.0	4.9	4.9	8.7 8.6	8.7		3.4	3.6	
3-Sep-14	Sunny	Moderate	14:13				29.9		8.1 8.2		14.2		85.8		6.0			4.6			3.8 2.8		
5 55p · ·	,				Surface	1.0	29.9 28.4	29.9	8.1 8.1	8.2	14.1 22.7	14.2	88.5 74.8	87.2	6.2 5.1	6.1	5.6	4.1 7.3	4.4		2.6	2.7	
				6.6	Middle	3.3	28.5	28.5	8.1 8.1	8.1	21.2	21.9	74.1 71.0	74.5	5.1 4.9	5.1		7.4	7.4	6.7	3.2	3.0	3.2
					Bottom	5.6	28.0	28.1	8.0	8.1	25.0	24.9	73.1	72.1	5.0	4.9	4.9	8.6	8.3		3.8	3.9	
5-Sep-14	Sunny	Moderate	16:27		Surface	1.0	28.8 28.8	28.8	8.1 8.1	8.1	22.5 22.5	22.5	81.6 85.9	83.8	5.6 5.9	5.7	5.5	2.8 2.5	2.7		2.9 2.8	2.9	
				6.8	Middle	3.4	28.2 28.6	28.4	8.1 8.1	8.1	24.8 22.6	23.7	79.5 74.5	77.0	5.3 5.1	5.2	0.0	4.6 4.6	4.6	4.5	4.0 4.0	4.0	3.9
					Bottom	5.8	27.9 28.0	28.0	8.1 8.1	8.1	27.9 25.5	26.7	73.4 71.7	72.6	5.0 4.9	4.9	4.9	6.3 6.2	6.3		4.9 4.9	4.9	
8-Sep-14	Cloudy	Moderate	18:29		Surface	1.0	28.5 28.6	28.6	8.1 8.1	8.1	24.8 24.8	24.8	81.2 81.5	81.4	5.5 5.5	5.5		11.2 11.7	11.5		11.3 11.1	11.2	
				6.4	Middle	3.2	28.3	28.4	8.1	8.1	25.9	25.4	79.0	79.4	5.4	5.4	5.5	11.2	11.2	11.4	11.7	11.8	11.8
					Bottom	5.4	28.4	28.3	8.1	8.1	25.0 26.2	26.2	79.8 80.3	80.4	5.4 5.4	5.4	5.4	11.2	11.4		11.8	12.4	
10-Sep-14	Sunny	Moderate	07:56		Surface	1.0	28.3 28.6	28.6	8.1 8.0	8.1	26.1 25.3	25.3	80.5 90.6	87.9	5.5 6.1	5.9		11.4 11.3	11.6		12.3 6.1	5.9	
				6.7	Middle	3.4	28.6 28.5	28.5	8.1 8.0	8.1	25.3 25.7	25.7	85.1 82.0	80.5	5.7 5.5	5.4	5.7	11.9 12.8	12.5	12.9	5.6 6.5	6.7	7.1
				6.7			28.5 28.5		8.1 8.0		25.7 25.8		78.9 78.0		5.3 5.2	-		12.2 15.0		12.9	6.9 8.5		/.1
12-Sep-14	Sunny	Moderate	09:26		Bottom	5.7	28.5 29.0	28.5	8.1 7.9	8.1	25.8 24.5	25.8	78.4 77.6	78.2	5.3 5.4	5.3	5.3	14.1	14.6		9.0	8.8	
12-3ep-14	Suring	Moderate	09.26		Surface	1.0	28.9	28.9	8.0	8.0	24.8	24.6	76.3	77.0	5.3	5.3	5.3	13.7	13.8		12.8	12.8	
				6.5	Middle	3.3	28.8 28.8	28.8	7.9 8.0	7.9	25.1 25.1	25.1	76.9 75.9	76.4	5.3 5.2	5.3		13.8 13.8	13.8	13.9	13.4 12.6	13.0	13.0
					Bottom	5.5	28.8 28.8	28.8	8.0 7.7	7.8	25.2 25.2	25.2	76.6 80.9	78.8	5.3 5.6	5.4	5.4	13.7 14.2	14.0		13.0 13.3	13.2	
15-Sep-14	Sunny	Rough	12:30		Surface	1.0	29.1 29.3	29.2	8.0 8.0	8.0	24.1 24.9	24.5	79.1 77.8	78.5	5.9 5.9	5.9	5.0	5.3 5.4	5.4		5.6 6.4	6.0	
				6.5	Middle	3.3	28.9 28.9	28.9	8.0 8.0	8.0	26.0 25.9	25.9	79.8 78.6	79.2	5.9 5.8	5.9	5.9	5.4 5.7	5.6	5.5	3.9 3.8	3.9	4.8
					Bottom	5.5	29.1 28.9	29.0	8.0 8.0	8.0	25.9 26.0	26.0	78.5 79.3	78.9	5.9 5.8	5.9	5.9	5.3 5.5	5.4		4.4 4.6	4.5	
17-Sep-14	Cloudy	Moderate	19:36		Surface	1.0	28.6	28.6	8.1	8.1	23.1	23.2	87.2	87.4	5.9	6.0		4.1	4.1		3.8	4.0	
				6.9	Middle	3.5	28.6 28.4	28.4	8.1 8.1	8.1	23.2 24.2	24.1	87.6 85.3	85.8	6.0 5.8	5.8	5.9	4.0	4.6	4.8	4.1	4.4	4.5
				0.0	Bottom	5.9	28.5 28.1	28.1	8.1 8.1	8.1	24.0 26.5	26.7	86.3 85.5	85.3	5.9 5.8	5.7	5.7	4.5 5.5	5.6		4.2 5.4	5.2	
19-Sep-14	Sunny	Moderate	16:51	1			28.1 29.6		8.1 8.2		26.9 16.6		85.1 87.3		5.7 6.1		5.1	5.7 8.3			5.0 5.6		
10 000 14	- Cu,				Surface	1.0	29.2 28.5	29.4	8.2 8.1	8.2	17.1 23.5	16.8	83.6 82.8	85.5	5.8 5.6	6.0	5.8	8.1 8.4	8.2		5.1 5.9	5.4	ł
				6.4	Middle	3.2	28.4	28.5	8.1	8.1	24.4	23.9	80.0	81.4	5.4	5.5		8.4	8.4	8.4	6.2	6.1	5.8
					Bottom	5.4	28.6 28.3	28.5	8.1 8.1	8.1	26.4 26.8	26.6	85.5 81.8	83.7	5.7 5.5	5.6	5.6	8.6 8.5	8.6		6.3 5.7	6.0	

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Monitoring was cancelled as typhoon signal was hoisted by HKO.

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

Date	Weather	Sea	Sampling	Water	Samp	ling	Temper	ature (°C)		ЭΗ	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Т	urbidity(NT	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
22-Sep-14	Sunny	Moderate	17:56		Surface	1.0	28.3 28.3	28.3	8.3 8.3	8.3	28.1 27.9	28.0	98.1 99.0	98.6	6.5 6.6	6.6	6.6	2.4 2.6	2.5		6.5 5.8	6.2	
				6.6	Middle	3.3	28.3 28.3	28.3	8.3 8.3	8.3	29.1 28.6	28.8	97.4 97.7	97.6	6.5 6.5	6.5	0.0	2.7 2.6	2.7	2.7	7.0 6.2	6.6	7.1
					Bottom	5.6	28.2 28.2	28.2	8.3 8.3	8.3	29.7 29.7	29.7	99.3 98.4	98.9	6.6 6.5	6.5	6.5	2.7 2.9	2.8		8.2 8.7	8.5	
24-Sep-14	Fine	Moderate	19:02		Surface	1.0	28.8 28.8	28.8	8.2 8.2	8.2	24.8 24.9	24.8	87.0 88.6	87.8	5.9 6.0	5.9	5.9	2.7 2.9	2.8		6.9 6.8	6.9	
				7.6	Middle	3.8	28.7 28.8	28.7	8.2 8.2	8.2	25.9 25.6	25.8	86.8 89.9	88.4	5.8 6.0	5.9	0.0	2.6 2.9	2.8	2.7	9.2 9.4	9.3	8.8
					Bottom	6.6	28.7 28.7	28.7	8.2 8.2	8.2	26.3 26.4	26.4	94.4 86.5	90.5	6.1 5.8	5.9	5.9	2.6 2.4	2.5		10.0 10.4	10.2	
26-Sep-14	Sunny	Moderate	08:18		Surface	1.0	28.5 28.5	28.5	8.2 8.2	8.2	25.6 26.6	26.1	86.2 84.4	85.3	5.8 5.7	5.7	5.8	10.3 10.4	10.4		7.2 7.8	7.5	
				6.5	Middle	3.3	28.5 28.5	28.5	8.2 8.2	8.2	27.1 27.1	27.1	84.5 88.4	86.5	5.6 5.9	5.8	3.6	10.2 10.1	10.2	10.3	7.9 8.1	8.0	8.6
					Bottom	5.5	28.5 28.5	28.5	8.2 8.2	8.2	27.1 27.1	27.1	84.8 91.4	88.1	5.7 6.1	5.9	5.9	10.3 10.2	10.3		10.2 10.1	10.2	
29-Sep-14	Sunny	Moderate	10:30		Surface	1.0	29.3 29.3	29.3	8.1 8.1	8.1	22.1 22.1	22.1	81.1 81.0	81.1	5.5 5.5	5.5	5.5	10.2 10.3	10.3		3.8 3.6	3.7	
				6.6	Middle	3.3	29.0 29.0	29.0	8.1 8.1	8.1	24.6 24.6	24.6	80.7 79.4	80.1	5.4 5.3	5.4	3.3	10.5 10.1	10.3	10.3	4.8 4.5	4.7	4.9
					Bottom	5.6	29.0 29.0	29.0	8.1 8.1	8.1	24.6 24.9	24.8	80.9 81.8	81.4	5.4 5.5	5.5	5.5	10.2 10.4	10.3		6.2 6.2	6.2	
1-Oct-14	0	0	0		Surface	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	_	0.0 0.0	0.0	
				1.0	Middle	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	0.0
					Bottom	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0		0.0 0.0	0.0	<u> </u>

Remarks:

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

- DA: Depth-Averaged
- ** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
- *** Monitoring was cancelled as typhoon signal was hoisted by HKO.

Water Quality Monitoring Results at CS4 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampl	ling	Tempera	ature (°C)	р	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	T	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-Sep-14	Sunny	Moderate	16:08		Surface	1.0	29.6 29.5	29.6	8.1 8.1	8.1	18.4 18.5	18.4	82.3 79.5	80.9	5.7 5.5	5.6		4.4 4.6	4.5		2.4 2.8	2.6	
				16.2	Middle	8.1	27.7 27.7	27.7	8.1 8.1	8.1	24.9 24.9	24.9	78.7 78.3	78.5	5.4 5.3	5.4	5.5	5.6 5.5	5.6	5.2	2.7	2.9	2.8
					Bottom	15.2	27.7 27.7	27.7	8.1 8.0	8.0	25.6 25.5	25.5	72.2 72.5	72.4	4.9 5.0	5.0	5.0	5.7 5.4	5.6		2.5	2.8	
3-Sep-14	Sunny	Moderate	07:51		Surface	1.0	29.2 29.1	29.2	8.1 8.1	8.1	14.9 15.9	15.4	82.2 81.7	82.0	5.8 5.8	5.8		2.5 2.5	2.5		1.9	2.1	
				16.4	Middle	8.2	28.9 29.0	28.9	8.1 8.1	8.1	17.9 17.2	17.5	76.1 76.0	76.1	5.3 5.3	5.3	5.6	3.1 3.3	3.2	3.3	2.4	2.2	2.3
					Bottom	15.4	28.5 28.6	28.5	8.0 8.0	8.0	23.1	22.8	73.0 70.2	71.6	5.0 4.8	4.9	4.9	4.3 4.1	4.2		2.4	2.6	
5-Sep-14	Sunny	Moderate	10:19		Surface	1.0	28.4 28.5	28.5	8.2 8.2	8.2	22.0 22.1	22.1	83.9 83.1	83.5	5.8 5.7	5.7		2.3	2.2		1.9 1.9	1.9	
				16.2	Middle	8.1	27.8 27.8	27.8	8.2 8.2	8.2	28.7	28.8	80.5 79.0	79.8	5.5 5.4	5.5	5.6	4.5 4.3	4.4	4.9	2.1	2.2	2.3
					Bottom	15.2	27.9 27.8	27.8	8.1 8.1	8.1	28.9	29.1	77.2 74.9	76.1	5.2	5.1	5.1	8.1 8.3	8.2		2.7	2.7	
8-Sep-14	Cloudy	Moderate	13:00		Surface	1.0	28.6 28.6	28.6	8.1 8.1	8.1	25.1 25.1	25.1	81.8 81.8	81.8	5.5 5.5	5.5		8.2 8.4	8.3		7.4 7.2	7.3	
				16.3	Middle	8.2	28.1 28.0	28.0	8.1 8.2	8.2	27.7	28.0	81.6 77.6	79.6	5.5 5.2	5.4	5.5	8.6 8.7	8.7	8.6	7.0	6.7	7.2
					Bottom	15.3	28.0 28.4	28.2	8.2 8.1	8.1	28.3 27.6	27.9	78.2 79.4	78.8	5.3 5.4	5.3	5.3	8.7 8.8	8.8		7.5 7.7	7.6	
10-Sep-14	Sunny	Moderate	12:46		Surface	1.0	29.7 29.6	29.7	8.1 8.1	8.1	23.4 23.5	23.5	83.3 83.7	83.5	5.6 5.6	5.6		7.7 7.8	7.8		5.4 5.4	5.4	
				16.3	Middle	8.2	28.7 28.8	28.7	8.1 8.1	8.1	26.5 26.4	26.5	78.9 79.2	79.1	5.3 5.3	5.3	5.5	9.7 9.3	9.5	9.4	8.1 6.2	7.2	6.5
					Bottom	15.3	28.7 28.8	28.8	8.1 8.1	8.1	26.5 26.4	26.5	79.7 80.6	80.2	5.3 5.4	5.3	5.3	10.6 10.9	10.8		6.8	6.8	
12-Sep-14	Sunny	Moderate	14:06		Surface	1.0	29.1	29.1	8.1 8.1	8.1	24.3 24.3	24.3	81.3 80.0	80.7	5.6 5.5	5.6		8.6 8.7	8.7		12.0 11.5	11.8	
				16.3	Middle	8.2	28.8 28.8	28.8	8.1 8.1	8.1	26.7 26.6	26.7	76.2 77.5	76.9	5.2 5.3	5.3	5.5	8.7 8.7	8.7	8.8	12.9 13.3	13.1	13.5
					Bottom	15.3	28.9 28.8	28.8	8.0 8.0	8.0	26.6 26.6	26.6	80.5 77.5	79.0	5.5 5.3	5.4	5.4	8.9 9.3	9.1		15.9 15.2	15.6	
15-Sep-14 ***	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	=	-	-	<u> </u>
					Bottom	-	-	-	1 1	-		-	-	-	-	-	-	-	-		-	-	
17-Sep-14	Cloudy	Moderate	08:23		Surface	1.0	28.3 28.3	28.3	8.1 8.1	8.1	25.2 25.1	25.2	85.6 85.7	85.7	5.8 5.8	5.8	5.8	4.9 4.7	4.8		7.0 7.1	7.1	
				18.4	Middle	9.2	28.2 28.2	28.2	8.1 8.1	8.1	25.3 25.3	25.3	85.1 85.0	85.1	5.8 5.8	5.8	J.0	5.0 5.1	5.1	5.1	7.7 7.9	7.8	8.1
					Bottom	17.4	28.1 28.1	28.1	8.1 8.1	8.1	27.2 27.2	27.2	85.1 84.8	85.0	5.7 5.7	5.7	5.7	5.4 5.6	5.5		9.3 9.3	9.3	
19-Sep-14	Sunny	Moderate	11:05		Surface	1.0	29.3 29.4	29.4	8.2 8.2	8.2	13.9 14.2	14.1	89.8 91.9	90.9	6.4 6.5	6.4	6.2	4.6 4.5	4.6	_	5.9 5.3	5.6	
				16.4	Middle	8.2	28.6 29.1	28.8	8.1 8.1	8.1	27.9 23.9	25.9	87.6 90.3	89.0	5.8 6.1	5.9	U.Z	4.5 4.5	4.5	4.6	7.0 7.0	7.0	6.9
					Bottom	15.4	28.9 28.7	28.8	8.1 8.0	8.0	26.0 27.7	26.8	89.6 91.2	90.4	6.0 6.1	6.0	6.0	4.6 4.5	4.6		8.2 7.7	8.0	

DA: Depth-Averaged

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

^{***} Cancelled due to Thunderstorm Warning and safety concern.

Water Quality Monitoring Results at CS4 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	ī	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	1	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*
22-Sep-14	Sunny	Moderate	12:56		Surface	1.0	27.9 27.9	27.9	8.3 8.3	8.3	30.0 29.9	30.0	97.7 98.8	98.3	6.5 6.6	6.5	6.4	11.4 11.7	11.6		15.1 14.7	14.9	
				16.1	Middle	8.1	27.7 27.7	27.7	8.3 8.3	8.3	30.8 30.8	30.8	96.4 94.5	95.5	6.4 6.3	6.3	0.4	11.5 11.5	11.5	11.6	17.6 17.0	17.3	17.7
					Bottom	15.1	27.8 27.8	27.8	8.3 8.3	8.3	31.1 30.8	30.9	97.1 98.1	97.6	6.4 6.5	6.5	6.5	12.1 11.5	11.8		21.1 20.8	21.0	
24-Sep-14	Sunny	Moderate	13:48		Surface	1.0	28.6 28.8	28.7	8.2 8.2	8.2	25.8 25.7	25.8	88.8 89.6	89.2	6.0 6.0	6.0	6.0	6.9 6.4	6.7		6.9 7.1	7.0	
				16.9	Middle	8.5	28.2 28.2	28.2	8.2 8.2	8.2	28.2 28.3	28.3	87.9 89.4	88.7	5.9 6.0	5.9	0.0	6.7 6.6	6.7	6.6	7.2 7.7	7.5	8.2
					Bottom	15.9	28.2 28.4	28.3	8.2 8.2	8.2	28.2 28.1	28.2	94.9 89.0	92.0	6.3 5.9	6.1	6.1	6.4 6.4	6.4		10.3 9.9	10.1	
26-Sep-14	Fine	Moderate	13:11		Surface	1.0	29.2 29.2	29.2	8.2 8.2	8.2	23.6 23.6	23.6	86.5 86.5	86.5	5.8 5.8	5.8	5.7	5.6 5.5	5.6		2.6 2.3	2.5	
				16.4	Middle	8.2	28.5 28.5	28.5	8.2 8.2	8.2	27.0 27.0	27.0	82.7 82.8	82.8	5.5 5.5	5.5	3.7	5.6 5.6	5.6	5.6	2.8 3.4	3.1	2.8
					Bottom	15.4	28.5 28.8	28.7	8.2 8.2	8.2	27.0 26.8	26.9	87.7 86.8	87.3	5.9 5.8	5.8	5.8	5.5 5.5	5.5		3.2 2.6	2.9	
29-Sep-14	Sunny	Moderate	15:06		Surface	1.0	29.5 29.5	29.5	8.1 8.1	8.1	21.7 21.8	21.8	81.0 80.9	81.0	5.5 5.5	5.5	5.4	7.5 7.4	7.5		5.6 5.4	5.5	
				16.6	Middle	8.3	29.0 29.0	29.0	8.1 8.1	8.1	25.5 25.8	25.6	78.5 78.2	78.4	5.2 5.2	5.2	3.4	7.7 7.7	7.7	7.6	5.6 5.4	5.5	5.6
					Bottom	15.6	29.0 29.1	29.0	8.1 8.1	8.1	25.7 25.7	25.7	81.8 81.5	81.7	5.5 5.4	5.4	5.4	7.6 7.8	7.7		5.8 5.9	5.9	
1-Oct-14	0	0	0		Surface	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	_	0.0 0.0	0.0	
				1.0	Middle	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	0.0
					Bottom	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0		0.0 0.0	0.0	

Remarks:

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

- DA: Depth-Averaged
- ** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
- *** Cancelled due to Thunderstorm Warning and safety concern.

Water Quality Monitoring Results at CS4 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ed Oxygen	(mg/L)	To	urbidity(NTI	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-Sep-14	Sunny	Moderate	11:55		Surface	1.0	28.5 28.7	28.6	8.1 8.1	8.1	20.5 20.4	20.5	73.2 74.2	73.7	5.1 5.1	5.1		6.2 6.1	6.2		3.0 3.3	3.2	
				17.2	Middle	8.6	27.6	27.6	8.1	8.1	24.8	24.8	73.1	72.8	5.0	5.0	5.1	6.6 6.7	6.7	6.6	3.4 3.3	3.4	3.5
					Bottom	16.2	27.6 27.6	27.7	8.1 8.1	8.1	24.8	24.6	72.5 72.3	72.3	5.0	5.0	5.0	6.9	6.9	Ì	3.9	3.9	
3-Sep-14	Sunny	Moderate	13:54		Surface	1.0	27.8 29.9	29.9	8.1 8.1	8.1	24.7 14.0	14.0	72.3 89.4	89.1	5.0 6.3	6.2		6.8 5.5	5.4		3.8 1.2	1.5	
				40.0		8.2	29.9 28.0		8.1 8.1		14.1 25.0		88.8 76.7		6.2 5.3		5.7	5.2 8.5		8.2	1.8 4.2		
				16.3	Middle		27.8 27.9	27.9	8.1 8.0	8.1	25.5 25.3	25.3	76.3 72.5	76.5	5.2 5.0	5.2		8.2 10.7	8.4	8.2	4.0	4.1	3.4
5 Can 44	Commen	Madasata	40.00		Bottom	15.3	27.7	27.8	8.0	8.0	25.9	25.6	73.3	72.9	5.0	5.0	5.0	10.6	10.7	<u> </u>	4.6	4.7	<u> </u>
5-Sep-14	Sunny	Moderate	16:08		Surface	1.0	28.8	28.8	8.2 8.2	8.2	22.6 22.5	22.6	82.8 84.5	83.7	5.6 5.8	5.7	5.5	3.1	3.2		3.2 3.1	3.2	
				16.1	Middle	8.1	27.8 27.9	27.9	8.1 8.1	8.1	28.1 27.2	27.6	78.3 76.2	77.3	5.3 5.1	5.2		4.5 4.1	4.3	4.9	4.0 3.1	3.6	3.7
					Bottom	15.1	27.9 27.9	27.9	8.1 8.1	8.1	27.9 28.0	27.9	71.1 71.5	71.3	4.8 4.8	4.8	4.8	7.2 6.9	7.1	1	4.2 4.2	4.2	
8-Sep-14	Cloudy	Moderate	18:00		Surface	1.0	28.6 28.6	28.6	8.1 8.1	8.1	24.7 24.7	24.7	81.3 80.5	80.9	5.5 5.5	5.5		8.3 8.3	8.3		11.5 12.1	11.8	
				16.7	Middle	8.4	28.3 28.3	28.3	8.1 8.1	8.1	26.2 25.9	26.1	78.8 78.6	78.7	5.3 5.3	5.3	5.4	8.5 8.5	8.5	8.5	11.8	12.3	12.4
					Bottom	15.7	28.3 28.3	28.3	8.1	8.1	26.3	26.2	80.6	80.3	5.5 5.4	5.4	5.4	8.7 8.8	8.8	Ì	12.7	13.0	
10-Sep-14	Sunny	Moderate	08:14		Surface	1.0	28.6	28.6	8.0	8.0	26.1 25.2	25.3	77.6	77.2	5.2	5.2		10.9	11.1		6.0	6.0	
				16.7	Middle	8.4	28.6 28.5	28.5	8.0	8.0	25.3 25.8	25.8	76.7 76.1	76.2	5.2 5.1	5.1	5.2	11.2 15.6	15.7	14.4	6.0	6.3	6.6
					Bottom	15.7	28.5 28.5	28.5	8.0 8.0	8.0	25.8 25.9	25.8	76.2 76.6	76.8	5.1 5.2	5.2	5.2	15.7 16.6	16.4		6.4 7.9	7.6	- 5.5
12-Sep-14	Sunny	Moderate	09:51				28.5 28.9		8.0		25.8 24.7		76.9 75.7		5.2 5.2		5.2	16.2 12.3		<u> </u>	7.3 13.1		<u> </u>
54	· · · · · · · · · · · · · · · · · · ·				Surface	1.0	29.0	28.9	8.0	8.0	24.5 25.1	24.6	76.2 74.9	76.0	5.3	5.2	5.2	12.4	12.4	l	13.7 15.3	13.4	<u> </u>
				17.0	Middle	8.5	28.8	28.8	8.0	8.0	25.2	25.2	74.7	74.8	5.1	5.2		12.3	12.4	12.4	15.0	15.2	15.0
					Bottom	16.0	28.8 28.8	28.8	8.0 8.0	8.0	25.2 25.2	25.2	75.5 75.5	75.5	5.2 5.2	5.2	5.2	12.3 12.4	12.4	<u></u>	16.4 16.5	16.5	
15-Sep-14	Sunny	Rough	12:52		Surface	1.0	29.2 29.2	29.2	8.0 8.0	8.0	24.9 24.9	24.9	76.3 76.8	76.6	5.6 5.7	5.6	5.6	5.6 5.3	5.5		9.8 9.0	9.4	
				16.7	Middle	8.4	28.7 28.7	28.7	8.0 8.0	8.0	26.9 26.9	26.9	75.4 76.2	75.8	5.6 5.6	5.6	0.0	5.2 5.6	5.4	5.4	12.1 12.6	12.4	9.8
					Bottom	15.7	29.0 28.9	29.0	8.0 8.0	8.0	26.8 26.5	26.6	77.4 77.9	77.7	5.7 5.9	5.8	5.8	5.6 5.1	5.4	Ì	7.8 7.2	7.5	
17-Sep-14	Cloudy	Moderate	19:19		Surface	1.0	28.6 28.6	28.6	8.2 8.1	8.2	23.1 23.1	23.1	88.5 88.8	88.7	6.0 6.1	6.0		3.5 3.5	3.5		2.4	2.4	
				18.3	Middle	9.2	28.4	28.4	8.1	8.1	23.9	23.9	86.9	87.0	5.9	5.9	6.0	4.7	4.6	4.3	2.6	2.7	2.9
					Bottom	17.3	28.4 28.3	28.2	8.1 8.1	8.1	24.0 25.9	26.0	87.1 86.9	86.9	5.9 5.9	5.9	5.9	4.5 4.8	4.9	ĺ	3.9	3.6	1
19-Sep-14	Sunny	Moderate	16:22		Surface	1.0	28.2 29.5	29.4	8.1 8.2	8.2	26.1 17.5	17.5	86.9 86.4	85.2	5.9 6.0	5.9		5.0 8.7	8.6		3.3 5.4	5.4	
				40.7			29.3 28.4		8.2 8.1		17.5 25.9		83.9 79.2		5.8 5.3		5.6	8.5 8.6		0.0	5.4 6.1	_	
				16.7	Middle	8.4	28.4	28.4	8.1 8.1	8.1	26.9 26.7	26.4	77.9 78.9	78.6	5.2 5.3	5.3		8.6 8.6	8.6	8.6	6.2 7.0	6.2	6.3
					Bottom	15.7	28.3	28.5	8.1	8.1	26.9	26.8	78.2	78.6	5.2	5.3	5.3	8.5	8.6	<u> </u>	7.8	7.4	

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Water Quality Monitoring Results at CS4 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Temper	ature (°C)		Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	1	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-Sep-14	Sunny	Moderate	17:31		Surface	1.0	28.3 28.3	28.3	8.3 8.3	8.3	28.2 28.1	28.2	97.4 97.7	97.6	6.5 6.5	6.5	6.5	4.2 4.2	4.2		6.1 6.1	6.1	
				16.6	Middle	8.3	28.2 28.1	28.2	8.3 8.3	8.3	29.6 29.9	29.8	96.6 96.0	96.3	6.4 6.4	6.4	0.0	4.2 4.4	4.3	4.3	7.3 8.1	7.7	7.3
					Bottom	15.6	28.1 28.2	28.1	8.3 8.3	8.3	30.1 29.9	30.0	99.7 97.5	98.6	6.6 6.4	6.5	6.5	4.5 4.5	4.5		7.6 8.4	8.0	
24-Sep-14	Fine	Moderate	18:47		Surface	1.0	28.8 28.8	28.8	8.2 8.2	8.2	24.8 24.9	24.8	87.1 87.6	87.4	5.9 5.9	5.9	5.9	6.4 6.6	6.5		5.3 5.5	5.4	
				17.2	Middle	8.6	28.7 28.7	28.7	8.2 8.2	8.2	26.0 25.9	26.0	87.7 87.0	87.4	5.9 5.8	5.8	5.9	6.1 6.8	6.5	6.5	6.5 6.5	6.5	6.2
					Bottom	16.2	28.8 28.7	28.8	8.2 8.2	8.2	26.0 26.1	26.1	87.0 88.1	87.6	5.8 5.9	5.9	5.9	6.9 6.0	6.5		6.7 6.4	6.6	
26-Sep-14	Sunny	Moderate	08:39		Surface	1.0	28.5 28.5	28.5	8.2 8.2	8.2	26.2 25.4	25.8	83.1 83.2	83.2	5.6 5.6	5.6	5.6	10.5 10.5	10.5		6.1 6.7	6.4	
				16.9	Middle	8.5	28.5 28.5	28.5	8.2 8.2	8.2	27.1 27.1	27.1	82.0 83.0	82.5	5.5 5.5	5.5	5.6	10.3 10.4	10.4	10.5	7.7 7.4	7.6	8.0
					Bottom	15.9	28.5 28.5	28.5	8.2 8.2	8.2	27.1 27.1	27.1	81.1 82.8	82.0	5.4 5.5	5.5	5.5	10.4 10.5	10.5		9.8 10.1	10.0	
29-Sep-14	Sunny	Moderate	10:55		Surface	1.0	29.2 29.1	29.2	8.1 8.1	8.1	22.2 22.7	22.5	81.4 80.9	81.2	5.5 5.5	5.5	5.5	10.2 10.1	10.2		4.3 4.2	4.3	
				16.6	Middle	8.3	29.0 29.0	29.0	8.1 8.1	8.1	24.9 24.9	24.9	80.2 79.9	80.1	5.4 5.4	5.4	5.5	10.2 10.5	10.4	10.3	5.8 5.8	5.8	5.3
					Bottom	15.6	29.0 29.0	29.0	8.1 8.1	8.1	24.9 24.9	24.9	80.6 80.8	80.7	5.4 5.4	5.4	5.4	10.2 10.6	10.4		5.7 5.9	5.8	
1-Oct-14	0	0	0		Surface	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.0	0.0	0.0 0.0	0.0	_	0.0 0.0	0.0	
				1.0	Middle	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	0.0
					Bottom	0.0	0.0 0.0	0.0	0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0		0.0 0.0	0.0	

Remarks:

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

- DA: Depth-Averaged
- ** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
- *** Cancelled due to Thunderstorm Warning and safety concern.

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

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	iture (°C)	р	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ed Oxyger	(mg/L)	T	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-Sep-14	Sunny	Moderate	17:06		Surface	1.0	29.2 29.0	29.1	8.0 8.0	8.0	24.6 24.8	24.7	96.5 97.6	97.1	6.5 6.6	6.5		2.2 2.3	2.3		2.2 2.1	2.2	
				13.2	Middle	6.6	27.1	27.1	8.0	7.9	29.2	29.2	88.2	87.6	6.0	5.9	6.2	3.1	3.1	2.7	2.9	3.0	3.1
					Bottom	12.2	27.1 27.2	27.1	7.9 8.0	7.9	29.1 29.2	29.3	86.9 89.4	89.0	5.9 6.1	6.0	6.0	3.0 2.5	2.6		3.1	4.0	
0.00 44	0	Martanata	00.07		Dottom	12.2	27.1 29.4	27.1	7.9 8.0	7.5	29.4 18.1	29.5	88.6 78.4	03.0	6.0 5.4	0.0	0.0	2.6 3.8	2.0		4.3 2.2	4.0	
3-Sep-14	Sunny	Moderate	06:37		Surface	1.0	29.4	29.4	8.0	8.0	17.9	18.0	79.3	78.9	5.5	5.5	5.3	3.8	3.8		2.4	2.3	
				12.2	Middle	6.1	28.6 28.0	28.3	8.0 8.0	8.0	22.4 24.5	23.5	74.8 74.5	74.7	5.1 5.0	5.0		5.7 5.8	5.8	5.2	2.2 2.0	2.1	2.4
					Bottom	11.2	27.6 27.7	27.6	8.0 7.9	8.0	27.2 27.3	27.3	71.0 72.3	71.7	4.8 4.9	4.9	4.9	5.8 5.9	5.9		2.6 2.9	2.8	
5-Sep-14	Sunny	Moderate	09:23		Surface	1.0	28.4 28.5	28.4	8.1 8.1	8.1	23.3 23.2	23.3	75.5 75.9	75.7	5.1 5.2	5.2		3.5 3.4	3.5		2.6 2.4	2.5	
				12.6	Middle	6.3	27.0	27.4	8.0	8.0	29.1	29.0	74.4	74.7	5.1	5.1	5.2	3.7	3.8	4.2	3.4	3.5	3.5
					Bottom	11.6	27.9 26.8	26.9	8.0	8.0	28.9 29.9	29.4	74.9 73.5	73.3	5.1 5.1	5.0	5.0	3.9 5.5	5.4		3.6 4.7	4.4	
8-Sep-14	Cloudy	Moderate	11:59				27.1 28.4		8.0 8.1		28.9 27.4		73.0 86.0		5.0 5.5		0.0	5.3 9.9		1	4.0 11.5		
о сор тт	Oloudy	Moderate			Surface	1.0	28.3	28.4	8.1 8.1	8.1	27.4 27.9	27.4	82.0 81.8	84.0	5.2 5.2	5.3	5.3	10.0	10.0		11.8	11.7	
				13.1	Middle	6.6	28.1	28.1	8.1	8.1	27.9	27.9	84.8	83.3	5.4	5.3		10.0	10.1	10.2	13.2	13.3	12.9
					Bottom	12.1	28.0 28.1	28.0	8.1 8.1	8.1	28.4 28.2	28.3	82.0 80.4	81.2	5.2 5.1	5.1	5.1	10.2 10.5	10.4		13.8 13.4	13.6	
10-Sep-14	Sunny	Moderate	13:49		Surface	1.0	29.2 29.1	29.2	8.0 8.0	8.0	25.2 25.3	25.3	75.9 76.7	76.3	5.1 5.1	5.1	5.1	9.5 9.8	9.7		11.3 11.4	11.4	
				12.4	Middle	6.2	28.7 28.7	28.7	8.0 8.0	8.0	26.6 26.6	26.6	76.3 75.6	76.0	5.1 5.1	5.1	5.1	10.3 10.3	10.3	10.1	11.1 9.2	10.2	11.7
					Bottom	11.4	28.6 28.6	28.6	8.0 8.0	8.0	27.1 27.1	27.1	74.8 71.3	73.1	5.0 4.8	4.9	4.9	10.4 10.4	10.4		13.7 13.2	13.5	
12-Sep-14	Sunny	Moderate	14:59		Surface	1.0	29.2	29.3	8.0	8.0	25.7	25.6	80.5	80.8	5.4	5.4		10.0	9.9		6.4	6.5	
				13.3	Middle	6.7	29.3 29.2	29.2	8.0 8.0	8.0	25.4 26.0	26.0	81.0 77.9	78.1	5.4 5.2	5.2	5.3	9.8 11.3	11.5	10.9	6.5 7.3	7.2	7.4
				13.3			29.2 29.1		8.0 8.0		26.0 26.1		78.3 75.4		5.2 5.0			11.6 11.3		10.9	7.0 8.7		7.4
150 1100					Bottom	12.3	29.2	29.2	8.0	8.0	26.0	26.0	75.9	75.7	5.1	5.0	5.0	11.5	11.4		8.2	8.5	
15-Sep-14 ***	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-	_	-	-		-	-	
				-	Middle	-	1 1	-		-	-	-	-	-		-		-	-	=	-	-	=
					Bottom	1		-	-	-	-	-	-	-		-	-	-	-		-	-	
17-Sep-14	Cloudy	Moderate	07:04		Surface	1.0	28.3 28.3	28.3	8.1 8.1	8.1	26.9 26.9	26.9	82.3 81.7	82.0	5.5 5.5	5.5		6.2 6.2	6.2		6.4 6.9	6.7	
				12.5	Middle	6.3	28.3	28.2	8.1	8.1	28.1	28.2	78.8	78.3	5.3	5.2	5.4	6.5	6.4	6.3	8.4	8.4	7.9
					Bottom	11.5	28.2 28.1	28.2	8.1 8.0	8.1	28.4 29.5	29.5	77.7 82.1	81.3	5.2 5.4	5.4	5.4	6.2 6.5	6.4		9.0	8.5	
19-Sep-14	Sunny	Moderate	09:32		Surface	1.0	28.2 29.4	29.4	8.1 8.0	8.0	29.4 18.5	19.0	80.4 85.4	85.9	5.3 5.9	5.9	***	6.3 3.6	3.5		7.9 3.3	3.5	
	-			40.0			29.4 28.7		8.0 8.0		19.6 27.1		86.3 79.3		5.9 5.3		5.6	3.4		0.5	3.6 3.7		0.0
				13.2	Middle	6.6	28.6 29.0	28.7	7.9 8.0	8.0	27.2 26.9	27.2	78.8 85.9	79.1	5.3 5.7	5.3		3.6 3.4	3.5	3.5	3.8 4.3	3.8	3.8
					Bottom	12.2	28.7	28.9	7.9	7.9	27.3	27.1	82.9	84.4	5.5	5.6	5.6	3.4	3.4		3.6	4.0	

DA: Depth-Averaged

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

^{***} Cancelled due to Thunderstorm Warning and safety concern.

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

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	ī	ρΗ	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*
22-Sep-14	Sunny	Moderate	11:31		Surface	1.0	28.7 28.5	28.6	8.2 8.2	8.2	30.2 30.4	30.3	83.0 79.7	81.4	5.4 5.2	5.3	5.3	5.7 6.0	5.9		9.4 9.3	9.4	
				12.1	Middle	6.1	28.4 28.4	28.4	8.2 8.2	8.2	31.0 31.1	31.0	79.3 79.5	79.4	5.2 5.2	5.2	0.0	5.9 5.9	5.9	5.9	9.4 8.9	9.2	9.5
					Bottom	11.1	28.5 28.4	28.5	8.2 8.2	8.2	30.8 31.1	31.0	83.5 81.4	82.5	5.5 5.3	5.4	5.4	6.1 5.8	6.0		10.0 9.9	10.0	
24-Sep-14	Sunny	Moderate	12:56		Surface	1.0	29.3 29.3	29.3	7.3 7.3	7.3	27.7 27.7	27.7	88.3 88.6	88.5	5.8 5.8	5.8	5.7	8.6 8.7	8.7		7.2 7.9	7.6	
				12.4	Middle	6.2	28.7 28.7	28.7	7.3 7.3	7.3	29.6 29.5	29.6	85.1 85.4	85.3	5.6 5.6	5.6	0.7	11.8 11.2	11.5	10.7	8.0 7.6	7.8	7.9
					Bottom	11.4	28.7 28.7	28.7	7.3 7.3	7.3	29.8 29.7	29.8	85.8 85.4	85.6	5.6 5.6	5.6	5.6	11.9 11.6	11.8		8.2 8.2	8.2	
26-Sep-14	Fine	Moderate	14:26		Surface	1.0	29.6 29.6	29.6	7.6 7.6	7.6	26.3 26.1	26.2	85.2 84.2	84.7	5.6 5.5	5.6	5.5	9.4 9.2	9.3		7.4 7.0	7.2	
				13.0	Middle	6.5	29.0 29.0	29.0	7.5 7.6	7.5	28.2 28.4	28.3	82.2 79.5	80.9	5.4 5.3	5.4	3.3	9.5 9.4	9.5	9.5	7.5 7.8	7.7	7.8
					Bottom	12.0	29.0 29.1	29.0	7.4 7.5	7.4	29.3 29.3	29.3	76.2 80.9	78.6	5.0 5.3	5.2	5.2	9.7 9.8	9.8		8.5 8.5	8.5	
29-Sep-14	Sunny	Moderate	15:53		Surface	1.0	30.1 30.1	30.1	7.5 7.6	7.5	24.8 24.9	24.9	83.1 83.1	83.1	5.5 5.5	5.5	5.3	6.0 5.9	6.0		6.4 6.8	6.6	
				13.3	Middle	6.7	29.5 29.5	29.5	7.6 7.5	7.5	28.4 28.4	28.4	79.0 78.3	78.7	5.2 5.1	5.1	3.3	5.8 6.1	6.0	6.4	7.8 7.8	7.8	7.4
					Bottom	12.3	29.6 29.5	29.5	7.6 7.5	7.5	28.4 28.4	28.4	80.4 80.4	80.4	5.2 5.3	5.2	5.2	7.0 7.2	7.1		7.9 7.8	7.9	
1-Oct-14	0	0	0		Surface	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0 0.0	0.0	
				1.0	Middle	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	0.0
					Bottom	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0		0.0 0.0	0.0	

Remarks:

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

- DA: Depth-Averaged
- ** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
- *** Cancelled due to Thunderstorm Warning and safety concern.

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

Date	Weather	Sea	Sampling	Water	Sampl	ling	Tempera	ature (°C)	p	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Т	urbidity(NTl	J)	Suspe	nded Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
1-Sep-14	Sunny	Moderate	10:59		Surface	1.0	28.3 28.2	28.3	7.8 7.9	7.9	24.1 24.2	24.2	80.4 78.5	79.5	5.5 5.4	5.4		4.4 4.6	4.5		1.2 1.7	1.5	
				13.8	Middle	6.9	27.1 27.2	27.1	7.9 7.8	7.9	27.7 27.5	27.6	77.4 76.6	77.0	5.3 5.2	5.2	5.3	7.1 7.3	7.2	6.8	3.0	3.0	2.6
					Bottom	12.8	27.0 27.1	27.1	7.9 7.8	7.8	28.1	27.9	70.5 72.5	71.5	4.8 5.0	4.9	4.9	8.5 8.7	8.6		3.2 3.5	3.4	
3-Sep-14	Sunny	Moderate	15:15		Surface	1.0	30.2	30.1	8.2	8.2	20.0	20.1	88.1	88.3	6.0	6.0		2.8	2.9		2.6	2.6	
				12.1	Middle	6.1	30.0 27.6	27.4	8.2 8.1	8.1	20.2 27.5	27.7	88.4 78.6	78.2	6.0 5.3	5.3	5.7	2.9 5.4	5.4	4.6	2.5 2.5	2.7	2.7
				12.1	Bottom	11.1	27.2 26.8	26.7	8.1 8.1	8.1	27.9 30.9	31.0	77.8 77.7	76.5	5.3 5.2	5.2	5.2	5.3 5.6	5.6	4.0	2.9	2.9	
5-Sep-14	Sunny	Moderate	17:11				26.6 27.7		8.0 8.1		31.0 28.6		75.2 75.8		5.1 5.1		5.2	5.6 4.9			3.0 2.4		
	,				Surface	1.0	27.5 27.1	27.6	8.1 8.0	8.1	28.8 29.9	28.7	76.4 74.5	76.1	5.2 5.1	5.1	5.1	4.6 5.5	4.8		2.7 5.5	2.6	-
				12.0	Middle	6.0	27.0	27.1	8.1 8.1	8.1	30.2 30.4	30.0	74.9 73.5	74.7	5.1 4.9	5.1		5.5 5.3	5.5	5.2	5.4 6.8	5.5	5.0
			10.11		Bottom	11.0	27.0	27.0	8.0	8.0	30.5	30.5	73.2	73.4	5.0	4.9	4.9	5.4	5.4		7.2	7.0	
8-Sep-14	Cloudy	Moderate	18:41		Surface	1.0	28.8 28.7	28.8	8.1 8.2	8.2	26.0 26.1	26.1	88.3 89.2	88.8	5.6 5.7	5.6	5.6	13.6 13.7	13.7		8.6 8.2	8.4	
				13.2	Middle	6.6	28.7 28.6	28.7	8.2 8.2	8.2	26.4 26.5	26.5	88.1 88.5	88.3	5.6 5.6	5.6		13.9 13.9	13.9	13.9	8.0 8.2	8.1	8.4
					Bottom	12.2	28.7 28.6	28.6	8.2 8.2	8.2	26.5 26.7	26.6	87.9 88.5	88.2	5.6 5.6	5.6	5.6	14.0 14.2	14.1		8.6 8.7	8.7	
10-Sep-14	Sunny	Moderate	06:51		Surface	1.0	28.7 28.7	28.7	8.0 8.0	8.0	26.1 25.7	25.9	76.9 77.4	77.2	5.2 5.2	5.2	5.2	14.5 14.4	14.5		7.5 7.6	7.6	
				12.4	Middle	6.2	28.4 28.4	28.4	8.0 8.0	8.0	27.0 27.0	27.0	75.9 74.7	75.3	5.1 5.0	5.1	5.2	14.8 14.3	14.6	14.5	9.4 7.6	8.5	8.1
					Bottom	11.4	28.5 28.4	28.4	8.0 8.0	8.0	27.0 27.2	27.1	71.0 72.9	72.0	4.8 4.9	4.8	4.8	14.5 14.5	14.5		8.7 7.5	8.1	
12-Sep-14	Sunny	Moderate	08:21		Surface	1.0	29.4 29.3	29.3	8.0 8.0	8.0	24.8 24.9	24.9	80.9 80.4	80.7	5.4	5.4		10.0	10.2		9.2 9.4	9.3	
				13.5	Middle	6.8	28.8	28.8	8.0	8.0	27.0	27.1	75.4	76.6	5.4	5.1	5.3	10.4	11.9	11.8	9.4	9.5	9.8
					Bottom	12.5	28.8	28.7	8.0	8.0	27.2 27.3	27.3	77.8 74.5	74.1	5.2	4.9	4.9	12.1	13.2		9.5	10.5	
15-Sep-14	Sunny	Rough	11:23		Surface	1.0	28.7 29.1	29.2	8.0	8.0	27.3 25.1	25.1	73.6 78.1	77.6	4.9 5.2	5.2		12.9 5.6	5.6		10.8 3.1	3.1	
				12.4	Middle	6.2	29.2 28.5	28.5	8.0	8.0	25.0 28.4	28.2	77.0 77.4	78.2	5.1 5.1	5.2	5.2	5.5 6.1	6.2	6.0	3.1 5.0	5.4	4.5
				12.4		11.4	28.6 28.5	28.4	8.0	8.0	27.9 28.8	28.9	79.0 75.0	75.7	5.2 5.0	5.0	5.0	6.2 6.2	6.3	0.0	5.7 5.1	5.1	4.5
17-Sep-14	Cloudy	Moderate	20:21		Bottom		28.3 28.3		8.0 8.1		29.1 29.2		76.4 81.5		5.1 5.4		5.0	6.3			5.1 2.9		
17 GGP 11	Cicacy	Moderate	20.21		Surface	1.0	28.4	28.4	8.1 8.1	8.1	28.9	29.0	78.4 76.2	80.0	5.2	5.3	5.2	3.7	3.7		2.7	2.8	<u> </u>
				12.7	Middle	6.4	28.2	28.2	8.1	8.1	29.9	30.0	77.2	76.7	5.1	5.1		3.8	3.9	3.8	4.2	4.1	3.6
					Bottom	11.7	28.1 28.2	28.2	8.1 8.1	8.1	30.5 30.3	30.4	75.3 75.2	75.3	5.0 5.0	5.0	5.0	3.9 3.8	3.9		3.9 3.9	3.9	
19-Sep-14	Sunny	Moderate	17:21		Surface	1.0	29.4 29.4	29.4	8.1 8.1	8.1	23.7 23.6	23.6	87.0 88.2	87.6	5.8 5.9	5.9	5.5	4.1 4.2	4.2		2.4 2.2	2.3	
				13.2	Middle	6.6	28.6 28.6	28.6	8.1 8.1	8.1	28.9 28.9	28.9	77.0 77.5	77.3	5.1 5.1	5.1	0.0	4.2 4.3	4.3	4.3	3.0 3.3	3.2	3.0
					Bottom	12.2	28.6 28.6	28.6	8.1 8.1	8.1	29.4 30.2	29.8	79.8 80.8	80.3	5.3 5.3	5.3	5.3	4.3 4.5	4.4		3.3 3.5	3.4	

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

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

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	ī	ЭΗ	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	1	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*
22-Sep-14	Sunny	Moderate	18:37		Surface	1.0	28.5 28.6	28.6	8.3 8.3	8.3	30.2 30.0	30.1	83.6 86.2	84.9	5.5 5.7	5.6	5.5	5.9 5.4	5.7		8.3 7.7	8.0	
				12.8	Middle	6.4	28.5 28.4	28.5	8.2 8.2	8.2	30.7 31.3	31.0	86.1 78.2	82.2	5.6 5.1	5.4	0.0	5.9 5.5	5.7	5.6	8.8 9.1	9.0	8.9
					Bottom	11.8	28.6 28.5	28.5	8.3 8.2	8.2	30.1 31.1	30.6	87.8 81.4	84.6	5.8 5.3	5.5	5.5	5.2 5.7	5.5		9.8 9.3	9.6	
24-Sep-14	Fine	Moderate	19:31		Surface	1.0	28.8 28.9	28.8	7.7 7.7	7.7	28.0 28.0	28.0	84.4 84.4	84.4	5.6 5.6	5.6	5.5	10.2 10.4	10.3		8.1 8.5	8.3	
				12.7	Middle	6.4	28.7 28.7	28.7	7.6 7.6	7.6	29.9 29.8	29.9	83.5 82.2	82.9	5.5 5.4	5.4	0.0	10.4 10.4	10.4	10.3	8.9 8.8	8.9	8.6
					Bottom	11.7	28.7 28.7	28.7	7.5 7.4	7.5	30.2 30.1	30.2	86.6 83.8	85.2	5.7 5.5	5.6	5.6	10.4 10.0	10.2		8.8 8.5	8.7	
26-Sep-14	Sunny	Moderate	07:24		Surface	1.0	29.0 29.0	29.0	7.4 7.4	7.4	25.9 25.9	25.9	80.3 83.7	82.0	5.4 5.6	5.5	5.4	6.5 6.4	6.5		5.4 5.5	5.5	
				12.9	Middle	6.5	29.0 29.0	29.0	7.3 7.3	7.3	28.3 28.2	28.3	79.0 82.3	80.7	5.2 5.4	5.3	3.4	6.6 6.6	6.6	6.7	5.5 5.2	5.4	5.8
					Bottom	11.9	28.9 28.9	28.9	7.3 7.1	7.2	28.5 28.5	28.5	78.9 79.7	79.3	5.2 5.3	5.2	5.2	6.9 6.9	6.9		6.4 6.7	6.6	
29-Sep-14	Sunny	Moderate	09:57		Surface	1.0	29.6 29.5	29.6	7.5 7.5	7.5	25.7 25.8	25.7	79.2 79.1	79.2	5.2 5.2	5.2	5.2	6.1 6.6	6.4		5.4 5.1	5.3	
				13.5	Middle	6.8	29.3 29.4	29.4	7.5 7.5	7.5	27.7 27.5	27.6	77.0 78.5	77.8	5.1 5.2	5.1	3.2	8.4 8.7	8.6	8.0	6.9 6.9	6.9	6.5
					Bottom	12.5	29.3 29.3	29.3	7.5 7.4	7.4	28.2 27.8	28.0	78.0 81.9	80.0	5.1 5.4	5.2	5.2	8.8 9.2	9.0		7.4 7.2	7.3	
1-Oct-14	0	0	0		Surface	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	_	0.0 0.0	0.0	_
				1.0	Middle	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	0.0
					Bottom	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0		0.0 0.0	0.0	

Remarks:

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

- DA: Depth-Averaged
- ** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
- *** Cancelled due to Thunderstorm Warning and safety concern.

Water Quality Monitoring Results at CS6 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ed Oxygen	(mg/L)	Т	urbidity(NT	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
1-Sep-14	Sunny	Moderate	17:43		Surface	1.0	28.4 28.4	28.4	8.1 8.1	8.1	24.8 24.8	24.8	80.2 75.7	78.0	5.4 5.1	5.3		1.8 1.9	1.9		2.2 2.3	2.3	
				10.2	Middle	5.1	27.4 27.5	27.5	8.1 8.0	8.1	26.9 26.3	26.6	80.2 74.9	77.6	5.4 5.1	5.3	5.3	2.2 2.1	2.2	2.1	2.1 2.1	2.1	2.3
					Bottom	9.2	27.2 26.6	26.9	8.1 7.9	8.0	28.9 29.5	29.2	70.6 71.3	71.0	4.8	4.8	4.8	2.1	2.1		2.8	2.6	
3-Sep-14	Sunny	Moderate	06:00		Surface	1.0	29.0	28.9	8.1	8.1	18.3	18.7	76.7	76.7	5.3	5.3		1.4	1.4		1.6	1.5	
				9.5	Middle	4.8	28.9 27.6	27.6	8.1 8.1	8.1	19.1 25.9	26.0	76.6 74.2	74.0	5.3 5.2	5.2	5.3	1.4 2.4	2.4	2.1	1.4	1.9	2.1
				0.0	Bottom	8.5	27.6 27.4	27.3	8.1 8.0	8.0	26.0 28.1	27.9	73.8 73.1	72.7	5.2 5.1	5.1	5.1	2.4 2.4	2.5	2.1	1.8 2.7	2.8	
5-Sep-14	Sunny	Moderate	08:40				27.2 27.9		8.0 8.1		27.6 23.4		72.3 79.7		5.1 5.6		5.1	2.5 1.2			2.9		
0 оср 14	Curity	Wioderate	00.40		Surface	1.0	27.8 27.0	27.8	8.1 8.1	8.1	24.2	23.8	78.1 74.5	78.9	5.5 5.1	5.6	5.4	1.3	1.3		3.3	3.0	
				9.8	Middle	4.9	26.9	27.0	8.1	8.1	28.5	28.3	75.2	74.9	5.1	5.1		2.2	2.2	1.9	2.5	3.0	3.3
					Bottom	8.8	26.8 26.9	26.9	8.1 8.1	8.1	29.0 28.5	28.7	71.7 70.7	71.2	4.9 4.9	4.9	4.9	2.2 2.1	2.2		4.0 3.9	4.0	
8-Sep-14	Cloudy	Moderate	11:19		Surface	1.0	27.9 27.9	27.9	8.1 8.1	8.1	27.1 27.1	27.1	77.1 76.0	76.6	5.2 5.2	5.2	5.2	4.6 4.6	4.6		6.8 5.7	6.3	
				10.1	Middle	5.1	27.3 27.4	27.4	8.1 8.1	8.1	28.8 28.7	28.8	75.7 76.9	76.3	5.1 5.2	5.2	0.2	4.8 4.8	4.8	4.8	5.6 5.6	5.6	5.9
					Bottom	9.1	27.3 27.3	27.3	8.1 8.1	8.1	29.1 29.1	29.1	73.8 74.7	74.3	5.0 5.1	5.0	5.0	4.9 4.9	4.9		5.5 6.1	5.8	
10-Sep-14	Sunny	Moderate	14:25		Surface	1.0	29.4 29.1	29.2	8.1 8.1	8.1	24.8 25.1	24.9	83.0 86.4	84.7	5.5 5.8	5.7		6.3 5.9	6.1		7.2 5.8	6.5	
				10.2	Middle	5.1	28.6 28.3	28.5	8.1 8.1	8.1	26.3 26.9	26.6	78.7 80.7	79.7	5.3 5.4	5.4	5.6	5.0 4.9	5.0	5.4	6.8 6.0	6.4	6.2
					Bottom	9.2	28.3	28.4	8.1	8.1	27.1	27.0	79.9	80.2	5.4	5.4	5.4	4.9	5.1		5.9	5.6	
12-Sep-14	Sunny	Moderate	15:51		Surface	1.0	28.5 29.0	29.0	8.1 8.0	8.0	26.8 25.8	25.8	80.5 80.5	79.9	5.4 5.5	5.5		5.2 4.0	4.1		5.2 8.6	9.0	
				10.0	Middle	5.0	28.9 28.5	28.6	8.0	8.0	25.9 26.9	26.8	79.3 76.8	76.9	5.4 5.3	5.3	5.4	4.2 4.1	4.1	4.1	9.4	9.8	9.9
				10.0	Bottom	9.0	28.6 28.4	28.4	8.0	8.0	26.8 27.9	27.6	77.0 78.5	78.8	5.3 5.4	5.4	5.4	4.1 4.2	4.2	4.1	9.6 11.0	11.0	0.0
15-Sep-14 ***		_	_			9.0	28.4	20.4	8.0	8.0	27.4	27.6	79.0	70.0	5.4	5.4	5.4	4.1	4.2		11.0	11.0	
10 GGP 11					Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
				-	Middle	-	-	-		-		-	-	-	-	-		-	-	Ξ	-	-	=
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
17-Sep-14	Cloudy	Moderate	06:48		Surface	1.0	27.7 27.7	27.7	8.1 8.1	8.1	28.3 28.3	28.3	85.7 85.9	85.8	5.8 5.8	5.8	5.8	3.1 3.1	3.1		5.3 5.4	5.4]
				10.1	Middle	5.1	27.7 27.7	27.7	8.1 8.1	8.1	28.4 28.3	28.3	85.3 85.3	85.3	5.7 5.7	5.7	0.0	3.2 3.2	3.2	3.2	6.9 7.1	7.0	6.5
					Bottom	9.1	27.7 27.7	27.7	8.1 8.1	8.1	28.8 28.9	28.9	85.2 85.1	85.2	5.7 5.7	5.7	5.7	3.2 3.2	3.2		7.1 6.8	7.0	
19-Sep-14	Sunny	Moderate	09:21		Surface	1.0	29.1 29.0	29.1	8.2 8.2	8.2	18.2 17.9	18.0	86.9 86.3	86.6	6.0 6.0	6.0		1.6 1.6	1.6		4.1 4.1	4.1	
				9.9	Middle	5.0	28.6 28.4	28.5	8.1 8.1	8.1	25.1 25.6	25.4	82.0 80.8	81.4	5.5 5.5	5.5	5.8	1.5	1.5	1.6	5.7	5.8	5.2
					Bottom	8.9	28.3	28.3	8.1	8.1	26.6	26.8	81.9	81.9	5.5	5.5	5.5	1.5	1.6		5.8 6.0	5.6	
							28.3		8.1		27.1		81.9		5.5	1		1.6			5.1		

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Water Quality Monitoring Results at CS6 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Temper	ature (°C)	ī	ρΗ	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	1	Turbidity(NTI	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-Sep-14	Sunny	Moderate	11:11		Surface	1.0	28.3 28.2	28.3	8.3 8.2	8.3	31.0 31.1	31.1	89.4 88.5	89.0	5.9 5.8	5.8	5.8	2.2 2.1	2.2		3.2 3.2	3.2	
				10.2	Middle	5.1	28.0 27.9	28.0	8.2 8.2	8.2	31.7 31.9	31.8	87.0 86.6	86.8	5.7 5.7	5.7	0.0	2.1 2.1	2.1	2.2	4.8 5.3	5.1	4.9
					Bottom	9.2	27.9 27.9	27.9	8.2 8.2	8.2	32.4 32.3	32.4	82.2 83.4	82.8	5.4 5.5	5.4	5.4	2.1 2.2	2.2		6.2 6.3	6.3	
24-Sep-14	Sunny	Moderate	12:00		Surface	1.0	28.7 28.8	28.8	8.2 8.2	8.2	29.1 29.0	29.1	94.5 95.0	94.8	6.2 6.3	6.2	6.2	4.3 4.3	4.3		6.5 7.6	7.1	
				10.0	Middle	5.0	28.6 28.6	28.6	8.2 8.2	8.2	29.7 29.9	29.8	93.1 92.1	92.6	6.1 6.0	6.1	0.2	4.1 4.1	4.1	4.4	8.2 8.8	8.5	8.4
					Bottom	9.0	28.6 28.6	28.6	8.2 8.2	8.2	30.2 30.3	30.2	93.4 97.1	95.3	6.1 6.4	6.2	6.2	4.8 4.8	4.8		10.0 9.1	9.6	
26-Sep-14	Fine	Moderate	14:58		Surface	1.0	29.1 28.9	29.0	8.2 8.2	8.2	25.7 26.2	26.0	85.7 85.1	85.4	5.7 5.7	5.7	5.6	5.3 5.1	5.2		3.7 4.0	3.9	
				9.9	Middle	5.0	28.7 28.7	28.7	8.2 8.2	8.2	27.1 27.0	27.0	82.3 84.1	83.2	5.5 5.6	5.5	5.0	5.5 5.6	5.6	5.5	3.6 3.6	3.6	3.8
					Bottom	8.9	28.6 28.6	28.6	8.2 8.2	8.2	29.3 29.1	29.2	86.4 83.5	85.0	5.7 5.5	5.6	5.6	5.5 5.6	5.6		3.8 4.0	3.9	
29-Sep-14	Sunny	Moderate	16:37		Surface	1.0	29.6 29.5	29.6	8.2 8.2	8.2	25.6 25.7	25.7	84.2 83.6	83.9	5.6 5.5	5.5	5.4	2.7 2.9	2.8		6.4 6.4	6.4	
				10.6	Middle	5.3	29.2 29.0	29.1	8.2 8.2	8.2	27.7 28.1	27.9	80.8 78.7	79.8	5.3 5.2	5.2	5.4	2.8 2.8	2.8	2.9	6.9 6.9	6.9	7.0
					Bottom	9.6	28.8 28.8	28.8	8.2 8.2	8.2	29.9 29.8	29.8	79.3 81.4	80.4	5.2 5.3	5.3	5.3	3.0 3.0	3.0		7.6 7.5	7.6	
1-Oct-14	0	0	0		Surface	0.0	0.0 0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	
				1.0	Middle	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	0.0
					Bottom	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0		0.0 0.0	0.0	

Remarks:

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

- DA: Depth-Averaged
- ** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
- *** Cancelled due to Thunderstorm Warning and safety concern.

Appendix J - Marine Water Quality Monitoring Results

Water Quality Monitoring Results at CS6 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	H	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ed Oxygen	(mg/L)	Ti	urbidity(NTI	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-Sep-14	Sunny	Moderate	10:26		Surface	1.0	27.8 28.1	27.9	8.1 8.1	8.1	24.9 24.2	24.6	74.9 74.6	74.8	5.1 5.1	5.1		2.4 2.2	2.3		4.3 4.4	4.4	
				10.1	Middle	5.1	27.8	27.5	8.1	8.1	24.8	26.2	73.6	73.4	5.1	5.0	5.1	2.4	2.4	2.3	4.4	4.5	4.4
							27.2 27.1		8.1 8.1		27.6 28.4		73.1 72.1		5.0 4.9			2.3		2.0	4.5 4.2		""
					Bottom	9.1	27.8	27.4	8.1	8.1	24.8	26.6	70.4	71.3	4.8	4.9	4.9	2.3	2.3		4.4	4.3	
3-Sep-14	Sunny	Moderate	15:33		Surface	1.0	29.5 29.5	29.5	8.2 8.2	8.2	20.3 20.3	20.3	87.2 87.9	87.6	5.9 6.0	6.0		1.7 1.6	1.7		1.4 1.7	1.6	
				10.0	Middle	5.0	27.4	27.4	8.1	8.1	27.7	27.7	78.0	77.6	5.3	5.3	5.7	1.6	1.7	1.7	1.6	1.7	1.8
					Bottom	9.0	27.4 27.3	27.3	8.1 8.1	8.1	27.6 27.8	27.9	77.2 71.6	72.3	5.3 4.9	4.9	4.9	1.7 1.6	1.8		2.3	2.2	
5-Sep-14	Cuppy	Moderate	17:47		Bottom	9.0	27.2 28.2		8.1 8.2		28.0 26.2	27.9	73.0 87.5	72.5	5.0 5.9	4.5	4.3	1.9 1.8	1.0		2.1 3.5	2.2	
5-Sep-14	Sunny	ivioderate	17:47		Surface	1.0	28.2	28.2	8.2	8.2	26.2	26.2	84.3	85.9	5.9 5.7	5.8	5.7	1.7	1.8		2.9	3.2	j
				10.3	Middle	5.2	28.1 28.1	28.1	8.2 8.2	8.2	26.3 26.4	26.3	80.0 82.1	81.1	5.4 5.5	5.5	0.1	1.8 1.9	1.9	1.9	3.2 3.3	3.3	3.4
					Bottom	9.3	28.1	28.1	8.2	8.2	26.3	26.4	78.5	79.0	5.3	5.3	5.3	1.8	1.9		3.5	3.8	
8-Sep-14	Cloudy	Moderate	19:47				28.1 28.3		8.2 8.1		26.4 26.0		79.5 78.1		5.4 5.3			1.9 6.2			9.4		
	,				Surface	1.0	28.4	28.4	8.1	8.1	25.8 26.5	25.9	80.3 79.9	79.2	5.4 5.4	5.4	5.4	6.3 6.6	6.3		9.9	9.7	
				10.0	Middle	5.0	28.2 28.1	28.2	8.1 8.1	8.1	26.5 26.7	26.6	79.9 77.3	78.6	5.4 5.2	5.3		6.4	6.5	6.5	10.3 9.8	10.1	9.9
					Bottom	9.0	27.8 28.0	27.9	8.1 8.1	8.1	27.5 27.1	27.3	84.6 78.5	81.6	5.7 5.3	5.5	5.5	6.7 6.6	6.7		9.1 10.7	9.9	
10-Sep-14	Sunny	Moderate	06:35		Surface	1.0	28.6	28.6	8.0	8.1	25.1	25.2	78.7	78.4	5.3	5.3		7.1	7.3		7.0	7.4	
				40.0			28.6 28.5		8.1 8.0		25.2 25.6		78.0 77.6		5.3 5.2		5.3	7.5 7.6		7.0	7.7 8.9		0.4
				10.2	Middle	5.1	28.5	28.5	8.1	8.1	25.7	25.7	77.2	77.4	5.2	5.2		7.2	7.4	7.8	8.0	8.5	8.1
					Bottom	9.2	28.5 28.4	28.4	8.0 8.1	8.1	25.8 26.0	25.9	77.7 76.8	77.3	5.2 5.2	5.2	5.2	8.6 8.8	8.7		9.2 7.3	8.3	
12-Sep-14	Sunny	Moderate	08:15		Surface	1.0	29.0 29.0	29.0	8.1 8.1	8.1	24.5 24.4	24.5	78.3 78.9	78.6	5.4 5.4	5.4		6.3 6.4	6.4		7.9 8.8	8.4	
				10.2	Middle	5.1	29.0	28.9	8.1	8.1	24.9	25.0	77.5	75.9	5.3	5.2	5.3	7.0	7.1	6.9	9.1	9.4	9.5
							28.9 28.6		8.1 8.1		25.1 26.6		74.3 73.9		5.1 5.1			7.2 7.1			9.6 11.2		
					Bottom	9.2	28.9	28.8	8.1	8.1	25.4	26.0	77.1	75.5	5.3	5.2	5.2	7.3	7.2		10.2	10.7	
15-Sep-14	Sunny	Rough	11:02		Surface	1.0	28.8 29.0	28.9	8.1 8.1	8.1	26.3 26.2	26.2	77.4 74.2	75.8	5.5 5.6	5.6	5.6	2.2 2.3	2.3		3.7 3.7	3.7	
				10.0	Middle	5.0	28.3 28.8	28.6	8.1 8.1	8.1	28.1 26.7	27.4	75.7 74.8	75.3	5.4 5.5	5.5	5.6	2.7 2.5	2.6	2.4	3.6 3.6	3.6	3.7
					Bottom	9.0	28.7	28.4	8.1	8.1	27.0	27.9	75.6	77.1	5.6	5.7	5.7	2.1	2.4		3.8	3.7	
17-Sep-14	Cloudy	Moderate	20:44				28.2 28.1		8.1 8.2		28.7 28.1		78.6 89.4		5.8 6.0		0	2.6 1.7			3.5		
17 000 14	Oloudy	Woderate	20.44		Surface	1.0	28.1	28.1	8.2	8.2	28.1	28.1	88.7	89.1	5.9	5.9	5.9	1.7	1.7		3.5	3.3	
				10.1	Middle	5.1	28.1 28.1	28.1	8.2 8.2	8.2	28.4 28.4	28.4	88.0 88.3	88.2	5.9 5.9	5.9		1.8 1.8	1.8	1.8	4.4 4.4	4.4	4.1
					Bottom	9.1	28.0 28.1	28.1	8.2	8.2	28.6 28.6	28.6	88.1	88.4	5.9 5.9	5.9	5.9	1.8 1.9	1.9		4.6 4.6	4.6	į l
19-Sep-14	Sunny	Moderate	18:13		Surface	1.0	28.1	29.2	8.2 8.2	8.2	23.9	22.3	88.6 87.8	91.3	5.9	6.2		2.0	1.9		3.4	3.4	
							29.5 28.5		8.2 8.2		20.8 26.3		94.7 84.8		6.4 5.7		6.0	1.8 3.1			3.4		1
				9.9	Middle	5.0	28.4	28.5	8.2	8.2	27.3	26.8	84.1	84.5	5.6	5.7		3.2	3.2	2.7	3.3	3.2	3.4
					Bottom	8.9	28.5 28.5	28.5	8.1 8.1	8.1	29.0 29.4	29.2	89.5 90.2	89.9	5.9 6.0	5.9	5.9	3.0 3.0	3.0		3.3 3.6	3.5	į l

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Water Quality Monitoring Results at CS6 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Temper	ature (°C)	ı	ЭΗ	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	1	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*
22-Sep-14	Sunny	Moderate	19:22		Surface	1.0	28.1 28.1	28.1	8.3 8.3	8.3	31.0 31.0	31.0	86.2 84.0	85.1	5.7 5.5	5.6	5.5	5.6 5.9	5.8		4.4 4.2	4.3	
				10.3	Middle	5.2	28.0 27.9	28.0	8.3 8.3	8.3	31.6 32.2	31.9	83.7 81.0	82.4	5.5 5.3	5.4	0.0	5.7 5.7	5.7	5.7	6.0 5.1	5.6	5.7
					Bottom	9.3	28.0 27.9	28.0	8.3 8.3	8.3	31.7 32.2	32.0	86.7 85.3	86.0	5.7 5.6	5.6	5.6	5.6 5.8	5.7		7.4 7.2	7.3	
24-Sep-14	Fine	Moderate	20:25		Surface	1.0	28.4 28.3	28.4	8.3 8.2	8.2	29.9 30.4	30.1	90.0 84.1	87.1	5.9 5.5	5.7	5.8	4.9 4.2	4.6		7.0 7.0	7.0	
				10.7	Middle	5.4	28.5 28.3	28.4	8.3 8.2	8.3	29.4 30.2	29.8	92.4 84.4	88.4	6.1 5.6	5.8	3.0	4.9 4.9	4.9	4.6	7.6 7.8	7.7	7.8
					Bottom	9.7	28.5 28.3	28.4	8.3 8.2	8.3	29.2 30.5	29.8	95.8 84.2	90.0	6.3 5.5	5.9	5.9	4.2 4.4	4.3		8.8 8.4	8.6	
26-Sep-14	Sunny	Moderate	07:11		Surface	1.0	28.6 28.6	28.6	8.2 8.2	8.2	26.8 26.8	26.8	81.1 81.3	81.2	5.4 5.4	5.4	5.4	6.5 6.4	6.5		8.2 8.3	8.3	
				10.1	Middle	5.1	28.6 28.6	28.6	8.2 8.2	8.2	27.8 27.0	27.4	80.4 81.0	80.7	5.3 5.4	5.4	3.4	7.4 7.8	7.6	7.2	8.7 8.4	8.6	9.1
					Bottom	9.1	28.6 28.6	28.6	8.1 8.1	8.1	28.0 28.5	28.2	80.9 80.3	80.6	5.4 5.3	5.3	5.3	7.7 7.4	7.6		10.9 9.7	10.3	
29-Sep-14	Sunny	Moderate	09:31		Surface	1.0	29.0 29.0	29.0	8.1 8.1	8.1	26.9 26.8	26.9	77.4 77.8	77.6	5.1 5.2	5.2	5.2	5.0 4.8	4.9		6.2 6.4	6.3	
				11.1	Middle	5.6	28.9 29.0	29.0	8.1 8.1	8.1	27.1 27.0	27.1	77.4 77.7	77.6	5.1 5.2	5.1	5.2	5.0 4.9	5.0	4.9	6.6 6.6	6.6	6.9
					Bottom	10.1	29.0 29.0	29.0	8.1 8.1	8.1	27.0 27.0	27.0	77.9 77.5	77.7	5.2 5.1	5.2	5.2	4.9 4.8	4.9		7.7 7.9	7.8	
1-Oct-14	0	0	0		Surface	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0		0.0	0.0	
				1.0	Middle	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	0.0
					Bottom	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0		0.0	0.0	

Remarks:

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

- DA: Depth-Averaged
- ** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
- *** Cancelled due to Thunderstorm Warning and safety concern.

Water Quality Monitoring Results at CSA - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ed Oxygen	(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*
1-Sep-14	Sunny	Moderate	17:51		Surface	1.0	28.4 28.5	28.4	8.1 8.1	8.1	24.7 24.6	24.7	77.3 77.8	77.6	5.2 5.3	5.3		1.9 1.8	1.9		4.0 3.9	4.0	
				35.1	Middle	17.6	26.4 26.7	26.6	8.1 8.1	8.1	29.7 29.1	29.4	74.1 74.8	74.5	5.1 5.1	5.1	5.2	1.9 1.9	1.9	1.9	4.3 4.4	4.4	4.1
					Bottom	34.1	26.5 26.7	26.6	8.1 8.1	8.1	29.7 29.5	29.6	71.9 70.6	71.3	5.0 4.8	4.9	4.9	1.9 1.9	1.9		3.9	4.0	
3-Sep-14	Sunny	Moderate	05:45		Surface	1.0	28.9	28.9	8.1	8.1	18.2	18.2	77.8	78.5	5.4	5.4		1.3	1.3		0.9	0.9	
				35.1	Middle	17.6	28.8 27.5	27.5	8.1 8.1	8.1	18.1 26.5	26.5	79.2 74.0	74.2	5.5 5.2	5.2	5.3	1.3 2.5	2.6	2.1	0.9 1.5	1.7	1.6
				55.1	Bottom	34.1	27.5 27.1	27.2	8.1 8.1	8.1	26.5 28.6	27.8	74.4 73.0	73.4	5.2 5.1	5.1	5.1	2.6 2.3	2.3	2.1	1.9 2.1	2.2	1.0
5-Sep-14	Sunny	Moderate	08:26				27.3 27.9		8.1 8.1		27.0 23.4		73.7 79.5		5.1 5.4		5.1	2.2 1.0			2.3		
0 оср 14	Curity	Wioderate	00.20		Surface	1.0	27.9 26.2	27.9	8.1 8.1	8.1	23.3	23.3	77.9 74.7	78.7	5.3 5.1	5.3	5.2	1.1	1.1		2.4	2.5	
				34.5	Middle	17.3	26.2	26.2	8.1	8.1	30.9	31.0	73.4	74.1	5.1	5.1		2.6	2.7	2.2	3.1	3.3	3.1
					Bottom	33.5	26.0 26.2	26.1	8.1 8.1	8.1	31.6 31.3	31.4	70.0 71.4	70.7	4.8 4.9	4.9	4.9	2.6 2.7	2.7		3.0 3.7	3.4	
8-Sep-14	Cloudy	Moderate	11:13		Surface	1.0	27.9 27.9	27.9	8.1 8.1	8.1	27.1 27.3	27.2	76.7 79.4	78.1	5.2 5.4	5.3	5.3	5.3 5.0	5.2		5.6 5.7	5.7	
				34.4	Middle	17.2	27.1 27.2	27.2	8.1 8.0	8.0	29.4 29.2	29.3	74.3 77.9	76.1	5.1 5.3	5.2	0.0	5.5 5.3	5.4	5.4	6.4 6.0	6.2	6.1
					Bottom	33.4	27.0 26.9	27.0	8.0 8.1	8.0	29.4 30.0	29.7	74.5 72.1	73.3	5.1 4.9	5.0	5.0	5.5 5.6	5.6		6.7 6.2	6.5	
10-Sep-14	Sunny	Moderate	14:42		Surface	1.0	29.5 29.4	29.4	8.1 8.1	8.1	24.7 24.8	24.7	81.5 81.3	81.4	5.4 5.4	5.4		6.8 6.7	6.8		7.6 7.9	7.8	
				33.8	Middle	16.9	28.0 28.2	28.1	8.1 8.1	8.1	28.0 27.3	27.6	76.6 77.4	77.0	5.1 5.2	5.1	5.3	6.1 5.9	6.0	6.0	8.1 7.2	7.7	8.0
					Bottom	32.8	28.0	27.9	8.0	8.1	28.4	28.4	74.5	74.2	5.0	5.0	5.0	4.9	5.1		7.4	8.4	
12-Sep-14	Sunny	Moderate	16:00		Surface	1.0	27.9 28.9	28.9	8.1 8.1	8.1	28.4 25.8	25.8	73.8 77.9	77.5	5.0 5.3	5.3		5.2 4.3	4.3		9.3 9.8	9.4	
				34.9	Middle	17.5	29.0 28.0	28.1	8.1 8.1	8.1	25.8 28.6	28.1	77.0 73.9	75.4	5.3 5.1	5.2	5.3	4.3	4.4	4.3	9.0 9.5	9.6	9.8
				04.0	Bottom	33.9	28.3 27.7	28.0	8.1 8.1	8.1	27.6 29.4	29.0	76.8 68.9	71.3	5.2 4.7	4.9	4.9	4.5 4.3	4.3	4.0	9.6 10.0	10.4	0.0
15-Sep-14 ***		_	_			33.9	28.3	26.0	8.0	0.1	28.7	29.0	73.6	71.3	5.1	4.9	4.9	4.3	4.3		10.7	10.4	
10 GGP 11					Surface	-	-	-	-	-	-	-	<u>-</u>	-	-	-	-	-	-		-	-	
				-	Middle	-	-	-		-		-		-	-	-		-	-	Ξ	-	-	<u> </u>
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
17-Sep-14	Cloudy	Moderate	06:35		Surface	1.0	27.7 27.7	27.7	8.1 8.1	8.1	28.4 28.4	28.4	85.7 85.7	85.7	5.8 5.8	5.8	5.8	3.2 3.3	3.3		5.4 5.1	5.3	
				36.6	Middle	18.3	27.7 27.7	27.7	8.1 8.1	8.1	28.4 28.4	28.4	85.4 85.5	85.5	5.7 5.7	5.7	0.0	3.3 3.3	3.3	3.3	6.1 6.4	6.3	5.8
					Bottom	35.6	27.7 27.7	27.7	8.1 8.1	8.1	28.6 28.8	28.7	85.4 85.2	85.3	5.7 5.7	5.7	5.7	3.4 3.3	3.4		6.1 5.5	5.8	
19-Sep-14	Sunny	Moderate	09:12		Surface	1.0	29.1 29.0	29.0	8.2 8.2	8.2	18.5 18.5	18.5	87.1 83.4	85.3	6.0 5.8	5.9		1.6 1.6	1.6		3.5 3.4	3.5	
				34.7	Middle	17.4	28.2 28.3	28.3	8.1 8.2	8.2	27.3 26.1	26.7	77.8 78.4	78.1	5.2 5.3	5.2	5.6	1.6 1.6	1.6	1.6	4.6 4.8	4.7	4.6
					Bottom	33.7	28.1	28.1	8.2	8.1	28.6	29.4	77.3	79.4	5.2	5.3	5.3	1.6	1.6		5.8	5.6	
							28.0		8.1		30.3		81.4		5.4			1.6			5.3		

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Water Quality Monitoring Results at CSA - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)		ЭΗ	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	1	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-Sep-14	Sunny	Moderate	11:02		Surface	1.0	28.3 28.3	28.3	8.3 8.3	8.3	31.0 31.0	31.0	87.0 92.2	89.6	5.7 6.0	5.9	5.6	1.9 1.9	1.9		5.4 5.3	5.4	
				34.8	Middle	17.4	27.9 27.9	27.9	8.2 8.2	8.2	32.6 32.6	32.6	76.7 82.9	79.8	5.0 5.4	5.2	0.0	2.2 2.2	2.2	2.5	6.0 6.1	6.1	5.9
					Bottom	33.8	27.9 27.9	27.9	8.2 8.2	8.2	32.8 32.8	32.8	79.1 76.9	78.0	5.2 5.0	5.1	5.1	3.5 3.5	3.5		6.5 5.9	6.2	
24-Sep-14	Sunny	Moderate	11:53		Surface	1.0	28.7 28.7	28.7	8.2 8.2	8.2	29.1 29.1	29.1	94.4 94.4	94.4	6.2 6.2	6.2	6.1	5.5 5.4	5.5		8.2 8.9	8.6	
				34.1	Middle	17.1	28.5 28.4	28.5	8.2 8.2	8.2	29.8 29.8	29.8	91.7 90.5	91.1	6.0 6.0	6.0	0.1	5.4 5.3	5.4	5.4	8.7 8.1	8.4	8.8
					Bottom	33.1	28.4 28.6	28.5	8.2 8.2	8.2	29.9 29.6	29.7	90.5 94.0	92.3	6.0 6.2	6.1	6.1	5.5 5.0	5.3		9.3 9.3	9.3	
26-Sep-14	Fine	Moderate	15:08		Surface	1.0	28.9 29.0	29.0	8.2 8.2	8.2	26.2 25.8	26.0	83.5 85.5	84.5	5.6 5.7	5.6	5.4	3.1 3.2	3.2		3.3 3.5	3.4	
				34.2	Middle	17.1	28.5 28.5	28.5	8.2 8.2	8.2	29.3 29.2	29.2	78.7 79.9	79.3	5.2 5.3	5.2	3.4	3.1 3.2	3.2	3.2	3.1 3.2	3.2	3.3
					Bottom	33.2	28.3 28.5	28.4	8.2 8.2	8.2	30.6 30.4	30.5	79.8 82.9	81.4	5.2 5.4	5.3	5.3	3.1 3.1	3.1		3.0 3.3	3.2	
29-Sep-14	Sunny	Moderate	16:47		Surface	1.0	29.6 29.5	29.6	8.2 8.2	8.2	25.6 25.8	25.7	81.5 82.6	82.1	5.4 5.5	5.4	5.3	3.3 3.2	3.3		8.0 8.4	8.2	
				34.6	Middle	17.3	28.9 28.9	28.9	8.2 8.2	8.2	29.6 29.6	29.6	77.5 77.1	77.3	5.1 5.1	5.1	3.3	3.1 3.0	3.1	3.2	8.5 8.2	8.4	8.4
					Bottom	33.6	28.7 28.9	28.8	8.2 8.2	8.2	30.1 29.8	30.0	79.1 80.3	79.7	5.2 5.3	5.2	5.2	3.4 3.2	3.3		8.4 8.6	8.5	
1-Oct-14	0	0	0		Surface	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	_	0.0 0.0	0.0	
				1.0	Middle	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	0.0
					Bottom	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0		0.0 0.0	0.0	<u> </u>

Remarks:

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

- DA: Depth-Averaged
- ** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
- *** Cancelled due to Thunderstorm Warning and safety concern.

Water Quality Monitoring Results at CSA - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ed Oxygen	(mg/L)	T	urbidity(NTI	J)	Suspe	ended Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
1-Sep-14	Sunny	Moderate	10:18		Surface	1.0	28.2 28.2	28.2	8.1 8.1	8.1	24.0 24.0	24.0	75.0 76.1	75.6	5.1 5.2	5.2		2.5 2.5	2.5		4.4 4.5	4.5	
				34.7	Middle	17.4	26.5	27.0	8.1	8.1	28.1	26.7	73.9	73.7	5.1	5.1	5.2	2.5	2.6	2.5	4.6	4.4	4.6
							27.4 26.8		8.1 8.1		25.3 28.2		73.4 71.6		5.0 5.0		4.0	2.6 2.5			4.1		
			45.45		Bottom	33.7	26.3	26.6	8.1	8.1	29.7	28.9	70.8	71.2	4.8	4.9	4.9	2.5	2.5		5.0	4.9	
3-Sep-14	Sunny	Moderate	15:47		Surface	1.0	29.5 29.4	29.4	8.2 8.2	8.2	20.4 20.4	20.4	87.3 91.1	89.2	6.0 6.2	6.1	5.8	1.6 1.6	1.6		1.9 1.7	1.8	
				35.2	Middle	17.6	27.3 27.2	27.3	8.1 8.1	8.1	27.8 27.9	27.8	78.8 79.2	79.0	5.4 5.5	5.4	5.0	1.6 1.5	1.6	1.7	1.7 1.7	1.7	1.7
					Bottom	34.2	27.3	27.3	8.1	8.1	27.8	27.8	74.6	75.5	5.1	5.1	5.1	1.7	1.8		1.9	1.7	
5-Sep-14	Sunny	Moderate	18:01				27.3 28.2		8.1 8.2		27.8 26.2		76.4 79.3		5.2 5.4			1.8			1.4 3.2		
					Surface	1.0	28.2	28.2	8.2	8.2	26.2	26.2	79.5	79.4	5.4	5.4	5.3	1.5	1.6		3.1	3.2	
				34.4	Middle	17.2	28.1 28.0	28.1	8.2 8.2	8.2	26.5 26.6	26.5	77.4 76.8	77.1	5.2 5.2	5.2		2.2 2.1	2.2	1.9	3.1 3.6	3.4	3.8
					Bottom	33.4	28.0 28.1	28.0	8.2 8.2	8.2	26.6 26.5	26.6	78.0 78.5	78.3	5.3 5.3	5.3	5.3	2.0	2.0		4.9 4.6	4.8	
8-Sep-14	Cloudy	Moderate	19:57		Surface	1.0	28.3	28.3	8.1	8.1	25.9	26.0	76.3	76.2	5.2	5.2		6.4	6.3		8.8	9.1	
				34.0	Middle	17.0	28.3 27.8	27.7	8.1 8.1	8.1	26.0 27.7	27.8	76.0 74.6	74.6	5.2 5.1	5.1	5.2	6.2	6.4	6.4	9.3	10.6	10.5
				34.0	ivildale		27.7 27.7		8.1 8.1		27.8 28.0		74.6 73.3		5.1 5.0	5.1		6.3 6.6		6.4	10.5 11.1		10.5
					Bottom	33.0	27.8	27.8	8.1	8.1	27.8	27.9	72.5	72.9	4.9	4.9	4.9	6.5	6.6		12.3	11.7	
10-Sep-14	Sunny	Moderate	06:23		Surface	1.0	28.6 28.6	28.6	8.1 8.0	8.1	25.1 25.1	25.1	81.2 79.6	80.4	5.5 5.4	5.4	5.0	7.3 7.4	7.4		8.0 8.6	8.3	
				34.9	Middle	17.5	28.4 28.4	28.4	8.1 8.1	8.1	26.2 26.1	26.2	76.7 78.2	77.5	5.2 5.3	5.2	5.3	6.7 7.0	6.9	7.0	9.1 8.1	8.6	8.6
					Bottom	33.9	28.3	28.3	8.0	8.1	26.3	26.2	77.4	78.0	5.2	5.2	5.2	6.9	6.8		8.7	8.9	
12-Sep-14	Sunny	Moderate	08:08				28.4		8.1 8.1		26.1 24.3		78.5 80.9		5.3 5.6		J.Z	6.6 5.7			9.1		
12 000 14	Curiny	Woderate	00.00		Surface	1.0	29.0	29.0	8.1	8.1	24.2	24.2	81.9	81.4	5.6	5.6	5.6	5.8	5.8		9.6	9.9	<u> </u>
				34.7	Middle	17.4	29.0 29.0	29.0	8.1 8.1	8.1	24.8 24.9	24.8	80.4 79.5	80.0	5.5 5.5	5.5		6.8 6.6	6.7	6.4	10.7 10.2	10.5	11.0
					Bottom	33.7	28.9 28.9	28.9	8.1 8.1	8.1	25.3 25.3	25.3	77.9 78.7	78.3	5.4 5.4	5.4	5.4	6.5 6.6	6.6		12.2 12.7	12.5	
15-Sep-14	Sunny	Rough	10:52		Surface	1.0	29.2	29.3	8.1	8.1	25.5	25.3	76.4	75.9	5.7	5.6		1.7	1.6		2.2	2.4	
							29.4 28.7		8.0 8.0		25.1 26.8		75.3 75.9		5.4 5.4		5.6	1.5			2.6 3.3		
				35.4	Middle	17.7	28.9	28.8	8.0	8.0	26.1	26.4	76.9	76.4	5.7	5.5		1.9	1.9	1.8	3.1	3.2	3.0
					Bottom	34.4	28.6 29.0	28.8	8.0 8.0	8.0	27.5 26.2	26.8	76.7 79.7	78.2	5.7 5.9	5.8	5.8	1.8 1.7	1.8		3.1 3.5	3.3	
17-Sep-14	Cloudy	Moderate	20:58		Surface	1.0	28.1 28.1	28.1	8.2 8.2	8.2	28.3 28.4	28.3	86.9 87.0	87.0	5.8 5.8	5.8		1.8 1.9	1.9		3.3 3.1	3.2	
				36.5	Middle	18.3	28.1	28.1	8.2	8.2	28.7	28.7	84.8	85.2	5.7	5.7	5.8	2.0	2.0	2.0	3.4	3.4	3.3
				00.0			28.1 28.1		8.2 8.2		28.7 28.7		85.5 85.4		5.7 5.7			2.0		2.0	3.4		0.0
40.0 41	0	Martinet	40.00		Bottom	35.5	27.8	28.0	8.1	8.2	29.0	28.9	83.6	84.5	5.6	5.6	5.6	2.1	2.1		2.5	3.2	<u> </u>
19-Sep-14	Sunny	Moderate	18:20		Surface	1.0	29.4 29.5	29.4	8.2 8.2	8.2	20.8 20.8	20.8	90.2 91.7	91.0	6.2 6.2	6.2	5.9	2.0 2.0	2.0		3.5 3.3	3.4	j l
				34.7	Middle	17.4	28.4 28.5	28.5	8.2 8.2	8.2	27.5 27.6	27.6	82.9 83.9	83.4	5.5 5.6	5.6	5.5	2.5 2.6	2.6	2.4	3.7 3.6	3.7	4.4
					Bottom	33.7	28.3	28.4	8.1	8.1	29.3	29.1	87.7	88.5	5.8	5.9	5.9	2.5	2.5		5.9	6.2	1
				<u> </u>	20110.11	JU	28.5		8.1	J	28.8		89.2	00.0	5.9	0.0	0.0	2.5			6.4	V	

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Water Quality Monitoring Results at CSA - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	ı	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	1	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*
22-Sep-14	Sunny	Moderate	19:32		Surface	1.0	28.1 28.1	28.1	8.3 8.3	8.3	31.0 31.0	31.0	84.4 85.1	84.8	5.6 5.6	5.6	5.4	4.6 4.5	4.6		4.8 5.0	4.9	
				34.5	Middle	17.3	28.0 28.0	28.0	8.2 8.2	8.2	32.1 32.1	32.1	78.0 79.4	78.7	5.1 5.2	5.2	0.4	4.6 4.5	4.6	4.6	5.6 6.3	6.0	6.1
					Bottom	33.5	27.9 28.0	28.0	8.2 8.3	8.3	32.2 32.1	32.2	79.8 84.0	81.9	5.2 5.5	5.4	5.4	4.5 4.6	4.6		7.5 7.1	7.3	
24-Sep-14	Fine	Moderate	20:32		Surface	1.0	28.7 28.4	28.6	8.2 8.3	8.2	29.5 30.5	30.0	98.5 94.3	96.4	6.7 6.3	6.5	6.5	5.6 5.7	5.7		7.3 7.3	7.3	
				35.4	Middle	17.7	28.9 28.7	28.8	8.3 8.3	8.3	29.9 30.4	30.1	93.9 95.4	94.7	6.3 6.5	6.4	0.5	5.8 5.5	5.7	5.6	7.5 7.4	7.5	7.5
					Bottom	34.4	28.7 28.5	28.6	8.2 8.2	8.2	30.1 30.5	30.3	93.6 93.7	93.7	6.3 6.5	6.4	6.4	5.6 5.2	5.4		7.5 8.0	7.8	
26-Sep-14	Sunny	Moderate	07:02		Surface	1.0	28.6 28.6	28.6	8.2 8.2	8.2	26.6 26.7	26.7	82.0 81.1	81.6	5.5 5.4	5.5	5.5	7.3 7.5	7.4		6.5 6.4	6.5	
				35.1	Middle	17.6	28.6 28.6	28.6	8.2 8.2	8.2	28.4 27.2	27.8	80.4 81.4	80.9	5.3 5.4	5.4	5.5	7.4 7.5	7.5	7.5	7.3 7.0	7.2	7.2
					Bottom	34.1	28.5 28.6	28.6	8.2 8.1	8.2	28.6 28.5	28.6	82.7 81.0	81.9	5.5 5.4	5.4	5.4	7.7 7.6	7.7		7.7 7.9	7.8	
29-Sep-14	Sunny	Moderate	09:22		Surface	1.0	29.1 29.0	29.0	8.1 8.1	8.1	25.6 26.6	26.1	78.9 77.9	78.4	5.3 5.2	5.2	5.2	4.8 4.8	4.8		6.7 6.6	6.7	
				35.1	Middle	17.6	28.9 28.9	28.9	8.1 8.1	8.1	27.5 27.8	27.7	76.8 77.3	77.1	5.1 5.1	5.1	5.2	5.2 5.0	5.1	5.0	7.4 7.4	7.4	7.6
					Bottom	34.1	28.8 28.9	28.9	8.1 8.1	8.1	28.3 27.5	27.9	79.9 78.5	79.2	5.3 5.2	5.2	5.2	5.1 5.0	5.1		9.0 8.5	8.8	
1-Oct-14	0	0	0		Surface	0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.0	0.0	0.0 0.0	0.0	_	0.0 0.0	0.0	
				1.0	Middle	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	0.0
					Bottom	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0		0.0 0.0	0.0	

Remarks:

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

- DA: Depth-Averaged
- ** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
- *** Cancelled due to Thunderstorm Warning and safety concern.

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

Date	Weather	Sea	Sampling	Water	Samp	Sampling Depth (m)		ature (°C)	рН		Salinity (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*
1-Sep-14	Sunny	Moderate	15:53		Surface	1.0	29.8 29.4	29.6	8.0 8.0	8.0	24.7 24.9	24.8	94.2 96.1	95.2	6.3 6.4	6.3		7.4 7.4	7.4		6.1 5.8	6.0	
				3.4	Middle	-	-	-	-	-	-	-	-	-	-	-	6.3	-	-	7.8	-	-	6.2
					Bottom	2.4	29.1 29.3	29.2	8.0 7.9	8.0	25.1 25.0	25.0	94.1 99.6	96.9	6.3 6.6	6.5	6.5	8.2 8.0	8.1		5.9 6.6	6.3	
3-Sep-14	Sunny	Moderate	07:47		Surface	1.0	29.6	29.6	8.1	8.1	21.7	22.0	84.6	84.8	5.7	5.7		12.6	12.6		3.2	3.2	
·				0.0		1.0	29.6		8.1		22.3		84.9		5.7	5.7	5.7	12.5	12.0	40.7	3.2		4.0
				3.2	Middle		29.3	-	- 8.1	-	23.7	-	- 81.8	-	- 5.5	-		12.7	-	12.7	5.0	-	4.2
5 Con 44	Common	Madagata	40.24		Bottom	2.2	29.5	29.4	8.1	8.1	23.6	23.6	84.8 84.7	83.3	5.7	5.6	5.6	12.7	12.7		5.1	5.1	
5-Sep-14	Sunny	Moderate	10:31		Surface	1.0	29.6 29.5	29.5	8.2 8.2	8.2	22.4 22.5	22.5	83.8	84.3	5.7 5.6	5.7	5.7	10.6 10.5	10.6		4.3 4.0	4.2	
				3.2	Middle	-	-	-	-	-	-	-	-	-	-	-		-	-	10.5	-	-	4.1
					Bottom	2.2	29.3 28.9	29.1	8.2 8.1	8.1	25.3 25.5	25.4	84.0 79.7	81.9	5.6 5.3	5.5	5.5	10.2 10.6	10.4		3.8 3.9	3.9	
8-Sep-14	Cloudy	Moderate	13:04		Surface	1.0	29.1 29.2	29.2	8.2 8.2	8.2	26.0 25.8	25.9	98.8 100.3	99.6	6.3 6.4	6.3	0.0	8.2 8.0	8.1		10.4 10.3	10.4	
				3.3	Middle	-	-	-	-	-	-	-	-	-	-	-	6.3	-	-	8.3	-	-	10.3
					Bottom	2.3	28.8 29.1	29.0	8.2 8.2	8.2	26.7 26.0	26.4	98.1 97.3	97.7	6.2	6.2	6.2	8.4 8.3	8.4		9.1 11.0	10.1	
10-Sep-14	Sunny	Moderate	12:48		Surface	1.0	29.7	29.7	8.0	8.0	25.8	25.9	82.8	83.3	5.5	5.5		10.8	10.6		5.2	5.4	
				3.3	Middle	_	29.7	_	8.0	_	25.9	_	83.8	_	5.6 -	_	5.5	10.4	_	10.6	5.5	-	5.2
					Bottom	2.3	29.5	29.5	8.0	8.0	26.0	26.0	82.9	84.3	5.5	5.6	5.6	10.6	10.6		4.6	5.0	
12-Sep-14	Sunny	Moderate	13:50		Surface	1.0	29.5 29.7	29.7	8.0	8.0	26.1 26.0	26.0	85.7 88.8	87.8	5.7 5.9	5.8	0.0	10.5 12.8	12.6		5.4 16.6	16.6	
						1.0	29.7	29.1	8.0	-	26.0	20.0	86.7	67.6	5.7	3.6	5.8	12.4			16.5		
				3.2	Middle	-	29.7	-	8.0	-	26.0	-	90.6	-	6.0	-		13.4	-	13.2	17.6	-	17.1
45.0 44.***					Bottom	2.2	29.7	29.7	8.0	8.0	26.0	26.0	87.9	89.3	5.8	5.9	5.9	14.2	13.8		17.5	17.6	
15-Sep-14 ***	-	-	-		Surface	-	-	-	-	-		-	-	-	-	-	-		-		-	-	
				-	Middle	-	-	-	-	-	-	-	-	-	-	-		-	-	=	-	-	-
					Bottom	-	-	-	-	-		-	-	-		-	-	-	-		-	-	
17-Sep-14	Cloudy	Moderate	08:09		Surface	1.0	28.2 28.2	28.2	8.1 8.1	8.1	25.4 25.3	25.4	90.8 92.4	91.6	6.2 6.3	6.2		5.9 5.9	5.9		4.4 5.1	4.8	
				3.2	Middle	-	-	-	-	-	-	-	-	-	-	-	6.2	-	-	6.3	-	-	5.4
					Bottom	2.2	28.2 28.2	28.2	8.1 8.1	8.1	25.5 25.4	25.5	92.2 93.6	92.9	6.2 6.3	6.3	6.3	6.5 6.6	6.6		5.4 6.3	5.9	
19-Sep-14	Sunny	Moderate	10:54		Surface	1.0	29.6 29.6	29.6	8.1	8.0	22.6	22.7	94.7 94.9	94.8	6.4	6.4		7.4	7.6		4.4 4.9	4.7	
				3.1	Middle	-	- 29.0	-	8.0	-	22.7	-	94.9	-	6.4	-	6.4	7.7	-	8.0	- 4.9	-	5.4
					Bottom	2.1	29.6	29.5	8.0	8.0	24.1	24.2	94.2	95.5	6.3	6.4	6.4	8.5	8.4		5.5	6.0	
					DOMOITI	۷.۱	29.4	23.0	7.9	0.0	24.3	4.4	96.8	33.3	6.5	0.4	0.4	8.3	0.4		6.4	0.0	

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

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

Date	Weather	Sea	Sampling	Water	Samp			ature (°C)	F	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*
22-Sep-14	Sunny	Moderate	12:40		Surface	1.0	28.7 28.8	28.8	8.3 8.3	8.3	28.0 27.9	28.0	98.4 99.5	99.0	6.5 6.6	6.6	6.6	8.5 8.9	8.7		6.8 7.1	7.0	
				3.3	Middle	-		-		-		-		-		-	0.0	-	-	8.7	-	-	7.1
					Bottom	2.3	28.5 28.6	28.5	8.3 8.3	8.3	28.5 28.3	28.4	98.5 100.6	99.6	6.5 6.7	6.6	6.6	8.6 8.8	8.7		7.4 6.8	7.1	
24-Sep-14	Sunny	Moderate	14:07		Surface	1.0	28.9 28.9	28.9	7.7 7.6	7.6	27.8 27.7	27.8	97.4 97.3	97.4	6.4 6.4	6.4	6.4	10.6 10.7	10.7		9.6 9.4	9.5	
				3.0	Middle	ı		-		-		-		-		-	0.4	-	-	10.6	-	-	11.7
					Bottom	2.0	29.0 28.9	29.0	7.6 7.6	7.6	28.7 28.6	28.7	97.2 97.6	97.4	6.4 6.4	6.4	6.4	10.2 10.5	10.4		13.9 13.7	13.8	
26-Sep-14	Fine	Moderate	13:14		Surface	1.0	29.2 29.3	29.3	7.6 7.7	7.6	28.4 28.4	28.4	93.3 89.4	91.4	6.1 5.9	6.0	6.0	10.0 9.7	9.9		3.1 2.7	2.9	
				3.3	Middle	-	-	-	-	-	-	-	-	-	-	-	0.0	-	-	10.1	-	-	4.6
					Bottom	2.3	29.2 29.2	29.2	7.6 7.6	7.6	28.5 28.5	28.5	88.8 90.6	89.7	5.8 5.9	5.9	5.9	10.3 10.1	10.2		6.0 6.6	6.3	
29-Sep-14	Sunny	Moderate	14:51		Surface	1.0	30.0 30.0	30.0	7.4 7.5	7.5	25.4 25.4	25.4	88.5 88.0	88.3	5.8 5.8	5.8	5.8	9.1 9.3	9.2		5.7 5.7	5.7	
				3.3	Middle	-		-		-		-		-		-	3.6	-	-	9.5	-	-	6.0
					Bottom	2.3	29.9 29.9	29.9	7.4 7.5	7.4	25.5 25.5	25.5	88.8 88.4	88.6	5.9 5.8	5.8	5.8	9.7 9.9	9.8		6.1 6.5	6.3	
1-Oct-14	0	0	0		Surface	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	_	0.0	0.0	
				1.0	Middle	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	0.0
					Bottom	0.0	0.0 0.0	0.0	0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0		0.0	0.0	

Remarks:

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

- DA: Depth-Averaged
- ** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
- *** Cancelled due to Thunderstorm Warning and safety concern.

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

Date	Weather	Sea	Sampling	Water	Sampling Depth (m)		Temper	ature (°C)		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*
1-Sep-14	Sunny	Moderate	12:10		Surface	1.0	29.1 29.1	29.1	8.0 8.0	8.0	23.7 23.7	23.7	88.3 87.8	88.1	6.0 5.9	5.9		7.1 7.0	7.1		6.5 6.8	6.7	
				3.3	Middle	-	-	-	-	-	-	-	-	-	-	-	5.9	-	-	7.3	-	-	7.8
					Bottom	2.3	29.1 29.0	29.0	8.0 8.0	8.0	23.9 23.9	23.9	88.5 87.5	88.0	6.0 5.9	5.9	5.9	7.1 7.7	7.4		9.0	8.8	
3-Sep-14	Sunny	Moderate	13:29		Surface	1.0	30.6	30.7	8.2	8.2	22.1	22.1	114.8	117.1	7.6	7.8		4.5	4.5		2.7	2.4	
				3.1	Middle		30.7	-	8.2	-	22.1		119.3		7.9	1.0	7.8	4.5		4.7	2.0		3.0
				3.1		- 0.4	30.3		8.2		22.7		- 116.0		7.7	7.0	7.0	4.7	4.0	4.7	3.3	-	3.0
5-Sep-14	Sunny	Moderate	16:05		Bottom	2.1	30.0 30.4	30.2	8.2 8.4	8.2	22.9 22.0	22.8	113.8 120.6	114.9	7.6 8.0	7.6	7.6	4.8 6.5	4.8		3.8 5.2	3.6	
3-0ер-14	Odiniy	Woderate	10.03		Surface	1.0	30.4	30.4	8.4	8.4	22.1	22.0	121.0	120.8	8.0	8.0	8.0	6.4	6.5		5.1	5.2	
				3.1	Middle	-	-	-	-	-	-	-	-	-	-	-		-	-	6.6	-	-	5.4
					Bottom	2.1	30.2 29.2	29.7	8.4 8.3	8.3	22.7 23.5	23.1	115.3 110.6	113.0	7.7 7.4	7.5	7.5	6.8 6.6	6.7		5.7 5.4	5.6	
8-Sep-14	Cloudy	Moderate	17:21		Surface	1.0	29.4 29.3	29.4	8.2 8.2	8.2	25.6 25.7	25.7	102.1 101.3	101.7	6.5 6.4	6.5	6.5	7.8 7.8	7.8		8.2 8.5	8.4	
				2.9	Middle	-	-	-	-	-	-	-	-	-	-	-	0.0	-	-	7.9	-	-	8.1
					Bottom	1.9	29.2 28.9	29.0	8.2 8.1	8.2	26.1 26.6	26.4	101.2 100.7	101.0	6.4 6.4	6.4	6.4	8.0 7.9	8.0		8.0 7.3	7.7	
10-Sep-14	Sunny	Moderate	07:55		Surface	1.0	29.4 29.3	29.4	8.0 8.0	8.0	25.4 25.4	25.4	83.5 84.1	83.8	5.6 5.6	5.6		9.4 9.2	9.3		11.1 10.5	10.8	
				3.2	Middle	-	-	-	-	-	-	-	-	-	-	-	5.6	-	-	9.3	-	-	11.8
					Bottom	2.2	29.3 29.3	29.3	8.0 8.0	8.0	25.5 25.5	25.5	83.8 84.9	84.4	5.6 5.7	5.6	5.6	9.1 9.3	9.2		13.1 12.4	12.8	
12-Sep-14	Sunny	Moderate	09:31		Surface	1.0	29.6	29.6	8.0	8.0	24.6	24.6	87.2	88.6	5.8	5.9		14.5	14.8		13.8	14.0	
				3.3	Middle	_	29.6	-	8.0	-	24.6	-	89.9	-	6.0	_	5.9	15.0	_	15.1	14.1	_	14.3
					Bottom	2.3	29.6	29.6	8.0	8.0	24.6	24.6	92.2	90.2	6.1	6.0	6.0	15.6	15.3		14.2	14.5	
15-Sep-14	Sunny	Rough	12:25		Surface	1.0	29.6 30.2	30.2	8.0 8.1	8.1	24.6 24.7	24.7	88.2 85.3	85.9	5.9 5.6	5.7	0.0	15.0 10.7	10.5		14.8 8.2	8.1	
				2.0		1.0	30.2	- 30.2	8.1	-	24.7	-	86.5		5.7	5.1	5.7	10.3	-	40.0	8.0	-	40.4
				3.2	Middle	-	30.2		8.1		24.7		- 85.5	-	5.6			10.7		10.6	12.0		10.1
17-Sep-14	Cloudy	Moderate	19:16		Bottom	2.2	30.2	30.2	8.1	8.1	24.6 27.1	24.7	89.0 98.1	87.3	5.9 6.6	5.7	5.7	10.6	10.7		11.9 7.5	12.0	
17-Sep-14	Cloudy	Moderate	19.16		Surface	1.0	28.6	28.6	8.2	8.2	27.1	27.1	97.7	97.9	6.5	6.5	6.5	8.4	8.4		7.7	7.6	
				3.2	Middle	-	-	-	-	-	-	-	-	-	-	-		-	-	8.6	-	-	8.3
					Bottom	2.2	28.5 28.5	28.5	8.2 8.2	8.2	27.4 27.2	27.3	98.0 97.9	98.0	6.5 6.5	6.5	6.5	8.5 8.8	8.7		9.1 8.8	9.0	<u> </u>
19-Sep-14	Sunny	Moderate	16:11		Surface	1.0	30.3 30.4	30.3	8.1 8.1	8.1	23.8 23.7	23.8	111.3 109.6	110.5	7.4 7.2	7.3	7.3	8.6 8.8	8.7		3.7 3.9	3.8	
				3.0	Middle	-	-	-	-	-	-	-	-	-	-	-	1.5	-	-	10.3	-	-	4.0
					Bottom	2.0	30.1 30.2	30.2	8.0 8.1	8.1	25.1 24.8	25.0	105.7 111.8	108.8	7.0 7.4	7.2	7.2	11.3 12.5	11.9		4.2 4.0	4.1	

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

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

Date	Weather	Sea	Sampling	Water	Samp	ling	Temper	ature (°C)	ı	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	1	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*
22-Sep-14	Sunny	Moderate	17:26		Surface	1.0	28.9 29.0	29.0	8.3 8.4	8.3	28.1 28.0	28.1	107.8 115.7	111.8	7.2 7.6	7.4	7.4	8.6 8.2	8.4		5.2 4.5	4.9	
				3.2	Middle	-	-	-	-	-	-	-	-	-	-	-		-	-	8.5	-	-	5.4
					Bottom	2.2	29.0 28.8	28.9	8.3 8.3	8.3	28.1 28.3	28.2	112.1 108.6	110.4	7.4 7.8	7.6	7.6	8.8 8.4	8.6		6.0 5.6	5.8	
24-Sep-14	Fine	Moderate	18:16		Surface	1.0	29.1 29.2	29.2	7.8 7.8	7.8	29.5 29.5	29.5	110.6 109.8	110.2	7.2 7.2	7.2	7.2	16.9 16.7	16.8		11.1 11.5	11.3	
				3.0	Middle	-	-	-	-	-		-		-		-	7.2	-	-	16.8	-	-	12.0
					Bottom	2.0	29.1 29.1	29.1	7.8 7.8	7.8	29.7 29.6	29.6	107.9 110.0	109.0	7.0 7.2	7.1	7.1	16.6 16.8	16.7		12.8 12.5	12.7	
26-Sep-14	Sunny	Moderate	08:24		Surface	1.0	28.9 28.9	28.9	7.5 7.5	7.5	26.9 26.9	26.9	93.7 101.1	97.4	6.2 6.7	6.5	6.5	11.3 11.6	11.5		6.6 6.4	6.5	
				3.4	Middle	i		-		-		-		-		-	0.5	-	-	11.6	-	-	7.4
					Bottom	2.4	28.9 28.8	28.9	7.5 7.4	7.5	26.9 27.0	27.0	91.5 94.4	93.0	6.1 6.3	6.2	6.2	11.4 11.7	11.6		8.2 8.1	8.2	
29-Sep-14	Sunny	Moderate	11:38		Surface	1.0	30.1 30.1	30.1	7.5 7.6	7.6	24.2 24.3	24.3	94.9 94.3	94.6	6.3 6.2	6.3	6.3	4.9 5.5	5.2		4.4 4.7	4.6	
				3.3	Middle	i		-		-		-		-		-	0.5	-	-	5.3	-	-	5.5
					Bottom	2.3	30.1 30.0	30.0	7.6 7.4	7.5	24.4 24.4	24.4	94.5 95.3	94.9	6.2 6.3	6.3	6.3	5.4 5.1	5.3		6.6 6.1	6.4	
1-Oct-14	0	0	0		Surface	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0		0.0	0.0	
				1.0	Middle	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	0.0
					Bottom	0.0	0.0 0.0	0.0	0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0		0.0	0.0	

Remarks:

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

- DA: Depth-Averaged
- ** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
- *** Cancelled due to Thunderstorm Warning and safety concern.

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 (%)	Dissolv	red 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-Sep-14	Sunny	Moderate	16:07		Surface	1.0	29.5 29.5	29.5	8.1 8.1	8.1	24.2 24.2	24.2	95.2 95.1	95.2	6.4 6.4	6.4		6.7 6.1	6.4		5.5 5.7	5.6	
				3.6	Middle	-	-	-	-	-	-	-	-	-	-	-	6.4	-	-	6.6	-	-	7.4
					Bottom	2.6	29.4	29.4	8.1	8.1	24.3	24.3	95.3	95.2	6.4	6.4	6.4	6.9	6.7		9.0	9.1	
3-Sep-14	Sunny	Moderate	07:33				29.5 29.4		8.1 8.1		24.3		95.1 85.7		6.4 5.8			6.4 12.5			9.2 4.6		
3-3ep-14	Sumiy	Woderate	07.33		Surface	1.0	29.6	29.5	8.1	8.1	21.2	21.1	90.7	88.2	6.1	6.0	6.0	12.4	12.5		4.1	4.4]
				3.7	Middle	-	-	-	-	-	-	-	-	-	-	-		-	-	12.4	-	-	5.1
					Bottom	2.7	29.3 29.4	29.4	8.0 8.0	8.0	22.7 23.8	23.2	88.0 88.9	88.5	5.9 6.0	6.0	6.0	12.3 12.2	12.3		6.0 5.4	5.7	
5-Sep-14	Sunny	Moderate	10:17		Surface	1.0	29.2 29.2	29.2	8.0 8.1	8.1	23.1 22.8	23.0	74.0 74.5	74.3	5.0 5.1	5.0		4.5 4.5	4.5		4.1 4.8	4.5	
				3.6	Middle	-	-	-	-	-	-	-	-	-	-	-	5.0	-	-	4.6	-	-	5.9
					Bottom	2.6	28.2	28.6	8.0 8.0	8.0	25.1	24.7	70.6	72.3	4.8 5.0	4.9	4.9	4.6 4.5	4.6		7.1 7.2	7.2	
8-Sep-14	Cloudy	Moderate	12:51		Surface	1.0	29.1 29.3	29.3	8.2	8.2	24.2 25.7	25.7	73.9 99.6	100.7	6.3	6.4		9.0	9.0		9.9	9.6	
				3.2	Middle		29.3	_	8.2	_	25.7	_	101.7		6.5	_	6.4	8.9		9.1	9.3		10.0
				5.2		0.0	- 29.3	20.2	8.2	0.0	- 25.7	25.0	99.5	00.4	6.3	0.0	6.0	9.0	0.4	3.1	10.8		10.0
10-Sep-14	Sunny	Moderate	13:03		Bottom	2.2	29.0 29.7	29.2	8.2 8.1	8.2	25.9 25.5	25.8	99.3 87.9	99.4	6.3 5.8	6.3	6.3	9.1 7.4	9.1		9.8 6.4	10.3	
10-оер-14	Guilly	Woderate	15.05		Surface	1.0	29.7	29.7	8.1	8.1	25.6	25.5	86.2	87.1	5.7	5.8	5.8	7.6	7.5		6.5	6.5	
				3.7	Middle	-	-	-		-	-	-	-	-		-		-	-	7.6	-	-	7.2
					Bottom	2.7	29.7 29.8	29.7	8.1 8.0	8.1	25.6 25.5	25.5	87.0 89.8	88.4	5.8 6.0	5.9	5.9	7.5 7.6	7.6		7.8 7.8	7.8	
12-Sep-14	Sunny	Moderate	14:05		Surface	1.0	29.7 29.7	29.7	8.0 8.0	8.0	25.2 25.2	25.2	82.3 80.9	81.6	5.4 5.4	5.4	5 4	9.2 8.7	9.0		6.9 6.3	6.6	
				3.5	Middle	-	-	-		-	-	-	-	-		-	5.4	-	-	9.3	-	-	8.0
					Bottom	2.5	29.7 29.7	29.7	8.0 8.0	8.0	25.3 25.2	25.3	84.2 81.6	82.9	5.6 5.4	5.5	5.5	9.5 9.6	9.6		9.2 9.5	9.4	
15-Sep-14 ***	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	-	-	-	-	_	-	_		-	-	-	-	-	-	<u> </u>	-	-	_
					Bottom	_	-	_	-	_	-	_	-	_	-	_	_	-	_	-	-	_	-
17-Sep-14	Cloudy	Moderate	07:53			1.0	28.2	28.2	8.1	8.1	25.6		94.7	94.7	6.4	6.4		4.1			4.5	4.5	
	•				Surface	1.0	28.2		8.1		25.6	25.6	94.7		6.4	6.4	6.4	4.4	4.3		4.4	4.5	
				3.7	Middle	-	- 28.2	-	- 8.1	-	- 25.6	-	94.7	-	6.4	-		4.3	-	4.4	- 4.5	-	4.6
					Bottom	2.7	28.2	28.2	8.1	8.1	25.7	25.6	95.0	94.9	6.4	6.4	6.4	4.4	4.4		4.6	4.6	
19-Sep-14	Sunny	Moderate	10:40		Surface	1.0	29.5 29.5	29.5	8.0 8.1	8.1	21.9 22.1	22.0	94.2 95.6	94.9	6.4 6.5	6.4	6.4	7.2 7.0	7.1		2.4 2.0	2.2]
				3.5	Middle	-	-	-		-	-	-	-	-		-	0.4	-	-	7.9	-	-	3.1
					Bottom	2.5	29.6 29.6	29.6	8.0 7.9	8.0	23.1 23.4	23.3	95.3 92.8	94.1	6.4 6.2	6.3	6.3	8.3 8.8	8.6		3.8 4.1	4.0	

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

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

Date	Weather	Sea	Sampling	Water	Samp	ling	Temper	ature (°C)		Н	Salini	y (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	1	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-Sep-14	Sunny	Moderate	12:28		Surface	1.0	28.8 28.8	28.8	8.2 8.2	8.2	27.8 28.0	27.9	84.5 87.0	85.8	5.6 5.8	5.7	5.7	8.8 8.7	8.8		3.5 3.4	3.5	
				3.5	Middle	-	-	-	-	-	-	-	-	-	-	-	0	-	-	8.7	-	-	4.6
					Bottom	2.5	28.7 28.6	28.7	8.2 8.2	8.2	28.5 28.7	28.6	87.6 83.8	85.7	5.8 5.5	5.7	5.7	8.3 8.6	8.5		5.3 5.8	5.6	
24-Sep-14	Sunny	Moderate	13:53		Surface	1.0	29.4 29.3	29.3	7.6 7.6	7.6	28.7 28.8	28.7	111.6 111.6	111.6	7.3 7.3	7.3	7.3	9.7 9.6	9.7		7.8 7.5	7.7	
				3.6	Middle	ı		-		•	1 1	-	-	-		-	7.5	-	-	9.8	-	-	7.8
					Bottom	2.6	29.2 29.2	29.2	7.5 7.5	7.5	28.8 28.8	28.8	109.8 111.4	110.6	7.2 7.3	7.2	7.2	9.8 9.8	9.8		8.0 7.8	7.9	
26-Sep-14	Fine	Moderate	13:26		Surface	1.0	29.7 29.6	29.7	7.5 7.6	7.6	27.4 27.5	27.5	98.3 94.1	96.2	6.4 6.2	6.3	6.3	5.4 5.4	5.4		3.1 3.1	3.1	
				3.2	Middle	i		-	-	-		-	-	-		-	0.5	-	-	5.4	-	-	3.7
					Bottom	2.2	29.5 29.4	29.5	7.5 7.5	7.5	27.7 27.8	27.8	94.0 96.2	95.1	6.2 6.3	6.2	6.2	5.4 5.4	5.4		4.0 4.5	4.3	
29-Sep-14	Sunny	Moderate	15:03		Surface	1.0	30.5 30.5	30.5	7.6 7.6	7.6	25.1 25.2	25.2	101.5 102.4	102.0	6.6 6.7	6.7	6.7	7.1 6.9	7.0		5.4 5.2	5.3	
				3.7	Middle	-		-	-	-	1 1	-	-	-		-	0.7	-	-	7.8	-	-	5.3
					Bottom	2.7	30.2 30.4	30.3	7.5 7.6	7.5	25.3 25.2	25.2	98.3 102.0	100.2	6.5 6.7	6.6	6.6	8.6 8.3	8.5		5.3 5.3	5.3	
1-Oct-14	0	0	0		Surface	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0	0.0	0.0 0.0	0.0	_	0.0	0.0	
				1.0	Middle	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	0.0
					Bottom	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0		0.0 0.0	0.0	

Remarks:

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

- DA: Depth-Averaged
- ** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
- *** Cancelled due to Thunderstorm Warning and safety concern.

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

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	ī	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ed Oxygen	(mg/L)	T	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-Sep-14	Sunny	Moderate	11:57		Surface	1.0	28.7 28.7	28.7	8.0 8.0	8.0	23.9 23.9	23.9	82.8 84.0	83.4	5.6 5.7	5.7		7.5 7.6	7.6		6.7 6.6	6.7	
				3.7	Middle	-	-	-	-	-	-	-	-	-	-	-	5.7	-	-	7.8	-	-	6.9
					Bottom	2.7	28.7	28.7	8.0	8.0	24.0 24.0	24.0	84.9	84.0	5.8	5.7	5.7	8.1 7.9	8.0		6.8	7.0	
3-Sep-14	Sunny	Moderate	13:55				30.2		8.0 8.2		21.4		83.0 114.2		5.6 7.7			13.8			5.1		
0 00p 14	Cullity	Woderate	10.00		Surface	1.0	30.5	30.3	8.2	8.2	21.6	21.5	116.4	115.3	7.8	7.7	7.7	13.6	13.7		5.0	5.1	
				3.4	Middle	-	-	-	-	-	-	-	-	-	-	-		-	-	14.1	-	-	7.0
					Bottom	2.4	30.6 30.3	30.4	8.2 8.2	8.2	22.1 22.1	22.1	109.8 114.4	112.1	7.3 7.6	7.5	7.5	14.5 14.5	14.5		8.8 8.8	8.8	
5-Sep-14	Sunny	Moderate	16:19		Surface	1.0	29.8 29.9	29.9	8.3 8.3	8.3	22.7 22.6	22.7	95.9 94.3	95.1	6.4 6.3	6.4	6.4	8.6 8.4	8.5		11.3 10.6	11.0	Ì
				3.6	Middle	-	-	-	-	-	-	-	-	-	-	-	0.4	-	-	8.7	-	-	12.8
					Bottom	2.6	29.3 28.7	29.0	8.2 8.1	8.1	24.7 25.2	24.9	97.4 92.5	95.0	6.5 6.1	6.3	6.3	8.8 8.7	8.8		14.7 14.4	14.6	
8-Sep-14	Cloudy	Moderate	17:57		Surface	1.0	29.3	29.2	8.2	8.2	25.9	26.0	100.9	100.2	6.4	6.3		12.3	12.3		11.3	11.8	
				3.2	Middle	_	29.1	-	8.2	_	26.1	-	99.4	-	6.2	_	6.3	12.3	-	12.4	12.3	-	11.7
					Bottom	2.2	28.8	29.0	8.2	8.2	26.5	26.3	97.5	97.6	6.1	6.1	6.1	12.3	12.4		11.4	11.6	
10-Sep-14	Sunny	Moderate	07:41				29.1 29.1		8.2 8.0		26.1 24.9		97.7 81.1		6.2 5.5		0.1	7.6			11.7 10.8		
	,				Surface	1.0	29.1	29.1	8.0	8.0	25.0	24.9	78.8	80.0	5.3	5.4	5.4	7.8	7.7		9.6	10.2	
				3.6	Middle	-	-	-	-	-	-	-	-	-	-	-		-	-	7.7	-	-	10.7
					Bottom	2.6	29.1 29.1	29.1	8.0 8.0	8.0	25.3 25.4	25.4	80.1 84.5	82.3	5.4 5.7	5.5	5.5	7.6 7.8	7.7		10.8 11.6	11.2	<u> </u>
12-Sep-14	Sunny	Moderate	09:17		Surface	1.0	29.6 29.6	29.6	8.0 8.0	8.0	24.7 24.6	24.7	85.5 88.9	87.2	5.7 5.9	5.8	5.8	10.6 10.9	10.8		14.7 14.9	14.8	
				3.7	Middle	-	-	-	-	-	-	-	-	-	-	-	0.0	-	-	11.1	-	-	16.3
					Bottom	2.7	29.6 29.6	29.6	7.9 8.0	8.0	24.7 24.7	24.7	92.0 86.2	89.1	6.1 5.7	5.9	5.9	11.1 11.4	11.3		17.6 18.0	17.8	
15-Sep-14	Sunny	Rough	12:12		Surface	1.0	30.0 30.0	30.0	8.0 8.0	8.0	24.8 24.8	24.8	83.0 82.0	82.5	5.5 5.4	5.4		8.2 8.0	8.1		5.6 5.9	5.8	
				3.6	Middle	-	-	-	-	-	-	-	-	-	-	-	5.4	-	-	8.2	-	-	6.9
					Bottom	2.6	30.0	29.9	8.0	8.0	24.8	24.8	82.3	83.9	5.4	5.5	5.5	8.0	8.2		8.0	8.0	
17-Sep-14	Cloudy	Moderate	19:30		Surface	1.0	29.9 28.5	28.5	8.0 8.2	8.2	24.8 27.8	27.8	85.4 95.1	95.2	5.6 6.3	6.3		8.3 10.4	10.6		7.9 11.9	11.8	
				3.8		1.0	28.5	-	8.2	-	27.8	-	95.2	-	6.3	0.0	6.3	10.7	10.0	10.5	11.7	11.0	12.7
				3.0	Middle	-	28.5		8.2		- 27.8		95.3		6.3	-		10.3	-	10.5	13.1	-	12.7
19-Sep-14	Cuppy	Moderate	16:26	<u> </u>	Bottom	2.8	28.5 30.1	28.5	8.2 8.1	8.2	27.8 22.0	27.8	95.4 108.3	95.4	6.3 7.2	6.3	6.3	10.5	10.4		13.8 5.6	13.5	
19-3ep-14	Sunny	Woderate	10.20		Surface	1.0	30.1	30.1	8.1	8.1	22.0	22.0	105.3	106.8	7.0	7.1	7.1	9.6	9.3		6.3	6.0	
				3.4	Middle	-	-	-	-	-	-	-	-	-	-	-		-	-	10.5	-	-	6.3
					Bottom	2.4	30.0 30.1	30.1	8.0 8.1	8.1	22.9 23.5	23.2	101.8 108.0	104.9	6.8 7.2	7.0	7.0	11.5 11.6	11.6		6.6 6.3	6.5	

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

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

Date	Weather	Sea	Sampling	Water	Samp	ling	Temper	ature (°C)	I	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	1	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-Sep-14	Sunny	Moderate	17:46		Surface	1.0	28.9 28.9	28.9	8.3 8.3	8.3	28.1 28.1	28.1	106.1 105.6	105.9	7.0 7.0	7.0	7.0	8.6 8.7	8.7		7.8 7.8	7.8	
				3.7	Middle	-	-	-	-	-	-	-	-	-	-	-	7.0	-	-	8.6	-	-	9.2
					Bottom	2.7	28.8 28.8	28.8	8.3 8.3	8.3	28.8 28.7	28.7	103.8 106.6	105.2	6.8 7.0	6.9	6.9	8.5 8.5	8.5		11.0 10.0	10.5	
24-Sep-14	Fine	Moderate	18:31		Surface	1.0	29.1 29.1	29.1	8.0 7.9	8.0	29.5 29.6	29.6	105.6 105.5	105.6	6.9 6.9	6.9	6.9	14.7 14.7	14.7		9.4 9.8	9.6	
				3.7	Middle	-	-	-	-	-		-	-	-		-	0.0	-	-	14.6	-	-	10.2
					Bottom	2.7	29.1 29.1	29.1	7.9 7.9	7.9	29.7 29.8	29.7	105.4 104.6	105.0	6.9 6.8	6.8	6.8	14.4 14.5	14.5		10.6 10.9	10.8	
26-Sep-14	Sunny	Moderate	08:11		Surface	1.0	28.9 28.9	28.9	7.4 7.4	7.4	26.6 26.5	26.6	88.2 99.4	93.8	5.9 6.6	6.2	6.2	7.6 7.8	7.7		9.0 9.1	9.1	
				3.4	Middle	ı		-		-		-	-	-		-	0.2	-	-	7.8	-	-	9.1
					Bottom	2.4	28.9 28.9	28.9	7.4 7.4	7.4	26.6 26.7	26.6	87.8 88.9	88.4	5.8 5.9	5.9	5.9	7.7 7.9	7.8		9.0 9.2	9.1	
29-Sep-14	Sunny	Moderate	11:24		Surface	1.0	29.9 29.9	29.9	7.4 7.5	7.5	24.4 24.5	24.5	92.3 89.9	91.1	6.1 6.0	6.0	6.0	7.7 7.8	7.8		6.6 6.1	6.4	
				3.7	Middle	-	-	-	-	-		-	-	-		-	0.0	-	-	7.9	-	-	7.2
					Bottom	2.7	29.8 29.8	29.8	7.4 7.5	7.5	24.6 24.6	24.6	94.5 90.5	92.5	6.3 6.0	6.1	6.1	7.9 7.9	7.9		7.6 8.2	7.9	
1-Oct-14	0	0	0		Surface	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0		0.0 0.0	0.0	
				1.0	Middle	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	0.0
					Bottom	0.0	0.0 0.0	0.0	0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0		0.0 0.0	0.0	

Remarks:

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

- DA: Depth-Averaged
- ** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
- *** Cancelled due to Thunderstorm Warning and safety concern.

Water Quality Monitoring Results at IS10 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	Н	Salini	y (ppt)	DO Satu	ration (%)	Dissolv	ed Oxygen	(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*
1-Sep-14	Sunny	Moderate	16:50		Surface	1.0	29.3 28.9	29.1	8.1 8.1	8.1	18.9 19.1	19.0	72.7 75.0	73.9	5.0 5.2	5.1	5.4	5.5 5.6	5.6		4.6 5.3	5.0	
				10.8	Middle	5.4	27.4 27.3	27.4	8.0 8.0	8.0	25.5 25.8	25.6	72.4 73.5	73.0	5.0 5.0	5.0	5.1	7.9 7.8	7.9	7.1	4.7 5.4	5.1	5.5
					Bottom	9.8	27.4 27.4	27.4	8.0 8.0	8.0	25.8 25.8	25.8	68.8 72.9	70.9	4.7 5.0	4.9	4.9	7.8 7.9	7.9		6.9 6.1	6.5	
3-Sep-14	Sunny	Moderate	06:57		Surface	1.0	29.2	29.2	8.1	8.1	14.5	14.5	86.6	85.9	6.1	6.1		3.0	2.9		1.6	1.8	
				9.6	Middle	4.8	29.1 28.9	28.9	8.1 8.1	8.1	14.6 18.8	18.8	85.2 80.6	79.5	6.0 5.6	5.5	5.8	2.8 3.6	3.8	3.5	1.9 2.3	2.6	3.0
					Bottom	8.6	28.9 28.8	28.9	8.1 8.1	8.1	18.8 20.1	19.5	78.4 79.5	81.4	5.5 5.5	5.6	5.6	3.9 3.8	3.9		2.8 4.7	4.6	
5-Sep-14	Sunny	Moderate	09:35				28.9 28.0		8.1 8.2		19.0 24.6		83.2 86.1		5.8 5.8		5.0	4.0 2.3			4.4 2.4		
	,				Surface	1.0	28.0 27.9	28.0	8.2 8.2	8.2	24.6 25.4	24.6	81.4 78.9	83.8	5.5 5.4	5.7	5.6	2.6 3.1	2.5		2.5 3.2	2.5	
				9.8	Middle	4.9	27.9 28.0	27.9	8.2	8.2	25.9 26.0	25.7	80.2 78.7	79.6	5.5	5.4		3.2	3.2	3.0	3.8	3.5	3.5
			10.00		Bottom	8.8	27.9	28.0	8.2	8.2	26.1	26.1	77.2	78.0	5.3	5.3	5.3	3.3	3.4		4.8	4.4	
8-Sep-14	Cloudy	Moderate	12:09		Surface	1.0	28.4 28.4	28.4	8.2 8.2	8.2	26.2 26.2	26.2	78.3 81.6	80.0	5.3 5.5	5.4	5.3	7.5 7.4	7.5		6.8 7.7	7.3	
				10.5	Middle	5.3	28.1 28.1	28.1	8.2 8.2	8.2	27.6 27.7	27.7	77.4 78.9	78.2	5.2 5.3	5.2		7.7 7.7	7.7	7.7	8.1 7.4	7.8	7.6
					Bottom	9.5	28.1 28.1	28.1	8.2 8.2	8.2	28.0 28.0	28.0	75.7 77.3	76.5	5.1 5.2	5.1	5.1	7.7 7.8	7.8		7.6 7.9	7.8	
10-Sep-14	Sunny	Moderate	13:27		Surface	1.0	28.7 28.7	28.7	8.1 8.1	8.1	25.0 25.0	25.0	77.9 77.5	77.7	5.2 5.2	5.2		13.9 14.3	14.1		15.4 14.3	14.9	
				10.1	Middle	5.1	28.7 28.7	28.7	8.1 8.1	8.1	25.6 25.5	25.5	78.2 78.2	78.2	5.2 5.2	5.2	5.2	17.8 17.2	17.5	16.1	14.5 14.4	14.5	14.8
					Bottom	9.1	28.7	28.7	8.1 8.1	8.1	25.6 25.6	25.6	77.7 77.7	77.7	5.2 5.2	5.2	5.2	16.5 16.6	16.6		15.9 14.0	15.0	
12-Sep-14	Sunny	Moderate	14:52		Surface	1.0	29.0	29.0	8.0	8.0	24.2	24.3	81.0	81.6	5.6	5.6		11.3	11.6		14.1	14.0	
				10.7	Middle	5.4	29.0 28.9	28.9	8.0	8.0	24.3 25.5	25.6	82.2 77.9	78.1	5.7 5.3	5.4	5.5	11.9 11.5	11.5	11.6	13.9 16.0	15.9	15.3
					Bottom	9.7	28.9 28.9	28.9	8.0	8.0	25.8 25.8	25.8	78.3 79.8	80.3	5.4 5.5	5.5	5.5	11.4 11.8	11.7		15.7 16.1	16.1	
15-Sep-14 ***		-	-			3.7	28.9	20.9	8.0	0.0	25.8	25.0	80.8	00.5	5.5	3.3	0.0	11.5	11.7		16.0	10.1	
					Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
				-	Middle	-	-	-	-	-	-	-	-	-	-	-		-	-	=	-	-	=
17.0			07.10		Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
17-Sep-14	Cloudy	Moderate	07:42		Surface	1.0	28.1 28.1	28.1	8.1 8.1	8.1	25.4 25.5	25.4	85.0 84.8	84.9	5.8 5.8	5.8	5.8	5.6 5.7	5.7		5.5 4.7	5.1	
				11.6	Middle	5.8	28.1 28.1	28.1	8.1 8.1	8.1	26.2 26.6	26.4	84.9 84.8	84.9	5.7 5.7	5.7		6.5 6.7	6.6	6.6	5.8 5.1	5.5	5.5
					Bottom	10.6	28.1 28.1	28.1	8.2 8.1	8.1	27.0 26.9	27.0	85.3 84.7	85.0	5.7 5.7	5.7	5.7	7.5 7.3	7.4		6.5 5.4	6.0	
19-Sep-14	Sunny	Moderate	10:26		Surface	1.0	29.1 29.1	29.1	8.2 8.2	8.2	15.1 15.1	15.1	86.9 87.7	87.3	6.1 6.2	6.2		2.6 2.6	2.6		2.5 2.1	2.3	
				10.5	Middle	5.3	28.6 28.5	28.6	8.1 8.1	8.1	24.2 24.4	24.3	83.4 82.7	83.1	5.7 5.6	5.6	5.9	3.5 3.6	3.6	3.3	2.9	2.9	2.7
					Bottom	9.5	28.4	28.4	8.1	8.1	26.9	26.5	85.7	85.6	5.7	5.7	5.7	3.6	3.6		2.7	2.8	
							28.4	_	8.1	_	26.2		85.5		5.8	-		3.6			2.9		

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Water Quality Monitoring Results at IS10 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	ŗ	ρΗ	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(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-Sep-14	Sunny	Moderate	12:11		Surface	1.0	27.9 27.9	27.9	8.4 8.4	8.4	29.7 29.7	29.7	107.5 105.2	106.4	7.2 7.0	7.1	6.9	10.6 10.7	10.7		3.1 3.1	3.1	
				10.6	Middle	5.3	27.9 27.9	27.9	8.3 8.3	8.3	30.2 30.4	30.3	106.9 94.5	100.7	7.1 6.3	6.7	0.0	10.6 10.7	10.7	10.8	5.6 5.1	5.4	5.0
					Bottom	9.6	27.9 27.9	27.9	8.3 8.3	8.3	30.7 31.1	30.9	100.8 96.5	98.7	6.7 6.4	6.5	6.5	10.9 10.8	10.9		6.6 6.3	6.5	
24-Sep-14	Sunny	Moderate	12:52		Surface	1.0	28.9 28.8	28.8	8.2 8.2	8.2	25.6 25.7	25.7	90.5 92.3	91.4	6.1 6.2	6.1	6.2	6.1 6.2	6.2		3.2 3.3	3.3	
				10.5	Middle	5.3	28.6 28.5	28.6	8.2 8.2	8.2	26.2 26.3	26.3	93.0 90.8	91.9	6.2 6.1	6.2	0.2	6.4 6.1	6.3	6.3	3.3 3.2	3.3	3.5
					Bottom	9.5	28.4 28.3	28.3	8.2 8.2	8.2	28.0 27.9	27.9	90.4 96.5	93.5	6.0 6.4	6.2	6.2	6.5 6.1	6.3		4.0 4.0	4.0	
26-Sep-14	Fine	Moderate	13:50		Surface	1.0	29.0 29.0	29.0	8.2 8.2	8.2	24.2 23.9	24.0	85.5 85.4	85.5	5.8 5.8	5.8	5.7	9.8 9.7	9.8		2.1 1.9	2.0	
				10.5	Middle	5.3	28.5 28.5	28.5	8.2 8.2	8.2	26.4 26.6	26.5	83.2 82.9	83.1	5.6 5.6	5.6	3.7	9.5 9.8	9.7	9.7	2.9 3.0	3.0	2.6
					Bottom	9.5	28.6 28.5	28.5	8.2 8.2	8.2	26.9 27.0	27.0	85.0 85.3	85.2	5.7 5.7	5.7	5.7	9.8 9.6	9.7		2.6 2.9	2.8	
29-Sep-14	Sunny	Moderate	15:52		Surface	1.0	29.0 29.1	29.0	8.1 8.1	8.1	24.0 23.6	23.8	76.2 76.3	76.3	5.1 5.2	5.1	5.1	8.5 8.4	8.5		5.1 5.4	5.3	
				10.8	Middle	5.4	29.0 29.0	29.0	8.1 8.1	8.1	25.8 25.7	25.7	75.7 75.7	75.7	5.1 5.1	5.1	3.1	8.4 8.3	8.4	8.3	8.3 7.5	7.9	7.1
					Bottom	9.8	29.0 29.0	29.0	8.1 8.1	8.1	26.2 26.2	26.2	76.3 76.2	76.3	5.1 5.1	5.1	5.1	8.1 7.9	8.0		8.1 8.1	8.1	
1-Oct-14	0	0	0		Surface	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	_	0.0 0.0	0.0	
				1.0	Middle	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	0.0
					Bottom	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0		0.0 0.0	0.0	

Remarks:

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

- DA: Depth-Averaged
- ** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
- *** Cancelled due to Thunderstorm Warning and safety concern.

Water Quality Monitoring Results at IS10 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	ţ	ρΗ	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-Sep-14	Sunny	Moderate	11:07		Surface	1.0	27.9 28.1	28.0	8.1 8.1	8.1	24.1 23.5	23.8	75.1 74.2	74.7	5.2 5.1	5.1		7.4 7.3	7.4		2.8 2.8	2.8	
				10.6	Middle	5.3	27.4 27.4	27.4	8.1 8.0	8.1	25.6	25.6	73.6	73.4	5.0 5.0	5.0	5.1	7.6 7.7	7.7	7.7	5.8 5.9	5.9	4.9
					Bottom	9.6	27.4	27.4	8.1	8.0	25.5 25.7	25.7	73.1 70.6	70.6	4.8	4.8	4.8	7.9	7.9		5.6	5.9	
3-Sep-14	Sunny	Moderate	14:37				27.4 29.4		8.0 8.2		25.7 17.8		70.6 87.6		4.8 6.1			7.9 7.3			6.1 3.4		
0 00p	ou,	moderate			Surface	1.0	29.4 27.6	29.4	8.2	8.2	17.9 25.9	17.9	85.6 76.8	86.6	5.9 5.2	6.0	5.6	7.8	7.6		3.2	3.3	,
				9.9	Middle	5.0	27.6	27.6	8.1 8.1	8.1	25.9	25.9	75.9	76.4	5.2	5.2		8.9	8.7	8.8	3.5	3.6	3.5
					Bottom	8.9	27.6 27.6	27.6	8.1 8.1	8.1	25.9 25.9	25.9	70.3 73.1	71.7	4.8 5.0	4.9	4.9	10.3 9.8	10.1		3.6 3.5	3.6	
5-Sep-14	Sunny	Moderate	16:51		Surface	1.0	28.7 28.6	28.7	8.2 8.2	8.2	22.8 22.9	22.8	81.1 81.8	81.5	5.5 5.6	5.6	5.4	2.9 3.0	3.0		3.4 3.6	3.5	
				10.1	Middle	5.1	27.6 27.6	27.6	8.1 8.1	8.1	26.9 26.9	26.9	76.0 77.2	76.6	5.2 5.2	5.2	5.4	6.8 6.8	6.8	5.2	4.3 4.4	4.4	4.2
					Bottom	9.1	27.6 27.7	27.7	8.1 8.1	8.1	27.0 27.0	27.0	71.1 70.5	70.8	4.8	4.8	4.8	5.7 5.8	5.8		4.6 4.7	4.7	
8-Sep-14	Cloudy	Moderate	18:49		Surface	1.0	28.4	28.4	8.1	8.1	25.5	25.4	79.0	79.0	5.4	5.4		11.1	11.4		9.0	9.1	
				10.4	Middle	5.2	28.4 28.4	28.4	8.1 8.1	8.1	25.4 25.6	25.7	79.0 78.7	78.7	5.4 5.3	5.3	5.4	11.7 11.5	11.5	11.4	9.1 8.7	8.8	9.6
					Bottom	9.4	28.3 28.4	28.4	8.1 8.1	8.1	25.8 25.7	25.8	78.6 78.7	78.8	5.3 5.3	5.3	5.3	11.4 11.3	11.3		8.8 10.4	10.8	0.0
10-Sep-14	Sunny	Moderate	07:28				28.3 28.6		8.1 8.1		25.8 25.2		78.9 80.5		5.3 5.4		5.5	11.2 14.1			11.2 16.4		
10 000 11	Cuiniy	moderate	07.20		Surface	1.0	28.6	28.6	8.1 8.1	8.1	25.3 26.5	25.2	77.3 76.6	78.9	5.2	5.3	5.4	14.6	14.4		15.8	16.1	
				10.3	Middle	5.2	28.2	28.2	8.1	8.1	26.8	26.7	83.8	80.2	5.6	5.4		16.7	16.8	16.4	15.3	14.8	16.4
					Bottom	9.3	28.2 28.2	28.2	8.1 8.1	8.1	26.7 26.9	26.8	75.9 79.6	77.8	5.1 5.4	5.2	5.2	17.7 18.5	18.1		18.7 18.1	18.4	
12-Sep-14	Sunny	Moderate	09:03		Surface	1.0	29.1 29.0	29.1	8.0 7.9	8.0	24.2 24.5	24.3	78.2 78.9	78.6	5.4 5.4	5.4	5.4	14.6 14.7	14.7		11.1 11.1	11.1	
				10.5	Middle	5.3	28.9 28.9	28.9	8.0 7.9	7.9	25.2 25.1	25.2	76.7 78.5	77.6	5.3 5.4	5.3	5.4	14.5 14.4	14.5	14.9	11.0 11.2	11.1	11.0
					Bottom	9.5	28.9 28.9	28.9	7.7 7.9	7.8	25.2 25.2	25.2	83.3 77.5	80.4	5.7 5.3	5.5	5.5	15.4 15.6	15.5		11.0 10.6	10.8	
15-Sep-14	Sunny	Rough	11:54		Surface	1.0	28.9	28.9	8.0	8.0	26.1	26.0	78.0	77.2	5.7	5.6		4.4	4.5		3.4	3.4	
				10.6	Middle	5.3	28.9	29.2	8.0	8.0	26.0 24.8	24.9	76.3 77.2	77.2	5.6 5.7	5.7	5.7	4.6	4.7	4.6	4.1	4.2	3.9
					Bottom	9.6	29.1 28.9	28.9	8.0 8.0	8.0	24.9 26.1	26.0	77.1 76.2	76.0	5.6 5.6	5.5	5.5	4.6 4.7	4.5		4.3	4.1	
17-Sep-14	Cloudy	Moderate	19:58	<u> </u>	Surface	1.0	28.9 28.5	28.5	8.0 8.1	8.1	26.0 23.7	23.8	75.8 89.1	89.0	5.5 6.1	6.0		4.2 3.2	3.3		4.1	4.3	
							28.5 28.4		8.1 8.1		23.9 25.2		88.8 87.5		6.0 5.9		6.0	3.4			4.3 4.2		i
				11.3	Middle	5.7	28.4	28.4	8.1 8.1	8.1	25.3 26.8	25.3	87.1 87.2	87.3	5.9 5.9	5.9		4.6 5.1	4.2	4.3	4.4	4.3	4.4
					Bottom	10.3	28.1	28.1	8.1	8.1	26.9	26.9	86.8	87.0	5.8	5.9	5.9	5.5	5.3		4.7	4.6	
19-Sep-14	Sunny	Moderate	17:12		Surface	1.0	28.7 29.6	29.1	8.1 8.2	8.2	20.7 19.1	19.9	81.2 87.5	84.4	5.4 6.0	5.7	5.6	11.2 11.4	11.3		3.2 2.9	3.1	
				10.9	Middle	5.5	28.2 28.2	28.2	8.1 8.1	8.1	27.4 27.5	27.5	81.8 77.1	79.5	5.5 5.3	5.4	0.0	11.2 11.1	11.2	11.2	3.5 3.7	3.6	3.5
					Bottom	9.9	28.2 28.2	28.2	8.1 8.1	8.1	27.7 27.7	27.7	75.3 74.6	75.0	5.1 5.0	5.0	5.0	11.1 11.0	11.1		3.7	3.8	
		1		<u> </u>			20.2	<u> </u>	0.1		41.1		74.0	1	5.0	1		11.0	<u> </u>		ა.უ	1	

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Water Quality Monitoring Results at IS10 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	ŗ	ρΗ	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Т	urbidity(NT	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
22-Sep-14	Sunny	Moderate	18:17		Surface	1.0	28.1 28.0	28.1	8.3 8.3	8.3	29.6 29.7	29.7	100.5 99.7	100.1	6.7 6.6	6.6	6.6	13.5 13.7	13.6		7.2 6.9	7.1	
				10.8	Middle	5.4	28.0 28.0	28.0	8.3 8.3	8.3	30.3 30.3	30.3	99.5 97.1	98.3	6.6 6.4	6.5	0.0	13.6 13.4	13.5	13.8	8.6 8.4	8.5	8.2
					Bottom	9.8	27.9 28.0	28.0	8.3 8.3	8.3	30.4 30.2	30.3	98.3 102.9	100.6	6.5 6.8	6.7	6.7	14.1 14.5	14.3		9.2 9.0	9.1	
24-Sep-14	Fine	Moderate	19:51		Surface	1.0	28.4 28.3	28.4	8.2 8.2	8.2	29.1 29.2	29.2	90.5 90.4	90.5	6.0 6.0	6.0	6.0	6.9 6.8	6.9		6.5 6.6	6.6	
				11.7	Middle	5.9	28.4 28.5	28.4	8.2 8.2	8.2	28.7 28.0	28.3	90.2 90.4	90.3	6.0 6.0	6.0	0.0	6.3 6.2	6.3	6.5	7.7 7.5	7.6	7.7
					Bottom	10.7	28.3 28.3	28.3	8.2 8.2	8.2	29.1 29.0	29.0	90.6 90.2	90.4	6.0 6.0	6.0	6.0	6.3 6.1	6.2		8.8 9.0	8.9	
26-Sep-14	Sunny	Moderate	07:58		Surface	1.0	28.5 28.5	28.5	8.2 8.2	8.2	26.1 26.1	26.1	83.0 84.4	83.7	5.6 5.7	5.6	5.6	14.6 14.3	14.5		11.1 10.8	11.0	
				10.5	Middle	5.3	28.5 28.5	28.5	8.2 8.2	8.2	27.6 27.6	27.6	85.1 82.8	84.0	5.7 5.5	5.6	3.0	14.4 14.4	14.4	14.4	10.7 11.3	11.0	11.7
					Bottom	9.5	28.5 28.5	28.5	8.2 8.2	8.2	27.7 27.7	27.7	83.3 88.5	85.9	5.6 5.9	5.7	5.7	14.5 14.3	14.4		12.5 13.9	13.2	
29-Sep-14	Sunny	Moderate	10:10		Surface	1.0	29.2 29.1	29.1	8.1 8.1	8.1	24.4 24.4	24.4	78.7 79.4	79.1	5.3 5.3	5.3	5.3	10.4 10.6	10.5		7.1 7.4	7.3	
				10.8	Middle	5.4	29.0 29.0	29.0	8.1 8.1	8.1	25.6 25.7	25.7	78.1 79.7	78.9	5.2 5.3	5.3	3.3	10.3 10.4	10.4	10.4	7.9 7.7	7.8	8.5
					Bottom	9.8	29.0 29.0	29.0	8.1 8.1	8.1	25.6 25.7	25.7	78.6 82.1	80.4	5.3 5.5	5.4	5.4	10.1 10.5	10.3		10.6 10.2	10.4	
1-Oct-14	0	0	0		Surface	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	_	0.0 0.0	0.0	
				1.0	Middle	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	0.0
					Bottom	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0		0.0 0.0	0.0	

Remarks:

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

- DA: Depth-Averaged
- ** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
- *** Cancelled due to Thunderstorm Warning and safety concern.

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

Date	Weather	Sea	Sampling	Water	Sampl	ling	Tempera	ature (°C)	p	Н	Salini	y (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Т	urbidity(NTl	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
1-Sep-14	Sunny	Moderate	17:01		Surface	1.0	28.9 28.8	28.9	8.1 8.1	8.1	20.3 20.8	20.6	80.6 78.3	79.5	5.6 5.4	5.5		3.3 3.2	3.3		4.3 4.1	4.2	
				10.1	Middle	5.1	27.3 27.2	27.3	8.1 8.1	8.1	26.1 26.2	26.1	77.4 75.0	76.2	5.3 5.1	5.2	5.4	6.2 6.3	6.3	5.4	5.3 5.9	5.6	5.6
					Bottom	9.1	27.1 27.2	27.2	8.1 8.1	8.1	26.7 26.3	26.5	71.7 70.7	71.2	4.9 4.8	4.9	4.9	6.6 6.8	6.7		7.1	7.1	
3-Sep-14	Sunny	Moderate	06:46		Surface	1.0	29.0	29.0	8.1	8.1	16.2	16.2	81.8	80.0	5.8	5.6		2.2	2.2		7.0	2.6	
				9.8	-		29.0 28.6	28.5	8.1 8.1		16.2 21.8	22.1	78.1 74.5	74.8	5.5 5.1		5.4	2.1		2.8	2.9 3.0		2.9
				9.8	Middle	4.9	28.4 28.2		8.1 8.0	8.1	22.3 24.0		75.0 72.8		5.1 5.0	5.1		2.7 3.4	2.6	2.8	2.8 3.0	2.9	2.9
5 Can 44	C	Madagata	00.00		Bottom	8.8	28.1	28.2	8.0 8.2	8.0	24.2	24.1	70.9 87.6	71.9	4.9	4.9	4.9	3.5	3.5		3.3	3.2	
5-Sep-14	Sunny	Moderate	09:23		Surface	1.0	27.9 28.0	27.9	8.2	8.2	25.5 25.1	25.3	85.6	86.6	6.1 5.9	6.0	5.6	7.2 7.7	7.5		3.2	3.2	
				10.0	Middle	5.0	27.5 27.4	27.4	8.1 8.1	8.1	28.8 29.0	28.9	75.7 76.8	76.3	5.2 5.2	5.2		10.3 9.5	9.9	9.2	4.3 3.9	4.1	4.0
					Bottom	9.0	27.4 27.4	27.4	8.1 8.1	8.1	29.2 29.1	29.2	72.8 73.1	73.0	5.0 5.0	5.0	5.0	9.8 10.3	10.1		4.7 4.8	4.8	
8-Sep-14	Cloudy	Moderate	11:59		Surface	1.0	28.4 28.4	28.4	8.2 8.2	8.2	26.2 26.2	26.2	80.1 80.0	80.1	5.4 5.4	5.4		7.3 7.5	7.4		7.4 8.2	7.8	
				10.3	Middle	5.2	28.0 28.0	28.0	8.2 8.2	8.2	28.0 28.0	28.0	78.3 76.9	77.6	5.2 5.2	5.2	5.3	7.7	7.7	7.6	8.4 6.2	7.3	7.5
					Bottom	9.3	28.1	28.0	8.2	8.2	27.9	28.0	74.8	74.6	5.0	5.0	5.0	7.8 7.8	7.8		7.6	7.5	
10-Sep-14	Sunny	Moderate	13:38		Surface	1.0	28.0 29.7	29.6	8.2 8.0	8.0	28.0 23.6	23.6	74.4 83.5	83.1	5.0 5.6	5.6		8.8	9.1		7.4 5.9	5.6	
				10.4	Middle	5.2	29.6 28.7	28.7	8.0 8.1	8.1	23.7 25.5	25.6	82.7 80.4	80.8	5.5 5.4	5.4	5.5	9.3	9.7	10.6	5.3 5.0	5.9	6.0
					Bottom	9.4	28.6 28.8	28.7	8.1 8.0	8.1	25.6 25.5	25.6	81.1 81.5	82.5	5.5 5.5	5.5	5.5	9.5 12.8	13.1		6.7 5.9	6.5	0.0
12-Sep-14	Sunny	Moderate	15:03				28.7 28.9		8.1 8.0		25.6 25.9		83.5 78.0		5.6 5.3		5.5	13.4 4.3			7.0 7.1		
12 204 11	,				Surface	1.0	29.0	28.9	8.0	8.0	25.9 27.3	25.9	80.1 74.7	79.1	5.5 5.1	5.4	5.3	4.4	4.4		7.6 8.1	7.4	
				10.1	Middle	5.1	28.4	28.4	8.0	8.0	27.3	27.3	75.4	75.1	5.2	5.1		4.4	4.3	4.4	8.2	8.2	8.3
					Bottom	9.1	28.1 28.4	28.3	7.9 8.0	7.9	28.1 28.4	28.3	73.3 78.4	75.9	5.0 5.3	5.2	5.2	4.4 4.4	4.4		9.6 8.8	9.2	
15-Sep-14 ***	-	-	-		Surface	-		-		-	-	-		-		-	_	-	-		-	-	
				-	Middle	-	-	-	-	-	-	-	-	-	-	-		-	-	<u>=</u>	-	-	<u>=</u>
					Bottom	-	-	-	-	-	-	-		-	-	-	-	-	-		-	-	
17-Sep-14	Cloudy	Moderate	07:33		Surface	1.0	28.2 28.2	28.2	8.1 8.1	8.1	25.6 25.6	25.6	85.9 85.8	85.9	5.8 5.8	5.8		4.4 4.2	4.3		5.1 5.6	5.4	
				11.4	Middle	5.7	28.1	28.1	8.1	8.1	25.8	25.7	85.5	85.6	5.8	5.8	5.8	4.4	4.4	4.4	6.3	6.3	6.1
					Bottom	10.4	28.1 28.1	28.1	8.1 8.1	8.1	25.6 26.8	26.9	85.6 85.6	85.6	5.8 5.8	5.8	5.8	4.4 4.6	4.6		6.2	6.5	
19-Sep-14	Sunny	Moderate	10:15		Surface	1.0	28.1 29.2	29.2	8.1 8.2	8.2	26.9 14.9	15.0	85.6 92.5	90.4	5.8 6.5	6.4		4.5 2.7	2.7		6.3 3.7	3.6	
				40.0			29.1 28.2		8.2 8.1		15.1 27.0		88.3 78.0		6.2 5.2		5.9	2.7 4.5		4.0	3.5 4.8		4.0
				10.6	Middle	5.3	28.2 28.1	28.2	8.1 8.1	8.1	26.2 27.2	26.6	79.3 83.1	78.7	5.4 5.6	5.3		4.7 4.6	4.6	4.0	4.8 6.4	4.8	4.9
					Bottom	9.6	28.1	28.1	8.1	8.1	27.3	27.3	81.4	82.3	5.5	5.5	5.5	4.6	4.6		6.3	6.4	

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

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

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	ŗ	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Т	urbidity(NT	U)	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-Sep-14	Sunny	Moderate	12:00		Surface	1.0	27.9 27.9	27.9	8.3 8.3	8.3	30.3 30.5	30.4	91.7 88.1	89.9	6.1 5.8	6.0	5.9	11.4 11.5	11.5		11.1 11.6	11.4	
				10.6	Middle	5.3	27.9 27.9	27.9	8.3 8.3	8.3	30.7 30.8	30.7	86.5 85.0	85.8	5.7 5.6	5.7	5.5	11.4 11.4	11.4	11.5	13.1 13.2	13.2	12.7
					Bottom	9.6	27.9 27.9	27.9	8.3 8.3	8.3	30.8 30.7	30.8	92.4 89.8	91.1	6.1 5.9	6.0	6.0	11.6 11.5	11.6		13.5 13.3	13.4	
24-Sep-14	Sunny	Moderate	12:38		Surface	1.0	28.3 28.6	28.4	8.3 8.3	8.3	27.0 26.5	26.8	90.6 91.7	91.2	6.1 6.1	6.1	6.0	4.4 4.7	4.6		3.5 3.8	3.7	
				10.8	Middle	5.4	28.2 28.1	28.2	8.3 8.2	8.2	28.6 29.0	28.8	89.4 87.7	88.6	6.0 5.8	5.9	0.0	4.9 4.2	4.6	4.6	4.4 3.8	4.1	4.2
					Bottom	9.8	28.1 28.2	28.2	8.2 8.2	8.2	29.4 29.4	29.4	91.6 89.5	90.6	6.1 5.9	6.0	6.0	4.5 4.4	4.5		4.6 4.8	4.7	
26-Sep-14	Fine	Moderate	14:20		Surface	1.0	29.3 29.3	29.3	8.2 8.2	8.2	23.8 24.1	24.0	87.1 88.6	87.9	5.8 5.9	5.9	5.7	6.5 6.5	6.5		3.3 4.1	3.7	
				12.0	Middle	6.0	28.5 28.5	28.5	8.2 8.2	8.2	27.4 27.1	27.2	81.8 79.7	80.8	5.5 5.3	5.4	5.7	6.8 6.8	6.8	6.7	4.0 3.9	4.0	10.2
					Bottom	11.0	28.5 28.5	28.5	8.2 8.2	8.2	28.1 27.6	27.8	80.2 85.7	83.0	5.3 5.7	5.5	5.5	6.9 6.9	6.9		23.2 22.4	22.8	ļ
29-Sep-14	Sunny	Moderate	16:03		Surface	1.0	29.5 29.5	29.5	8.1 8.2	8.2	22.2 22.3	22.3	81.1 80.4	80.8	5.5 5.4	5.4	5.3	6.8 6.9	6.9		7.7 8.2	8.0	
				10.5	Middle	5.3	29.0 29.0	29.0	8.1 8.1	8.1	26.4 25.4	25.9	78.4 77.9	78.2	5.2 5.2	5.2	3.3	7.5 7.1	7.3	7.3	8.4 8.9	8.7	8.4
					Bottom	9.5	28.9 29.1	29.0	8.1 8.1	8.1	27.1 26.5	26.8	82.9 79.6	81.3	5.5 5.3	5.4	5.4	7.7 7.6	7.7		8.2 8.7	8.5	
1-Oct-14	0	0	0		Surface	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0		0.0 0.0	0.0	
				1.0	Middle	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	0.0
					Bottom	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0		0.0 0.0	0.0	

Remarks:

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

- DA: Depth-Averaged
- ** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
- *** Cancelled due to Thunderstorm Warning and safety concern.

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

Date	Weather	Sea	Sampling	Water	Sampl	ling	Tempera	ature (°C)	p	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ed Oxygen	(mg/L)	Т	urbidity(NTl	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
1-Sep-14	Sunny	Moderate	10:59		Surface	1.0	28.1 28.1	28.1	8.1 8.1	8.1	23.6 23.8	23.7	74.6 73.7	74.2	5.1 5.1	5.1		6.5 6.4	6.5		5.0 5.3	5.2	
				10.4	Middle	5.2	27.6 27.6	27.6	8.1 8.1	8.1	25.3 25.3	25.3	73.3 73.8	73.6	5.0 5.1	5.0	5.1	7.6 7.5	7.6	7.3	5.3 5.5	5.4	5.6
					Bottom	9.4	27.7 27.6	27.7	8.1 8.1	8.1	25.1 25.3	25.2	72.7 70.3	71.5	5.0	4.9	4.9	7.7	7.8		5.7 6.4	6.1	
3-Sep-14	Sunny	Moderate	14:46		Surface	1.0	29.4	29.5	8.2	8.2	20.1	19.9	89.5	89.1	6.1	6.1		4.6	4.8		2.5	2.6	
				10.2	Middle	5.1	29.5 28.5	28.4	8.2 8.1	8.1	19.7 22.3	22.7	88.6 81.1	78.7	6.1 5.5	5.4	5.8	5.0 5.5	5.4	5.3	2.6 2.7	2.6	2.7
				10.2			28.2 28.1	28.1	8.1 8.1	8.1	23.1 24.5	24.4	76.2 74.0		5.2 5.1		5.2	5.3 5.6		0.0	2.5 2.9		,
5-Sep-14	Sunny	Moderate	17:01		Bottom	9.2	28.0 28.1		8.1 8.1		24.3 25.7		78.8 76.4	76.4	5.4 5.2	5.2	5.2	5.9 7.1	5.8		3.1 10.3	3.0	
3-0ep-14	Odility	Moderate	17.01		Surface	1.0	28.2	28.2	8.2	8.2	25.3 26.3	25.5	76.9 76.2	76.7	5.2 5.1	5.2	5.2	6.7	6.9		10.5	10.4	
				10.1	Middle	5.1	27.9	28.0	8.1 8.1	8.1	26.6	26.4	75.1	75.7	5.1	5.1		7.8	7.9	7.9	11.2	11.5	11.2
					Bottom	9.1	28.0 27.9	27.9	8.1 8.1	8.1	26.5 26.8	26.7	73.4 72.9	73.2	5.0 4.9	4.9	4.9	9.1 8.7	8.9		11.7 11.6	11.7	
8-Sep-14	Cloudy	Moderate	18:58		Surface	1.0	28.4 28.3	28.4	8.1 8.1	8.1	25.6 25.6	25.6	78.3 77.8	78.1	5.3 5.3	5.3	5.3	10.5 10.3	10.4		14.7 12.7	13.7	
				10.2	Middle	5.1	28.2 28.2	28.2	8.1 8.1	8.1	26.4 26.4	26.4	77.7 78.2	78.0	5.3 5.3	5.3	5.5	10.6 10.2	10.4	10.4	13.4 13.3	13.4	13.5
					Bottom	9.2	28.2 28.3	28.2	8.1 8.1	8.1	26.4 26.3	26.4	78.6 77.9	78.3	5.3 5.3	5.3	5.3	10.3	10.5		14.1 12.8	13.5	
10-Sep-14	Sunny	Moderate	07:19		Surface	1.0	28.7 28.7	28.7	8.0 8.0	8.0	24.5	24.5	81.0	80.4	5.5	5.4		10.8	10.5		8.8	8.6	
				10.3	Middle	5.2	28.6	28.6	8.0	8.0	24.6 25.4	25.4	79.7 79.6	79.4	5.4	5.3	5.4	10.2	15.0	13.8	9.0	9.1	9.0
					Bottom	9.3	28.6 28.6	28.6	8.0	8.0	25.4 25.4	25.4	79.1 80.2	80.2	5.3 5.4	5.4	5.4	15.1 15.8	16.0		9.2 9.4	9.4	
12-Sep-14	Sunny	Moderate	08:54		Surface	1.0	28.6 28.8	28.9	8.0	8.0	25.4 25.4	25.0	80.2 74.4	74.8	5.4 5.1	5.1	0.4	16.2 13.6	13.6		9.4 8.7	8.9	
				40.0			29.0 28.8		8.0 8.0		24.5 25.7		75.1 73.6		5.2 5.1		5.1	13.5 13.6			9.0 8.7		
				10.3	Middle	5.2	28.8	28.8	8.0	8.0	25.7 25.8	25.7	74.0 73.8	73.8	5.1 5.1	5.1		13.8	13.7	13.7	9.8	9.3	9.7
45.0 44	0	D t	44.40		Bottom	9.3	28.8	28.8	8.0	8.0	25.8	25.8	74.8	74.3	5.1	5.1	5.1	13.6	13.7		11.2	11.0	
15-Sep-14	Sunny	Rough	11:42		Surface	1.0	28.9 28.9	28.9	8.0 8.0	8.0	23.8 25.9	24.9	79.4 78.8	79.1	5.7 5.6	5.6	5.7	4.4 4.4	4.4		3.8 4.0	3.9	
				10.5	Middle	5.3	29.2 28.9	29.0	8.1 8.0	8.0	25.1 26.1	25.6	76.0 78.3	77.2	5.7 5.7	5.7		4.8 4.3	4.6	4.5	6.9 7.6	7.3	6.7
					Bottom	9.5	29.2 28.8	29.0	8.0 8.1	8.1	25.0 26.2	25.6	77.1 76.6	76.9	5.7 5.4	5.6	5.6	4.7 4.5	4.6		8.9 8.9	8.9	
17-Sep-14	Cloudy	Moderate	20:11		Surface	1.0	28.4 28.5	28.4	8.2 8.2	8.2	25.8 25.8	25.8	93.8 94.2	94.0	6.3 6.3	6.3		4.0 3.8	3.9		5.1 5.7	5.4	
				11.3	Middle	5.7	28.4 28.3	28.4	8.2 8.2	8.2	26.5 26.7	26.6	93.9 93.9	93.9	6.3 6.3	6.3	6.3	4.9 4.7	4.8	4.5	6.2 5.8	6.0	5.8
					Bottom	10.3	28.3	28.3	8.2	8.2	27.0	26.9	93.7	93.6	6.3	6.3	6.3	5.0	4.9		5.6	6.1	
19-Sep-14	Sunny	Moderate	17:24		Surface	1.0	28.4 29.3	29.2	8.2 8.2	8.2	26.7 20.6	20.8	93.5 94.4	89.4	6.3 6.5	6.1		4.8	4.3		6.5 4.8	5.0	
				10.6	Middle	5.3	29.1 28.8	28.6	8.2 8.1	8.1	21.0 24.7	25.0	84.3 83.8	80.9	5.8 5.6	5.5	5.8	4.4	4.4	4.6	5.2 5.6	5.7	5.6
				10.0			28.4 28.4		8.1 8.1		25.4 27.3		77.9 86.0		5.3 5.7		F.C.	4.4 5.1		4.0	5.8 6.4		5.0
					Bottom	9.6	28.1	28.3	8.1	8.1	27.7	27.5	83.0	84.5	5.6	5.6	5.6	4.9	5.0		6.0	6.2	

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

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

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	ŗ	ρΗ	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	1	urbidity(NT	J)	Suspe	nded Solids	(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*
22-Sep-14	Sunny	Moderate	18:29		Surface	1.0	28.1 28.1	28.1	8.3 8.3	8.3	29.8 29.8	29.8	105.8 108.6	107.2	7.0 7.2	7.1	7.0	10.9 10.6	10.8		15.2 15.1	15.2	
				10.6	Middle	5.3	28.0 28.1	28.1	8.3 8.3	8.3	30.2 30.0	30.1	100.2 106.5	103.4	6.6 7.1	6.8	7.0	10.9 10.6	10.8	10.8	15.3 15.3	15.3	15.3
					Bottom	9.6	28.0 28.0	28.0	8.3 8.3	8.3	30.2 30.2	30.2	100.5 103.3	101.9	6.7 6.8	6.7	6.7	10.9 10.5	10.7		14.7 16.3	15.5	
24-Sep-14	Fine	Moderate	20:01		Surface	1.0	28.4 28.4	28.4	8.2 8.2	8.2	28.9 28.0	28.4	90.2 90.2	90.2	6.0 6.0	6.0	6.0	4.2 4.1	4.2		7.3 7.6	7.5	
				11.7	Middle	5.9	28.4 28.4	28.4	8.2 8.2	8.2	28.6 28.8	28.7	90.6 90.0	90.3	6.0 6.0	6.0	0.0	4.6 4.7	4.7	4.5	8.6 8.4	8.5	8.5
					Bottom	10.7	28.3 28.4	28.4	8.2 8.2	8.2	29.1 27.9	28.5	90.7 90.3	90.5	6.0 6.0	6.0	6.0	4.5 4.5	4.5		9.3 9.6	9.5	
26-Sep-14	Sunny	Moderate	07:49		Surface	1.0	28.5 28.5	28.5	8.2 8.2	8.2	26.9 27.1	27.0	82.2 82.5	82.4	5.5 5.5	5.5	5.5	13.7 13.6	13.7		7.3 7.8	7.6	
				10.8	Middle	5.4	28.5 28.5	28.5	8.2 8.2	8.2	27.3 27.3	27.3	82.0 82.3	82.2	5.5 5.5	5.5	3.3	14.5 14.5	14.5	14.2	8.6 9.2	8.9	8.6
					Bottom	9.8	28.5 28.5	28.5	8.2 8.2	8.2	27.3 27.3	27.3	82.0 82.6	82.3	5.5 5.5	5.5	5.5	14.4 14.6	14.5		8.8 9.8	9.3	ļ
29-Sep-14	Sunny	Moderate	10:00		Surface	1.0	29.1 29.0	29.0	8.1 8.1	8.1	25.3 25.4	25.4	77.7 76.8	77.3	5.2 5.1	5.2	5.2	7.6 7.7	7.7		10.1 10.0	10.1	
				10.5	Middle	5.3	28.9 28.9	28.9	8.1 8.1	8.1	26.8 26.6	26.7	76.3 76.4	76.4	5.1 5.1	5.1	3.2	8.2 8.2	8.2	8.1	11.9 11.5	11.7	11.4
					Bottom	9.5	29.0 28.9	29.0	8.1 8.1	8.1	26.8 26.9	26.9	77.6 78.2	77.9	5.2 5.2	5.2	5.2	8.4 8.2	8.3		12.8 12.0	12.4	
1-Oct-14	0	0	0		Surface	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	_	0.0 0.0	0.0	
				1.0	Middle	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	0.0
					Bottom	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0		0.0 0.0	0.0	

Remarks:

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

- DA: Depth-Averaged
- ** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
- *** Cancelled due to Thunderstorm Warning and safety concern.

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

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Т	urbidity(NT	U)	Suspe	nded Solids	(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-Sep-14	Sunny	Moderate	16:44		Surface	1.0	29.2 29.0	29.1	8.1 8.0	8.1	24.5 24.7	24.6	83.3 79.0	81.2	5.6 5.4	5.5		8.9 8.2	8.6		6.9 6.8	6.9	
				6.7	Middle	3.4	27.9 27.9	27.9	8.0 8.0	8.0	25.8 26.2	26.0	77.1 76.3	76.7	5.2 5.1	5.1	5.3	9.1 9.6	9.4	9.6	7.5 7.9	7.7	7.5
					Bottom	5.7	27.4 27.5	27.5	8.0 8.0	8.0	27.8 27.6	27.7	71.4 74.2	72.8	4.8 5.0	4.9	4.9	10.6 11.2	10.9	1	7.8 8.1	8.0	
3-Sep-14	Sunny	Moderate	07:09		Surface	1.0	29.2 29.2	29.2	8.1 8.1	8.1	21.2 21.2	21.2	81.8 83.9	82.9	5.6 5.7	5.7		8.7 9.0	8.9		3.2 3.3	3.3	
				6.3	Middle	3.2	29.0 29.0	29.0	8.0 8.0	8.0	22.3 22.2	22.3	79.0 76.0	77.5	5.4 5.2	5.3	5.5	8.8 8.6	8.7	8.8	3.1 3.1	3.1	3.0
					Bottom	5.3	28.6 29.0	28.8	8.0 8.0	8.0	24.1 24.5	24.3	74.7 82.3	78.5	5.1 5.5	5.3	5.3	8.9 8.9	8.9	1	2.5	2.6	
5-Sep-14	Sunny	Moderate	09:50		Surface	1.0	29.3 29.3	29.3	8.2 8.2	8.2	21.0 21.0	21.0	81.5 85.0	83.3	5.6 5.8	5.7		7.7 7.8	7.8		3.6 3.6	3.6	
				6.3	Middle	3.2	28.9 28.1	28.5	8.1 8.1	8.1	24.2 25.3	24.8	76.8 75.6	76.2	5.2 5.1	5.1	5.4	11.1 11.5	11.3	10.1	4.9 5.2	5.1	4.5
					Bottom	5.3	27.8 27.8	27.8	8.0 8.1	8.1	28.3 28.4	28.4	70.5 75.1	72.8	4.8 5.0	4.9	4.9	11.1	11.1	ĺ	5.0	4.9	ĺ
8-Sep-14	Cloudy	Moderate	12:32		Surface	1.0	28.9 28.6	28.7	8.2 8.1	8.2	26.1 26.4	26.2	95.4 90.0	92.7	6.1 5.7	5.9		9.2 9.0	9.1		8.7 8.1	8.4	
				7.0	Middle	3.5	28.2 28.1	28.2	8.1 8.1	8.1	27.1 26.9	27.0	86.6 93.4	90.0	5.5 6.1	5.8	5.9	9.2 9.2	9.2	9.3	8.7 8.8	8.8	8.7
					Bottom	6.0	28.2	28.2	8.1 8.1	8.1	27.4 27.8	27.6	86.4 91.5	89.0	5.5 6.0	5.7	5.7	9.6 9.6	9.6	ĺ	9.1 8.6	8.9	ĺ
10-Sep-14	Sunny	Moderate	13:27		Surface	1.0	29.8 29.8	29.8	8.0 8.1	8.1	25.0 25.1	25.1	82.4 82.6	82.5	5.5 5.5	5.5		8.7 8.6	8.7		5.8 5.3	5.6	
				6.4	Middle	3.2	29.3 29.2	29.2	8.0 8.0	8.0	25.8 25.9	25.9	79.1 78.8	79.0	5.3 5.3	5.3	5.4	8.5 8.6	8.6	8.7	5.3 6.1	5.7	6.2
					Bottom	5.4	29.4 28.9	29.1	8.0 8.0	8.0	25.7 26.2	25.9	81.8 82.4	82.1	5.5 5.5	5.5	5.5	8.8 8.5	8.7	ĺ	6.7 8.0	7.4	
12-Sep-14	Sunny	Moderate	14:36		Surface	1.0	29.6 29.6	29.6	8.0 8.0	8.0	25.0 25.1	25.0	83.3 81.6	82.5	5.5 5.4	5.5		10.7 10.5	10.6		7.1 7.5	7.3	
				6.7	Middle	3.4	29.3 29.5	29.4	8.0 8.0	8.0	25.4 25.2	25.3	78.0 78.4	78.2	5.2 5.2	5.2	5.4	11.6 11.3	11.5	11.8	10.1 11.2	10.7	10.1
					Bottom	5.7	29.2 29.0	29.1	8.0 8.0	8.0	26.6 26.8	26.7	79.3 81.6	80.5	5.3 5.4	5.3	5.3	13.2 13.3	13.3	1	12.0 12.5	12.3	
15-Sep-14 ***	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	-		-		-		-	-	-	-	-	-	-	-	=	-	-	=
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-	ĺ	-	-	ĺ
17-Sep-14	Cloudy	Moderate	07:31		Surface	1.0	28.1 28.1	28.1	8.1 8.1	8.1	26.4 26.3	26.3	90.9 91.6	91.3	6.1 6.2	6.2	6.1	5.2 5.2	5.2		6.7 6.8	6.8	
				6.3	Middle	3.2	28.2 28.1	28.2	8.1 8.1	8.1	26.6 26.4	26.5	89.5 89.2	89.4	6.0 6.0	6.0	6.1	5.3 5.3	5.3	5.3	7.0 7.0	7.0	6.9
					Bottom	5.3	28.2 28.2	28.2	8.1 8.1	8.1	27.9 27.9	27.9	91.6 91.8	91.7	6.1 6.1	6.1	6.1	5.5 5.5	5.5		7.3 6.3	6.8	<u> </u>
19-Sep-14	Sunny	Moderate	10:08		Surface	1.0	29.6 29.6	29.6	8.1 8.1	8.1	21.8 21.6	21.7	94.0 94.4	94.2	6.4 6.4	6.4	6.2	4.4 4.1	4.3		3.3 2.6	3.0	
				6.7	Middle	3.4	29.4 29.2	29.3	8.1 8.0	8.1	22.0 22.3	22.2	89.2 86.2	87.7	6.0 5.8	5.9	0.2	4.9 5.2	5.1	5.0	3.8 4.2	4.0	3.7
					Bottom	5.7	29.1 29.4	29.2	8.0 8.0	8.0	26.6 26.4	26.5	88.0 93.1	90.6	5.8 6.2	6.0	6.0	5.5 5.7	5.6		4.1 3.8	4.0	

DA: Depth-Averaged

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

^{***} Cancelled due to Thunderstorm Warning and safety concern.

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

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	ı	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	1	Turbidity(NTL	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
22-Sep-14	Sunny	Moderate	12:02		Surface	1.0	28.7 28.6	28.7	8.2 8.2	8.2	29.1 29.4	29.2	86.1 89.3	87.7	5.9 6.0	5.9	6.0	7.2 7.2	7.2		5.9 6.8	6.4	
				6.2	Middle	3.1	28.5 28.5	28.5	8.2 8.2	8.2	29.8 30.2	30.0	83.7 86.9	85.3	5.9 6.1	6.0	0.0	7.5 7.4	7.5	7.4	7.8 7.0	7.4	7.3
					Bottom	5.2	28.5 28.5	28.5	8.2 8.2	8.2	30.8 30.5	30.7	82.9 87.3	85.1	5.8 6.1	5.9	5.9	7.5 7.3	7.4		7.6 8.8	8.2	
24-Sep-14	Sunny	Moderate	13:29		Surface	1.0	29.2 29.3	29.3	7.2 7.2	7.2	28.6 28.6	28.6	101.7 103.0	102.4	6.7 6.7	6.7	6.6	9.3 9.0	9.2		6.7 7.0	6.9	
				6.4	Middle	3.2	29.0 29.1	29.1	7.2 7.2	7.2	28.8 28.7	28.8	97.1 98.3	97.7	6.4 6.4	6.4	0.0	12.3 12.2	12.3	11.3	8.1 7.6	7.9	8.3
					Bottom	5.4	28.7 28.7	28.7	7.2 7.2	7.2	29.1 29.1	29.1	97.4 96.8	97.1	6.4 6.4	6.4	6.4	12.5 12.5	12.5		9.9 10.0	10.0	
26-Sep-14	Fine	Moderate	13:51		Surface	1.0	29.5 30.1	29.8	7.6 7.5	7.6	27.8 27.2	27.5	85.3 92.4	88.9	5.6 6.0	5.8	5.8	8.4 8.5	8.5		4.3 4.5	4.4	
				7.1	Middle	3.6	29.0 29.0	29.0	7.5 7.5	7.5	28.7 28.8	28.7	89.3 84.9	87.1	5.9 5.6	5.7	5.0	8.9 8.7	8.8	8.8	4.8 4.3	4.6	4.7
					Bottom	6.1	29.0 29.0	29.0	7.4 7.5	7.4	28.9 28.9	28.9	84.3 82.2	83.3	5.5 5.4	5.5	5.5	9.0 9.2	9.1		5.1 5.3	5.2	
29-Sep-14	Sunny	Moderate	15:31		Surface	1.0	29.8 29.8	29.8	7.5 7.5	7.5	25.3 25.5	25.4	80.0 80.4	80.2	5.3 5.3	5.3	5.2	8.6 8.0	8.3		9.2 9.3	9.3	
				6.6	Middle	3.3	29.6 29.6	29.6	7.5 7.4	7.5	26.4 26.4	26.4	77.8 77.9	77.9	5.1 5.1	5.1	5.2	7.8 7.3	7.6	8.2	9.9 10.2	10.1	10.0
					Bottom	5.6	29.4 29.6	29.5	7.3 7.5	7.4	27.5 27.4	27.4	80.3 79.8	80.1	5.3 5.2	5.2	5.2	8.5 8.9	8.7		10.0 11.1	10.6	
1-Oct-14	0	0	0		Surface	0.0	0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	
				1.0	Middle	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	0.0
					Bottom	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0		0.0 0.0	0.0	

Remarks:

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

- DA: Depth-Averaged
- ** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
- *** Cancelled due to Thunderstorm Warning and safety concern.

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

Date	Weather	Sea	Sampling	Water	Sampl	ling	Tempera	ature (°C)	ŗ	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*
1-Sep-14	Sunny	Moderate	11:23		Surface	1.0	28.4 28.5	28.4	8.0 8.0	8.0	23.3 23.2	23.3	85.6 84.2	84.9	5.9 5.8	5.8		5.9 5.9	5.9		2.4 2.8	2.6	
				6.6	Middle	3.3	28.0 28.1	28.1	8.0 8.0	8.0	24.0 23.9	24.0	78.9 82.8	80.9	5.4 5.7	5.5	5.7	8.0 7.2	7.6	7.0	3.3 3.7	3.5	4.1
					Bottom	5.6	27.8 27.9	27.8	7.9 7.9	7.9	25.2 24.9	25.1	79.8 86.2	83.0	5.5 5.9	5.7	5.7	7.7	7.5		6.4 5.7	6.1	
3-Sep-14	Sunny	Moderate	14:49		Surface	1.0	29.8	29.7	8.2	8.2	20.2	20.2	98.8	95.9	6.7	6.5		5.7	5.8		3.8	3.4	
				6.3	Middle	3.2	29.7 29.3	29.2	8.2 8.1	8.1	20.3 22.8	22.9	93.0 81.7	86.6	6.3 5.5	5.8	6.2	5.8 5.9	5.9	5.8	2.9 3.6	3.8	3.8
				0.0	Bottom	5.3	29.1 29.1	29.0	8.1 8.1	8.0	23.0 24.2	24.3	91.4 83.2	83.4	6.1 5.6	5.6	5.6	5.8 5.8	5.8	0.0	3.9	4.3	0.0
5-Sep-14	Sunny	Moderate	16:46				28.9 29.2		8.0 8.2		24.5 23.8		83.5 82.5		5.6 5.6		5.0	5.8 7.7			4.6 6.1		
0 00p 14	Cullity	Woderate	10.40		Surface	1.0	29.3 28.6	29.3	8.2 8.1	8.2	23.8	23.8	86.7 80.0	84.6	5.8 5.4	5.7	5.7	7.8	7.8		6.9	6.5	
				6.4	Middle	3.2	28.8	28.7	8.1	8.1	24.6	24.7	85.9	83.0	5.7	5.6		7.7	7.7	7.8	6.7	6.8	7.4
					Bottom	5.4	28.6 28.5	28.6	8.1 8.1	8.1	27.1 26.1	26.6	79.3 76.5	77.9	5.3 5.2	5.3	5.3	7.8 7.8	7.8		8.5 9.1	8.8	
8-Sep-14	Cloudy	Moderate	18:18		Surface	1.0	29.0 29.1	29.0	8.2 8.2	8.2	26.3 26.2	26.2	97.8 99.2	98.5	6.3 6.3	6.3	6.1	7.3 7.4	7.4		7.5 8.1	7.8	
				6.0	Middle	3.0	28.5 28.3	28.4	8.1 8.1	8.1	26.8 27.0	26.9	94.4 92.4	93.4	6.0 5.9	5.9	0.1	7.7 7.6	7.7	7.6	7.5 7.4	7.5	7.9
					Bottom	5.0	28.8 28.3	28.5	8.2 8.1	8.2	26.7 27.2	27.0	89.2 89.1	89.2	5.7 5.7	5.7	5.7	7.7 7.8	7.8		9.1 7.5	8.3	
10-Sep-14	Sunny	Moderate	07:17		Surface	1.0	29.2 29.2	29.2	8.0 8.0	8.0	24.2 24.2	24.2	75.8 76.3	76.1	5.1 5.2	5.1		11.6 11.7	11.7		11.8 11.3	11.6	
				6.3	Middle	3.2	29.2	29.2	8.0	8.0	24.3	24.3	76.7	76.3	5.2	5.1	5.1	12.2	12.0	11.9	13.3	13.1	12.9
					Bottom	5.3	29.2 29.2	29.2	8.0 8.0	8.0	24.3 24.3	24.3	75.8 75.8	76.7	5.1 5.1	5.2	5.2	11.8 12.0	12.1		12.8 13.7	14.0	
12-Sep-14	Sunny	Moderate	08:44		Surface	1.0	29.2 29.5	29.5	8.0	8.0	24.3	23.5	77.5 86.9	87.0	5.2 5.8	5.8		12.2 11.8	11.3		14.2 9.5	9.8	
				6.6	Middle	3.3	29.5 29.5	29.5	8.0 8.0	8.0	23.5 24.0	24.0	87.0 87.0	86.4	5.8 5.8	5.8	5.8	10.8 13.2	13.0	12.6	10.0 11.9	11.6	12.5
				0.0			29.5 29.4		8.0 7.9		23.9 24.4		85.8 92.4		5.7 6.2			12.8 13.0		12.0	11.2 16.1		12.5
15-Sep-14	Sunny	Rough	11:48		Bottom	5.6	29.4 29.7	29.4	8.0	8.0	24.2 24.2	24.3	86.3 75.8	89.4	5.8 5.0	6.0	6.0	13.7 6.9	13.4		16.1 12.4	16.1	
13-бер-14	Julily	Rough	11.40		Surface	1.0	29.7	29.7	8.0 8.0	8.0	24.2	24.2	76.8	76.3	5.1 5.0	5.1	5.1	7.0	7.0		12.5	12.5	
				6.5	Middle	3.3	29.6	29.6	8.0	8.0	24.5	24.5	75.3 77.1	76.2	5.1	5.1		7.6 7.6	7.6	7.4	12.1 12.6	12.4	13.2
					Bottom	5.5	29.7 29.6	29.6	8.0 8.0	8.0	24.5 24.7	24.6	76.1 80.5	78.3	5.1 5.4	5.2	5.2	7.5 7.6	7.6		14.4 14.9	14.7	
17-Sep-14	Cloudy	Moderate	19:51		Surface	1.0	28.7 28.7	28.7	8.1 8.1	8.1	28.0 28.0	28.0	93.6 92.9	93.3	6.2 6.2	6.2		8.3 8.1	8.2		8.3 8.5	8.4	
				6.5	Middle	3.3	28.7 28.7	28.7	8.1 8.1	8.1	28.0 28.0	28.0	93.9 92.7	93.3	6.2 6.1	6.2	6.2	10.1 10.1	10.1	9.6	10.7 10.6	10.7	10.3
					Bottom	5.5	28.7 28.6	28.7	8.1 8.1	8.1	28.0 28.0	28.0	93.0 94.6	93.8	6.2 6.3	6.2	6.2	10.5 10.4	10.5		11.8 11.6	11.7	
19-Sep-14	Sunny	Moderate	16:51		Surface	1.0	29.9	29.8	8.2	8.2	20.3	20.5	104.0	102.9	7.1	7.0		8.4	8.7		3.7	3.6	
				6.6	Middle	3.3	29.8 29.3	29.4	8.1 8.1	8.1	20.8 24.5	24.4	101.7 89.7	87.7	6.9 6.0	5.9	6.5	8.9 9.1	9.4	10.2	3.5 4.1	4.2	5.1
					Bottom	5.6	29.4 29.0	29.2	8.1 8.0	8.0	24.3 26.6	26.6	85.7 86.5	88.5	5.7 5.7	5.9	5.9	9.7 12.2	12.4		7.0	7.4	
					DOLLOTTI	5.0	29.4	23.2	8.1	0.0	26.5	20.0	90.5	00.0	6.0	5.8	5.8	12.5	12.4		7.7	7.4	

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

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

Date	Weather	Sea	Sampling	Water	Samp	ling	Temper	ature (°C)	ī	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	red Oxygen	(mg/L)	1	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*
22-Sep-14	Sunny	Moderate	18:09		Surface	1.0	28.8 28.8	28.8	8.3 8.3	8.3	28.5 28.4	28.4	91.6 89.7	90.7	6.0 5.9	6.0	5.9	7.4 7.9	7.7		6.3 6.5	6.4	
				6.5	Middle	3.3	28.6 28.6	28.6	8.2 8.2	8.2	29.1 29.0	29.1	83.6 90.0	86.8	5.5 5.9	5.7	0.0	7.8 7.2	7.5	7.6	8.7 8.1	8.4	7.8
					Bottom	5.5	28.6 28.5	28.6	8.2 8.2	8.2	30.0 29.9	29.9	94.1 86.1	90.1	6.2 5.7	5.9	5.9	7.5 7.8	7.7		8.6 8.3	8.5	
24-Sep-14	Fine	Moderate	18:54		Surface	1.0	29.1 29.1	29.1	7.7 7.7	7.7	27.7 27.6	27.6	95.6 94.1	94.9	6.3 6.2	6.3	6.3	16.9 16.5	16.7		13.2 14.0	13.6	
				6.5	Middle	3.3	29.1 29.1	29.1	7.7 7.7	7.7	28.3 28.0	28.2	97.0 94.5	95.8	6.4 6.2	6.3	0.0	16.4 16.4	16.4	16.6	15.1 15.3	15.2	14.9
					Bottom	5.5	29.0 29.1	29.1	7.6 7.7	7.6	28.5 28.2	28.4	97.6 94.4	96.0	6.4 6.2	6.3	6.3	16.7 16.7	16.7		16.0 15.8	15.9	
26-Sep-14	Sunny	Moderate	07:48		Surface	1.0	29.0 29.0	29.0	7.4 7.4	7.4	25.8 25.8	25.8	84.1 94.6	89.4	5.6 6.3	6.0	5.9	9.0 9.3	9.2		9.4 9.4	9.4	
				7.0	Middle	3.5	29.0 29.0	29.0	7.4 7.4	7.4	26.2 26.2	26.2	83.5 87.3	85.4	5.6 5.8	5.7	5.9	9.3 9.3	9.3	9.5	9.5 9.9	9.7	9.8
					Bottom	6.0	29.0 29.0	29.0	7.4 7.3	7.3	26.2 26.4	26.3	83.3 85.2	84.3	5.6 5.7	5.6	5.6	9.9 9.9	9.9		9.7 10.6	10.2	
29-Sep-14	Sunny	Moderate	10:46		Surface	1.0	29.8 29.8	29.8	7.5 7.5	7.5	24.0 23.9	23.9	79.7 79.3	79.5	5.3 5.3	5.3	5.3	11.5 11.4	11.5		7.9 8.1	8.0	
				6.1	Middle	3.1	29.5 29.5	29.5	7.5 7.5	7.5	24.4 24.5	24.4	77.3 78.0	77.7	5.2 5.2	5.2	5.5	12.2 12.5	12.4	12.6	12.5 13.0	12.8	11.6
					Bottom	5.1	29.5 29.5	29.5	7.4 7.5	7.5	24.8 24.6	24.7	79.7 77.8	78.8	5.3 5.2	5.2	5.2	13.9 14.1	14.0		14.0 13.8	13.9	
1-Oct-14	0	0	0		Surface	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	_	0.0 0.0	0.0	
				1.0	Middle	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	0.0
					Bottom	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0		0.0 0.0	0.0	

Remarks:

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

- DA: Depth-Averaged
- ** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
- *** Cancelled due to Thunderstorm Warning and safety concern.

Water Quality Monitoring Results at IS5 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	ŗ	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	T	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-Sep-14	Sunny	Moderate	15:41		Surface	1.0	29.4 29.2	29.3	8.1 8.0	8.0	25.3 25.5	25.4	85.3 82.5	83.9	5.7 5.5	5.6		7.7 8.2	8.0		6.2 5.9	6.1	
				8.6	Middle	4.3	28.7 28.7	28.7	8.0	8.0	26.0	26.0	79.4	78.8	5.3 5.2	5.3	5.5	9.2 9.4	9.3	8.9	7.3	7.2	7.0
					Bottom	7.6	28.6	28.7	8.0 8.0	8.0	26.1 26.2	26.1	78.1 79.5	80.7	5.3	5.4	5.4	9.4	9.4		7.1 7.8	7.7	
3-Sep-14	Sunny	Moderate	07:57		Surface	1.0	28.7 29.6	29.7	8.0 8.1	8.1	26.0 22.0	21.9	81.9 84.0	84.0	5.5 5.7	5.7		9.4 5.5	5.6		7.5 2.7	2.8	
	·						29.7 28.6		8.1 8.1		21.8 26.9		83.9 77.4		5.7 5.2		5.5	5.6 5.5			2.8 3.8		
				8.5	Middle	4.3	28.4	28.5	8.1 8.1	8.1	27.3 28.2	27.1	77.2 76.9	77.3	5.2 5.1	5.2		5.5 5.7	5.5	5.6	3.2 4.6	3.5	3.6
					Bottom	7.5	27.9	28.0	8.1	8.1	28.3	28.2	74.7	75.8	5.0	5.1	5.1	5.9	5.8		4.1	4.4	
5-Sep-14	Sunny	Moderate	10:38		Surface	1.0	29.1 29.1	29.1	8.2 8.2	8.2	23.8 24.0	23.9	78.0 78.4	78.2	5.3 5.3	5.3	5.2	6.5 6.5	6.5		4.0 3.8	3.9]
				8.7	Middle	4.4	28.3 28.3	28.3	8.2 8.2	8.2	28.1 27.8	27.9	75.6 75.9	75.8	5.1 5.1	5.1	0.2	6.6 6.6	6.6	6.6	5.5 5.9	5.7	5.1
					Bottom	7.7	28.1 28.5	28.3	8.1 8.2	8.2	29.0 28.8	28.9	75.0 74.7	74.9	5.0 4.9	5.0	5.0	6.5 6.6	6.6		6.0 5.1	5.6	
8-Sep-14	Cloudy	Moderate	13:12		Surface	1.0	28.9 28.9	28.9	8.2 8.2	8.2	26.8 26.8	26.8	95.3 97.1	96.2	6.1 6.2	6.1		9.9 10.0	10.0		12.7 12.2	12.5	
				9.2	Middle	4.6	28.7	28.6	8.2	8.2	27.1	27.2	94.3	95.4	6.0	6.1	6.1	9.9	10.1	10.2	11.6	11.6	11.8
					Bottom	8.2	28.6 28.6	28.7	8.2 8.2	8.2	27.2 27.3	27.2	96.5 93.7	93.4	6.1	5.9	5.9	10.2 10.5	10.4		11.6 11.1	11.3	
10-Sep-14	Sunny	Moderate	12:39				28.7 29.4		8.2 8.1		27.1 26.4		93.0 79.8		5.9 5.3		0.0	10.3 22.1			11.4 24.5		
•					Surface	1.0	29.4 29.3	29.4	8.1 8.1	8.1	26.5 26.5	26.5	80.1 79.6	80.0	5.3 5.3	5.3	5.3	22.4 22.3	22.3		24.9 25.6	24.7	
				8.9	Middle	4.5	29.3 29.4	29.3	8.1 8.1	8.1	26.6 26.6	26.6	80.1 80.4	79.9	5.3 5.3	5.3		22.3 22.1	22.3	22.3	26.4 26.5	26.0	26.0
					Bottom	7.9	29.4	29.4	8.1	8.1	26.5	26.6	79.7	80.1	5.3	5.3	5.3	22.4	22.3		28.3	27.4	
12-Sep-14	Sunny	Moderate	13:37		Surface	1.0	29.6 29.6	29.6	8.0 8.0	8.0	26.2 26.2	26.2	82.6 82.9	82.8	5.5 5.5	5.5	5.5	18.5 18.6	18.6		19.9 19.4	19.7]
				8.8	Middle	4.4	29.6 29.6	29.6	8.0 8.0	8.0	26.2 26.2	26.2	82.4 82.7	82.6	5.4 5.5	5.4	0.0	18.8 19.0	18.9	18.6	22.6 22.1	22.4	21.6
					Bottom	7.8	29.6 29.6	29.6	8.0 8.0	8.0	26.2 26.2	26.2	82.8 82.6	82.7	5.5 5.5	5.5	5.5	18.0 18.8	18.4		21.9 23.5	22.7	
15-Sep-14 ***	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<u> </u>	-	-	<u> </u>
					Bottom	-	-	-	-	-	-	-	-	-	-	-	_	-	-		-	-	
17-Sep-14	Cloudy	Moderate	08:18		Surface	1.0	28.6	28.6	8.2	8.2	26.3	26.3	88.0	88.5	5.9	5.9		7.9	7.8		6.7	6.6	
				8.6	Middle	4.3	28.6 28.3	28.3	8.1 8.2	8.2	26.2 27.3	27.4	89.0 88.5	87.9	6.0 5.9	5.9	5.9	7.7 8.1	8.1	8.0	6.5 6.8	6.8	7.4
				0.0			28.3 28.2		8.2 8.2		27.5 28.7		87.3 90.9		5.8 6.0			8.1 8.2		0.0	6.8 8.7		7.4
19-Sep-14	Sunny	Moderate	11:06	<u> </u>	Bottom	7.6	28.4 29.3	28.3	8.2 8.1	8.2	28.6 21.3	28.6	88.3 84.3	89.6	5.9 5.7	6.0	6.0	8.2 9.2	8.2		8.7 5.2	8.7	
19-3ep-14	Suring	Woderate	11.06		Surface	1.0	29.2	29.3	8.2	8.1	21.4	21.3	83.5	83.9	5.7	5.7	5.6	9.5	9.4		5.3	5.3	
				8.4	Middle	4.2	28.7 28.6	28.7	8.1 8.1	8.1	27.9 28.5	28.2	82.3 82.0	82.2	5.5 5.4	5.4		12.0 11.9	12.0	10.5	6.1 6.5	6.3	6.0
					Bottom	7.4	28.8 28.8	28.8	8.1 8.0	8.1	28.7 28.0	28.4	85.0 86.8	85.9	5.6 5.7	5.7	5.7	10.6 9.6	10.1		6.0 6.8	6.4	

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Water Quality Monitoring Results at IS5 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Temper	ature (°C)	I	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	1	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-Sep-14	Sunny	Moderate	12:51		Surface	1.0	28.5 28.6	28.5	8.3 8.3	8.3	28.0 28.1	28.1	101.0 101.0	101.0	6.7 6.7	6.7	6.7	9.1 9.4	9.3		7.8 7.5	7.7	
				8.6	Middle	4.3	28.3 28.5	28.4	8.3 8.3	8.3	29.1 29.1	29.1	101.7 101.8	101.8	6.7 6.7	6.7	0.7	9.4 9.3	9.4	9.3	8.1 8.3	8.2	8.3
					Bottom	7.6	28.8 28.6	28.7	8.3 8.3	8.3	28.8 29.0	28.9	103.2 103.8	103.5	6.8 6.8	6.8	6.8	9.2 9.2	9.2		9.3 8.4	8.9	
24-Sep-14	Sunny	Moderate	14:15		Surface	1.0	28.9 28.9	28.9	7.9 7.9	7.9	27.1 27.1	27.1	91.7 92.1	91.9	6.1 6.1	6.1	6.0	12.3 12.1	12.2		14.5 14.4	14.5	
				8.5	Middle	4.3	28.7 28.7	28.7	7.7 7.7	7.7	27.7 27.7	27.7	89.0 90.2	89.6	5.9 6.0	5.9	0.0	12.2 12.2	12.2	12.3	14.4 13.5	14.0	14.1
					Bottom	7.5	28.7 28.7	28.7	7.7 7.6	7.6	27.7 28.0	27.9	91.7 89.4	90.6	6.1 5.9	6.0	6.0	12.5 12.3	12.4		13.8 13.8	13.8	
26-Sep-14	Fine	Moderate	13:07		Surface	1.0	29.1 29.1	29.1	7.6 7.6	7.6	28.6 28.6	28.6	86.0 86.3	86.2	5.6 5.7	5.7	5.7	12.4 12.3	12.4		15.3 15.5	15.4	
				9.1	Middle	4.6	29.0 29.1	29.1	7.6 7.6	7.6	28.8 28.7	28.7	85.7 85.7	85.7	5.6 5.6	5.6	5.7	12.4 12.6	12.5	12.5	16.1 16.0	16.1	16.2
					Bottom	8.1	29.0 29.0	29.0	7.6 7.6	7.6	28.8 28.8	28.8	85.5 85.7	85.6	5.6 5.6	5.6	5.6	12.5 12.6	12.6		17.4 16.6	17.0	
29-Sep-14	Sunny	Moderate	14:37		Surface	1.0	30.2 30.2	30.2	7.5 7.6	7.6	25.5 25.3	25.4	90.0 89.9	90.0	5.9 5.9	5.9	5.9	10.9 11.4	11.2		10.4 10.1	10.3	
				8.6	Middle	4.3	30.1 30.1	30.1	7.6 7.5	7.6	25.5 25.6	25.6	88.3 88.9	88.6	5.8 5.8	5.8	5.9	10.1 9.7	9.9	10.3	10.5 11.0	10.8	10.6
					Bottom	7.6	30.1 30.0	30.1	7.5 7.6	7.5	25.6 25.5	25.6	89.3 88.1	88.7	5.9 5.8	5.8	5.8	9.4 10.3	9.9		10.2 11.2	10.7	
1-Oct-14	0	0	0		Surface	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	
				1.0	Middle	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	0.0
					Bottom	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0		0.0 0.0	0.0	

Remarks:

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

- DA: Depth-Averaged
- ** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
- *** Cancelled due to Thunderstorm Warning and safety concern.

Water Quality Monitoring Results at IS5 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Sampl	ling	Tempera	ature (°C)	F	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxyger	(mg/L)	T	urbidity(NT	U)	Suspe	nded Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
1-Sep-14	Sunny	Moderate	12:23		Surface	1.0	29.1 29.0	29.1	8.1	8.1	23.8 23.8	23.8	84.1 83.2	83.7	5.7	5.6		7.3	7.2		7.8 7.5	7.7	
				8.4	Middle	4.2	28.5	28.5	8.0	8.0	24.3	24.3	76.0	75.5	5.6 5.2	5.1	5.4	7.1	8.1	7.9	8.7	8.9	8.8
					Bottom	7.4	28.5 28.4	28.4	8.0	8.0	24.4 24.7	24.7	74.9 77.1	76.8	5.1 5.2	5.2	5.2	8.4 8.3	8.4		9.1	9.9	1 '
0.000.44	0	Mar Investor	10.11				28.4		8.0		24.7		76.4		5.2			8.5			9.7	***	
3-Sep-14	Sunny	Moderate	13:11		Surface	1.0	30.4 30.3	30.3	8.2 8.2	8.2	22.7 22.9	22.8	97.1 95.7	96.4	6.4 6.4	6.4	5.9	6.6 6.5	6.6		3.1 3.4	3.3	
				8.5	Middle	4.3	28.9 28.6	28.8	8.1 8.1	8.1	25.8 25.4	25.6	82.1 81.3	81.7	5.5 5.4	5.4	• • •	6.6 6.6	6.6	6.7	3.2 3.2	3.2	3.8
					Bottom	7.5	28.5 28.4	28.5	8.1 8.1	8.1	27.9 28.2	28.1	75.2 74.9	75.1	5.0 5.0	5.0	5.0	6.8 6.8	6.8		4.7 5.1	4.9	
5-Sep-14	Sunny	Moderate	16:01		Surface	1.0	30.4 30.5	30.4	8.4 8.4	8.4	22.1 21.9	22.0	103.5 100.4	102.0	6.9 6.7	6.8		8.5 8.4	8.5		7.6 7.3	7.5	
				8.3	Middle	4.2	29.0 29.0	29.0	8.2 8.2	8.2	25.9 25.6	25.7	77.6 75.6	76.6	5.2 5.1	5.1	6.0	8.7 8.7	8.7	8.6	7.7 8.2	8.0	7.9
					Bottom	7.3	28.5	28.4	8.2	8.2	27.7	27.9	70.5	73.1	4.7	4.9	4.9	8.6	8.7		8.7	8.2	. '
8-Sep-14	Cloudy	Moderate	17:34		Surface	1.0	28.4 29.2	29.1	8.2 8.2	8.2	28.2 26.2	26.4	75.6 96.6	96.6	5.0 6.1	6.1		8.7 9.6	9.6		7.7 10.5	10.3	
	•					-	28.9 28.8		8.2 8.2		26.6 26.8		96.6 93.4		6.1 5.9		6.0	9.6 9.6			10.1 9.8		ļ '
				9.2	Middle	4.6	28.8	28.8	8.2 8.2	8.2	26.9 26.8	26.9	93.1	93.3	5.9 5.8	5.9		9.6 9.9	9.6	9.7	9.2	9.5	10.3
					Bottom	8.2	28.8	28.9	8.2	8.2	27.0	26.9	92.9	92.4	5.9	5.9	5.9	9.7	9.8		10.2	11.0	
10-Sep-14	Sunny	Moderate	08:02		Surface	1.0	29.3 29.3	29.3	8.0 8.0	8.0	25.5 25.5	25.5	81.8 83.1	82.5	5.5 5.6	5.5	5.5	9.5 9.5	9.5		14.8 14.4	14.6	
				8.5	Middle	4.3	29.3 29.3	29.3	8.0 8.0	8.0	25.5 25.5	25.5	83.3 82.0	82.7	5.6 5.5	5.5	5.5	9.7 9.6	9.7	9.5	13.8 14.4	14.1	14.5
					Bottom	7.5	29.3 29.3	29.3	8.0 8.0	8.0	25.5 25.5	25.5	85.3 82.5	83.9	5.7 5.5	5.6	5.6	9.2 9.4	9.3		14.5 14.9	14.7	
12-Sep-14	Sunny	Moderate	09:42		Surface	1.0	29.6	29.6	8.1	8.1	24.7	24.7	86.1	86.1	5.7	5.7		12.6	13.2		16.2	16.5	
				8.7	Middle	4.4	29.6 29.6	29.6	8.1 8.1	8.1	24.7 24.8	24.7	86.0 86.0	85.8	5.7 5.7	5.7	5.7	13.7 13.2	12.9	13.1	16.8 19.4	19.7	18.9
				0.7			29.6 29.6		8.1 8.1		24.7 24.8		85.6 87.5		5.7 5.8		5.8	12.6 13.5		10.1	20.0		10.5
					Bottom	7.7	29.6	29.6	8.1	8.1	24.8	24.8	85.9	86.7	5.7	5.8	5.8	13.0	13.3		20.0	20.4	<u> </u>
15-Sep-14	Sunny	Rough	12:36		Surface	1.0	30.1 30.3	30.2	8.1 8.1	8.1	24.6 24.6	24.6	82.1 84.0	83.1	5.4 5.5	5.5	5.4	7.4 7.6	7.5		12.8 12.8	12.8	
				8.5	Middle	4.3	30.1 30.0	30.0	8.1 8.1	8.1	24.7 24.8	24.8	80.5 79.3	79.9	5.3 5.2	5.3	3.4	7.4 7.5	7.5	7.5	12.8 12.9	12.9	12.9
					Bottom	7.5	29.9 29.9	29.9	8.1 8.1	8.1	25.0 25.1	25.0	80.9 79.6	80.3	5.3 5.3	5.3	5.3	7.4 7.5	7.5		13.0 12.9	13.0	
17-Sep-14	Cloudy	Moderate	19:10		Surface	1.0	28.6	28.6	8.2	8.2	27.1 27.2	27.2	90.6	89.9	6.0 5.9	6.0		7.5	7.5		8.4	8.3	
				8.5	Middle	4.3	28.6 28.4	28.4	8.2 8.2	8.2	29.0	29.0	89.2 86.2	87.9	5.7	5.8	5.9	7.5 7.8	7.8	7.7	8.2 8.8	8.8	8.9
					Bottom	7.5	28.3 28.4	28.3	8.2 8.2	8.2	28.9 30.8	30.9	89.5 86.3	85.4	5.9 5.7	5.7	5.7	7.7 7.6	7.7		9.8	9.5	
19-Sep-14	Sunny	Moderate	15:59				28.3 30.2		8.2 8.1		31.0 24.1		84.4 103.7		5.6 6.8		5.1	7.7 6.4			9.2 3.4		
10p					Surface	1.0	30.1 29.7	30.2	8.1 8.1	8.1	24.1	24.1	101.0 97.6	102.4	6.7 6.4	6.8	6.7	6.5	6.5		3.3	3.4	-
				8.6	Middle	4.3	29.9	29.8	8.1	8.1	24.5	25.2	100.5	99.1	6.7	6.5		7.8	8.0	7.7	3.6	3.6	3.7
					Bottom	7.6	29.7 29.7	29.7	8.1 8.1	8.1	25.7 26.1	25.9	100.2 99.6	99.9	6.6 6.6	6.6	6.6	8.8 8.1	8.5		4.0 3.9	4.0	

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Water Quality Monitoring Results at IS5 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	ţ	ЭΗ	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	1	urbidity(NTl	J)	Susper	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-Sep-14	Sunny	Moderate	17:18		Surface	1.0	28.9 28.9	28.9	8.3 8.2	8.3	28.6 28.6	28.6	95.1 95.6	95.4	6.3 6.3	6.3	6.3	9.7 9.4	9.6		8.2 7.7	8.0	
				8.8	Middle	4.4	28.8 28.8	28.8	8.2 8.2	8.2	28.9 28.9	28.9	95.2 94.4	94.8	6.3 6.2	6.2	0.0	9.1 9.9	9.5	9.6	7.6 7.8	7.7	7.9
					Bottom	7.8	28.9 28.9	28.9	8.2 8.2	8.2	28.8 29.0	28.9	95.6 98.5	97.1	6.3 6.5	6.4	6.4	9.9 9.6	9.8		7.9 7.9	7.9	
24-Sep-14	Fine	Moderate	18:09		Surface	1.0	29.0 29.0	29.0	7.7 7.7	7.7	28.9 28.9	28.9	97.9 98.4	98.2	6.4 6.5	6.4	6.4	11.6 11.4	11.5		13.2 13.2	13.2	
				8.6	Middle	4.3	28.9 28.9	28.9	7.6 7.6	7.6	29.1 29.2	29.2	97.9 97.5	97.7	6.4 6.4	6.4	0.4	11.2 11.5	11.4	11.4	14.1 14.1	14.1	13.9
					Bottom	7.6	29.0 28.9	28.9	7.6 7.5	7.6	29.2 29.3	29.2	98.1 99.1	98.6	6.4 6.5	6.5	6.5	11.2 11.2	11.2		14.3 14.6	14.5	
26-Sep-14	Sunny	Moderate	08:32		Surface	1.0	28.9 28.9	28.9	7.5 7.5	7.5	26.9 26.9	26.9	89.2 95.2	92.2	5.9 6.3	6.1	6.1	13.9 13.6	13.8		14.0 13.9	14.0	
				9.2	Middle	4.6	28.9 28.9	28.9	7.4 7.5	7.5	26.9 27.0	26.9	92.3 88.7	90.5	6.1 5.9	6.0	0.1	13.9 14.0	14.0	13.9	14.9 14.9	14.9	15.3
					Bottom	8.2	28.9 28.9	28.9	7.4 7.4	7.4	27.0 26.9	27.0	88.5 89.8	89.2	5.9 6.0	5.9	5.9	14.0 13.9	14.0		16.8 16.9	16.9	
29-Sep-14	Sunny	Moderate	11:53		Surface	1.0	29.9 29.7	29.8	7.6 7.6	7.6	24.5 24.6	24.6	88.1 85.0	86.6	5.8 5.6	5.7	5.7	7.3 7.8	7.6		7.2 7.4	7.3	
				8.5	Middle	4.3	29.7 29.7	29.7	7.6 7.5	7.6	24.7 24.7	24.7	84.8 84.0	84.4	5.6 5.6	5.6	3.7	10.7 10.6	10.7	10.5	7.7 8.0	7.9	7.9
					Bottom	7.5	29.7 29.7	29.7	7.6 7.5	7.5	24.7 24.8	24.8	85.7 84.4	85.1	5.7 5.6	5.6	5.6	13.3 12.9	13.1		8.4 8.8	8.6	
1-Oct-14	0	0	0		Surface	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	_	0.0 0.0	0.0	
				1.0	Middle	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	0.0
					Bottom	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0		0.0 0.0	0.0	

Remarks:

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

- DA: Depth-Averaged
- ** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
- *** Cancelled due to Thunderstorm Warning and safety concern.

Water Quality Monitoring Results at IS7 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Temper	ature (°C)	ř.	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*
1-Sep-14	Sunny	Moderate	16:00		Surface	1.0	30.4 30.1	30.2	8.2 8.2	8.2	24.0 24.2	24.1	104.2 107.0	105.6	6.9 7.1	7.0		7.4 7.2	7.3		3.9 4.1	4.0	
				3.3	Middle	-	-	-	-	-	-	-	-	-	-	-	7.0	-	-	8.2	-	-	4.2
					Bottom	2.3	29.3 29.2	29.3	8.1 8.1	8.1	24.4 24.5	24.4	104.6 99.8	102.2	7.0 6.7	6.8	6.8	8.8 9.1	9.0		4.3 4.3	4.3	
3-Sep-14	Sunny	Moderate	07:40		Surface	1.0	29.8	29.8	8.1	8.1	21.8	21.3	87.3	88.9	5.9	6.0		8.5	8.5		2.3	2.3	
				0.0		1.0	29.7		8.1		20.8		90.4		6.1	0.0	6.0	8.4		0.0	2.3		
				3.0	Middle	-	- 29.9	-	- 8.1	-	22.2	-	89.5	-	6.0	-		- 8.6	-	8.6	2.5	-	2.4
5 Can 44	Common	Madagata	40.04		Bottom	2.0	29.8	29.9	8.0	8.1	22.6	22.4	87.2	88.4	5.8	5.9	5.9	8.8	8.7		2.5	2.5	
5-Sep-14	Sunny	Moderate	10:24		Surface	1.0	29.4 29.4	29.4	8.1 8.2	8.1	22.7 21.1	21.9	78.1 77.0	77.6	5.2 5.2	5.2	5.2	10.7	10.5		4.4 4.1	4.3	
				3.1	Middle	-	-	-	-	-	-	-	-	-	-	-		-	-	10.4	-	-	4.6
					Bottom	2.1	29.1 29.3	29.2	8.1 8.1	8.1	24.3 24.2	24.2	77.7 75.0	76.4	5.2 5.0	5.1	5.1	10.2 10.2	10.2		4.8 4.8	4.8	
8-Sep-14	Cloudy	Moderate	12:58		Surface	1.0	29.3 29.4	29.3	8.2 8.2	8.2	25.6 25.5	25.6	106.4 109.3	107.9	6.8 7.0	6.9		7.1 7.0	7.1		6.7 6.7	6.7	
				3.6	Middle	-	-	-	-	-	-	-	-	-	-	-	6.9	-	-	7.2	-	-	7.2
					Bottom	2.6	29.2 29.3	29.2	8.2 8.2	8.2	25.6 25.5	25.6	105.6 105.2	105.4	6.7 6.7	6.7	6.7	7.2	7.3		7.6 7.6	7.6	
10-Sep-14	Sunny	Moderate	12:55		Surface	1.0	29.8	29.8	8.0	8.1	25.3	25.4	86.5	86.1	5.8	5.7		6.4	6.4		5.0	5.3	
				3.3	Middle	_	29.8	_	8.1	_	25.5	_	85.6 -	_	5.7	_	5.7	6.3	_	6.5	5.6	_	5.4
					Bottom	2.3	29.7	29.6	8.1	8.1	25.7	25.9	86.2	87.7	5.7	5.8	5.8	6.5	6.5		4.7	5.5	
12-Sep-14	Sunny	Moderate	13:58		Surface	1.0	29.4 29.8	29.8	8.0 8.0	8.0	26.0 25.4	25.4	89.1 84.6	85.0	5.9 5.6	5.6	5.0	6.5	6.3		6.3	6.4	
						1.0	29.8	29.0	8.0		25.4	25.4	85.4	65.0	5.6	5.6	5.6	6.3			6.7		
				3.3	Middle	-	- 29.8	-	8.0	-	25.4	-	- 85.9	-	- 5.7	-		- 6.5	-	6.4	10.1	-	8.1
45.0 - 44.***					Bottom	2.3	29.8	29.8	8.0	8.0	25.4	25.4	84.5	85.2	5.6	5.6	5.6	6.4	6.5		9.2	9.7	
15-Sep-14 ***	-	-	-		Surface	-	-	-	-	-		-	-	-	-	-	-		-		-	-	
				-	Middle	-	-	-	-	-	-	-	-	-	-	-		-	-	=	-	-	-
					Bottom	ı	-	-	-	-		-		-		-	-	-	-		-	-	
17-Sep-14	Cloudy	Moderate	08:02		Surface	1.0	28.1 28.1	28.1	8.1 8.1	8.1	25.5 25.5	25.5	95.2 96.0	95.6	6.5 6.5	6.5	0.5	8.5 8.5	8.5		9.1 8.5	8.8	
				3.2	Middle	-	-	-	-	-	-	-	-	-	-	-	6.5	-	-	8.5	-	-	9.3
					Bottom	2.2	28.1 28.1	28.1	8.1 8.1	8.1	25.5 25.5	25.5	98.3 95.5	96.9	6.7 6.5	6.6	6.6	8.4 8.5	8.5		9.5 9.8	9.7	
19-Sep-14	Sunny	Moderate	10:48		Surface	1.0	29.5	29.6	8.1	8.1	21.9	21.9	93.0	92.8	6.3	6.3		8.1	8.1		3.0	3.6	
				3.2	Middle	_	29.6	_	8.1	_	22.0	_	92.6	-	6.3	_	6.3	8.0	_	9.0	4.1	-	4.2
				5.2	Bottom	2.2	29.6	29.6	8.0	8.0	24.0	23.9	86.9	90.4	5.8	6.0	6.0	9.6	9.8	0.0	4.5	4.7	
					DULLUITI	2.2	29.6	29.0	8.0	0.0	23.8	23.9	93.8	90.4	6.3	0.0	0.0	10.0	9.0		4.8	4.7	

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Water Quality Monitoring Results at IS7 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	F	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Т	urbidity(NTI	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-Sep-14	Sunny	Moderate	12:34		Surface	1.0	29.0 28.8	28.9	8.3 8.3	8.3	27.7 28.1	27.9	104.9 98.1	101.5	6.9 6.5	6.7	6.7	7.2 7.3	7.3		6.8 6.5	6.7	
				3.2	Middle	1		-	1 1	-	-	-		-		-	0	-	-	7.4	-	-	7.2
					Bottom	2.2	28.7 28.6	28.6	8.3 8.3	8.3	28.2 28.3	28.2	97.5 99.0	98.3	6.5 6.6	6.5	6.5	7.5 7.3	7.4		8.0 7.3	7.7	
24-Sep-14	Sunny	Moderate	14:00		Surface	1.0	29.2 29.1	29.1	7.7 7.7	7.7	28.7 28.8	28.8	114.4 111.3	112.9	7.5 7.3	7.4	7.4	6.7 6.8	6.8		8.0 8.2	8.1	
				3.1	Middle	1		-		-		-		-		-	7.4	-	-	6.9	-	-	9.0
					Bottom	2.1	28.8 29.0	28.9	7.6 7.6	7.6	28.8 28.7	28.8	112.1 114.1	113.1	7.4 7.5	7.4	7.4	7.1 6.8	7.0		9.6 9.9	9.8	
26-Sep-14	Fine	Moderate	13:20		Surface	1.0	29.6 29.7	29.6	7.6 7.6	7.6	27.5 27.5	27.5	92.0 93.1	92.6	6.0 6.1	6.1	6.1	5.3 5.1	5.2		3.0 2.6	2.8	
				3.6	Middle	-		-	1 1	-	-	-		-		-	0.1	-	-	5.3	-	-	3.2
					Bottom	2.6	29.5 29.1	29.3	7.6 7.6	7.6	28.4 28.6	28.5	91.8 92.3	92.1	6.0 6.0	6.0	6.0	5.3 5.3	5.3		3.6 3.3	3.5	
29-Sep-14	Sunny	Moderate	14:56		Surface	1.0	30.3 30.4	30.3	7.5 7.6	7.6	25.0 24.9	25.0	96.1 99.1	97.6	6.3 6.5	6.4	6.4	9.1 8.6	8.9		6.8 7.0	6.9	
				3.5	Middle	-		-	1 1	-	-	-		-		-	0.4	-	-	9.3	-	-	7.2
					Bottom	2.5	30.1 30.3	30.2	7.4 7.6	7.5	25.1 25.0	25.1	95.4 98.3	96.9	6.3 6.5	6.4	6.4	9.7 9.6	9.7		7.8 7.0	7.4	
1-Oct-14	0	0	0		Surface	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	_	0.0 0.0	0.0	
				1.0	Middle	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	0.0
					Bottom	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0		0.0 0.0	0.0	

Remarks:

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

- DA: Depth-Averaged
- ** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
- *** Cancelled due to Thunderstorm Warning and safety concern.

Water Quality Monitoring Results at IS7 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	F	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-Sep-14	Sunny	Moderate	12:04		Surface	1.0	29.4 29.2	29.3	8.1 8.0	8.1	23.7 23.6	23.6	90.7 89.8	90.3	6.1 6.1	6.1		8.3 8.9	8.6		9.6 9.3	9.5	
				3.4	Middle	-	-	-	-	-	-	-	-	-	-	-	6.1	-	-	10.5	-	-	10.0
					Bottom	2.4	29.0	29.1	8.0	8.0	23.8	23.8	89.0 88.9	89.0	6.0	6.0	6.0	12.5 12.1	12.3		10.4	10.4	
3-Sep-14	Sunny	Moderate	13:42				30.5		8.2		22.6		114.6		7.6			4.9			4.6		
0 00p 11	ou,	modorato	10.12		Surface	1.0	30.4	30.4	8.2	8.2	22.7	22.6	114.0	114.3	7.6	7.6	7.6	4.9	4.9		5.4	5.0	<u> </u>
				3.1	Middle	-	30.1	-	8.2	-	23.5	-	110.6	-	7.3	-		5.1	-	5.1	6.9	-	6.3
					Bottom	2.1	30.1	30.1	8.2	8.2	23.5	23.5	104.6	107.6	6.9	7.1	7.1	5.2	5.2		8.0	7.5	
5-Sep-14	Sunny	Moderate	16:14		Surface	1.0	29.7 29.9	29.8	8.3 8.3	8.3	22.7 22.6	22.7	98.0 96.6	97.3	6.6 6.5	6.5	6.5	8.7 8.4	8.6		9.8 9.8	9.8	ļ
				3.5	Middle	-	-	-	-	-		-		-		-	0.5	-	-	8.9	-	-	9.7
					Bottom	2.5	29.3 28.6	29.0	8.2 8.1	8.1	24.8 25.6	25.2	99.4 96.3	97.9	6.6 6.4	6.5	6.5	9.2 8.9	9.1		9.6 9.4	9.5	
8-Sep-14	Cloudy	Moderate	17:51		Surface	1.0	29.2 29.2	29.2	8.2 8.2	8.2	25.9 26.0	25.9	102.1 102.4	102.3	6.5 6.5	6.5		8.4 8.5	8.5		12.6 12.8	12.7	
				3.2	Middle	-	- 29.2	-	- 8.2	-	- 26.0	-	-	-	- 0.0	-	6.5	- 8.5	-	8.6	- 12.8	-	12.0
					Bottom	2.2	29.2	29.2	8.2	8.2	26.0	26.0	101.0	99.1	6.4	6.4	6.4	8.7	8.7		11.4	11.3	
10-Sep-14	Sunny	Moderate	07:49				29.2 29.2		8.2 8.0		26.1 25.5		97.2 82.5		6.5 5.5		0	8.6 9.2			11.2 11.1		
	,				Surface	1.0	29.2	29.2	8.0	8.0	25.5	25.5	83.9	83.2	5.6	5.6	5.6	9.6	9.4		11.3	11.2	ļ '
				3.2	Middle	-	29.2	-	- 8.0	-	25.5	-	- 86.5	-	- 5.8	-		9.6	-	9.6	12.2	-	11.4
					Bottom	2.2	29.2	29.2	8.0	8.0	25.5	25.5	83.2	84.9	5.6	5.7	5.7	9.9	9.8		11.0	11.6	
12-Sep-14	Sunny	Moderate	09:24		Surface	1.0	29.6 29.6	29.6	8.0 8.0	8.0	24.6 24.6	24.6	85.9 88.1	87.0	5.7 5.9	5.8	5.8	14.0 13.6	13.8		13.7 13.6	13.7	
				3.3	Middle	-	-	-	-	-	-	-	-	-	-	-	0.0	-	-	14.1	-	-	14.5
					Bottom	2.3	29.6 29.6	29.6	8.0 8.0	8.0	24.7 24.6	24.7	90.6 86.9	88.8	6.0 5.8	5.9	5.9	14.0 14.5	14.3		15.1 15.5	15.3	ļ
15-Sep-14	Sunny	Rough	12:19		Surface	1.0	30.2 30.2	30.2	8.1 8.1	8.1	24.7 24.8	24.8	84.8 83.9	84.4	5.6 5.5	5.6		8.5 8.7	8.6		7.2 7.7	7.5	
				3.2	Middle	-	-	-	-	-	-	-	-	-	-	-	5.6	-	-	8.6	-	-	8.3
					Bottom	2.2	30.1	30.2	8.1	8.1	24.8	24.8	85.3	84.9	5.6	5.6	5.6	8.4	8.5		9.1	9.0	. '
17-Sep-14	Cloudy	Moderate	19:22		Surface	1.0	30.2 28.5	28.5	8.1 8.2	8.2	24.8 28.0	28.0	96.8	96.6	5.6 6.4	6.4		8.6 10.0	10.2		8.8 12.0	12.1	
				3.2	Middle	1.0	28.5	-	8.2	0.2	28.0	-	96.3	-	6.4	0.7	6.4	10.3		10.3	12.1		12.6
				3.2		-	28.5		8.2		28.0		96.4		6.4	-		10.4	-	10.3	13.3	-	12.0
10 Con 14	Cunny	Modorate	16:17		Bottom	2.2	28.5	28.5	8.2	8.2	27.9	27.9	97.7	97.1	6.5	6.4	6.4	10.4	10.4	<u> </u>	12.7	13.0	
19-Sep-14	Sunny	Moderate	10:17		Surface	1.0	30.2 30.2	30.2	8.2 8.2	8.2	24.2 24.0	24.1	109.4 108.6	109.0	7.2 7.2	7.2	7.2	5.7 5.8	5.8		4.0 3.8	3.9	<u> </u>
				3.1	Middle	-	-	-	-	-	-	-	-	-	-	-		-	-	6.0	-	-	4.1
					Bottom	2.1	30.0 29.9	30.0	8.2 8.1	8.2	24.7 25.0	24.8	108.7 104.1	106.4	7.2 6.9	7.0	7.0	6.0 6.3	6.2		4.1 4.5	4.3	

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Water Quality Monitoring Results at IS7 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	ŗ	ρΗ	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Т	urbidity(NTI	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-Sep-14	Sunny	Moderate	17:39		Surface	1.0	28.8 29.0	28.9	8.3 8.3	8.3	28.3 28.1	28.2	114.7 116.3	115.5	7.6 7.7	7.6	7.6	7.8 7.3	7.6		6.4 6.7	6.6	
				3.3	Middle	ı		-		-	-	-		-		-	7.0	-	-	7.6	-	-	6.2
					Bottom	2.3	28.9 28.8	28.9	8.3 8.3	8.3	28.3 28.3	28.3	116.4 121.1	118.8	7.7 8.0	7.8	7.8	7.8 7.3	7.6		5.9 5.4	5.7	
24-Sep-14	Fine	Moderate	18:24		Surface	1.0	29.1 28.9	29.0	7.9 7.9	7.9	29.8 29.8	29.8	110.5 109.9	110.2	7.2 7.2	7.2	7.2	12.2 12.5	12.4		9.7 9.9	9.8	
				3.2	Middle	-	-	-		-	-	-		-		-	7.2	-	-	12.5	-	-	9.7
					Bottom	2.2	28.8 29.0	28.9	7.8 7.9	7.9	29.9 29.8	29.9	104.5 111.2	107.9	6.8 7.3	7.0	7.0	12.6 12.5	12.6		9.7 9.5	9.6	
26-Sep-14	Sunny	Moderate	08:18		Surface	1.0	29.0 29.0	29.0	7.5 7.5	7.5	26.9 26.9	26.9	94.9 101.9	98.4	6.3 6.8	6.5	6.5	8.9 8.8	8.9		8.9 8.2	8.6	
				3.6	Middle	i		-		-		-	1 1	-		-	0.5	-	-	8.9	-	ı	9.4
					Bottom	2.6	29.0 28.7	28.9	7.5 7.4	7.4	26.9 27.1	27.0	92.0 96.5	94.3	6.1 6.4	6.2	6.2	8.9 8.8	8.9		10.4 9.7	10.1	
29-Sep-14	Sunny	Moderate	11:31		Surface	1.0	30.1 30.1	30.1	7.5 7.6	7.6	24.5 24.5	24.5	91.6 91.6	91.6	6.0 6.0	6.0	6.0	7.5 8.0	7.8		4.5 4.7	4.6	
				3.2	Middle	•		-		-	-	-	1 1	-		-	0.0	-	-	9.4	-	-	4.7
					Bottom	2.2	29.9 30.0	30.0	7.4 7.6	7.5	24.8 24.7	24.7	91.3 91.4	91.4	6.0 6.0	6.0	6.0	10.6 11.4	11.0		4.9 4.5	4.7	
1-Oct-14	0	0	0		Surface	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0		0.0 0.0	0.0	
				1.0	Middle	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	0.0
					Bottom	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0		0.0 0.0	0.0	

Remarks:

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

- DA: Depth-Averaged
- ** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
- *** Cancelled due to Thunderstorm Warning and safety concern.

Water Quality Monitoring Results at IS8 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Temper	ature (°C)	ř.	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*
1-Sep-14	Sunny	Moderate	16:32		Surface	1.0	29.1 29.1	29.1	8.1 8.0	8.1	24.2 24.3	24.3	84.9 83.2	84.1	5.7 5.6	5.6		7.9 8.6	8.3		4.5 4.6	4.6	
				3.7	Middle	-	-	-	-	-	-	-	-	-	-	-	5.6	-	-	9.3	-	-	5.5
					Bottom	2.7	28.8 28.5	28.7	8.0 8.0	8.0	24.7 25.0	24.9	84.5 78.8	81.7	5.7 5.3	5.5	5.5	10.0 10.5	10.3		5.9 6.7	6.3	
3-Sep-14	Sunny	Moderate	07:16		Surface	1.0	29.5	29.4	8.1	8.1	21.5	21.7	88.2	86.5	6.0	5.9		13.3	13.6		3.2	3.2	
				4.0		1.0	29.4		8.1		21.9		84.8		5.7	5.9	5.9	13.9		40.7	3.2		0.5
				4.2	Middle	-	29.3	-	8.0	-	23.2	-	85.0	-	5.7	-		13.8	-	13.7	3.7	-	3.5
5 Can 44	Common	Madagata	00.57		Bottom	3.2	29.4	29.4	8.1	8.1	23.6	23.4	87.3	86.2	5.9	5.8	5.8	13.7	13.8		3.7	3.7	
5-Sep-14	Sunny	Moderate	09:57		Surface	1.0	29.6 29.4	29.5	8.2 8.2	8.2	20.5 20.6	20.6	83.1 82.0	82.6	5.7 5.6	5.6	5.6	4.7	4.7		3.8 3.6	3.7	
				4.1	Middle	-	-	-	-	-	-	-	-	-	-	-		-	-	5.2	-	-	4.6
					Bottom	3.1	28.8 28.4	28.6	8.1 8.0	8.0	24.8 25.3	25.0	82.2 82.5	82.4	5.5 5.6	5.5	5.5	5.6 5.5	5.6		5.1 5.7	5.4	
8-Sep-14	Cloudy	Moderate	12:39		Surface	1.0	29.2 29.2	29.2	8.2 8.2	8.2	25.9 25.9	25.9	99.1 101.5	100.3	6.3 6.5	6.4		8.9 8.8	8.9		7.1 6.0	6.6	
				3.4	Middle	-	-	-	-	-	-	-	-	-	-	-	6.4	-	-	9.0	-	-	6.7
					Bottom	2.4	29.0	29.1	8.2 8.2	8.2	26.0 26.0	26.0	93.9 98.5	96.2	6.3 6.3	6.3	6.3	9.1	9.1		6.4	6.8	
10-Sep-14	Sunny	Moderate	13:19		Surface	1.0	29.4	29.4	8.0	8.0	24.8	24.7	79.5	79.5	5.3	5.3		10.6	10.7		6.1	6.0	
				3.9	Middle	_	29.4	_	8.0	_	24.6	_	79.4	_	5.3 -	_	5.3	10.8	<u> </u>	10.6	5.8	_	6.1
					Bottom	2.9	29.4	29.3	8.0	8.0	25.7	25.8	79.4	79.3	5.3	5.3	5.3	10.5	10.5		5.7	6.1	"
12-Sep-14	Sunny	Moderate	14:27		Surface	1.0	29.3 29.7	29.7	8.0 8.0	8.0	25.8 24.7	24.7	79.2 83.4	83.5	5.3 5.5	5.5	0.0	10.5 8.1	8.3		6.5 6.4	6.4	
·	ĺ					1.0	29.7	29.7	8.0	-	24.7	24.7	83.6	83.5	5.5	5.5	5.5	8.5			6.4		
				3.8	Middle	-	29.7	-	8.0	-	25.0	-	83.8	-	5.6	-		- 10.5	-	9.5	6.9	-	7.0
15.0 11.00					Bottom	2.8	29.7	29.7	8.0	8.0	25.0	25.0	83.6	83.7	5.5	5.6	5.6	10.6	10.6		8.1	7.5	
15-Sep-14 ***	-	-	-		Surface	-	-	-	-	-		-	-	-		-	_	-	-		-	-	
				-	Middle	-	-	-	-	-		-		-		-		-	-	=	-	-	=
					Bottom	ı		-	-	-		-		-		-	-	-	-		-	-	
17-Sep-14	Cloudy	Moderate	07:38		Surface	1.0	28.2 28.2	28.2	8.1 8.1	8.1	25.9 25.9	25.9	91.4 91.4	91.4	6.2 6.2	6.2		4.1 4.0	4.1	<u> </u>	5.9 5.8	5.9	
				4.0	Middle	-	-	-	-	-	-	-	-	-	-	-	6.2	-	-	4.1	-	-	5.7
					Bottom	3.0	28.2 28.2	28.2	8.1	8.1	27.4 27.2	27.3	92.2 93.5	92.9	6.2 6.3	6.2	6.2	4.0	4.1		5.6 5.3	5.5	
19-Sep-14	Sunny	Moderate	10:15		Surface	1.0	29.3	29.4	8.0	8.0	22.3	22.3	88.1	88.4	6.0	6.0		4.5	4.4		3.8	3.7	
				3.8	Middle		29.4		8.0	-	22.2		88.6		6.0		6.0	4.3		4.8	3.6	-	3.9
				3.0		2.8	29.1	29.2	7.9	8.0	23.8	23.7	86.7	87.9	5.8	5.9	5.9	5.4	5.2	4.0	3.8	4.0	0.0
					Bottom	∠.ŏ	29.3	29.2	8.0	8.0	23.6	23.1	89.1	87.9	6.0	5.9	5.9	5.0	5.2		4.2	4.0	

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Water Quality Monitoring Results at IS8 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Temper	ature (°C)	I	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	1	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-Sep-14	Sunny	Moderate	12:13		Surface	1.0	28.8 28.9	28.8	8.2 8.2	8.2	28.0 28.0	28.0	89.8 89.2	89.5	6.0 5.9	5.9	5.9	5.3 5.3	5.3		4.2 4.4	4.3	
				4.0	Middle	-	-	-	-	-	-	-	-	-	-	-	0.0	-	-	5.6	-	-	4.9
					Bottom	3.0	28.7 28.6	28.7	8.2 8.1	8.2	28.6 28.9	28.8	89.7 80.8	85.3	5.9 5.7	5.8	5.8	5.9 5.7	5.8		6.0 4.9	5.5	
24-Sep-14	Sunny	Moderate	13:36		Surface	1.0	29.2 29.2	29.2	7.5 7.4	7.5	28.6 28.6	28.6	103.1 102.0	102.6	6.8 6.7	6.7	6.7	8.5 8.4	8.5		6.0 6.6	6.3	
				4.1	Middle	-	1 1	-	1 1	-	1 1	-		-		-	0.7	-	-	8.5	-	-	6.8
					Bottom	3.1	29.0 28.9	28.9	7.3 7.3	7.3	28.9 29.0	28.9	102.8 101.1	102.0	6.7 6.6	6.7	6.7	8.5 8.3	8.4		7.0 7.6	7.3	
26-Sep-14	Fine	Moderate	13:42		Surface	1.0	29.3 29.5	29.4	7.6 7.6	7.6	26.9 26.8	26.8	88.9 96.6	92.8	5.8 6.4	6.1	6.1	7.1 7.2	7.2		4.5 4.4	4.5	
				3.3	Middle	i		-		-		-		-		-	0.1	-	-	7.4	-	-	4.4
					Bottom	2.3	29.4 29.1	29.2	7.5 7.5	7.5	27.8 27.9	27.9	88.4 90.3	89.4	5.8 5.9	5.9	5.9	7.5 7.4	7.5		4.0 4.3	4.2	
29-Sep-14	Sunny	Moderate	15:23		Surface	1.0	30.4 30.5	30.4	7.6 7.7	7.7	25.0 25.0	25.0	94.3 98.0	96.2	6.2 6.4	6.3	6.3	5.4 5.7	5.6		7.2 7.4	7.3	
				4.0	Middle	-	1 1	-		-		-		-		-	0.3	-	-	5.8	-	-	7.9
					Bottom	3.0	30.5 29.9	30.2	7.7 7.6	7.6	24.9 25.1	25.0	97.1 92.2	94.7	6.4 6.1	6.2	6.2	5.7 6.0	5.9		8.5 8.2	8.4	
1-Oct-14	0	0	0		Surface	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	_	0.0 0.0	0.0	
				1.0	Middle	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	0.0
					Bottom	0.0	0.0	0.0	0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0		0.0	0.0	

Remarks:

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

- DA: Depth-Averaged
- ** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
- *** Cancelled due to Thunderstorm Warning and safety concern.

Water Quality Monitoring Results at IS8 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	ī	Н	Salini	ty (ppt)	DO Satu	ıration (%)	Dissolv	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-Sep-14	Sunny	Moderate	11:33		Surface	1.0	28.6 28.3	28.5	8.0 7.9	8.0	23.1 23.5	23.3	88.4 87.7	88.1	6.0 6.0	6.0		14.8 14.6	14.7		4.5 5.2	4.9	1
				3.9	Middle	-	-	-	-	-	-	-	-	-	-	-	6.0	-	-	15.4	-	-	5.8
					Bottom	2.9	28.3	28.3	7.9 7.9	7.9	23.7	23.7	87.9 87.9	87.9	6.0	6.0	6.0	15.3	16.1		6.9	6.6	
3-Sep-14	Sunny	Moderate	14:40				30.0		7.9 8.1		23.6 19.6		97.5		6.0			16.8 5.8			2.8		
0 00p 14	Cullity	Woderate	14.40		Surface	1.0	30.0	30.0	8.1	8.1	19.6	19.6	98.2	97.9	6.7	6.6	6.6	5.8	5.8		2.5	2.7	
				3.8	Middle	-	-	-	-	-	-	-	-	-	-	-		-	-	5.8	-	-	3.3
					Bottom	2.8	29.7 29.9	29.8	8.1 8.1	8.1	20.3 20.0	20.1	96.7 99.6	98.2	6.6 6.8	6.7	6.7	5.8 5.6	5.7		3.9 3.9	3.9	
5-Sep-14	Sunny	Moderate	16:38		Surface	1.0	29.1 29.0	29.1	8.2 8.2	8.2	24.4 24.5	24.4	83.7 83.5	83.6	5.6 5.6	5.6	5.6	24.5 24.3	24.4		26.4 26.1	26.3	
				3.9	Middle	-	-	-	-	-	-	-	-	-	-	-	5.6	-	-	24.5	-	-	27.4
					Bottom	2.9	29.0 29.0	29.0	8.1 8.2	8.1	24.7 24.6	24.7	84.0 83.6	83.8	5.6 5.6	5.6	5.6	24.4 24.5	24.5		28.5 28.5	28.5	
8-Sep-14	Cloudy	Moderate	18:11		Surface	1.0	29.2	29.2	8.2	8.2	26.1	26.1	101.9	101.6	6.5	6.5		15.9	16.0		7.2	7.6	
				3.3	Middle		29.2	-	8.2	-	26.1	_	101.2	-	6.4	-	6.5	16.0	-	16.1	7.9	-	9.2
					Bottom	2.3	29.2	29.2	8.2	8.2	26.1	26.1	100.9	100.8	6.4	6.4	6.4	16.0	16.1		11.2	10.7	
10-Sep-14	Sunny	Moderate	07:24		Surface	1.0	29.2 29.2	29.2	8.2 8.0	8.0	26.1 23.7	23.7	100.6 76.3	77.1	6.4 5.2	5.2	0	16.2 10.4	10.6		10.1 6.0	6.8	
						1.0	29.2	29.2	8.0		23.7	23.1	77.8	77.1	5.3	3.2	5.2	10.8	10.0		7.5		
				4.1	Middle	-	29.2	-	8.0	-	- 24.1	-	76.7	-	5.2	-		10.4	-	10.6	6.9	-	7.1
					Bottom	3.1	29.2	29.2	7.9	8.0	24.2	24.2	80.3	78.5	5.4	5.3	5.3	10.5	10.5		7.6	7.3	
12-Sep-14	Sunny	Moderate	08:51		Surface	1.0	29.4 29.4	29.4	8.0 8.0	8.0	23.9 23.9	23.9	82.9 81.1	82.0	5.5 5.4	5.5	5.5	14.1 13.6	13.9		14.4 14.4	14.4	
				3.7	Middle	-		-		-	-	-		-		-		-	-	14.3	-	-	15.3
					Bottom	2.7	29.4 29.4	29.4	8.0 7.9	7.9	24.0 24.1	24.1	81.7 86.5	84.1	5.5 5.8	5.6	5.6	14.5 14.7	14.6		15.9 16.3	16.1	
15-Sep-14	Sunny	Rough	11:54		Surface	1.0	29.8 29.8	29.8	8.0 8.0	8.0	24.2 24.2	24.2	78.7 77.0	77.9	5.2 5.1	5.2		20.3 20.3	20.3		6.7 6.1	6.4	
				4.0	Middle	-	-	-	-	-	-	-	-	-	-	-	5.2	-	-	20.3	-	-	7.4
					Bottom	3.0	29.8 29.8	29.8	8.0	8.0	24.5	24.6	77.7 81.5	79.6	5.2 5.4	5.3	5.3	20.1	20.2		8.6 7.9	8.3	
17-Sep-14	Cloudy	Moderate	19:44		Surface	1.0	28.5	28.5	8.0	8.2	24.6	27.7	93.5	93.5	6.2	6.2		8.4	8.4		8.7	8.5	
				4.0	Middle		28.5	-	8.2	-	27.7		93.5	-	6.2		6.2	8.3		8.4	8.3		9.3
				4.0		2.0	28.6		8.1		28.3		93.8		6.2	-		8.2	0.4	0.4	9.7	40.0	3.5
19-Sep-14	Sunny	Moderate	16:44	1	Bottom	3.0	28.5 29.9	28.6	8.2 8.1	8.2	28.1 20.1	28.2	93.9 99.6	93.9	6.2 6.8	6.2	6.2	8.5 8.3	8.4		10.2 3.9	10.0	
13-06р-14	Outnity	Moderate	10.44		Surface	1.0	29.9	29.9	8.1	8.1	20.2	20.1	99.8	99.7	6.8	6.8	6.8	7.6	8.0		3.1	3.5	
				3.6	Middle	-	-	-	-	-	-	-	-	-	-	-		-	-	8.2		-	4.4
					Bottom	2.6	29.8 29.7	29.7	8.1 8.1	8.1	21.4 21.7	21.6	99.8 99.7	99.8	6.7 6.7	6.7	6.7	8.5 8.2	8.4		5.7 4.8	5.3	

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Water Quality Monitoring Results at IS8 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Temper	ature (°C)		ρΗ	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(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-Sep-14	Sunny	Moderate	18:05		Surface	1.0	28.9 28.8	28.8	8.3 8.3	8.3	28.3 28.6	28.5	101.3 99.3	100.3	6.7 6.5	6.6	6.6	5.4 5.6	5.5		8.0 8.2	8.1	
				4.3	Middle	-	-	-	-	-	-	-	-	-	-	-	0.0	-	-	5.6	-	-	8.3
					Bottom	3.3	28.7 28.7	28.7	8.3 8.3	8.3	28.9 28.9	28.9	103.6 100.2	101.9	6.8 6.6	6.7	6.7	5.7 5.7	5.7		8.0 8.8	8.4	
24-Sep-14	Fine	Moderate	18:47		Surface	1.0	29.1 29.0	29.1	7.8 7.7	7.8	28.5 28.5	28.5	96.6 96.2	96.4	6.3 6.3	6.3	6.3	15.3 15.6	15.5		15.4 15.1	15.3	
				4.1	Middle	-	-	-	-	-	-	-	-	-	-	-	0.0	-	-	15.5	-	-	17.8
					Bottom	3.1	29.0 29.0	29.0	7.7 7.7	7.7	28.8 28.6	28.7	97.1 96.2	96.7	6.4 6.3	6.3	6.3	15.2 15.6	15.4		20.3 20.1	20.2	
26-Sep-14	Sunny	Moderate	07:55		Surface	1.0	29.0 28.9	29.0	7.4 7.4	7.4	25.5 25.4	25.5	89.8 100.9	95.4	6.0 6.8	6.4	6.4	11.1 11.0	11.1		7.6 7.7	7.7	
				3.3	Middle	i		-		-		-		-		-	0.4	-	-	11.2		-	8.6
					Bottom	2.3	29.0 28.8	28.9	7.4 7.4	7.4	25.5 25.9	25.7	87.0 92.0	89.5	5.8 6.2	6.0	6.0	11.4 11.2	11.3		8.9 9.8	9.4	
29-Sep-14	Sunny	Moderate	10:55		Surface	1.0	29.7 29.8	29.7	7.5 7.5	7.5	23.6 23.6	23.6	80.9 80.0	80.5	5.4 5.3	5.4	5.4	10.6 10.9	10.8		5.2 5.0	5.1	
				4.0	Middle	-		-		-		-		-		-	0.4	-	-	12.2		-	6.6
					Bottom	3.0	29.7 29.6	29.6	7.5 7.4	7.5	23.9 24.1	24.0	80.1 81.9	81.0	5.3 5.5	5.4	5.4	13.8 13.4	13.6		8.0 8.2	8.1	
1-Oct-14	0	0	0		Surface	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0		0.0 0.0	0.0	
				1.0	Middle	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	0.0
					Bottom	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0		0.0 0.0	0.0	

Remarks:

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

- DA: Depth-Averaged
- ** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
- *** Cancelled due to Thunderstorm Warning and safety concern.

Water Quality Monitoring Results at IS17 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	Н	Salini	y (ppt)	DO Satu	ration (%)	Dissolv	ed Oxygen	(mg/L)	Т	urbidity(NT	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
1-Sep-14	Sunny	Moderate	16:50		Surface	1.0	29.2 28.9	29.0	8.0 8.0	8.0	21.9 22.8	22.4	80.4 78.9	79.7	5.5 5.4	5.4	5.4	4.9 5.2	5.1		3.2 3.0	3.1	
				11.1	Middle	5.6	27.7 27.7	27.7	8.0 8.0	8.0	26.6 26.7	26.6	80.8 81.7	81.3	5.4 5.5	5.4	5.4	9.7 9.4	9.6	8.0	2.8 3.1	3.0	3.9
					Bottom	10.1	27.5 27.4	27.5	8.0 8.0	8.0	27.3 27.5	27.4	70.5 71.2	70.9	4.8 4.8	4.8	4.8	9.6 8.9	9.3		5.7 5.3	5.5	
3-Sep-14	Sunny	Moderate	07:04		Surface	1.0	29.3	29.3	8.0	8.0	19.9	20.0	79.1	78.7	5.4	5.4		6.2	6.2		2.1	2.5	
				10.1	Middle	5.1	29.3 28.6	28.5	8.0	8.0	20.0	24.1	78.2 75.0	74.8	5.4 5.1	5.1	5.3	6.2	6.8	6.6	2.9 3.1	3.2	3.0
					Bottom	9.1	28.5 28.0	27.8	8.0	8.0	24.2 26.0	26.2	74.6 70.5	72.4	5.1 4.8	4.9	4.9	6.8	6.9		3.2	3.4	
5-Sep-14	Sunny	Moderate	09:43		Surface	1.0	27.5 29.0	29.0	8.0 8.1	8.2	26.5 21.5	21.5	74.3 76.6	77.8	5.1 5.2	5.3		6.9	6.8		3.4 4.4	4.4	
				40.4			29.1 27.4		8.2 8.0		21.4 27.5	_	79.0 74.1		5.4 5.1		5.2	6.9 10.4	-	0.0	4.3		,,
				10.1	Middle	5.1	27.6 27.3	27.5	8.0	8.0	27.1 28.9	27.3	73.4 70.2	73.8	5.1 4.7	5.1		10.1 10.2	10.3	9.2	4.2 4.3	4.3	4.4
8-Sep-14	Cloudy	Moderate	12:26		Bottom	9.1	27.2 28.9	27.2	8.0 8.2	8.0	29.0 26.1	29.0	70.0 96.5	70.1	4.7 6.2	4.7	4.7	10.6 9.0	10.4		4.6 7.2	4.5	
0-оер-14	Cloudy	Moderate	12.20		Surface	1.0	28.8 28.0	28.8	8.2 8.1	8.2	26.3	26.2	92.3 90.8	94.4	5.9 5.9	6.0	5.8	9.2	9.1		7.3	7.3	
				11.5	Middle	5.8	28.2	28.1	8.1	8.1	27.2	27.6	80.2	85.5	5.1	5.5		9.2	9.2	9.2	5.7	6.2	6.5
					Bottom	10.5	27.8 28.3	28.1	8.1 8.1	8.1	28.5 28.0	28.2	80.2 87.8	84.0	5.1 5.8	5.4	5.4	9.4 9.4	9.4		5.5 6.2	5.9	
10-Sep-14	Sunny	Moderate	13:33		Surface	1.0	29.3 29.2	29.3	8.0 8.0	8.0	25.4 25.5	25.5	75.2 81.9	78.6	5.0 5.5	5.3	5.2	9.4 9.8	9.6		8.5 8.5	8.5	
				10.4	Middle	5.2	28.8 29.0	28.9	8.0 8.0	8.0	26.1 25.9	26.0	76.9 75.1	76.0	5.2 5.0	5.1	•	10.3 10.9	10.6	10.2	8.6 8.3	8.5	8.2
					Bottom	9.4	28.9 29.0	29.0	8.0 8.0	8.0	26.3 26.1	26.2	76.4 73.8	75.1	5.1 5.0	5.0	5.0	10.3 10.4	10.4		7.5 7.6	7.6	
12-Sep-14	Sunny	Moderate	14:41		Surface	1.0	29.6 29.7	29.6	8.0 8.1	8.0	24.9 24.7	24.8	82.8 82.7	82.8	5.5 5.5	5.5	5.4	8.6 8.5	8.6		7.3 6.8	7.1	
				11.1	Middle	5.6	29.2 29.0	29.1	8.0 8.0	8.0	26.5 26.9	26.7	75.6 80.5	78.1	5.0 5.3	5.2	5.4	14.8 15.2	15.0	12.5	7.4 7.5	7.5	7.9
					Bottom	10.1	29.0 29.0	29.0	8.0 8.0	8.0	26.9 26.9	26.9	74.4 74.6	74.5	4.9 4.9	4.9	4.9	14.4 13.5	14.0		9.1 8.8	9.0	
15-Sep-14 ***	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	_	-	-	-	-	-	-	-	-	-	-	-	-	-	_	-	-	_
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-
17-Sep-14	Cloudy	Moderate	07:25		Surface	1.0	28.5	28.4	8.1	8.1	24.9	25.1	88.3	88.2	6.0	6.0		6.3	6.3		6.7	6.7	
				10.3	Middle	5.2	28.4 28.2	28.2	8.1 8.1	8.1	25.3 27.0	27.2	88.0 86.9	86.4	6.0 5.8	5.8	5.9	6.2 6.4	6.5	6.4	6.7 8.4	8.2	7.8
				10.0	Bottom	9.3	28.2 28.2	28.3	8.1 8.1	8.1	27.4 27.9	27.7	85.8 87.9	87.7	5.8 5.9	5.9	5.9	6.5 6.3	6.4	0.4	7.9 8.7	8.6	7.5
19-Sep-14	Sunny	Moderate	10:01	<u> </u>			28.3 29.3		8.1 8.0		27.6 18.1		87.5 82.6		5.9 5.7		5.8	6.5 5.1			8.4 3.9		
12.226.1	,				Surface	1.0	29.5 28.8	29.4	8.0	8.0	18.4	18.2	86.2 82.0	84.4	5.9 5.5	5.8	5.6	5.0	5.1		3.3	3.6	
				10.7	Middle	5.4	28.8 29.1	28.8	8.0 8.0	8.0	25.6 25.5	25.6	79.2 87.4	80.6	5.3 5.8	5.4		6.4	6.5	6.2	3.8	3.8	3.7
					Bottom	9.7	29.1	28.9	7.9	8.0	25.5 25.8	25.7	87.4 81.4	84.4	5.8 5.5	5.6	5.6	7.3	7.1		3.7	3.8	1

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Water Quality Monitoring Results at IS17 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	ī	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ed Oxygen	(mg/L)	Т	urbidity(NTl	J)	Suspe	nded Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
22-Sep-14	Sunny	Moderate	11:53		Surface	1.0	28.7 28.8	28.8	8.2 8.2	8.2	29.5 29.4	29.5	84.4 86.8	85.6	5.5 5.7	5.6	5.5	8.9 8.5	8.7		6.2 7.1	6.7	
				10.1	Middle	5.1	28.7 28.6	28.6	8.2 8.2	8.2	29.9 29.9	29.9	82.8 81.5	82.2	5.4 5.4	5.4	0.0	8.8 8.8	8.8	8.7	9.7 8.4	9.1	8.9
					Bottom	9.1	28.5 28.5	28.5	8.2 8.2	8.2	31.0 31.1	31.0	84.6 84.2	84.4	5.5 5.5	5.5	5.5	8.7 8.7	8.7		10.9 10.6	10.8	
24-Sep-14	Sunny	Moderate	13:23		Surface	1.0	29.2 28.9	29.0	7.3 7.3	7.3	26.3 27.4	26.9	91.3 86.3	88.8	6.1 5.7	5.9	5.8	14.7 14.8	14.8		6.6 6.6	6.6	
				9.8	Middle	4.9	28.7 28.7	28.7	7.3 7.3	7.3	28.9 28.8	28.9	85.2 84.0	84.6	5.6 5.5	5.6	5.0	14.3 14.6	14.5	14.6	7.1 7.4	7.3	7.1
					Bottom	8.8	28.7 28.7	28.7	7.3 7.3	7.3	29.3 29.4	29.4	84.0 86.0	85.0	5.5 5.7	5.6	5.6	14.7 14.5	14.6		7.6 7.4	7.5	
26-Sep-14	Fine	Moderate	14:11		Surface	1.0	29.3 29.2	29.3	7.6 7.6	7.6	26.0 26.5	26.2	84.2 80.0	82.1	5.6 5.2	5.4	5.4	9.0 8.8	8.9		8.4 8.5	8.5	
				11.2	Middle	5.6	29.1 29.0	29.1	7.6 7.6	7.6	27.7 27.8	27.8	80.3 79.4	79.9	5.3 5.3	5.3	5.4	9.2 9.1	9.2	9.1	8.6 8.2	8.4	8.6
					Bottom	10.2	29.0 29.0	29.0	7.5 7.5	7.5	29.0 28.9	28.9	79.3 78.6	79.0	5.2 5.2	5.2	5.2	9.4 9.2	9.3		9.1 8.8	9.0	
29-Sep-14	Sunny	Moderate	15:38		Surface	1.0	30.1 30.2	30.2	7.5 7.5	7.5	24.3 22.7	23.5	79.3 80.5	79.9	5.2 5.4	5.3	5.3	13.8 13.3	13.6		6.3 6.5	6.4	
				10.7	Middle	5.4	29.4 29.4	29.4	7.4 7.5	7.5	27.1 27.5	27.3	76.3 79.8	78.1	5.0 5.3	5.2	5.5	14.8 14.7	14.8	14.7	6.4 6.7	6.6	7.2
					Bottom	9.7	29.4 29.5	29.4	7.4 7.5	7.5	27.2 27.7	27.4	79.0 76.6	77.8	5.2 5.0	5.1	5.1	15.5 15.9	15.7		8.2 9.1	8.7	
1-Oct-14	0	0	0		Surface	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	
				1.0	Middle	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	0.0
					Bottom	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0		0.0	0.0	

Remarks:

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

- DA: Depth-Averaged
- ** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
- *** Cancelled due to Thunderstorm Warning and safety concern.

Water Quality Monitoring Results at IS17 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	F	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ed Oxygen	(mg/L)	Т	urbidity(NTl	J)	Suspe	nded Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
1-Sep-14	Sunny	Moderate	11:18		Surface	1.0	28.2 28.3	28.3	8.0 7.9	7.9	23.5 23.5	23.5	79.9 82.7	81.3	5.5 5.7	5.6		5.1 4.7	4.9		3.0 3.2	3.1	
				11.3	Middle	5.7	27.7 27.7	27.7	7.9 7.9	7.9	25.6 25.4	25.5	75.1 73.4	74.3	5.1 5.0	5.1	5.4	8.8 7.9	8.4	8.1	3.2 2.6	2.9	3.7
					Bottom	10.3	27.5 27.5	27.5	7.9 7.9	7.9	26.2 26.3	26.2	75.6 73.3	74.5	5.0 5.2 5.0	5.1	5.1	10.9	11.1		5.1 5.3	5.2	
3-Sep-14	Sunny	Moderate	14:56		Surface	1.0	29.3	29.5	8.1	8.1	21.4	21.3	82.0	83.9	5.6	5.7		4.8	4.9		2.8	2.7	
							29.6 28.3		8.1 8.0		21.1 25.1		85.7 75.6		5.8 5.1		5.5	4.9 4.9			2.6 3.4		
				10.0	Middle	5.0	28.3	28.3	8.0	8.0	24.9 26.4	25.0	77.3 71.1	76.5	5.2	5.2		4.9 4.9	4.9	4.9	3.2	3.3	3.6
					Bottom	9.0	28.0	28.0	8.0	8.0	26.9	26.7	74.8	73.0	5.0	4.9	4.9	4.9	4.9		5.1	4.9	
5-Sep-14	Sunny	Moderate	16:50		Surface	1.0	29.3 29.5	29.4	8.2 8.3	8.3	23.6 22.9	23.3	84.8 89.0	86.9	5.7 6.0	5.8	5.5	7.5 7.7	7.6		8.1 8.4	8.3	
				10.0	Middle	5.0	28.0 28.1	28.0	8.1 8.1	8.1	27.5 27.5	27.5	74.9 74.5	74.7	5.1 5.1	5.1	0.0	7.6 7.6	7.6	7.6	10.8 10.1	10.5	10.0
					Bottom	9.0	27.6 27.4	27.5	8.1 8.0	8.1	28.7 29.0	28.8	70.3 71.1	70.7	4.7 4.8	4.7	4.7	7.7 7.7	7.7		11.1 11.0	11.1	
8-Sep-14	Cloudy	Moderate	18:24		Surface	1.0	29.1 29.2	29.1	8.2 8.2	8.2	26.1 26.1	26.1	95.2 98.0	96.6	6.1 6.2	6.1		6.4 6.3	6.4		5.3 5.9	5.6	
				10.3	Middle	5.2	28.7	28.6	8.2	8.2	26.3	26.4	91.6	87.9	5.9	5.6	5.9	6.4	6.5	6.6	8.4	8.2	7.2
					Bottom	9.3	28.6 28.1	28.1	8.2 8.1	8.1	26.4 27.6	27.6	84.2 82.6	85.9	5.4	5.5	5.5	6.6	6.8		7.9 8.5	7.7	
10-Sep-14	Sunny	Moderate	07:09		Surface	1.0	28.1 29.2	29.2	8.1 8.0	8.0	27.5 24.2	24.3	89.1 77.2	76.3	5.7 5.2	5.2		6.8 14.4	14.3		6.9 10.2	10.6	
				10.4		5.2	29.1 29.0	29.0	8.0 8.0	8.0	24.3 24.7	24.7	75.4 77.6	76.2	5.1 5.2	5.1	5.2	14.2 14.6	14.6	14.6	11.0 11.4	11.8	11.3
				10.4	Middle		29.0 28.9		8.0 8.0		24.6 25.6	-	74.8 83.7		5.1 5.6			14.5 15.5		14.0	12.2 11.0		11.3
10.0 11		Madage	20.00		Bottom	9.4	29.0	28.9	8.0	8.0	25.5	25.5	75.9	79.8	5.1	5.4	5.4	14.5	15.0		11.7	11.4	
12-Sep-14	Sunny	Moderate	08:38		Surface	1.0	29.5 29.5	29.5	7.9 8.0	8.0	23.8 23.7	23.7	96.3 101.6	99.0	6.4 6.8	6.6	6.1	9.7 9.2	9.5		9.1 9.0	9.1	
				11.2	Middle	5.6	29.3 29.4	29.3	8.0 7.9	7.9	25.4 25.0	25.2	81.3 87.8	84.6	5.4 5.9	5.6		12.0 11.3	11.7	10.9	10.2 10.1	10.2	10.3
					Bottom	10.2	29.4 29.3	29.3	7.8 8.0	7.9	25.0 25.4	25.2	86.1 83.9	85.0	5.8 5.6	5.7	5.7	11.2 11.8	11.5		11.4 11.7	11.6	
15-Sep-14	Sunny	Rough	11:42		Surface	1.0	29.6 29.7	29.6	8.0 8.0	8.0	24.5 24.3	24.4	84.2 86.0	85.1	5.6 5.7	5.7		5.7 5.5	5.6		2.5 2.1	2.3	
				10.4	Middle	5.2	29.2 29.3	29.3	8.0 8.0	8.0	25.0 25.2	25.1	83.0 83.0	83.0	5.5 5.5	5.5	5.6	7.2 6.9	7.1	6.6	3.3 3.2	3.3	3.0
					Bottom	9.4	29.1	29.2	8.0	8.0	26.3	26.3	84.1	84.8	5.6	5.6	5.6	7.1	7.1		3.6	3.5	1
17-Sep-14	Cloudy	Moderate	19:58		Surface	1.0	29.3 28.7	28.7	8.0 8.1	8.1	26.2 27.7	27.7	85.4 91.4	91.3	5.7 6.1	6.0		7.0 6.0	6.2		7.3	7.1	
				10.3	Middle	5.2	28.7 28.6	28.6	8.1 8.1	8.1	27.7 28.1	28.1	91.1 90.8	90.5	6.0	6.0	6.0	6.4 7.8	7.7	7.3	6.8	6.5	7.0
				10.5			28.6 28.6		8.1 8.1		28.0 28.4		90.1 87.9		6.0 5.8			7.6 8.1		1.3	6.4 7.7		7.0
10 Sop 14	Suppy	Moderate	16:59	<u> </u>	Bottom	9.3	28.4	28.5	8.1	8.1	28.7	28.6	86.8	87.4	5.8	5.8	5.8	8.0	8.1		7.1	7.4	
19-Sep-14	Sunny	Moderate	10.59		Surface	1.0	29.5 29.5	29.5	8.1 8.1	8.1	22.2 22.3	22.2	91.1 91.8	91.5	6.2 6.2	6.2	5.9	3.7	3.7		4.1	4.5]
				10.8	Middle	5.4	29.2 29.0	29.1	8.1 8.1	8.1	25.1 24.9	25.0	83.2 81.1	82.2	5.6 5.4	5.5		4.1 4.0	4.1	4.5	6.0 5.9	6.0	6.3
					Bottom	9.8	28.9 28.9	28.9	8.0 8.0	8.0	26.5 27.1	26.8	83.1 82.7	82.9	5.5 5.5	5.5	5.5	5.6 5.5	5.6		8.3 8.2	8.3	

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Water Quality Monitoring Results at IS17 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Temper	ature (°C)	I	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ed Oxygen	(mg/L)	Т	urbidity(NTl	J)	Suspe	nded Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
22-Sep-14	Sunny	Moderate	18:17		Surface	1.0	28.5 28.5	28.5	8.3 8.3	8.3	29.4 29.6	29.5	97.8 96.1	97.0	6.4 6.3	6.4	6.4	8.9 8.8	8.9		7.0 7.4	7.2	
				10.7	Middle	5.4	28.5 28.5	28.5	8.3 8.3	8.3	29.7 29.8	29.8	96.9 95.9	96.4	6.4 6.3	6.3	0.4	8.3 8.8	8.6	8.7	7.3 7.5	7.4	7.5
					Bottom	9.7	28.4 28.5	28.5	8.3 8.3	8.3	29.8 29.6	29.7	101.9 96.5	99.2	6.7 6.4	6.5	6.5	8.7 8.5	8.6		7.7 8.0	7.9	
24-Sep-14	Fine	Moderate	19:02		Surface	1.0	29.0 29.0	29.0	7.7 7.7	7.7	27.6 27.7	27.7	88.8 89.5	89.2	5.9 5.9	5.9	5.9	15.5 15.1	15.3		11.5 11.9	11.7	
				10.6	Middle	5.3	28.9 28.9	28.9	7.6 7.6	7.6	28.6 28.4	28.5	89.3 87.6	88.5	5.9 5.8	5.8	5.5	15.3 15.5	15.4	15.4	13.2 13.0	13.1	13.1
					Bottom	9.6	28.8 28.9	28.9	7.5 7.5	7.5	28.8 29.0	28.9	92.6 88.5	90.6	6.1 5.8	6.0	6.0	15.4 15.6	15.5		15.0 14.2	14.6	
26-Sep-14	Sunny	Moderate	07:41		Surface	1.0	29.0 29.0	29.0	7.4 7.4	7.4	25.6 25.3	25.4	81.2 86.2	83.7	5.4 5.7	5.5	5.5	6.6 6.8	6.7		5.2 4.9	5.1	
				11.2	Middle	5.6	29.0 29.0	29.0	7.3 7.3	7.3	26.9 27.0	26.9	83.3 80.6	82.0	5.5 5.4	5.4	5.5	7.0 6.8	6.9	7.0	6.0 6.1	6.1	6.3
					Bottom	10.2	29.0 29.0	29.0	7.3 7.3	7.3	27.1 27.0	27.1	82.6 80.5	81.6	5.5 5.3	5.4	5.4	7.2 7.3	7.3		7.9 7.7	7.8	
29-Sep-14	Sunny	Moderate	10:36		Surface	1.0	29.6 29.6	29.6	7.5 7.5	7.5	24.4 24.4	24.4	80.4 79.0	79.7	5.3 5.3	5.3	5.3	6.1 6.6	6.4		7.9 8.3	8.1	
				11.1	Middle	5.6	29.6 29.6	29.6	7.5 7.5	7.5	24.8 24.8	24.8	76.7 78.7	77.7	5.1 5.2	5.2	5.5	7.5 7.8	7.7	7.8	8.4 8.3	8.4	8.5
					Bottom	10.1	29.5 29.4	29.5	7.5 7.3	7.4	26.3 26.4	26.3	75.7 78.1	76.9	5.0 5.2	5.1	5.1	9.3 9.2	9.3		9.0 9.1	9.1	
1-Oct-14	0	0	0		Surface	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.0	0.0	_	0.0 0.0	0.0	
				1.0	Middle	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	0.0
					Bottom	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0		0.0 0.0	0.0	

Remarks:

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

- DA: Depth-Averaged
- ** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
- *** Cancelled due to Thunderstorm Warning and safety concern.

Water Quality Monitoring Results at SR3 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampl	ing	Tempera	ature (°C)		ρΗ	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-Sep-14	Sunny	Moderate	15:26		Surface			-	-	-	-	-	-	-	-	-		-	-		-	-	
				#VALUE!	Middle	0.8	29.6 29.6	29.6	7.9 8.0	8.0	24.9 25.0	25.0	97.1 97.6	97.4	6.4 6.5	6.5	6.5	6.3 6.3	6.3	6.3	5.7 6.2	6.0	6.0
					Bottom	-	ī	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
3-Sep-14	Sunny	Moderate	08:05		Surface	_	-	_	-	_	-	_	-	_	-	_		-	_		-	_	
				#VALUE!	Middle	0.7	29.6	29.7	8.1	8.1	21.8	21.7	85.7	87.5	5.8	5.9	5.9	3.3	3.4	3.4	4.6	4.6	4.6
					Bottom	-	29.7	-	8.1	-	21.7	-	89.2	-	6.0	-	-	3.4	-		4.5	-	
5-Sep-14	Sunny	Moderate	10:46		Surface		-	_	-	_	-	_	-	_	-	_		-	<u> </u>		-	_	
				#VALUE!	Middle	0.8	29.2	29.2	8.2	8.2	23.4	23.4	87.9	87.8	5.9	5.9	5.9	5.6	5.6	5.6	5.2	5.1	5.1
					Bottom	-	29.2	-	8.2	-	23.4	-	87.6	-	5.9 -	-	-	5.5	-		4.9	-	
8-Sep-14	Cloudy	Moderate	13:19		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				#VALUE!	Middle	0.8	29.0	29.0	8.2	8.2	26.7 26.7	26.7	97.4 97.6	97.5	6.2	6.2	6.2	7.6 7.6	7.6	7.6	10.8 11.7	11.3	11.3
					Bottom	-	29.0	-	8.2	-	-	-	-	-	6.2	-	-	-	-		-	-	
10-Sep-14	Sunny	Moderate	12:31		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				#VALUE!	Middle	0.8	29.4 29.4	29.4	8.1 8.1	8.1	26.6 26.5	26.5	84.2 89.6	86.9	5.6 6.0	5.8	5.8	24.8 25.0	24.9	24.9	33.1 31.4	32.3	32.3
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
12-Sep-14	Sunny	Moderate	13:21		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				#VALUE!	Middle	0.8	29.6 29.6	29.6	7.9 7.9	7.9	25.9 26.0	26.0	93.6 89.9	91.8	6.2 5.9	6.1	6.1	17.6 17.4	17.5	17.5	21.8 21.3	21.6	21.6
					Bottom	-	1 1	-	-	-	-	-		-	-	-	-	-	-		-	-	
15-Sep-14 ***	-	-	-		Surface	•		-	-	-	-	-		-	-	-	_	-	-		-	-	
				-	Middle	-		-	-	-	-	-	-	-	-	-	_	-	-	=	-	-	=
					Bottom	-		-	-	-	-	-	-	-	-	-	-	-	-		-	-	
17-Sep-14	Cloudy	Moderate	08:26		Surface	-	-	-	-	-	-	-	-	-	-	-	6.0	-	-		-	-	
				#VALUE!	Middle	8.0	28.6 28.5	28.6	8.1 8.2	8.2	26.2 26.4	26.3	89.5 89.0	89.3	6.0 6.0	6.0	0	5.8 5.9	5.9	5.9	7.3 7.9	7.6	7.6
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
19-Sep-14	Sunny	Moderate	11:18		Surface	-		-	-	-	-	-	-	-	-	-	6.1	-	-		-	-	
				#VALUE!	Middle	8.0	29.6 29.6	29.6	8.1 8.1	8.1	21.7 21.9	21.8	91.6 89.9	90.8	6.2 6.1	6.1	0.1	4.6 4.6	4.6	4.6	4.9 4.5	4.7	4.7
					Bottom	-		-	-	-	-	-	-	-	-	-	-	-	-		-	-	

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Water Quality Monitoring Results at SR3 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Temper	ature (°C)	I	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ed Oxygen	(mg/L)	1	urbidity(NT	U)	Suspe	nded Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
22-Sep-14	Sunny	Moderate	12:58		Surface	-	-	-	-	-	-	-	-	-	-	-	6.7	-	-		-	-	
				#VALUE!	Middle	0.8	28.8 28.9	28.9	8.3 8.3	8.3	28.0 27.9	27.9	100.0 103.6	101.8	6.6 6.8	6.7	0.7	8.6 8.4	8.5	8.5	8.3 8.9	8.6	8.6
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
24-Sep-14	Sunny	Moderate	14:22		Surface	-	-	-		-		-		-		-	6.3	-	-		-	-	
				#VALUE!	Middle	0.7	29.0 29.0	29.0	7.7 7.7	7.7	27.0 27.0	27.0	95.4 94.9	95.2	6.3 6.3	6.3	0.0	9.1 9.5	9.3	9.3	13.9 13.6	13.8	13.8
					Bottom	-	-	-	-	-		-	-	-	-	-	-	-	-		-	-	
26-Sep-14	Fine	Moderate	12:56		Surface	-	-	-	-	-	-	-	-	-	-	-	5.9	-	-		-	-	
				#VALUE!	Middle	0.8	29.1 29.1	29.1	7.7 7.7	7.7	28.0 27.9	27.9	88.3 89.5	88.9	5.8 5.9	5.9	5.9	12.4 12.5	12.5	12.5	13.1 13.0	13.1	13.1
					Bottom	-		-		-	-	-	-	-		-	1	-	-		-	-	
29-Sep-14	Sunny	Moderate	14:25		Surface	1		-		-	-	-	-	-	-	-	6.0	-	-		-	-	
				#VALUE!	Middle	0.8	30.2 30.2	30.2	7.4 7.4	7.4	25.6 25.6	25.6	92.4 91.3	91.9	6.0 6.0	6.0	0.0	11.7 12.1	11.9	11.9	11.1 10.4	10.8	10.8
					Bottom	-	-	-	-	-		-	-	-	-	-	-	-	-		-	-	
1-Oct-14	0	0	0		Surface	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	-	0.0 0.0	0.0	
				1.0	Middle	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	0.0
					Bottom	0.0	0.0 0.0	0.0	0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0	0.0	0.0 0.0	0.0		0.0 0.0	0.0	

Remarks:

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

- DA: Depth-Averaged
- ** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
- *** Cancelled due to Thunderstorm Warning and safety concern.

Water Quality Monitoring Results at SR3 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Sampl	ing	Tempera	ature (°C)	ţ	ρΗ	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-Sep-14	Sunny	Moderate	12:36		Surface		-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				#VALUE!	Middle	0.8	29.1 29.1	29.1	8.1 8.1	8.1	23.8 23.8	23.8	89.1 89.2	89.2	6.0 6.0	6.0	6.0	7.4 7.6	7.5	7.5	12.2 11.5	11.9	11.9
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
3-Sep-14	Sunny	Moderate	13:03		Surface	_	-	_	-	_	-	_		<u> </u>	-	_		-	<u> </u>		-	_	
				#VALUE!	Middle	0.7	30.5	30.5	8.2	8.2	22.5	22.5	110.7	110.0	7.3	7.3	7.3	3.0	3.0	3.0	5.4	5.0	5.0
					Bottom	-	30.4	-	8.2	-	22.5	-	109.3	-	7.3	-	-	3.0	-		4.6	-	
5-Sep-14	Sunny	Moderate	15:50		Surface	-	-	-	-	_	-	-	-	-	-	_		-	-		-	_	
				#VALUE!	Middle	0.7	30.5	30.5	8.4	8.4	21.9	21.9	123.6	123.8	8.2	8.2	8.2	5.7	5.7	5.7	8.4	8.0	8.0
					Bottom	-	30.6	-	8.4	-	21.9	-	123.9	-	8.2	-	-	5.7	-		7.5	-	
8-Sep-14	Cloudy	Moderate	17:28		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				#VALUE!	Middle	0.8	29.3 29.3	29.3	8.2 8.2	8.2	26.0 26.1	26.1	102.2 102.5	102.4	6.5 6.5	6.5	6.5	7.3 7.0	7.2	7.2	10.9 9.7	10.3	10.3
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-		-		-	-	
10-Sep-14	Sunny	Moderate	08:11		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				#VALUE!	Middle	0.8	29.3 29.3	29.3	8.0 8.0	8.0	25.5 25.5	25.5	81.2 81.1	81.2	5.4 5.4	5.4	5.4	9.1 9.6	9.4	9.4	14.6 13.4	14.0	14.0
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
12-Sep-14	Sunny	Moderate	09:55		Surface	-	-	-	-	=	-	-	-	-	-	-	5.7	-	-		-	-	
				#VALUE!	Middle	0.8	29.6 29.6	29.6	8.1 8.1	8.1	24.7 24.7	24.7	85.9 85.9	85.9	5.7 5.7	5.7	5.7	12.4 13.3	12.9	12.9	19.8 21.6	20.7	20.7
					Bottom	-	1 1	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
15-Sep-14	Sunny	Rough	12:43		Surface	-	-	-	-	-	-	-	-	-	-	-	5.6	-	-		-	-	
				#VALUE!	Middle	0.6	30.4 30.3	30.4	8.1 8.1	8.1	24.6 24.6	24.6	85.8 85.9	85.9	5.6 5.6	5.6	3.0	5.0 5.3	5.2	5.2	8.6 8.1	8.4	8.4
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
17-Sep-14	Cloudy	Moderate	19:01		Surface	-	-	-	-	-	-	-	-	-	-	-	6.6	-	-		-	-	
				#VALUE!	Middle	0.7	28.6 28.6	28.6	8.2 8.2	8.2	26.8 26.9	26.8	98.8 97.7	98.3	6.6 6.5	6.6	0	6.6 6.5	6.6	6.6	7.0 7.4	7.2	7.2
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
19-Sep-14	Sunny	Moderate	15:43		Surface	-	1 1	-	-	-	-	-	-	-	-	-	6.7	-	-		-	-	
				#VALUE!	Middle	8.0	30.5 30.6	30.5	7.9 7.8	7.9	23.2 23.1	23.2	104.3 99.1	101.7	6.9 6.5	6.7	0.7	3.0 2.8	2.9	2.9	4.2 3.6	3.9	3.9
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Water Quality Monitoring Results at SR3 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)		ρΗ	Salini	ity (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	1	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-Sep-14	Sunny	Moderate	17:11		Surface	-	-	-	-	-	-	-	-	-	-	-	6.9	-	-		-	-	
				#VALUE!	Middle	0.6	29.0 29.0	29.0	8.3 8.3	8.3	28.6 28.7	28.7	104.1 104.9	104.5	6.8 6.9	6.9	0.9	8.3 8.0	8.2	8.2	8.8 8.2	8.5	8.5
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
24-Sep-14	Fine	Moderate	18:00		Surface	-	-	-		-	-	-	1 1	-	-	-	6.6	-	-		-	-	
				#VALUE!	Middle	0.7	29.0 29.0	29.0	7.8 7.7	7.8	28.8 28.8	28.8	100.9 101.2	101.1	6.6 6.6	6.6	0.0	8.8 8.8	8.8	8.8	14.0 13.2	13.6	13.6
					Bottom	-	-	-	-	-	-	-		-	-	-	-	-	-		-	-	
26-Sep-14	Sunny	Moderate	08:40		Surface	-	-	-	-	-	-	-	-	-		-	5.9	-	-		-	-	
				#VALUE!	Middle	0.8	28.9 28.9	28.9	7.5 7.5	7.5	26.9 26.9	26.9	88.5 88.6	88.6	5.9 5.9	5.9	3.9	13.9 13.8	13.9	13.9	17.8 18.7	18.3	18.3
					Bottom	-	-	-		-	-	-		-	-	-	-	-	-		-	-	
29-Sep-14	Sunny	Moderate	12:03		Surface	-	-	-	-	-	-	-	-	-	-	-	6.0	-	-		-	-	
				#VALUE!	Middle	0.8	29.9 29.9	29.9	7.7 7.7	7.7	24.5 24.5	24.5	89.8 90.6	90.2	6.0 6.0	6.0	0.0	5.8 5.7	5.8	5.8	8.3 7.2	7.8	7.8
					Bottom	-	-	-		-	-	-		-	-	-	-	-	-		-	-	
1-Oct-14	0	0	0		Surface	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	-	0.0 0.0	0.0	
				1.0	Middle	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	0.0
					Bottom	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0		0.0 0.0	0.0	<u> </u>

Remarks:

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

- DA: Depth-Averaged
- ** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
- *** Cancelled due to Thunderstorm Warning and safety concern.

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

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	ī	Н	Salini	ty (ppt)	DO Satu	ıration (%)	Dissol	ved Oxygen	(mg/L)	T	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-Sep-14	Sunny	Moderate	16:20		Surface	1.0	28.9 29.1	29.0	8.0 8.1	8.1	24.5 24.3	24.4	85.9 86.2	86.1	5.8 5.8	5.8		6.9 7.3	7.1		7.0 7.2	7.1	
				3.6	Middle	-	-	-	-	-	-	-	-	-	-	-	5.8	-	-	7.6	-	-	7.3
					Bottom	2.6	28.9 28.5	28.7	8.0	8.0	24.7 25.0	24.8	85.6 88.9	87.3	5.8 6.0	5.9	5.9	7.7 8.2	8.0		7.3	7.5	
3-Sep-14	Sunny	Moderate	07:22		0 (4.0	29.5		8.1		21.5	0.4.5	86.1		5.8			5.7			4.2		
	,				Surface	1.0	29.5	29.5	8.1	8.1	21.4	21.5	89.4	87.8	6.1	5.9	5.9	5.8	5.8		4.1	4.2	
				3.7	Middle	-	- 29.5	-	- 8.1	-	- 21.6	-	- 88.0	-	6.0	-		- 5.8	-	5.8	4.8	-	4.6
					Bottom	2.7	29.3	29.4	8.0	8.1	22.2	21.9	83.7	85.9	5.7	5.8	5.8	5.7	5.8		5.1	5.0	
5-Sep-14	Sunny	Moderate	10:06		Surface	1.0	29.0 29.2	29.1	8.1 8.1	8.1	23.2 23.2	23.2	76.3 75.5	75.9	5.2 5.1	5.1	5.1	5.4 5.5	5.5		6.0 6.0	6.0	
				3.6	Middle	-	-	-	-	-	-	-	-	-	-	-	0	-	-	5.6	-	-	6.1
					Bottom	2.6	28.0 28.0	28.0	8.0 8.1	8.0	25.9 26.9	26.4	75.9 75.1	75.5	5.1 5.1	5.1	5.1	5.6 5.6	5.6		5.2 7.0	6.1	
8-Sep-14	Cloudy	Moderate	12:44		Surface	1.0	29.1 29.2	29.2	8.2 8.2	8.2	25.9 25.9	25.9	96.4 96.2	96.3	6.1 6.1	6.1		8.1 8.0	8.1		8.4 8.7	8.6	
				3.6	Middle	-	-	-	-	-	-	-	-	-	-	-	6.1	-	-	8.2	-	-	9.1
					Bottom	2.6	29.1	29.1	8.2	8.2	26.0	26.0	96.0	95.3	6.1	6.1	6.1	8.3	8.3		8.9	9.6	
10-Sep-14	Sunny	Moderate	13:09		Surface	1.0	29.0 29.4	29.4	8.2 8.0	8.0	26.0 24.7	24.7	94.5 82.6	81.7	6.0 5.5	5.5		8.3 9.4	9.5		10.3 8.1	8.3	
				3.8	Middle		29.4	20	8.0	-	24.7		80.7	0	5.4 -	0.0	5.5	9.6	0.0	9.6	8.4	-	8.0
				3.6		-	29.3	-	8.0		- 25.8	05.0	- 81.3	-	- 5.4	-		9.8	0.7	9.0	8.1		0.0
12-Sep-14	Sunny	Moderate	14:17		Bottom	2.8	29.3 29.7	29.3	8.0 8.0	8.0	25.7 24.8	25.8	87.4 89.2	84.4	5.8 5.9	5.6	5.6	9.5 9.5	9.7		7.1	7.6	
12 OCP 14	Culliny	Woderate	14.17		Surface	1.0	29.7	29.7	8.0	8.0	24.7	24.8	86.2	87.7	5.7	5.8	5.8	9.6	9.6		7.5	7.6	
				3.8	Middle	-	-	-	-	-	-	-	-	-	-	-		-	-	9.7	-	-	8.1
					Bottom	2.8	29.7 29.7	29.7	8.0 8.0	8.0	24.8 24.9	24.8	90.5 87.5	89.0	6.0 5.8	5.9	5.9	9.4 9.9	9.7		8.7 8.3	8.5	
15-Sep-14 ***	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	=	-	-	<u> </u>
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
17-Sep-14	Cloudy	Moderate	07:44	1	Surface	1.0	28.3 28.2	28.3	8.1	8.1	25.9 25.9	25.9	92.9 91.2	92.1	6.3 6.2	6.2		4.2 4.1	4.2		5.5 5.9	5.7	
				3.6	Middle	-	- 28.2	-	8.1	-	25.9	-	91.2	-	- 6.2	-	6.2	4.1	-	4.2	- 5.9	-	6.0
					Bottom	2.6	28.2	28.2	8.1	8.1	25.9	26.0	91.9	90.5	6.2	6.1	6.1	4.1	4.2		6.2	6.2	
19-Sep-14	Sunny	Moderate	10:27	<u> </u>		1.0	28.2 29.4	29.4	8.1 8.1		26.0 21.9	21.9	89.0 92.3		6.0			4.2 3.8			6.1 2.8	2.7	
	-				Surface	1.0	29.3		8.1	8.1	21.8		87.5 -	89.9	5.9	6.1	6.1	3.6	3.7		2.5		
				3.8	Middle	-	- 29.2	-	8.0	-	23.9	-	- 87.2	-	- 5.9	-		4.2	-	4.0	4.9	-	3.8
					Bottom	2.8	29.2	29.2	8.0	8.0	23.6	23.7	88.5	87.9	6.0	5.9	5.9	4.4	4.3		4.9	4.8	<u> </u>

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

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

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)		Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	1	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-Sep-14	Sunny	Moderate	12:20		Surface	1.0	29.0 29.0	29.0	8.3 8.3	8.3	27.8 27.8	27.8	94.3 97.9	96.1	6.2 6.5	6.3	6.3	6.1 6.3	6.2		5.4 4.8	5.1	
				3.4	Middle	-	-	-	-	-	-	-	-	-	-	-	0.0	-	-	6.5	-	-	5.6
					Bottom	2.4	28.7 28.7	28.7	8.2 8.2	8.2	28.6 28.5	28.6	89.7 88.2	89.0	6.0 5.9	6.0	6.0	6.8 6.7	6.8		5.7 6.3	6.0	
24-Sep-14	Sunny	Moderate	13:42		Surface	1.0	29.2 29.2	29.2	7.5 7.5	7.5	28.8 28.8	28.8	102.2 102.4	102.3	6.7 6.7	6.7	6.7	8.5 8.5	8.5		6.9 6.4	6.7	
				3.8	Middle	-	-	-		-		-	-	-		-	0.7	-	-	8.6		-	7.7
					Bottom	2.8	29.0 29.1	29.1	7.4 7.5	7.5	28.9 28.8	28.9	102.9 102.3	102.6	6.8 6.7	6.7	6.7	8.5 8.6	8.6		8.5 8.6	8.6	
26-Sep-14	Fine	Moderate	13:36		Surface	1.0	29.3 29.1	29.2	7.5 7.5	7.5	27.0 27.4	27.2	91.0 85.1	88.1	6.0 5.6	5.8	5.8	7.4 7.4	7.4		6.8 7.1	7.0	
				3.3	Middle	i		-		-		-	-	-		-	5.0	-	-	7.5		-	7.1
					Bottom	2.3	29.1 29.1	29.1	7.5 7.5	7.5	27.4 27.4	27.4	84.2 86.5	85.4	5.6 5.7	5.6	5.6	7.5 7.5	7.5		7.0 7.4	7.2	
29-Sep-14	Sunny	Moderate	15:14		Surface	1.0	30.7 30.7	30.7	7.6 7.6	7.6	24.8 25.0	24.9	99.4 100.8	100.1	6.5 6.6	6.5	6.5	5.7 5.6	5.7		6.0 5.2	5.6	
				3.7	Middle	•		-		-		-	-	-		-	0.5	-	-	5.9	1 1	-	6.1
					Bottom	2.7	30.3 30.6	30.4	7.5 7.6	7.5	24.7 24.8	24.8	97.2 100.4	98.8	6.4 6.6	6.5	6.5	6.1 5.9	6.0		6.8 6.2	6.5	
1-Oct-14	0	0	0		Surface	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0		0.0 0.0	0.0	
				1.0	Middle	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	0.0
					Bottom	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0		0.0 0.0	0.0	

Remarks:

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

- DA: Depth-Averaged
- ** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
- *** Cancelled due to Thunderstorm Warning and safety concern.

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

Date	Weather	Sea	Sampling	Water	Samp	ling	Temper	ature (°C)	F	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Т	urbidity(NTl	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
1-Sep-14	Sunny	Moderate	11:42		Surface	1.0	28.7 28.8	28.8	8.0 8.0	8.0	23.0 22.8	22.9	88.2 89.3	88.8	6.0 6.1	6.0		13.9 13.5	13.7		8.1 7.3	7.7	
				3.8	Middle	-	-	-	-	-	-	-	-	-	-	-	6.0	-	-	14.3	-	-	7.9
					Bottom	2.8	28.4 28.3	28.4	8.0	8.0	23.7	23.7	87.1 85.5	86.3	5.9 5.8	5.9	5.9	15.1 14.4	14.8		8.6 7.5	8.1	
3-Sep-14	Sunny	Moderate	14:30		Surface	1.0	30.1	30.2	8.1	8.1	19.7	19.5	97.0	99.2	6.6	6.7		9.8	9.8		4.7	4.4	
				3.5		1.0	30.3	-	8.1	-	19.4	-	101.3	-	6.9	0.7	6.7	9.7	3.0	9.8	4.1	7.7	6.1
				3.5	Middle	-	30.1		8.1		- 19.8		97.5		6.6	-		9.7	-	9.0	7.1		0.1
5-Sep-14	Sunny	Moderate	16:31		Bottom	2.5	30.0 29.3	30.0	8.1 8.2	8.1	20.0	19.9	98.0 93.6	97.8	6.6	6.6	6.6	9.9	9.8		8.2 12.8	7.7	
3-3ер-14	Sullily	Moderate	10.51		Surface	1.0	29.4	29.3	8.2	8.2	24.2	24.2	95.5	94.6	6.4	6.3	6.3	11.4	11.5		13.0	12.9	
				3.6	Middle	-	-	-	-	-	-	-	-	-	-	-		-	-	11.5	-	-	13.2
					Bottom	2.6	29.4 29.4	29.4	8.2 8.2	8.2	24.2 24.2	24.2	94.6 98.0	96.3	6.3 6.6	6.4	6.4	11.4 11.3	11.4		13.4 13.4	13.4	
8-Sep-14	Cloudy	Moderate	18:05		Surface	1.0	29.3 29.2	29.2	8.2 8.2	8.2	26.0 26.1	26.0	104.6 102.1	103.4	6.7 6.5	6.6	6.6	11.1 11.1	11.1		7.0 8.5	7.8	
				3.3	Middle	-	-	-	-	-	-	-	-	-	-	-	6.6	-	-	11.3	-	-	8.7
					Bottom	2.3	29.2 29.1	29.2	8.2 8.2	8.2	26.1 26.1	26.1	100.0 100.6	100.3	6.4 6.4	6.4	6.4	11.3 11.4	11.4		9.3 9.7	9.5	
10-Sep-14	Sunny	Moderate	07:30		Surface	1.0	29.2	29.2	8.0 8.0	8.0	23.5 23.5	23.5	75.6 75.7	75.7	5.1 5.1	5.1		7.7 8.0	7.9		8.8 8.2	8.5	
				3.7	Middle	_	- 29.2	-	-	-	-	-	-	-	-	-	5.1	-	-	8.1	- 0.2	-	8.0
					Bottom	2.7	29.2	29.2	8.0	8.0	23.8	24.0	75.7	75.5	5.1	5.1	5.1	8.4	8.3		7.7	7.4	
12-Sep-14	Sunny	Moderate	09:02		Surface	1.0	29.1 29.4	29.4	8.0	8.0	24.2	23.9	75.3 78.8	78.9	5.1 5.3	5.3		8.2 11.3	11.7		7.1 14.8	14.5	
				3.7	Middle		29.4		8.0		23.9		79.0	-	5.3	_	5.3	12.1	_	12.9	14.2		15.0
				5.7	Bottom	2.7	29.4	29.4	8.0	8.0	24.0	24.1	78.9	79.0	5.3	5.3	5.3	14.0	14.0	12.3	15.4	15.4	15.0
15-Sep-14	Sunny	Rough	12:02				29.4 29.8		8.0		24.2 24.1		79.0 75.5		5.3 5.0		5.3	13.9 16.6			15.4 2.9		
10 Cop 11	Cuiniy	r.oug.	12.02		Surface	1.0	29.8	29.8	8.0	8.0	24.2	24.2	76.3	75.9	5.1	5.0	5.0	16.5	16.6		3.2	3.1	
				3.7	Middle	-	-	-	8.0	-	-	-	76.0	-	-	-		17.0	-	16.7	3.7	-	3.6
					Bottom	2.7	29.8 29.8	29.8	8.0	8.0	24.4 24.8	24.6	73.5	74.8	5.0 4.9	5.0	5.0	16.6	16.8		4.5	4.1	
17-Sep-14	Cloudy	Moderate	19:38		Surface	1.0	28.5 28.5	28.5	8.2 8.2	8.2	27.6 27.5	27.6	92.0 93.1	92.6	6.1 6.2	6.2	6.2	9.6 9.3	9.5		6.7 7.1	6.9]
				3.7	Middle	-	-	-		-		-	-			-	0.2	-	-	9.5	-	-	6.8
					Bottom	2.7	28.6 28.7	28.6	8.2 8.1	8.1	28.1 28.3	28.2	93.1 91.5	92.3	6.2 6.1	6.1	6.1	9.4 9.5	9.5		6.4 6.8	6.6	
19-Sep-14	Sunny	Moderate	16:37		Surface	1.0	30.1 30.1	30.1	8.0 8.1	8.0	20.1 20.1	20.1	101.6 101.6	101.6	6.9 6.9	6.9		11.8 11.9	11.9		13.0 13.0	13.0	
				3.7	Middle	-	-	-	-	-	-	-	-	-	-	-	6.9	-	-	12.8	-	-	13.4
					Bottom	2.7	30.1	30.1	8.0	8.0	20.3	20.3	102.0	101.8	6.9	6.9	6.9	14.1	13.7		13.5	13.7	
				l			30.0		7.9	<u> </u>	20.3	<u> </u>	101.6		6.9			13.3			13.9	<u> </u>	1

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

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

Date	Weather	Sea	Sampling	Water	Samp	ling	Temper	ature (°C)	ī	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	1	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-Sep-14	Sunny	Moderate	17:56		Surface	1.0	28.9 28.8	28.9	8.3 8.3	8.3	28.5 28.5	28.5	102.4 100.3	101.4	6.7 6.6	6.7	6.7	6.7 6.5	6.6		6.2 6.6	6.4	
				3.8	Middle	-	-	-	-	-	-	-	-	-	-	-	0	-	-	6.6	-	-	7.1
					Bottom	2.8	28.8 28.8	28.8	8.3 8.3	8.3	28.7 28.7	28.7	102.5 105.0	103.8	6.8 6.9	6.8	6.8	6.2 6.9	6.6		7.7 7.8	7.8	
24-Sep-14	Fine	Moderate	18:40		Surface	1.0	29.1 29.1	29.1	7.8 7.7	7.8	28.5 28.5	28.5	92.8 93.7	93.3	6.1 6.2	6.1	6.1	13.6 13.9	13.8		22.4 22.6	22.5	
				3.6	Middle	-	-	-	-	-	-	-	-	-	-	-	0	-	-	13.8	-	-	22.6
					Bottom	2.6	29.1 29.1	29.1	7.7 7.7	7.7	28.5 28.5	28.5	93.3 94.1	93.7	6.1 6.2	6.2	6.2	13.8 13.6	13.7		22.4 22.7	22.6	
26-Sep-14	Sunny	Moderate	08:00		Surface	1.0	28.9 28.9	28.9	7.4 7.4	7.4	25.4 25.4	25.4	100.3 87.6	94.0	6.7 5.9	6.3	6.3	9.4 9.3	9.4		12.2 12.2	12.2	
				3.3	Middle	•		-		-		-		-		-	0.5	-	-	9.4	-	-	12.7
					Bottom	2.3	28.9 28.8	28.8	7.4 7.4	7.4	25.3 25.5	25.4	85.5 89.2	87.4	5.7 6.0	5.9	5.9	9.4 9.4	9.4		13.0 13.4	13.2	
29-Sep-14	Sunny	Moderate	11:09		Surface	1.0	29.7 29.7	29.7	7.6 7.6	7.6	23.7 23.8	23.7	79.5 79.4	79.5	5.3 5.3	5.3	5.3	9.5 9.7	9.6		6.1 6.2	6.2	
				3.8	Middle	•		-		-		-		-		-	5.5	-	-	11.6	-	-	6.2
					Bottom	2.8	29.6 29.7	29.7	7.6 7.6	7.6	24.0 24.1	24.1	79.4 79.4	79.4	5.3 5.3	5.3	5.3	13.3 13.8	13.6		6.5 5.9	6.2	
1-Oct-14	0	0	0		Surface	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0		0.0 0.0	0.0	
				1.0	Middle	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	0.0
					Bottom	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0		0.0 0.0	0.0	

Remarks:

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

- DA: Depth-Averaged
- ** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
- *** Cancelled due to Thunderstorm Warning and safety concern.

Water Quality Monitoring Results at SR5 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	p	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ed Oxyger	(mg/L)	Т	urbidity(NTl	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
1-Sep-14	Sunny	Moderate	16:41		Surface	1.0	28.0 28.2	28.1	7.9 8.0	8.0	21.7 21.5	21.6	74.0 72.6	73.3	5.1 5.0	5.1	5.4	6.9 6.7	6.8		3.4 2.7	3.1	
				4.9	Middle	-	-	-	-	-	-	-	-	-	-	-	5.1	-	-	6.8	-	-	4.2
					Bottom	3.9	27.8 27.6	27.7	7.9 7.9	7.9	24.6 24.8	24.7	72.6 76.7	74.7	5.0 5.3	5.1	5.1	6.8 6.8	6.8		5.1 5.4	5.3	
3-Sep-14	Sunny	Moderate	07:08		Surface	1.0	29.2	29.2	8.1	8.1	14.3	14.5	90.7	90.2	6.4	6.4		2.3	2.3		1.2	1.3	
				4.5	Middle	_	29.1	-	8.1	-	14.7	-	89.7	-	6.4	-	6.4	2.2	-	2.2	1.3	-	1.5
					Bottom	3.5	29.0	29.0	8.1	8.1	16.8	16.7	88.8	89.2	6.2	6.3	6.3	2.0	2.0		1.7	1.6	
5-Sep-14	Sunny	Moderate	09:45		Surface	1.0	29.0 28.0	28.0	8.1	8.2	16.6 24.6	24.6	89.5 79.6	79.5	6.3 5.4	5.4		1.8	1.9		2.9	3.0	
				4.9	Middle	1.0	28.0	-	8.2	-	24.6	-	79.4	-	5.4	0.4	5.4	1.9	1.0	2.0	3.1	-	3.4
				4.5	-	3.9	28.0	28.0	8.2	8.2	24.6	24.6	79.4	79.3	5.4	5.4	5.4	2.1	2.1	2.0	4.0	3.8	3.4
8-Sep-14	Cloudy	Moderate	12:18		Bottom		28.0 28.4		8.2 8.2	_	24.7 26.2		79.2 79.2		5.4 5.3		5.4	2.0 5.4	1		3.6 5.5		
					Surface	1.0	28.4	28.4	8.2	8.2	26.3	26.3	79.6	79.4	5.4	5.3	5.3	5.4	5.4		5.9	5.7	
				5.0	Middle	-	28.2	-	8.2	-	27.2	-	- 78.8	-	5.3	-		- 5.4	-	5.4	7.5	-	6.5
40 Can 44	Comment	Madagas	13:17		Bottom	4.0	28.4	28.3	8.2	8.2	26.4 25.0	26.8	79.3	79.1	5.3	5.3	5.3	5.2	5.3		7.0	7.3	
10-Sep-14	Sunny	Moderate	13:17		Surface	1.0	28.7 28.7	28.7	8.0 8.0	8.0	25.0	25.0	78.7 81.1	79.9	5.3 5.5	5.4	5.4	14.8 15.8	15.3		13.7 14.7	14.2	
				4.8	Middle	-	-	-	-	-		-	-	-		-		-	-	16.7	-	-	14.6
					Bottom	3.8	28.7 28.7	28.7	8.0 8.1	8.1	25.1 25.1	25.1	79.1 85.0	82.1	5.3 5.7	5.5	5.5	17.7 18.5	18.1		15.0 14.8	14.9	
12-Sep-14	Sunny	Moderate	14:40		Surface	1.0	29.0 29.0	29.0	7.8 7.9	7.9	24.7 24.8	24.7	83.4 81.2	82.3	5.7 5.6	5.7	5.7	13.1 13.2	13.2		13.7 14.0	13.9	
				5.1	Middle	-	-	-	-	-		-		-		-	5.7	-	-	13.3	-	-	13.9
					Bottom	4.1	28.9 28.9	28.9	7.9 7.6	7.8	25.2 25.6	25.4	82.4 82.1	82.3	5.7 5.6	5.6	5.6	13.4 13.4	13.4		13.7 14.0	13.9	
15-Sep-14 ***	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	=	-	-	<u>-</u>
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
17-Sep-14	Cloudy	Moderate	07:56		Surface	1.0	28.1	28.1	8.1	8.1	25.4 25.5	25.5	85.3 85.2	85.3	5.8 5.8	5.8		5.6	5.5		4.8	4.9	
				5.6	Middle	_	28.1	-	8.1	-	- 25.5	-	- 85.2	-	5.8	-	5.8	5.4	-	5.9	5.0	-	4.9
					Bottom	4.6	28.2	28.2	8.1	8.1	26.6	26.2	85.2	85.1	5.7	5.7	5.7	6.9	6.3		5.0	4.8	
19-Sep-14	Sunny	Moderate	10:35	<u> </u>	Surface	1.0	28.1 29.1	29.1	8.1 8.2	8.2	25.8 15.1	15.1	85.0 88.8	89.2	5.8 6.3	6.3		5.7 2.1	2.2		4.6 2.0	2.1	
				4.8	Middle		29.1	23.1	8.2	-	15.0	-	89.5		6.3	- 0.0	6.3	2.2		2.2	2.2	-	2.7
				4.0			28.9		8.1		22.9		90.2	90.5	6.1	6.4	6.4	2.2	-	۷.۷	3.3		2.1
					Bottom	3.8	28.9	28.9	8.1	8.1	21.9	22.4	88.8	89.5	6.1	6.1	6.1	2.1	2.2		3.0	3.2	

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Water Quality Monitoring Results at SR5 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)		ρΗ	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	1	urbidity(NT	J)	Susper	nded Solids	(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*
22-Sep-14	Sunny	Moderate	12:20		Surface	1.0	27.9 27.8	27.9	8.4 8.4	8.4	29.7 29.8	29.7	114.9 112.9	113.9	7.6 7.5	7.6	7.6	2.6 2.5	2.6		4.4 4.3	4.4	
				5.1	Middle	-	-	-	-	-	-	-	-	-	-	-		-	-	2.6	-	-	4.5
					Bottom	4.1	27.9 27.9	27.9	8.4 8.4	8.4	29.8 29.9	29.8	113.2 113.5	113.4	7.5 7.5	7.5	7.5	2.5 2.5	2.5		4.5 4.7	4.6	
24-Sep-14	Sunny	Moderate	13:02		Surface	1.0	28.8 28.9	28.8	8.2 8.2	8.2	25.8 25.6	25.7	93.8 90.9	92.4	6.3 6.1	6.2	6.2	4.3 4.1	4.2		3.0 3.2	3.1	
				5.0	Middle	1		-		-		-	-	-		-	0.2	-	-	4.3		-	3.4
					Bottom	4.0	28.7 28.7	28.7	8.2 8.2	8.2	26.1 26.0	26.1	91.8 96.0	93.9	6.1 6.4	6.3	6.3	4.4 4.2	4.3		3.8 3.3	3.6	
26-Sep-14	Fine	Moderate	13:42		Surface	1.0	29.1 29.1	29.1	8.2 8.2	8.2	23.6 23.5	23.5	89.5 91.0	90.3	6.0 6.1	6.1	6.1	4.5 4.5	4.5		2.2 1.9	2.1	
				5.0	Middle	-	-	-	-	-	-	-	-	-	-	-	6.1	-	-	4.5	-	-	3.2
					Bottom	4.0	28.9 28.7	28.8	8.2 8.2	8.2	25.5 25.6	25.5	89.8 93.8	91.8	6.0 6.3	6.2	6.2	4.3 4.5	4.4		3.9 4.4	4.2	
29-Sep-14	Sunny	Moderate	15:42		Surface	1.0	29.1 29.3	29.2	8.1 8.2	8.2	23.1 22.5	22.8	81.0 83.3	82.2	5.5 5.6	5.5	5.5	7.7 7.5	7.6		3.9 3.9	3.9	
				5.1	Middle	ı		-		-		-	-	-		-	3.3	-	-	7.6		-	4.5
					Bottom	4.1	29.0 29.2	29.1	8.2 8.1	8.2	25.6 25.5	25.6	81.7 82.8	82.3	5.4 5.5	5.5	5.5	7.5 7.4	7.5		4.9 5.0	5.0	
1-Oct-14	0	0	0		Surface	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.0	0.0	0.0 0.0	0.0	_	0.0	0.0	
				1.0	Middle	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	0.0
					Bottom	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0		0.0 0.0	0.0	

Remarks:

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

- DA: Depth-Averaged
- ** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
- *** Cancelled due to Thunderstorm Warning and safety concern.

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 (%)	Dissolv	ed Oxygen	(mg/L)	Ti	urbidity(NTI	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-Sep-14	Sunny	Moderate	11:16		Surface	1.0	28.0 28.0	28.0	8.1 8.1	8.1	23.6 23.4	23.5	73.1 73.0	73.1	5.0 5.0	5.0	5.0	7.9 7.9	7.9		6.5 6.9	6.7	
				5.5	Middle	-	-	-	-	-	-	-	-	-	-	-	5.0	-	-	8.3	-	-	6.7
					Bottom	4.5	28.0 27.4	27.7	8.1 8.1	8.1	25.2 25.7	25.5	73.5 71.6	72.6	5.0 4.9	5.0	5.0	8.7 8.6	8.7		6.6 6.8	6.7	
3-Sep-14	Sunny	Moderate	14:26		Surface	1.0	29.3 29.2	29.2	8.2 8.2	8.2	16.6 17.5	17.1	86.3 85.2	85.8	6.0 5.8	5.9		4.6 4.9	4.8		2.4 2.6	2.5	
				4.7	Middle	-	-	-	-	-	-	-	-	-	-	-	5.9	-	-	5.2	-	-	3.0
					Bottom	3.7	28.0 28.1	28.1	8.1 8.1	8.1	24.2 23.4	23.8	81.0 80.9	81.0	5.6 5.6	5.6	5.6	5.3 5.8	5.6		3.4 3.4	3.4	
5-Sep-14	Sunny	Moderate	16:41		Surface	1.0	28.4 28.3	28.3	8.1 8.1	8.1	23.8 23.3	23.6	82.2 78.0	80.1	5.6 5.3	5.5		3.1 2.8	3.0		3.4 3.9	3.7	
				4.5	Middle	-	-	-		-	-	-		-	-	-	5.5	-	-	3.6	-	-	3.7
					Bottom	3.5	28.1 28.1	28.1	8.1 8.1	8.1	25.3 25.3	25.3	80.3 85.1	82.7	5.5 5.8	5.6	5.6	4.3 4.0	4.2		3.6 3.6	3.6	
8-Sep-14	Cloudy	Moderate	18:39		Surface	1.0	28.7 28.4	28.6	8.1 8.1	8.1	24.7 25.3	25.0	85.7 81.0	83.4	5.8 5.5	5.7		11.5 11.8	11.7		8.1 9.4	8.8	
				5.2	Middle	-	-	-	-	-	-	-	-	-	-	-	5.7	-	-	11.6	-	-	8.9
					Bottom	4.2	28.4 28.4	28.4	8.1 8.1	8.1	25.7 25.4	25.5	82.2 86.8	84.5	5.6 5.9	5.7	5.7	11.4 11.5	11.5		8.1 9.6	8.9	
10-Sep-14	Sunny	Moderate	07:39		Surface	1.0	28.6 28.6	28.6	8.0 8.0	8.0	25.2 25.2	25.2	77.6 77.5	77.6	5.2 5.2	5.2		14.6 14.7	14.7		14.4 13.0	13.7	
				5.0	Middle	-	-	-	-	-	-	-	-	-	-	-	5.2	-	-	15.8	-	-	14.2
					Bottom	4.0	28.4 28.6	28.5	8.0 8.0	8.0	25.8 25.2	25.5	76.8 77.5	77.2	5.2 5.2	5.2	5.2	17.2 16.3	16.8		14.8 14.6	14.7	
12-Sep-14	Sunny	Moderate	09:14		Surface	1.0	29.1 29.1	29.1	8.0 8.0	8.0	24.4 24.3	24.4	78.5 77.4	78.0	5.4 5.3	5.4	5.4	13.6 13.5	13.6		7.4 7.4	7.4	
				5.1	Middle	-		-	-	-	-	-	-	-	-	-	5.4	-	-	13.6	-	-	7.7
					Bottom	4.1	28.9 29.0	29.0	8.0 8.0	8.0	25.1 24.7	24.9	76.0 78.3	77.2	5.2 5.4	5.3	5.3	13.5 13.4	13.5		8.2 7.5	7.9	
15-Sep-14	Sunny	Rough	12:08		Surface	1.0	29.2 29.1	29.2	8.0 8.0	8.0	24.9 24.9	24.9	79.0 77.3	78.2	5.8 5.7	5.8	5.8	6.4 6.8	6.6		7.9 8.3	8.1	
				5.0	Middle	-		-		-	-	-	-	-	-	-	3.6	-	-	6.6	-	-	8.2
					Bottom	4.0	29.2 29.0	29.1	8.0 8.0	8.0	25.7 25.9	25.8	76.9 77.1	77.0	5.8 5.7	5.7	5.7	6.5 6.7	6.6		8.0 8.3	8.2	
17-Sep-14	Cloudy	Moderate	19:47		Surface	1.0	28.5 28.5	28.5	8.1 8.1	8.1	23.8 23.8	23.8	90.8 90.8	90.8	6.2 6.2	6.2	6.2	2.5 2.4	2.5		4.0 4.7	4.4	
				5.5	Middle	-	-	-		-	-	-	-	-	-	-	0.2	-	-	2.7	-	-	5.4
					Bottom	4.5	28.4 28.5	28.5	8.1 8.1	8.1	25.2 24.6	24.9	90.1 89.8	90.0	6.1 6.1	6.1	6.1	2.8 2.7	2.8		6.3 6.3	6.3	
19-Sep-14	Sunny	Moderate	17:02		Surface	1.0	29.6 29.1	29.3	8.2 8.2	8.2	18.3 18.6	18.5	93.4 90.3	91.9	6.2 6.3	6.2	6.2	7.6 7.2	7.4		4.1 4.2	4.2	
				4.8	Middle	-		-	-	-	-	-	-	-	-	-	0.2	-	-	7.5	-	-	4.2
					Bottom	3.8	28.4 28.9	28.7	8.1 8.1	8.1	26.4 26.4	26.4	81.8 82.6	82.2	5.5 5.5	5.5	5.5	7.5 7.5	7.5		3.9 4.2	4.1	

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Water Quality Monitoring Results at SR5 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Temper	ature (°C)		ρΗ	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	1	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-Sep-14	Sunny	Moderate	18:08		Surface	1.0	28.1 28.1	28.1	8.3 8.3	8.3	29.5 29.6	29.5	110.6 107.6	109.1	7.3 7.1	7.2	7.2	7.7 7.7	7.7		9.4 9.8	9.6	
				5.2	Middle	-	-	-	-	-	-	-	-	-	-	-	7.2	-	-	7.7	-	-	10.2
					Bottom	4.2	28.0 28.0	28.0	8.3 8.3	8.3	29.7 29.7	29.7	107.4 109.4	108.4	7.1 7.3	7.2	7.2	7.8 7.5	7.7		10.8 10.5	10.7	
24-Sep-14	Fine	Moderate	19:36		Surface	1.0	28.6 28.5	28.6	8.2 8.2	8.2	27.5 28.4	28.0	93.8 92.0	92.9	6.2 6.1	6.2	6.2	4.8 4.3	4.6		5.3 5.1	5.2	
				5.0	Middle	-		-		-		-	-	-		-	0.2	-	-	4.5		-	5.9
					Bottom	4.0	28.8 28.6	28.7	8.2 8.2	8.2	25.9 28.4	27.2	93.1 97.6	95.4	6.2 6.5	6.3	6.3	4.3 4.3	4.3		6.7 6.5	6.6	
26-Sep-14	Sunny	Moderate	08:08		Surface	1.0	28.5 28.5	28.5	8.2 8.2	8.2	25.9 25.8	25.9	82.8 82.7	82.8	5.6 5.6	5.6	5.6	15.6 15.5	15.6		4.8 5.5	5.2	
				5.2	Middle	i		-		-		-	-	-		-	3.0	-	-	15.7		-	5.3
					Bottom	4.2	28.5 28.5	28.5	8.2 8.2	8.2	27.4 27.4	27.4	82.7 82.6	82.7	5.5 5.5	5.5	5.5	15.8 15.5	15.7		5.8 4.9	5.4	
29-Sep-14	Sunny	Moderate	10:18		Surface	1.0	29.1 29.0	29.1	8.1 8.1	8.1	24.5 25.1	24.8	78.2 78.1	78.2	5.2 5.2	5.2	5.2	11.2 11.4	11.3		7.5 7.5	7.5	
				5.5	Middle	•		-		-		-	-	-		-	5.2	-	-	11.5	1 1	-	8.2
					Bottom	4.5	29.1 29.0	29.0	8.1 8.1	8.1	25.5 25.6	25.6	78.5 78.2	78.4	5.2 5.2	5.2	5.2	11.6 11.5	11.6		8.8 8.9	8.9	
1-Oct-14	0	0	0		Surface	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0		0.0 0.0	0.0	
				1.0	Middle	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	0.0
					Bottom	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0		0.0 0.0	0.0	

Remarks:

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

- DA: Depth-Averaged
- ** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
- *** Cancelled due to Thunderstorm Warning and safety concern.

Water Quality Monitoring Results at SR6 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	F	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-Sep-14	Sunny	Moderate	15:46		Surface	1.0	29.5 29.6	29.5	8.1 8.1	8.1	18.5 18.5	18.5	81.2 81.5	81.4	5.6 5.6	5.6		2.3 2.2	2.3		3.4 3.6	3.5	
				4.2	Middle	-	-	-	-	-	-	-	-	-	-	-	5.6	-	-	2.3	-	-	3.6
					Bottom	3.2	27.9	28.1	8.0 8.1	8.1	22.4	22.9	78.5 81.4	80.0	5.4 5.6	5.5	5.5	2.4	2.3		4.0	3.7	
3-Sep-14	Sunny	Moderate	08:13				29.2		8.1		15.0		83.9	24.0	5.9			2.4			1.7	4.0	
3 334 11	,				Surface	1.0	29.2	29.2	8.1	8.1	14.7	14.8	84.5	84.2	6.0	6.0	6.0	2.4	2.4		1.9	1.8	
				3.8	Middle	-	29.1	-	8.0	-	- 16.2	-	83.8	-	- 5.9	-		2.4	-	2.5	1.9	-	1.9
					Bottom	2.8	29.1	29.1	8.0	8.0	16.2	16.2	83.7	83.8	5.9	5.9	5.9	2.5	2.5		1.9	1.9	<u> </u>
5-Sep-14	Sunny	Moderate	10:39		Surface	1.0	28.4 28.4	28.4	8.2 8.2	8.2	22.0 22.1	22.0	79.6 79.5	79.6	5.5 5.5	5.5	5.5	1.4 1.5	1.5		1.6 1.7	1.7	
				4.0	Middle	-	1 1	-	-	-	-	-		-		-		-	-	2.3	-	-	2.5
					Bottom	3.0	28.0 28.2	28.1	8.1 8.1	8.1	24.3 24.9	24.6	76.2 79.7	78.0	5.2 5.4	5.3	5.3	3.1 2.8	3.0		3.2 3.3	3.3	
8-Sep-14	Cloudy	Moderate	13:19		Surface	1.0	28.5 28.5	28.5	8.1 8.1	8.1	25.1 25.1	25.1	81.5 81.2	81.4	5.5 5.5	5.5		8.2 8.0	8.1		6.5 7.3	6.9	
				4.1	Middle	-	-	-	-	-	-	-	-	-	-	-	5.5	-	-	8.1	-	-	7.0
					Bottom	3.1	28.2	28.3	8.1 8.1	8.1	27.0 26.2	26.6	81.1 81.4	81.3	5.5 5.5	5.5	5.5	7.9 8.1	8.0		7.7 6.5	7.1	
10-Sep-14	Sunny	Moderate	12:22		Surface	1.0	28.4 29.7	29.6	8.1	8.1	23.5	23.5	83.8	83.8	5.6	5.6		5.8	6.0		7.2	7.2	
				4.3	Middle	_	29.6	_	8.0	_	23.5	_	83.8	_	5.6	_	5.6	6.2	_	6.5	7.1	_	7.1
					Bottom	3.3	29.3	29.3	8.1	8.1	24.0	24.0	82.5	83.0	5.5	5.6	5.6	6.7	6.9	0.0	6.8	6.9	'''
10.0			10.15		Bottom	3.3	29.4	29.3	8.0	0.1	23.9	24.0	83.5	03.0	5.6	5.0	3.0	7.1	0.9		7.0	0.9	
12-Sep-14	Sunny	Moderate	13:45		Surface	1.0	29.0 29.0	29.0	8.0 8.0	8.0	24.7 24.6	24.7	79.8 80.7	80.3	5.5 5.6	5.5	5.5	7.6 7.6	7.6		13.4 13.4	13.4	1
				4.0	Middle	-	-	-	-	-	-	-	-	-	-	-		-	-	7.9	-	-	18.1
					Bottom	3.0	29.0 28.8	28.9	8.0 8.0	8.0	25.4 26.4	25.9	80.6 80.4	80.5	5.5 5.5	5.5	5.5	8.2 7.9	8.1		23.3 22.3	22.8	
15-Sep-14 ***	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	-		-	-	-	-	-		-		-	-	-	-	<u>=</u>	-	-	<u> </u>
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
17-Sep-14	Cloudy	Moderate	08:34		Surface	1.0	28.3	28.3	8.1	8.1	25.1	25.1	86.7 86.8	86.8	5.9 5.9	5.9		4.4	4.5		6.3	6.2	
				5.5	Middle	-	28.2	-	8.1	-	25.1	-	- 86.8	-	- 5.9	-	5.9	4.5	-	4.5	6.1	-	7.4
					Bottom	4.5	28.3	28.3	8.1	8.1	26.0	25.7	86.9	86.8	5.9	5.9	5.9	4.5	4.5		8.2	8.6	
19-Sep-14	Sunny	Moderate	11:21	<u> </u>	Surface	1.0	28.3 29.4	29.4	8.1 8.1	8.1	25.4 14.5	14.4	86.7 94.3	94.4	5.9 6.7	6.7		4.5 2.7	2.7		8.9 3.3	3.4	
				4.1	Middle		29.4		8.1		14.4		94.4		6.7	-	6.7	2.7	-	2.7	3.4	- 0.4	3.5
				4.1		-	29.3	-	- 8.1	-	- 15.3	-	94.1	-	6.6	-		2.6		2.1	3.5		3.3
					Bottom	3.1	29.3	29.3	8.1	8.1	15.1	15.2	93.8	94.0	6.6	6.6	6.6	2.6	2.6		3.4	3.5	

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Water Quality Monitoring Results at SR6 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Temper	ature (°C)	I	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	1	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-Sep-14	Sunny	Moderate	13:15		Surface	1.0	27.8 27.9	27.9	8.3 8.3	8.3	30.0 29.9	30.0	100.6 101.0	100.8	6.7 6.7	6.7	6.7	9.0 8.9	9.0		11.6 11.3	11.5	
				4.2	Middle	-	-	-	-	-	-	-	-	-	-	-	0.7	-	-	9.0	-	-	12.2
					Bottom	3.2	27.7 27.9	27.8	8.3 8.3	8.3	30.4 30.0	30.2	100.1 100.8	100.5	6.7 6.7	6.7	6.7	8.8 9.0	8.9		12.8 12.8	12.8	
24-Sep-14	Sunny	Moderate	14:07		Surface	1.0	28.3 28.3	28.3	8.2 8.2	8.2	27.7 27.9	27.8	88.9 92.6	90.8	5.9 6.2	6.1	6.1	5.5 5.9	5.7		7.2 7.3	7.3	
				4.2	Middle	ı		-	1 1	-		-	-	-		-	0.1	-	-	5.8	-	-	7.9
					Bottom	3.2	28.2 28.3	28.3	8.2 8.2	8.2	28.2 27.8	28.0	95.8 90.5	93.2	6.4 6.0	6.2	6.2	5.9 5.6	5.8		8.0 8.8	8.4	
26-Sep-14	Fine	Moderate	12:50		Surface	1.0	29.3 29.2	29.2	8.2 8.2	8.2	23.6 23.8	23.7	90.1 88.8	89.5	6.1 6.0	6.0	6.0	3.7 3.8	3.8		2.0 2.1	2.1	
				4.1	Middle	i		-		-		-	-	-		-	0.0	-	-	3.8	-	-	2.8
					Bottom	3.1	29.2 28.7	29.0	8.2 8.2	8.2	25.0 25.3	25.1	89.4 88.0	88.7	6.0 5.9	5.9	5.9	3.9 3.7	3.8		3.1 3.6	3.4	
29-Sep-14	Sunny	Moderate	14:45		Surface	1.0	29.5 29.4	29.4	8.2 8.2	8.2	21.5 21.7	21.6	83.4 82.8	83.1	5.7 5.6	5.6	5.6	4.6 4.5	4.6		4.0 4.2	4.1	
				4.1	Middle	-		-		-		-	-	-		-	3.0	-	-	4.7	-	-	4.5
					Bottom	3.1	29.0 29.1	29.1	8.2 8.2	8.2	24.8 24.3	24.6	82.7 82.9	82.8	5.5 5.6	5.6	5.6	4.7 4.6	4.7		4.7 4.9	4.8	
1-Oct-14	0	0	0		Surface	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.0	0.0	0.0 0.0	0.0	_	0.0 0.0	0.0	
				1.0	Middle	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	0.0
					Bottom	0.0	0.0 0.0	0.0	0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0		0.0 0.0	0.0	

Remarks:

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

- DA: Depth-Averaged
- ** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
- *** Cancelled due to Thunderstorm Warning and safety concern.

Water Quality Monitoring Results at SR6 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	F	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Т	urbidity(NT	U)	Suspe	nded Solids	(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-Sep-14	Sunny	Moderate	12:16		Surface	1.0	28.3 28.5	28.4	8.1 8.1	8.1	20.5 20.6	20.6	73.5 73.2	73.4	5.1 5.1	5.1		5.8 5.8	5.8		2.0 2.2	2.1	
				4.1	Middle	-	-	-	-	-	-	-	-	-	-	-	5.1	-	-	5.8	-	-	3.1
					Bottom	3.1	27.6 28.3	28.0	8.1 8.1	8.1	24.7	24.4	70.2 73.8	72.0	4.8	4.9	4.9	5.7 5.7	5.7		3.9	4.0	
3-Sep-14	Sunny	Moderate	13:31				29.9		8.1		13.7		73.8 89.8		6.3			3.9			4.1		
3-0ер-14	Guilly	Woderate	15.51		Surface	1.0	29.9	29.9	8.1	8.1	14.0	13.8	89.6	89.7	6.3	6.3	6.3	4.1	4.0		4.6	4.5	
				3.9	Middle	-	-	-	-	-	18.5	-	85.1	-	-	-		-	-	4.8	4.9	-	4.8
					Bottom	2.9	29.0 29.0	29.0	8.1 8.1	8.1	20.5	19.5	87.5	86.3	5.9 6.0	6.0	6.0	5.7 5.3	5.5		5.0	5.0	
5-Sep-14	Sunny	Moderate	15:46		Surface	1.0	28.7 28.7	28.7	8.2 8.2	8.2	22.7 22.7	22.7	80.3 81.0	80.7	5.5 5.5	5.5	5.5	2.1 2.3	2.2		2.6 2.4	2.5	
				4.0	Middle	-		-		-		-		-		-	5.5	-	-	2.7	-	-	3.6
					Bottom	3.0	28.5 28.3	28.4	8.1 8.1	8.1	24.0 23.6	23.8	80.3 77.8	79.1	5.5 5.3	5.4	5.4	3.1 3.3	3.2		4.6 4.8	4.7	
8-Sep-14	Cloudy	Moderate	17:41		Surface	1.0	28.5 28.5	28.5	8.1 8.1	8.1	24.9 24.8	24.9	80.1 80.5	80.3	5.4 5.5	5.5		8.5 8.6	8.6		12.7 12.5	12.6	
				4.2	Middle	-	-	-	-	-	-	-	-	-	-	-	5.5	-	-	8.8	-	-	12.2
					Bottom	3.2	28.3	28.3	8.1	8.1	26.0	25.9	78.7	79.2	5.3	5.4	5.4	8.9	8.9		12.1	11.8	1
10-Sep-14	Sunny	Moderate	08:35		Surface	1.0	28.4 28.6	28.6	8.1 8.0	8.0	25.8 25.5	25.5	79.6 76.2	76.3	5.4 5.1	5.1		8.8 11.8	11.6		11.4 6.8	7.2	\vdash
				4.2	Middle		28.6	-	8.0	-	25.5	-	76.4		5.1 -	0	5.1	11.3	-	12.5	7.6		7.8
				4.2		-	28.5		8.0		25.7		- 76.1		- 5.1			13.6		12.5	8.5		7.0
					Bottom	3.2	28.5	28.5	8.0	8.0	25.7	25.7	76.1	76.1	5.1	5.1	5.1	13.2	13.4		8.1	8.3	
12-Sep-14	Sunny	Moderate	10:11		Surface	1.0	29.0 29.0	29.0	8.0 8.0	8.0	24.3 24.3	24.3	78.3 78.2	78.3	5.4 5.4	5.4	5.4	12.3 12.2	12.3		10.7 11.1	10.9	
				4.2	Middle	-		-		-		-		-		-	5.4	-	-	12.3	-	-	13.7
					Bottom	3.2	28.9 28.9	28.9	8.0 8.0	8.0	25.0 24.7	24.9	77.2 78.3	77.8	5.3 5.4	5.3	5.3	12.2 12.4	12.3		16.2 16.5	16.4	
15-Sep-14	Sunny	Rough	13:12		Surface	1.0	29.3 29.3	29.3	8.0 8.0	8.0	24.8 24.8	24.8	71.8 70.4	71.1	5.1 5.1	5.1		4.3 4.5	4.4		8.1 8.3	8.2	
				4.3	Middle	-	-	-	-	-	-	-	-	-	-	-	5.1	-	-	4.4	-	-	7.2
					Bottom	3.3	29.3	29.2	8.0	8.0	24.9	25.1	70.2	70.8	5.1	5.1	5.1	4.3	4.3		6.0	6.2	1
17-Sep-14	Cloudy	Moderate	19:07		Surface	1.0	29.2 28.6	28.6	8.0 8.1	8.1	25.3 23.1	23.1	71.3 89.6	89.6	5.2 6.1	6.1		4.3 3.0	3.0		3.6	3.5	$\vdash \vdash$
				5.5	Middle		28.6	-	8.1	-	23.1	-	89.6	-	6.1		6.1	2.9	-	3.5	3.4	-	4.1
				5.5		4.5	28.5		8.1		23.9		86.8		5.9	5.0	F 0	3.9		3.5	4.9		7.1
19-Sep-14	Sunny	Moderate	16:01		Bottom	4.5	28.4 29.3	28.5	8.1 8.2	8.1	24.0 19.0	24.0	87.6 88.5	87.2	6.0 6.1	5.9	5.9	4.1 5.2	4.0		4.5 4.3	4.7	<u> </u>
.0 000 17	Cumy	osorato			Surface	1.0	29.1	29.2	8.2	8.2	19.3	19.1	86.4	87.5	6.0	6.0	6.0	5.4	5.3		4.8	4.6	.
				4.0	Middle	-	-	-	-	-	-	-	-	-	-	-		-	-	5.4	-	-	5.0
					Bottom	3.0	29.0 28.7	28.9	8.1 8.1	8.1	23.4 24.1	23.8	87.6 85.4	86.5	5.9 5.8	5.9	5.9	5.4 5.5	5.5		5.5 5.2	5.4	

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Water Quality Monitoring Results at SR6 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	ı	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	1	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-Sep-14	Sunny	Moderate	17:11		Surface	1.0	28.3 28.3	28.3	8.3 8.3	8.3	28.0 28.0	28.0	100.9 101.0	101.0	6.7 6.7	6.7	6.7	2.2 2.2	2.2		2.8 3.0	2.9	
				4.2	Middle	-	-	-	-	-	-	-	-	-	-	-	0.7	-	-	2.2	-	-	3.3
					Bottom	3.2	28.3 28.3	28.3	8.3 8.3	8.3	28.1 28.3	28.2	100.9 100.2	100.6	6.7 6.7	6.7	6.7	2.2 2.1	2.2		3.8 3.5	3.7	
24-Sep-14	Fine	Moderate	18:26		Surface	1.0	28.7 28.8	28.8	8.2 8.2	8.2	25.9 25.3	25.6	88.7 87.4	88.1	5.9 5.9	5.9	5.9	5.4 5.9	5.7		5.9 6.0	6.0	
				4.6	Middle	-	-	-	-	-	-	-	-	-	-	1	3.5	-	-	5.6	-	-	6.8
					Bottom	3.6	28.6 28.7	28.7	8.2 8.2	8.2	26.7 26.6	26.6	87.0 90.4	88.7	5.8 6.0	5.9	5.9	5.6 5.2	5.4		7.4 7.7	7.6	
26-Sep-14	Sunny	Moderate	08:58		Surface	1.0	28.5 28.5	28.5	8.2 8.2	8.2	25.5 25.5	25.5	83.0 83.1	83.1	5.6 5.6	5.6	5.6	13.6 13.5	13.6		7.0 6.8	6.9	
				4.1	Middle	-	-	-	-	-	-	-	-	-	-	-	5.6	-	-	14.7	-	-	7.6
					Bottom	3.1	28.5 28.5	28.5	8.2 8.2	8.2	26.7 26.6	26.7	83.0 82.9	83.0	5.6 5.6	5.6	5.6	15.5 15.8	15.7		8.2 8.3	8.3	
29-Sep-14	Sunny	Moderate	11:15		Surface	1.0	29.3 29.2	29.2	8.1 8.1	8.1	22.1 22.2	22.2	81.9 80.9	81.4	5.6 5.5	5.5	5.5	9.7 10.1	9.9		3.4 3.8	3.6	
				4.2	Middle	-	-	-	-	-	-	-	-	-	-	-	5.5	-	-	10.0	-	-	5.2
					Bottom	3.2	29.1 29.0	29.1	8.1 8.1	8.1	24.2 24.5	24.4	81.3 80.2	80.8	5.5 5.4	5.4	5.4	9.7 10.4	10.1		6.7 6.8	6.8	
1-Oct-14	0	0	0		Surface	0.0	0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.0	0.0		0.0	0.0	
				1.0	Middle	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
					Bottom	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.0	0.0	0.0 0.0	0.0		0.0	0.0	

Remarks:

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

- DA: Depth-Averaged
- ** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
- *** Cancelled due to Thunderstorm Warning and safety concern.

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 (%)	Dissolv	ed Oxygen	(mg/L)	Т	urbidity(NT	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
1-Sep-14	Sunny	Moderate	17:09		Surface	1.0	28.7 28.7	28.7	8.1 8.1	8.1	20.7 20.7	20.7	82.1 80.8	81.5	5.7 5.6	5.6	5.0	2.5 2.6	2.6		2.9 2.7	2.8	
				4.3	Middle	-	-	-	-	-	-	-	-	-	-	-	5.6	-	-	2.6	-	-	3.1
					Bottom	3.3	28.2 28.6	28.4	8.1 8.1	8.1	24.3 23.9	24.1	80.0 82.1	81.1	5.5 5.6	5.5	5.5	2.6 2.6	2.6		3.4 3.1	3.3	
3-Sep-14	Sunny	Moderate	06:36		Surface	1.0	29.0	29.0	8.1	8.1	16.4	16.4	86.6	86.8	6.1	6.1		1.6	1.7		3.1	2.9	
				3.8	Middle	_	29.0	-	8.1 -	-	16.4	_	86.9	_	6.1	_	6.1	1.8	_	1.9	2.7	-	2.8
					Bottom	2.8	29.0	29.0	8.1	8.1	16.9	17.0	86.1	86.2	6.0	6.0	6.0	2.0	2.0		2.8	2.7	
5-Sep-14	Sunny	Moderate	09:14		Surface	1.0	29.0 28.0	27.9	8.1 8.2	8.2	17.1 25.8	25.8	86.2 79.3	81.4	6.0 5.4	5.5	0.0	1.9 3.6	3.5		2.5 4.1	4.1	
				4.0		1.0	27.9		8.2		25.8	-	83.5		5.7	3.3	5.5	3.4	3.3	2.0	4.1		4.5
				4.0	Middle	-	28.0	-	- 8.1	-	26.1		73.4	-	5.0	-		3.9	-	3.8	5.3	-	4.5
8-Sep-14	Cloudy	Moderate	11:49		Bottom	3.0	27.8 28.4	27.9	8.1 8.2	8.1	27.4 26.3	26.7	75.6 80.9	74.5	5.1 5.4	5.0	5.0	4.2 8.2	4.1		4.2 6.6	4.8	
0-оер-14	Cloudy	Woderate	11.43		Surface	1.0	28.4	28.4	8.2	8.2	26.3	26.3	81.1	81.0	5.5	5.4	5.4	8.2	8.2		6.2	6.4	
				4.1	Middle	-	-	-	-	-	-	-	-	-	-	-		-	-	8.4	-	-	6.1
					Bottom	3.1	28.2 28.1	28.2	8.2 8.2	8.2	27.0 27.2	27.1	80.1 79.6	79.9	5.4 5.4	5.4	5.4	8.5 8.5	8.5		5.7 5.9	5.8	
10-Sep-14	Sunny	Moderate	13:47		Surface	1.0	29.5 29.3	29.4	8.0 8.0	8.0	23.9 24.2	24.0	83.8 82.2	83.0	5.6 5.5	5.6	5.6	9.5 9.3	9.4		5.9 6.4	6.2	
				4.2	Middle	-	-	-	-	-		-		-		-	0.0	-	-	10.7	-	-	5.9
					Bottom	3.2	29.2 28.8	29.0	8.0 8.0	8.0	24.5 25.1	24.8	82.6 80.7	81.7	5.5 5.4	5.5	5.5	12.4 11.5	12.0		5.2 5.9	5.6	
12-Sep-14	Sunny	Moderate	15:08		Surface	1.0	28.9 28.9	28.9	8.0 8.0	8.0	26.0 25.9	25.9	80.5 81.5	81.0	5.5 5.6	5.5		4.1 4.3	4.2		7.3 8.9	8.1	
				4.0	Middle	-	-	-	-	-	-	-	-	-	-	-	5.5	-	-	4.2	-	-	8.6
					Bottom	3.0	28.7 28.9	28.8	8.0 8.0	8.0	26.3 25.9	26.1	79.8 81.0	80.4	5.5 5.5	5.5	5.5	4.2 4.1	4.2		9.0 9.2	9.1	
15-Sep-14 ***	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-		-	-		-	-	
				-	Middle	_	-	-	-	-	-	-	-	-	-	-	-	-	-	_	-	-	<u> </u>
					Bottom	_	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
17-Sep-14	Cloudy	Moderate	07:22		Surface	1.0	28.2	28.2	8.1	8.1	25.6	25.6	86.0	86.1	5.8	5.8		4.5	4.6		6.3	6.6	
				5.5	Middle		28.2	-	8.1 -	-	25.6	-	86.2	-	5.8		5.8	4.6		4.7	6.8	-	7.1
				0.0	Bottom	4.5	28.1	28.1	8.2	8.1	27.0	26.9	86.1	86.1	5.8	5.0	5.8	4.9	4.8	7.1	7.7	7.5	
19-Sep-14	Sunny	Moderate	10:06	<u> </u>			28.1 29.1		8.1 8.2		26.8 15.0		86.1 92.7		5.8 6.6	5.8	5.0	4.7 1.9			7.3 2.0		
12 226 11	,				Surface	1.0	29.1	29.1	8.2	8.2	15.1	15.0	92.2	92.5	6.5	6.5	6.5	1.9	1.9		1.7	1.9	İ
				4.3	Middle	-	29.0	-	8.1	-	22.3	-	92.8	-	6.3	-		1.9	-	1.9	3.3	-	2.6
					Bottom	3.3	28.8	28.9	8.1 8.1	8.1	22.3 22.4	22.4	92.8 93.2	93.0	6.4	6.3	6.3	1.9	1.9		3.3	3.2	<u> </u>

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Water Quality Monitoring Results at SR7 - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Temper	ature (°C)		Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	1	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-Sep-14	Sunny	Moderate	11:54		Surface	1.0	27.9 27.9	27.9	8.4 8.4	8.4	30.4 30.3	30.4	101.1 102.6	101.9	6.7 6.8	6.8	6.8	12.3 12.3	12.3		10.2 9.8	10.0	
				4.2	Middle	-	-	-	-	-	-	-	-	-	-	-	0.0	-	-	12.1	-	-	11.6
					Bottom	3.2	27.9 27.8	27.9	8.4 8.4	8.4	30.4 30.4	30.4	101.2 103.6	102.4	6.7 6.9	6.8	6.8	11.9 11.8	11.9		12.9 13.4	13.2	
24-Sep-14	Sunny	Moderate	12:26		Surface	1.0	28.6 28.6	28.6	8.3 8.3	8.3	26.5 26.6	26.5	96.8 94.5	95.7	6.5 6.3	6.4	6.4	3.5 3.2	3.4		4.5 5.0	4.8	
				4.0	Middle	1		-		-		-		-		-	0.4	-	-	3.6	-	-	5.0
					Bottom	3.0	28.7 28.5	28.6	8.3 8.3	8.3	26.5 26.9	26.7	98.9 94.6	96.8	6.6 6.3	6.5	6.5	3.5 3.8	3.7		4.9 5.2	5.1	
26-Sep-14	Fine	Moderate	14:29		Surface	1.0	29.1 29.1	29.1	8.2 8.2	8.2	25.1 25.1	25.1	91.6 93.0	92.3	6.1 6.2	6.2	6.2	6.9 6.8	6.9		4.4 4.9	4.7	
				4.6	Middle	ı	-	-	-	-		-		-		-	0.2	-	-	6.9	-	-	5.8
					Bottom	3.6	29.0 29.1	29.0	8.2 8.2	8.2	25.2 25.2	25.2	95.5 92.1	93.8	6.4 6.2	6.3	6.3	6.8 6.7	6.8		6.7 7.1	6.9	
29-Sep-14	Sunny	Moderate	16:10		Surface	1.0	29.6 29.3	29.5	8.1 8.1	8.1	21.9 22.0	21.9	82.1 81.0	81.6	5.5 5.5	5.5	5.5	5.6 5.5	5.6		6.4 6.6	6.5	
				4.2	Middle	ı	-	-	-	-		-		-		-	3.3	-	-	5.6	-	-	6.9
					Bottom	3.2	29.1 29.4	29.3	8.1 8.1	8.1	24.7 24.0	24.3	81.2 81.5	81.4	5.4 5.5	5.5	5.5	5.6 5.5	5.6		7.5 7.0	7.3	
1-Oct-14	0	0	0		Surface	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.0	0.0	0.0 0.0	0.0	_	0.0	0.0	
				1.0	Middle	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	0.0
					Bottom	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0		0.0 0.0	0.0	

Remarks:

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

- DA: Depth-Averaged
- ** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
- *** Cancelled due to Thunderstorm Warning and safety concern.

Water Quality Monitoring Results at SR7 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	ī	Н	Salini	ty (ppt)	DO Satu	ıration (%)	Dissolv	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-Sep-14	Sunny	Moderate	10:49		Surface	1.0	27.9 28.0	28.0	8.1 8.0	8.0	23.9 23.9	23.9	74.4 75.7	75.1	5.1 5.2	5.1		6.8 6.6	6.7		3.4 3.0	3.2	
				4.2	Middle	-	-	-	-	-	-	-	-	-	-	-	5.1	-	-	6.8	-	-	3.4
					Bottom	3.2	27.7 27.8	27.7	7.9 8.0	8.0	25.2 25.0	25.1	79.1 75.2	77.2	5.4 5.1	5.3	5.3	6.7 6.9	6.8		3.9	3.5	
3-Sep-14	Sunny	Moderate	14:54		0(4.0	29.5	00.4	8.2	0.0	19.5	40.5	94.3	00.5	6.5	0.4		1.8	0.0		2.7	0.0	
	,				Surface	1.0	29.3	29.4	8.2	8.2	19.5	19.5	92.6	93.5	6.4	6.4	6.4	2.1	2.0		2.5	2.6	
				4.0	Middle	-	29.2	-	8.2	-	20.8	-	92.7	-	6.3	-		2.6	-	2.3	3.1	-	3.0
					Bottom	3.0	29.1	29.2	8.2	8.2	20.8	20.8	92.4	92.6	6.3	6.3	6.3	2.5	2.6		3.4	3.3	
5-Sep-14	Sunny	Moderate	17:08		Surface	1.0	28.2 28.3	28.3	8.1 8.2	8.2	25.5 24.8	25.2	75.5 79.9	77.7	5.1 5.4	5.3	5.3	7.0 6.7	6.9		10.9 10.7	10.8	
				4.4	Middle	-		-	-	-		-	-	-	-	-		-	-	7.6	-	-	12.0
					Bottom	3.4	28.1 28.2	28.1	8.1 8.1	8.1	25.9 25.8	25.9	75.5 76.5	76.0	5.1 5.2	5.1	5.1	8.2 8.4	8.3		12.8 13.3	13.1	
8-Sep-14	Cloudy	Moderate	19:09		Surface	1.0	28.4 28.4	28.4	8.1 8.1	8.1	25.6 25.6	25.6	77.5 77.5	77.5	5.3 5.3	5.3		10.4 10.4	10.4		12.2 14.1	13.2	
				4.3	Middle	-	-	-	-	-	-	-	-	-	-	-	5.3	-	-	10.4	-	-	13.1
					Bottom	3.3	28.2 28.3	28.3	8.1 8.1	8.1	26.2 25.7	26.0	77.3 77.7	77.5	5.2 5.3	5.3	5.3	10.3 10.5	10.4		13.2	13.0	
10-Sep-14	Sunny	Moderate	07:09		Surface	1.0	28.8	28.8	8.1	8.1	24.7	24.6	87.3	89.2	5.9	6.0		9.6	9.3		8.5	8.5	
				4.0	Middle	_	28.8	_	8.1	_	24.6	_	91.1	_	6.1	_	6.0	9.0	_	10.0	8.5	_	8.4
					Bottom	3.0	28.7	28.7	8.1	8.1	24.9	24.8	83.1	83.7	5.6	5.6	5.6	11.2	10.7	10.0	8.0	8.3	
12-Sep-14	Sunny	Moderate	08:44	1			28.8 28.9		8.1 7.8		24.7 25.1		84.2 77.4		5.7 5.3		5.0	10.2 13.1			8.5 10.1		
	,				Surface	1.0	29.0	29.0	7.9	7.9	24.6	24.9	78.0	77.7	5.4	5.3	5.3	14.3	13.7		10.3	10.2	
				4.2	Middle	-	28.8	-	- 7.9	-	25.5	-	- 76.8	-	5.3	-		13.5	-	13.9	12.3	-	11.3
	-				Bottom	3.2	28.8	28.8	7.7	7.8	25.6	25.5	77.2	77.0	5.3	5.3	5.3	14.5	14.0		12.5	12.4	
15-Sep-14	Sunny	Rough	11:31		Surface	1.0	29.3 29.2	29.3	8.1 8.1	8.1	24.8 25.0	24.9	76.5 76.5	76.5	5.6 5.5	5.5	5.5	2.7 2.5	2.6		5.7 5.1	5.4	
				4.1	Middle	1		-		-		-		-	-	-	0.0	-	-	2.7	-	-	5.6
					Bottom	3.1	29.0 29.1	29.1	8.1 8.1	8.1	26.1 25.5	25.8	80.3 76.8	78.6	6.0 5.6	5.8	5.8	2.5 2.8	2.7		5.6 5.7	5.7	
17-Sep-14	Cloudy	Moderate	20:18		Surface	1.0	28.4 28.4	28.4	8.2 8.2	8.2	25.9 26.0	26.0	93.3 93.4	93.4	6.3 6.3	6.3		3.5 3.7	3.6		3.5 3.4	3.5	
				5.6	Middle	-	-	-	-	-	-	-	-	-	-	-	6.3	-	-	3.9	-	-	4.7
					Bottom	4.6	28.4	28.4	8.2	8.2	26.3	26.3	93.2	93.3	6.3	6.3	6.3	4.0	4.1		5.8	5.9	
19-Sep-14	Sunny	Moderate	17:31	<u> </u>	Surface	1.0	28.4 29.2	29.2	8.2 8.2	8.2	26.4 21.1	20.9	93.4 97.0	95.6	6.3 6.6	6.5		2.8	2.8		5.2	5.6	
				4.4	Middle	_	29.2	-	8.2	-	20.8	-	94.1	-	6.4	_	6.5	2.8		2.8	5.9	-	6.1
				4.4		2.4	29.0		8.1		22.4		91.2		6.2		C 4	2.8		2.0	6.3		0.1
					Bottom	3.4	29.2	29.1	8.2	8.2	21.5	22.0	96.5	93.9	6.6	6.4	6.4	2.8	2.8		6.8	6.6	

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Water Quality Monitoring Results at SR7 - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Temper	ature (°C)		Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Т	urbidity(NTl	J)	Suspe	nded Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
22-Sep-14	Sunny	Moderate	18:37		Surface	1.0	28.1 28.1	28.1	8.4 8.3	8.4	29.8 29.8	29.8	109.5 107.3	108.4	7.3 7.1	7.2	7.2	7.5 7.4	7.5		8.5 8.3	8.4	
				4.2	Middle	-	-	-	-	-	-	-	-	-	-	-	7.2	-	-	7.6	-	-	10.4
					Bottom	3.2	28.1 28.1	28.1	8.3 8.3	8.3	29.8 29.8	29.8	105.6 109.4	107.5	7.0 7.2	7.1	7.1	7.6 7.5	7.6		12.3 12.5	12.4	
24-Sep-14	Fine	Moderate	20:02		Surface	1.0	28.5 28.5	28.5	8.2 8.2	8.2	28.0 27.8	27.9	90.3 90.2	90.3	6.0 6.0	6.0	6.0	3.3 3.4	3.4		15.4 15.5	15.5	
				5.2	Middle	-	-	-	-	-		-	-	-		-	0.0	-	-	3.4	-	-	16.8
					Bottom	4.2	28.4 28.4	28.4	8.2 8.2	8.2	28.8 28.9	28.9	90.1 90.1	90.1	6.0 6.0	6.0	6.0	3.2 3.4	3.3		18.0 17.9	18.0	
26-Sep-14	Sunny	Moderate	07:40		Surface	1.0	28.5 28.5	28.5	8.2 8.2	8.2	27.2 27.3	27.2	87.7 84.7	86.2	5.9 5.7	5.8	5.8	15.4 15.3	15.4		5.0 4.9	5.0	
				4.3	Middle	i		-	-	-		-	-	-		-	5.0	-	-	15.4	-	-	5.3
					Bottom	3.3	28.5 28.5	28.5	8.2 8.2	8.2	27.3 27.1	27.2	86.0 91.9	89.0	5.7 6.1	5.9	5.9	15.1 15.4	15.3		5.3 5.9	5.6	
29-Sep-14	Sunny	Moderate	09:53		Surface	1.0	29.0 29.0	29.0	8.2 8.2	8.2	25.3 25.4	25.3	81.2 84.3	82.8	5.4 5.6	5.5	5.5	6.6 6.9	6.8		10.0 11.1	10.6	
				4.1	Middle	i		-	-	-		-	-	-		-	5.5	-	-	7.0	-	-	11.0
					Bottom	3.1	29.0 29.0	29.0	8.2 8.2	8.2	25.5 25.3	25.4	89.4 82.4	85.9	6.0 5.5	5.7	5.7	7.1 7.2	7.2		11.4 11.3	11.4	
1-Oct-14	0	0	0		Surface	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	_	0.0 0.0	0.0	
				1.0	Middle	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	0.0
					Bottom	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0		0.0 0.0	0.0	

Remarks:

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

- DA: Depth-Averaged
- ** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
- *** Cancelled due to Thunderstorm Warning and safety concern.

Water Quality Monitoring Results at SR10A - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Sampl	ling	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*
1-Sep-14	Sunny	Moderate	17:34		Surface	1.0	28.1 28.1	28.1	8.1 8.0	8.1	27.2 27.2	27.2	78.8 81.7	80.3	5.3 5.5	5.4		2.1 2.2	2.2		2.9 3.0	3.0	
				6.6	Middle	3.3	27.4 27.2	27.3	8.0 8.1	8.0	28.5 29.1	28.8	77.8 79.2	78.5	5.3 5.3	5.3	5.4	3.1 2.9	3.0	2.7	3.0 3.0	3.0	3.7
					Bottom	5.6	27.1 27.5	27.3	8.0	8.0	29.7	29.6	78.6 78.1	78.4	5.3 5.2	5.3	5.3	3.0	2.9		4.9 5.1	5.0	
3-Sep-14	Sunny	Moderate	06:00		Surface	1.0	29.0	29.0	8.0	8.0	20.4	20.4	80.3	80.0	5.5	5.5		1.9	1.9		0.7	0.7	
				6.5	Middle	3.3	29.0 29.0	29.0	8.0 8.0	8.0	20.3	21.4	79.6 79.6	79.0	5.5 5.5	5.4	5.5	1.9 1.9	1.9	1.9	0.7 1.2	1.2	1.2
				0.0	Bottom	5.5	29.0 29.0	29.0	8.0 8.0	8.0	21.8 21.9	22.3	78.3 80.0	79.3	5.3 5.5	5.4	5.4	1.9 1.9	1.9	1.0	1.2	1.6	'
5-Sep-14	Sunny	Moderate	08:43				28.9 28.2		8.0 8.1		22.7		78.6 75.8		5.4 5.2		5.4	1.8			1.8 3.7		
0 00p 14	Culliny	Wioderate	00.40		Surface	1.0	28.1	28.1	8.1 8.0	8.1	24.1	23.9	75.4 73.7	75.6	5.1 5.0	5.2	5.2	1.7	1.7		3.1	3.4	
				6.6	Middle	3.3	28.0	28.1	8.1	8.1	24.5	24.4	74.4	74.1	5.1	5.1		1.7	1.8	1.8	3.4	3.7	3.8
					Bottom	5.6	27.9 28.0	28.0	8.0 8.0	8.0	25.0 24.6	24.8	73.1 74.0	73.6	5.0 5.1	5.0	5.0	1.8 1.7	1.8		4.1 4.7	4.4	
8-Sep-14	Cloudy	Moderate	11:17		Surface	1.0	28.4 28.2	28.3	8.1 8.1	8.1	27.2 27.5	27.4	92.7 90.4	91.6	5.9 5.8	5.8	5.8	4.0 3.9	4.0		5.6 5.5	5.6	
				6.3	Middle	3.2	27.8 27.8	27.8	8.1 8.1	8.1	28.3 27.8	28.1	89.1 91.9	90.5	5.7 5.9	5.8	5.0	4.1 4.3	4.2	4.2	4.7 5.3	5.0	5.2
					Bottom	5.3	27.8 27.7	27.8	8.1 8.1	8.1	28.5 28.7	28.6	88.1 88.6	88.4	5.6 5.7	5.6	5.6	4.3 4.7	4.5		4.6 5.6	5.1	
10-Sep-14	Sunny	Moderate	14:21		Surface	1.0	29.8 29.8	29.8	8.0 8.0	8.0	25.5 25.5	25.5	80.9 80.0	80.5	5.4 5.3	5.3		5.5 5.5	5.5		6.7 5.0	5.9	
				6.6	Middle	3.3	29.5	29.6	8.0	8.0	25.8	25.7	81.2	80.4	5.4	5.4	5.4	5.4	5.5	5.5	7.2	6.2	6.5
					Bottom	5.6	29.6 29.4	29.5	8.0 8.0	8.0	25.7 25.9	25.8	79.5 83.7	81.9	5.3 5.6	5.5	5.5	5.6 5.3	5.4		5.1 6.2	7.3	
12-Sep-14	Sunny	Moderate	15:34		Surface	1.0	29.7 29.4	29.4	8.0	8.0	25.7 25.2	25.4	80.0 83.8	85.9	5.3 5.6	5.7		5.4 7.2	7.2		7.4	7.5	
				6.5	Middle	3.3	29.4 29.2	29.3	8.0 8.0	8.0	25.5 26.0	25.8	88.0 79.5	82.0	5.8 5.3	5.4	5.6	7.1 7.2	7.1	7.1	7.5 9.9		9.2
				0.5			29.3 29.2		8.0 8.0		25.7 26.0		84.4 81.1		5.6 5.4			7.0 7.3	-	7.1	9.8 10.7	9.9	9.2
15-Sep-14 ***	-	_	_		Bottom	5.5	29.2	29.2	8.0	8.0	26.1	26.0	81.2	81.2	5.4	5.4	5.4	6.9	7.1		9.9	10.3	
13-0ер-14		_			Surface	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
				-	Middle	-	-	-	-	-	-	-	-	-	-	-		-	-	=	-	-	=
					Bottom	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	
17-Sep-14	Cloudy	Moderate	06:11		Surface	1.0	28.1 28.1	28.1	8.1 8.1	8.1	29.4 29.4	29.4	77.2 77.3	77.3	5.1 5.1	5.1	5.1	5.5 5.3	5.4		6.6 6.7	6.7	
				6.6	Middle	3.3	28.1 28.1	28.1	8.1 8.1	8.1	29.4 29.4	29.4	77.0 77.0	77.0	5.1 5.1	5.1	J. I	5.1 5.6	5.4	5.4	6.2 6.9	6.6	7.2
					Bottom	5.6	28.1	28.1	8.1 8.1	8.1	29.4 29.5	29.5	77.2 77.3	77.3	5.1 5.1	5.1	5.1	5.4 5.2	5.3		8.2 8.1	8.2	
19-Sep-14	Sunny	Moderate	08:51		Surface	1.0	29.3 29.3	29.3	8.0 8.0	8.0	21.1 21.0	21.1	91.9 91.8	91.9	6.3 6.3	6.3		2.6 2.6	2.6		1.9 1.6	1.8	
				6.5	Middle	3.3	29.3	29.3	8.0	8.0	21.1	21.1	91.5	91.5	6.2	6.2	6.3	2.6	2.7	2.7	3.3	3.1	3.6
					Bottom	5.5	29.3 29.3	29.3	8.0 8.0	8.0	21.1 21.4	21.3	91.4 91.5	91.2	6.2 6.2	6.2	6.2	2.7	2.7		2.9 5.9	5.9	
					Dottoiri	5.5	29.3	20.0	8.0	0.0	21.1	21.0	90.8	91.2	6.2	0.2	0.2	2.7	2.1		5.9	5.5	

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Water Quality Monitoring Results at SR10A - Mid-EbbTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	F	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ed Oxygen	(mg/L)	Т	urbidity(NT	J)	Suspe	nded Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
22-Sep-14	Sunny	Moderate	11:06		Surface	1.0	28.5 28.5	28.5	8.2 8.2	8.2	31.4 31.4	31.4	76.6 78.4	77.5	5.0 5.1	5.1	5.1	3.6 3.7	3.7		5.6 5.7	5.7	
				6.4	Middle	3.2	28.5 28.4	28.4	8.2 8.2	8.2	31.5 31.6	31.6	80.2 76.6	78.4	5.2 5.0	5.1	5.1	3.9 3.5	3.7	3.7	5.7 5.3	5.5	6.5
					Bottom	5.4	28.4 28.4	28.4	8.2 8.2	8.2	31.7 31.6	31.6	77.1 80.4	78.8	5.0 5.3	5.1	5.1	3.6 3.9	3.8		8.2 8.5	8.4	
24-Sep-14	Sunny	Moderate	12:17		Surface	1.0	29.1 29.1	29.1	7.3 7.4	7.3	30.0 30.0	30.0	88.3 88.9	88.6	5.8 5.8	5.8	5.8	4.2 4.3	4.3		6.5 6.3	6.4	
				6.5	Middle	3.3	28.9 28.9	28.9	7.3 7.3	7.3	30.2 30.1	30.2	87.5 88.2	87.9	5.7 5.8	5.7	0.0	4.5 4.6	4.6	4.5	7.2 6.7	7.0	7.1
					Bottom	5.5	28.9 28.9	28.9	7.3 7.3	7.3	30.2 30.2	30.2	89.2 88.3	88.8	5.8 5.8	5.8	5.8	4.5 4.5	4.5		7.9 8.1	8.0	
26-Sep-14	Fine	Moderate	14:53		Surface	1.0	29.6 29.8	29.7	7.6 7.6	7.6	28.4 28.5	28.5	87.5 97.2	92.4	5.7 6.3	6.0	5.9	5.0 5.1	5.1		2.6 2.7	2.7	
				6.6	Middle	3.3	29.6 29.5	29.6	7.6 7.6	7.6	28.6 28.6	28.6	86.7 92.7	89.7	5.6 6.0	5.8	3.9	5.3 5.1	5.2	5.2	3.9 3.9	3.9	3.7
					Bottom	5.6	29.6 29.5	29.5	7.6 7.5	7.6	28.6 28.7	28.6	86.4 90.1	88.3	5.6 5.9	5.7	5.7	5.3 5.4	5.4		4.6 4.3	4.5	ļ
29-Sep-14	Sunny	Moderate	16:21		Surface	1.0	29.9 29.8	29.8	7.6 7.5	7.5	27.4 28.0	27.7	80.7 80.0	80.4	5.3 5.2	5.2	5.2	4.4 4.5	4.5		4.5 4.4	4.5	
				6.6	Middle	3.3	29.6 29.6	29.6	7.6 7.5	7.5	28.4 28.5	28.4	77.2 78.2	77.7	5.0 5.1	5.1	3.2	4.4 4.3	4.4	4.4	4.3 4.6	4.5	5.0
					Bottom	5.6	29.4 29.4	29.4	7.5 7.4	7.5	29.5 29.6	29.5	77.0 78.6	77.8	5.0 5.1	5.1	5.1	4.4 4.4	4.4		5.9 6.2	6.1	
1-Oct-14	0	0	0		Surface	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	_	0.0 0.0	0.0	
				1.0	Middle	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	0.0
					Bottom	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0	0.0		0.0 0.0	0.0	

Remarks:

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

- DA: Depth-Averaged
- ** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
- *** Cancelled due to Thunderstorm Warning and safety concern.

Water Quality Monitoring Results at SR10A - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Sampl	ling	Tempera	ature (°C)	p	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissolv	ed Oxyger	(mg/L)	Т	urbidity(NT	J)	Suspe	nded Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
1-Sep-14	Sunny	Moderate	10:18		Surface	1.0	27.0 27.9	27.4	7.9 7.8	7.9	28.7 24.7	26.7	78.0 77.6	77.8	5.3 5.3	5.3		5.7 5.2	5.5		7.1 6.6	6.9	1
				6.7	Middle	3.4	27.0 27.0	27.0	7.9 7.9	7.9	28.8 27.6	28.2	74.3 73.5	73.9	5.1 5.0	5.0	5.2	5.7 5.6	5.7	5.5	8.1 7.6	7.9	8.1
					Bottom	5.7	26.9 27.0	27.0	7.9 7.9	7.9	28.8 28.7	28.8	72.8 73.2	73.0	5.0 5.0	5.0	5.0	5.5 5.1	5.3		9.3 9.8	9.6	
3-Sep-14	Sunny	Moderate	15:42		Surface	1.0	28.1	28.1	8.1	8.1	26.8	26.8	77.5	76.8	5.3	5.2		2.5	2.6		1.1	1.0	
				6.6	Middle	3.3	28.1 27.9	27.9	8.1 8.0	8.1	26.8 27.5	27.4	76.1 76.6	76.0	5.1 5.2	5.1	5.2	2.6	2.6	2.6	0.9 1.0	1.2	1.7
				0.0			28.0 27.8		8.1 8.0		27.2 27.9		75.4 70.9		5.1 4.8		4.7	2.6 2.5	-	2.0	1.3 2.6		'./
5-Sep-14	Sunny	Moderate	17:51		Bottom	5.6	27.8 27.8	27.8	8.0 8.1	8.0	28.0 27.9	28.0	69.9 76.7	70.4	4.7 5.2	4.7	4.7	2.6	2.6		2.9 4.0	2.8	
3-3ер-14	Suring	Moderate	17.51		Surface	1.0	27.8	27.8	8.1	8.1	28.0	28.0	76.1	76.4	5.1	5.1	5.1	3.1	3.1		3.9	4.0	
				6.4	Middle	3.2	27.6 27.6	27.6	8.0 8.1	8.1	28.9 28.8	28.9	75.1 75.6	75.4	5.0 5.1	5.1		3.3 3.3	3.3	3.2	4.1 4.4	4.3	4.4
					Bottom	5.4	27.6 27.5	27.5	8.1 8.0	8.0	28.9 29.1	29.0	74.7 74.6	74.7	5.0 5.0	5.0	5.0	3.1 3.3	3.2		4.7 4.9	4.8	
8-Sep-14	Cloudy	Moderate	19:13		Surface	1.0	28.7 28.6	28.7	8.1 8.1	8.1	26.5 26.5	26.5	88.5 88.5	88.5	5.6 5.6	5.6	5.6	8.2 8.1	8.2		7.4 8.3	7.9	
				6.8	Middle	3.4	28.6 28.6	28.6	8.1 8.1	8.1	26.6 26.6	26.6	88.5 88.4	88.5	5.6 5.6	5.6	5.0	8.2 8.3	8.3	8.4	7.8 9.3	8.6	9.4
					Bottom	5.8	28.6 28.6	28.6	8.1 8.1	8.1	26.5 26.6	26.6	88.2 88.1	88.2	5.6 5.6	5.6	5.6	8.5 8.7	8.6		12.0 11.2	11.6	
10-Sep-14	Sunny	Moderate	06:23		Surface	1.0	28.8 28.8	28.8	8.0 8.0	8.0	25.5 25.5	25.5	76.5 75.7	76.1	5.1 5.1	5.1		10.4	10.5		6.0	6.3	
				6.6	Middle	3.3	28.5	28.4	8.0	8.0	26.7	26.9	76.0	75.6	5.1	5.1	5.1	10.6	10.8	10.7	7.8	7.9	7.7
					Bottom	5.6	28.4 28.5	28.4	8.0	8.0	27.1 27.6	27.6	75.2 72.4	72.9	5.1 4.9	4.9	4.9	10.7 10.7	10.8		7.9 9.2	9.0	
12-Sep-14	Sunny	Moderate	07:55		Surface	1.0	28.3 29.2	29.2	8.0	8.0	27.6 25.2	25.1	73.3 80.6	81.3	4.9 5.4	5.4		7.6	7.6		8.7 8.4	8.2	
							29.2 29.0		8.0 8.0		25.0 25.8		82.0 80.4		5.5 5.4		5.4	7.5 7.9		7.0	8.0 8.0		
				6.6	Middle	3.3	29.0 29.0	29.0	8.0 8.0	8.0	25.8 26.0	25.8	81.6 84.4	81.0	5.4 5.6	5.4		8.1 8.2	8.0	7.9	8.0 8.3	8.0	8.3
45 Con 44	C	Davish	40.57		Bottom	5.6	29.1	29.0	8.0 7.9	8.0	25.7 26.2	25.9	81.4 81.4	82.9	5.4 5.4	5.5	5.5	7.8	8.0		9.3	8.8]
15-Sep-14	Sunny	Rough	10:57		Surface	1.0	29.3	29.2	7.9	7.9	25.7	25.9	82.8	82.1	5.5	5.5	5.5	3.6	3.5		2.1	1.8	
				6.5	Middle	3.3	28.9 28.9	28.9	7.9 7.9	7.9	27.1 27.1	27.1	81.1 81.7	81.4	5.4 5.4	5.4		3.4 3.4	3.4	3.4	3.0 2.8	2.9	2.7
					Bottom	5.5	29.1 28.9	29.0	7.9 7.9	7.9	27.0 27.2	27.1	82.7 84.1	83.4	5.5 5.6	5.5	5.5	3.4 3.4	3.4		3.4 3.3	3.4	
17-Sep-14	Cloudy	Moderate	20:52		Surface	1.0	28.4 28.4	28.4	8.1 8.1	8.1	28.8 28.9	28.9	81.1 79.6	80.4	5.4 5.3	5.3	5.0	3.3 3.2	3.3		3.6 3.4	3.5	
				6.5	Middle	3.3	28.3 28.3	28.3	8.1 8.1	8.1	29.4 29.3	29.3	77.9 78.7	78.3	5.2 5.2	5.2	5.3	3.5 3.6	3.6	3.5	4.1	3.9	3.9
					Bottom	5.5	28.3 28.2	28.3	8.1 8.1	8.1	29.4 29.6	29.5	80.7 80.7	80.7	5.3	5.3	5.3	3.5 3.6	3.6		4.4	4.2	
19-Sep-14	Sunny	Moderate	17:51		Surface	1.0	29.0	29.0	8.0	8.1	26.6	26.7	81.4	80.9	5.4	5.4		3.9	3.8		2.4	2.4	
				6.7	Middle	3.4	29.0 28.8	28.8	8.1 8.1	8.1	26.9 28.2	28.2	80.4 79.1	81.0	5.3 5.2	5.3	5.4	3.7 4.5	4.6	4.8	2.4	2.8	3.0
				0.7			28.8 28.9	28.8	8.0 8.1	8.0	28.2 28.3	28.4	82.8 80.2	83.8	5.5 5.3		5.5	4.7 5.8	6.0	7.0	3.0 4.2	3.9	0.0
					Bottom	5.7	28.8	∠ర.ర	8.0	ö.U	28.5	∠ర.4	87.3	გ ქ.გ	5.8	5.5	5.5	6.1	0.0		3.6	3.9	

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

Water Quality Monitoring Results at SR10A - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Temper	ature (°C)	ı	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ed Oxygen	(mg/L)	Т	urbidity(NT	J)	Suspe	nded Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
22-Sep-14	Sunny	Moderate	19:04		Surface	1.0	28.6 28.6	28.6	8.2 8.3	8.3	30.6 30.7	30.7	87.8 85.5	86.7	5.7 5.6	5.7	5.7	3.2 3.5	3.4		5.6 5.1	5.4	
				6.5	Middle	3.3	28.5 28.6	28.6	8.2 8.2	8.2	30.9 30.8	30.9	85.5 88.5	87.0	5.6 5.8	5.7	0.7	3.9 3.3	3.6	3.5	6.4 6.6	6.5	6.7
					Bottom	5.5	28.6 28.6	28.6	8.2 8.2	8.2	30.8 31.0	30.9	87.9 86.6	87.3	5.7 5.7	5.7	5.7	3.5 3.7	3.6		8.3 8.1	8.2	
24-Sep-14	Fine	Moderate	20:10		Surface	1.0	28.8 28.8	28.8	7.8 7.8	7.8	29.7 29.5	29.6	83.5 82.9	83.2	5.5 5.4	5.5	5.5	10.3 10.2	10.3		6.8 6.5	6.7	
				6.5	Middle	3.3	28.7 28.7	28.7	7.7 7.7	7.7	30.0 30.3	30.1	83.8 82.8	83.3	5.5 5.4	5.4	3.3	10.4 10.4	10.4	10.4	10.2 10.5	10.4	9.8
					Bottom	5.5	28.7 28.8	28.7	7.6 7.7	7.6	30.8 29.9	30.3	86.7 83.3	85.0	5.7 5.5	5.6	5.6	10.5 10.5	10.5		12.2 12.3	12.3	
26-Sep-14	Sunny	Moderate	06:54		Surface	1.0	29.0 29.0	29.0	7.4 7.4	7.4	26.3 26.3	26.3	83.0 87.6	85.3	5.5 5.8	5.7	5.7	6.0 6.3	6.2		6.0 6.2	6.1	
				6.1	Middle	3.1	29.0 29.0	29.0	7.4 7.3	7.3	26.4 26.5	26.4	82.6 85.4	84.0	5.5 5.7	5.6	5.7	6.2 6.6	6.4	6.4	6.2 5.6	5.9	6.1
					Bottom	5.1	29.0 29.0	29.0	7.3 7.3	7.3	26.7 26.5	26.6	82.6 84.0	83.3	5.5 5.6	5.5	5.5	6.3 6.6	6.5		6.2 6.4	6.3	
29-Sep-14	Sunny	Moderate	09:28		Surface	1.0	29.5 29.5	29.5	7.6 7.6	7.6	26.4 26.3	26.4	77.1 77.0	77.1	5.1 5.1	5.1	5.1	6.3 6.9	6.6		6.6 6.2	6.4	
				6.8	Middle	3.4	29.3 29.3	29.3	7.6 7.6	7.6	27.6 27.7	27.7	76.3 76.8	76.6	5.0 5.1	5.0	5.1	7.9 8.1	8.0	7.5	6.4 6.8	6.6	6.6
					Bottom	5.8	29.3 29.3	29.3	7.6 7.6	7.6	28.0 28.0	28.0	76.4 76.6	76.5	5.0 5.0	5.0	5.0	7.7 8.1	7.9		7.2 6.5	6.9	
1-Oct-14	0	0	0		Surface	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	_	0.0 0.0	0.0	
				1.0	Middle	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	0.0
					Bottom	0.0	0.0 0.0	0.0	0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0		0.0 0.0	0.0	

Remarks:

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

- DA: Depth-Averaged
- ** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
- *** Cancelled due to Thunderstorm Warning and safety concern.

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

Date	Weather	Sea	Sampling	Water	Samp	ling	Temper	ature (°C)	F	Н	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	Т	urbidity(NTl	J)	Suspe	nded Solids	s (mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
1-Sep-14	Sunny	Moderate	17:46		Surface	1.0	28.0 27.8	27.9	8.1 8.1	8.1	27.4 27.7	27.5	79.4 78.0	78.7	5.3 5.3	5.3		2.2 2.4	2.3		2.6 2.7	2.7	
				5.2	Middle	-	-	-	-	-	-	-	-	-	-	-	5.3	-	-	2.5	-	-	3.7
					Bottom	4.2	27.8 27.7	27.7	8.1 8.0	8.0	27.8 28.0	27.9	78.4 78.2	78.3	5.3 5.3	5.3	5.3	2.7	2.7		4.9 4.3	4.6	
3-Sep-14	Sunny	Moderate	05:52		Surface	1.0	28.4	28.4	7.8	7.9	23.2	23.3	75.5	74.9	5.2	5.1		2.4	2.4		1.8	1.9	
				5.0		1.0	28.4		7.9		23.4		74.2		5.1	5.1	5.1	2.4	2.4	0.4	1.9		
				5.3	Middle	-	28.3	-	7.8	-	23.3	-	76.8	-	5.3	-		2.4	-	2.4	2.4	-	2.3
5.00 44	0	Mar I	00.05		Bottom	4.3	28.3	28.3	7.9	7.9	23.6	23.5	74.2	75.5	5.1	5.2	5.2	2.3	2.4		2.7	2.6	
5-Sep-14	Sunny	Moderate	08:35		Surface	1.0	27.8 27.7	27.7	8.0 8.0	8.0	25.1 25.5	25.3	73.8 73.6	73.7	5.1 5.0	5.0	5.0	2.0 2.0	2.0		3.8 3.3	3.6	
				5.0	Middle	-	-	-	-	-		-		-		-		-	-	2.1	-	-	5.0
					Bottom	4.0	27.7 27.7	27.7	8.0 8.0	8.0	25.5 25.2	25.3	73.1 73.2	73.2	5.0 5.0	5.0	5.0	2.2 2.2	2.2		6.3 6.3	6.3	
8-Sep-14	Cloudy	Moderate	11:12		Surface	1.0	27.7 27.7	27.7	8.0 7.9	8.0	28.4 28.3	28.3	85.7 86.9	86.3	5.5 5.6	5.5		6.7 6.7	6.7		9.8 8.6	9.2	
				5.4	Middle	-	-	-	-	-	-	-	-	-	-	-	5.5	-	-	6.8	-	-	10.3
					Bottom	4.4	27.7 27.7	27.7	8.0 7.9	7.9	28.3	27.9	84.8 79.7	82.3	5.4 5.4	5.4	5.4	6.9 6.7	6.8		10.6	11.4	
10-Sep-14	Sunny	Moderate	14:30		Surface	1.0	29.8	29.8	8.0	8.0	25.5	25.5	79.5	79.2	5.3	5.3		4.7	4.7		5.5	6.1	
				5.2	Middle	_	29.8	_	8.0	_	25.5	_	78.9 -	_	5.2	_	5.3	4.6	_	4.7	6.6	_	6.3
				0.2	Bottom	4.2	29.6	29.7	8.0	8.0	25.7	25.6	78.6	78.9	5.2	5.2	5.2	4.6	4.6		7.0	6.5	
12-Sep-14	Sunny	Moderate	15:51				29.8 29.6		8.0		25.5 24.8		79.1 82.3		5.3 5.5		J.Z	4.5 7.3			6.0 10.9		
	,				Surface	1.0	29.5	29.6	8.0	8.0	24.9	24.9	81.3	81.8	5.4	5.4	5.4	7.5	7.4		10.7	10.8	
				5.1	Middle	-	- 29.2	-	8.0	-	26.0	-	- 79.7	-	5.3	-		- 8.1	-	7.7	10.1	-	10.8
					Bottom	4.1	29.2	29.2	8.0	8.0	26.1	26.1	80.2	80.0	5.3	5.3	5.3	7.9	8.0		11.4	10.8	
15-Sep-14 ***	-	-	-		Surface	-	-	-	-	-	-	-	-	-	-	-	_	-	-		-	-	
				-	Middle	1	-	-		-		-		-		-		-	-	=	-	-	=
					Bottom	-	-	-		-		-		-		-	-	-	-		-	-	
17-Sep-14	Cloudy	Moderate	06:01		Surface	1.0	28.1 28.1	28.1	8.1 8.1	8.1	29.5 29.5	29.5	77.9 79.4	78.7	5.2 5.3	5.2		6.2 5.8	6.0		7.9 8.6	8.3	
				5.1	Middle	-	-	-	-	-	-	-	-	-	-	-	5.2	-	-	6.1	-	-	8.6
					Bottom	4.1	28.1	28.1	8.1	8.1	29.5	29.5	82.0	80.2	5.4	5.3	5.3	6.2	6.2		9.2	8.9	1
19-Sep-14	Sunny	Moderate	08:40		Surface	1.0	28.1	29.1	8.0	8.0	29.5 22.0	22.0	78.3 90.3	93.7	5.2 6.1	6.4		3.5	3.4		5.4 5.4	5.4	
				5.0	Middle		29.1		8.0	-	22.1	-	97.0	-	6.6		6.4	3.3	-	3.4	5.3	-	5.6
				3.0		4.0	29.0	29.0	7.9	8.0	22.4	22.8	88.4	90.4	6.0	6.1	6.1	3.2	3.3	5.4	5.8	5.7	3.0
					Bottom	4.0	29.1	29.0	8.0	8.0	23.2	22.8	92.4	90.4	6.3	6.1	0.1	3.4	3.3		5.6	5./	

^{**} Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
*** Cancelled due to Thunderstorm Warning and safety concern.

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

Date	Weather	Sea	Sampling	Water	Samp	ling	Temper	ature (°C)		ρΗ	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ved Oxygen	(mg/L)	1	urbidity(NT	J)	Susper	nded Solids	(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*
22-Sep-14	Sunny	Moderate	10:48		Surface	1.0	28.5 28.5	28.5	8.2 8.2	8.2	31.6 31.5	31.6	80.0 77.8	78.9	5.2 5.1	5.1	5.1	4.2 4.5	4.4		10.2 10.5	10.4	
				5.0	Middle	-	-	-	-	-	-	-	-	-	-	-	0.1	-	-	4.5	-	-	11.1
					Bottom	4.0	28.5 28.5	28.5	8.2 8.2	8.2	31.6 31.6	31.6	78.3 82.5	80.4	5.1 5.4	5.2	5.2	4.3 4.6	4.5		12.1 11.2	11.7	
24-Sep-14	Sunny	Moderate	12:11		Surface	1.0	28.7 28.7	28.7	7.3 7.3	7.3	30.4 30.5	30.5	84.6 82.8	83.7	5.5 5.4	5.5	5.5	6.8 6.9	6.9		10.7 11.1	10.9	
				5.1	Middle	1		-		-		-	-	-		-	3.3	-	-	7.0		-	11.9
					Bottom	4.1	28.8 28.8	28.8	7.4 7.3	7.3	30.5 30.3	30.4	83.3 86.8	85.1	5.4 5.7	5.6	5.6	7.1 6.9	7.0		12.7 13.0	12.9	
26-Sep-14	Fine	Moderate	15:02		Surface	1.0	29.8 29.6	29.7	7.6 7.6	7.6	28.2 28.3	28.3	87.9 89.6	88.8	5.7 5.8	5.8	5.8	5.0 5.0	5.0		2.9 2.6	2.8	
				5.0	Middle	-	-	-	-	-	-	-	-	-	-	-	5.0	-	-	5.1	-	-	4.6
					Bottom	4.0	29.3 29.9	29.6	7.6 7.6	7.6	29.0 28.1	28.6	86.9 87.5	87.2	5.7 5.7	5.7	5.7	5.1 5.3	5.2		6.1 6.5	6.3	
29-Sep-14	Sunny	Moderate	16:34		Surface	1.0	29.7 29.8	29.8	7.6 7.6	7.6	27.3 27.1	27.2	78.8 79.8	79.3	5.2 5.2	5.2	5.2	4.1 3.9	4.0		6.0 6.9	6.5	
				5.2	Middle	-		-		-		-	-	-		-	3.2	-	-	4.0		-	7.6
					Bottom	4.2	29.5 29.4	29.4	7.6 7.6	7.6	29.0 29.2	29.1	79.0 78.9	79.0	5.1 5.1	5.1	5.1	3.9 3.9	3.9		8.4 8.8	8.6	
1-Oct-14	0	0	0		Surface	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	_	0.0 0.0	0.0	
				1.0	Middle	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	0.0
					Bottom	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0		0.0 0.0	0.0	

Remarks:

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

- DA: Depth-Averaged
- ** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
- *** Cancelled due to Thunderstorm Warning and safety concern.

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

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	ŗ	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-Sep-14	Sunny	Moderate	10:05		Surface	1.0	27.1 27.0	27.1	7.8 7.8	7.8	28.2 27.9	28.0	76.3 78.2	77.3	5.2 5.3	5.3		4.2 4.1	4.2		3.2 3.9	3.6	
				5.2	Middle	-	-	-	-	-	-	-	-	-	-	-	5.3	-	-	4.1	-	-	4.1
					Bottom	4.2	27.1	27.1	7.8	7.8	28.1	27.7	76.8	76.2	5.2	5.2	5.2	4.0	3.9		4.5	4.5	1
3-Sep-14	Sunny	Moderate	15:51				27.1 28.0		7.8 8.1	1	27.4 27.0		75.5 77.3		5.1 5.2			3.7 2.2		l I	4.5 1.0		
3-0ep-14	Guilly	Woderate	13.51		Surface	1.0	28.0	28.0	8.1	8.1	27.0	27.0	76.9	77.1	5.2	5.2	5.2	2.2	2.2		1.2	1.1	
				5.2	Middle	-	-	-	-	-	-	-	-	-	-	-		-	-	2.2	-	-	1.5
					Bottom	4.2	27.7 27.9	27.8	8.1 8.1	8.1	27.9 27.8	27.8	75.8 75.5	75.7	5.1 5.1	5.1	5.1	2.2 2.1	2.2		2.0 1.6	1.8	
5-Sep-14	Sunny	Moderate	18:06		Surface	1.0	27.8 27.8	27.8	8.1 8.1	8.1	28.1 28.2	28.1	75.8 76.1	76.0	5.1 5.1	5.1	5.1	3.2 3.2	3.2		4.0 3.9	4.0	ļ
				5.2	Middle		-	-	-	-	-	-	-	-	-	-	3.1	-	-	3.3	-	-	4.2
					Bottom	4.2	27.7 27.6	27.7	8.1 8.1	8.1	28.5 28.9	28.7	74.8 73.7	74.3	5.0 5.0	5.0	5.0	3.2	3.3		4.2 4.3	4.3	ļ
8-Sep-14	Cloudy	Moderate	19:22		Surface	1.0	28.6 28.6	28.6	8.1 8.1	8.1	26.6 26.6	26.6	87.7 87.7	87.7	5.6 5.6	5.6		8.6 8.8	8.7		11.2 11.1	11.2	
				4.6	Middle	-	-	-	-	-	-	-	-	-	-	-	5.6	-	-	8.9	-	-	11.5
					Bottom	3.6	28.6	28.6	8.1	8.1	26.6	26.6	87.5	87.6	5.6	5.6	5.6	9.0	9.0		10.9	11.8	
10-Sep-14	Sunny	Moderate	06:18		Surface	1.0	28.6 28.1	28.1	8.1 8.0	8.0	26.6 27.9	27.9	87.6 74.6	74.5	5.6 5.1	5.0		8.9 15.1	15.0		12.7 22.3	22.5	
				5.1		1.0	28.1	20.1	8.0	0.0	27.9	21.5	74.4	74.5	5.0	5.0	5.0	14.8	-	15.0	22.6	-	22.3
				5.1	Middle	-	28.1		8.0		27.9		73.0		5.0	-		- 15.1		15.0	21.4		22.3
40.00	0	Madagata	07.44		Bottom	4.1	28.1	28.1	8.0	8.0	27.9	27.9	71.6	72.3	4.8	4.9	4.9	14.9	15.0		22.8	22.1	
12-Sep-14	Sunny	Moderate	07:41		Surface	1.0	28.3 28.3	28.3	8.0 8.0	8.0	27.7 27.2	27.5	79.9 75.3	77.6	5.4 5.0	5.2	5.2	13.7 13.8	13.8		22.0 23.7	22.9	
				5.2	Middle	-	-	-	-	-		-	-	-		-		-	-	13.7	-	-	24.5
					Bottom	4.2	28.3 28.3	28.3	8.0 7.9	7.9	27.6 26.6	27.1	73.4 72.8	73.1	4.9 4.9	4.9	4.9	13.9 13.1	13.5		25.8 26.1	26.0	ļ
15-Sep-14	Sunny	Rough	10:51		Surface	1.0	28.3 28.4	28.4	7.8 7.9	7.9	28.7 28.4	28.5	83.4 76.4	79.9	5.6 5.1	5.3		6.6 6.6	6.6		3.3 2.6	3.0	
				5.2	Middle	-	-	-	-	-	-	-	-	-	-	-	5.3	-	-	6.6	-	-	3.2
					Bottom	4.2	28.3 28.3	28.3	7.8 7.8	7.8	28.5 28.7	28.6	78.5 77.1	77.8	5.2 5.1	5.2	5.2	6.6 6.6	6.6		3.8	3.4	1
17-Sep-14	Cloudy	Moderate	21:00		Surface	1.0	28.4	28.4	8.1	8.1	28.8	28.8	82.0	82.1	5.4	5.4		3.2	3.3		7.2	7.5	
				5.1	Middle	_	28.4	_	8.1	_	28.9	_	82.2	_	5.5 -	_	5.4	3.3	_	3.3	7.8	_	7.6
					Bottom	4.1	28.3	28.3	8.1	8.1	29.3	29.2	81.6	82.4	5.4	5.5	5.5	3.3	3.3		7.6	7.6	''-
19-Sep-14	Sunny	Moderate	18:06			1.0	28.4 28.9	28.9	8.1 8.1	8.1	29.1 27.5	27.2	83.2 78.7	78.7	5.5 5.2		0.0	3.3			7.6 4.6		
	·				Surface	1.0	28.9		8.1		26.9	21.2	78.7	18.1	5.2	5.2	5.2	3.9	3.9		4.0	4.3	_
				5.3	Middle	-	-	-	-	-	28.0	-	-	-	-	-		- 5.4	-	4.8	6.0	-	5.0
					Bottom	4.3	28.9 28.8	28.8	8.1 8.1	8.1	28.0	28.2	78.7 78.5	78.6	5.2 5.2	5.2	5.2	5.4 5.8	5.6		5.4	5.7	

DA: Depth-Averaged

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

^{***} Cancelled due to Thunderstorm Warning and safety concern.

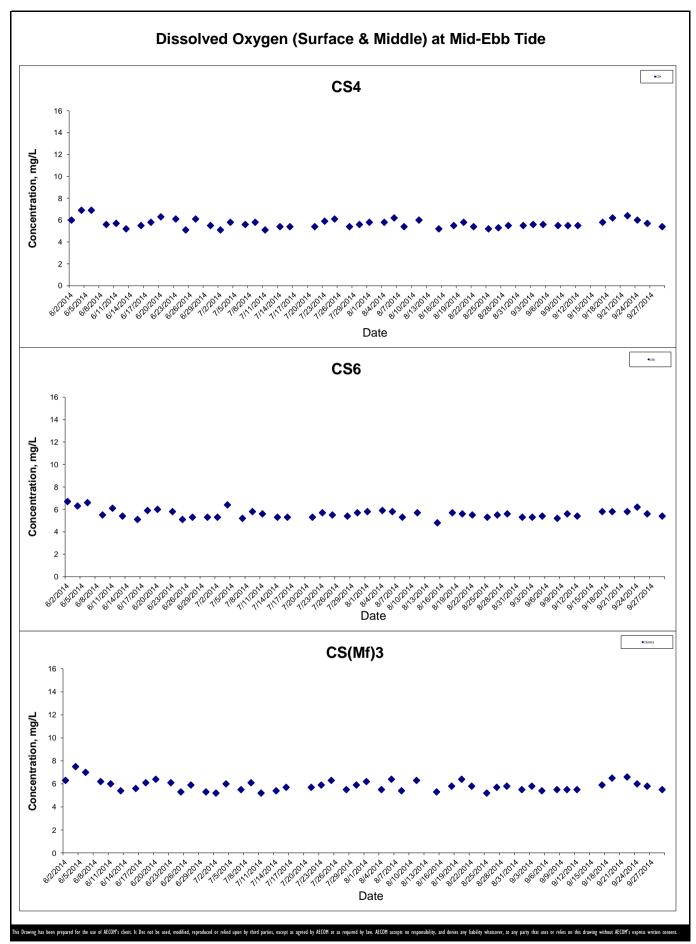
Water Quality Monitoring Results at SR10B(N) - Mid-FloodTide

Date	Weather	Sea	Sampling	Water	Samp	ling	Tempera	ature (°C)	ı	ЭΗ	Salini	ty (ppt)	DO Satu	ration (%)	Dissol	ed Oxygen	(mg/L)	1	urbidity(NTL	J)	Suspe	ended Solids	(mg/L)
	Condition	Condition**	Time	Depth (m)	Depth	(m)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	DA*	Value	Average	DA*	Value	Average	DA*
22-Sep-14	Sunny	Moderate	19:21		Surface	1.0	28.6 28.6	28.6	8.2 8.2	8.2	31.5 31.7	31.6	88.7 87.3	88.0	5.8 5.7	5.7	5.7	4.6 4.8	4.7		7.3 6.9	7.1	
				5.4	Middle	-	-	-	-	-	-	-	-	-	-	-	0.7	-	-	4.6	-	-	7.4
					Bottom	4.4	28.6 28.6	28.6	8.2 8.2	8.2	31.7 31.6	31.6	90.7 88.2	89.5	5.9 5.7	5.8	5.8	4.5 4.5	4.5		7.6 7.5	7.6	
24-Sep-14	Fine	Moderate	20:21		Surface	1.0	28.8 28.7	28.8	7.8 7.8	7.8	29.9 30.2	30.0	81.5 81.2	81.4	5.3 5.3	5.3	5.3	11.5 11.2	11.4		11.0 11.1	11.1	
				5.2	Middle	-	-	-	-	-	-	-	-	-	-	-	5.5	-	-	11.3	-	-	12.3
					Bottom	4.2	28.7 28.8	28.7	7.7 7.7	7.7	30.6 30.3	30.4	80.7 81.4	81.1	5.3 5.3	5.3	5.3	11.2 11.2	11.2		13.4 13.6	13.5	
26-Sep-14	Sunny	Moderate	06:49		Surface	1.0	28.8 28.8	28.8	7.4 7.5	7.5	28.9 28.5	28.7	78.9 81.2	80.1	5.2 5.4	5.3	5.3	11.4 11.6	11.5		19.8 20.5	20.2	
				5.2	Middle	-	-	-	-	-	-	-	-	-	-	-	5.5	-	-	11.7	-	-	21.4
					Bottom	4.2	28.8 28.8	28.8	7.4 7.4	7.4	26.0 28.8	27.4	80.4 78.1	79.3	5.3 5.1	5.2	5.2	12.0 11.8	11.9		22.2 22.7	22.5	
29-Sep-14	Sunny	Moderate	09:09		Surface	1.0	29.2 29.3	29.3	7.6 7.7	7.6	27.4 28.1	27.7	79.2 77.8	78.5	5.2 5.1	5.2	5.2	11.5 11.3	11.4		19.1 19.7	19.4	
				5.3	Middle	-	-	-	-	-	-	-	-	-	-	-	5.2	-	-	11.6	-	-	19.6
					Bottom	4.3	29.2 29.2	29.2	7.5 7.6	7.6	26.9 27.8	27.4	81.0 78.5	79.8	5.4 5.2	5.3	5.3	11.5 11.8	11.7		19.4 19.9	19.7	
1-Oct-14	0	0	0		Surface	0.0	0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0	0.0	
				1.0	Middle	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	0.0	0.0 0.0	0.0	0.0
					Bottom	0.0	0.0	0.0	0.0	0.0	0.0 0.0	0.0	0.0 0.0	0.0	0.0	0.0	0.0	0.0 0.0	0.0		0.0	0.0	

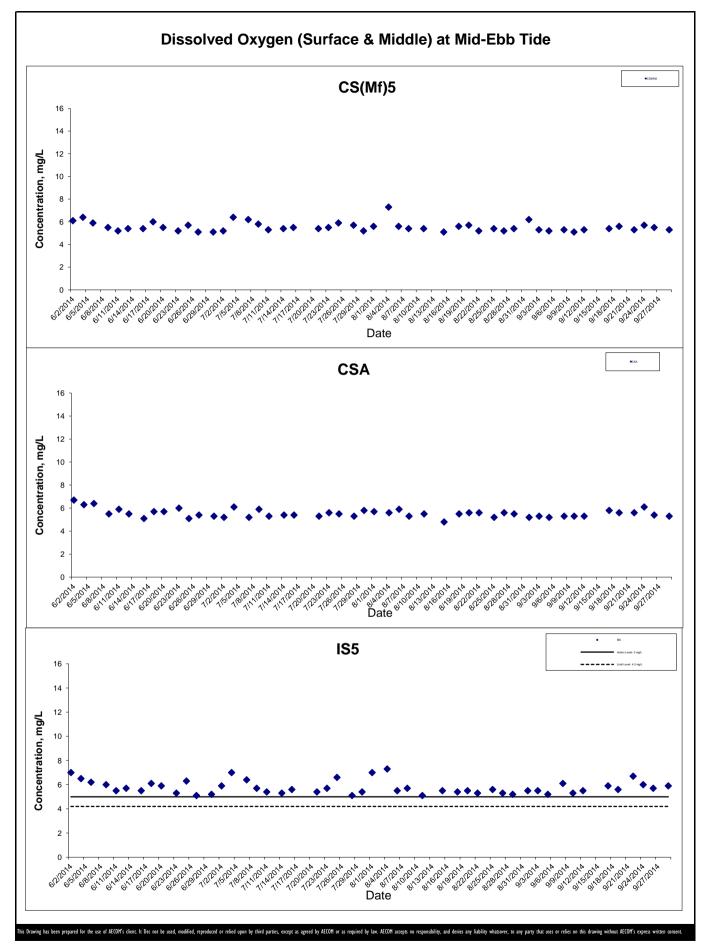
Remarks:

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

- DA: Depth-Averaged
- ** Calm: Small or no wave; Moderate: Between calm and rough; Rough: White capped or rougher
- *** Cancelled due to Thunderstorm Warning and safety concern.

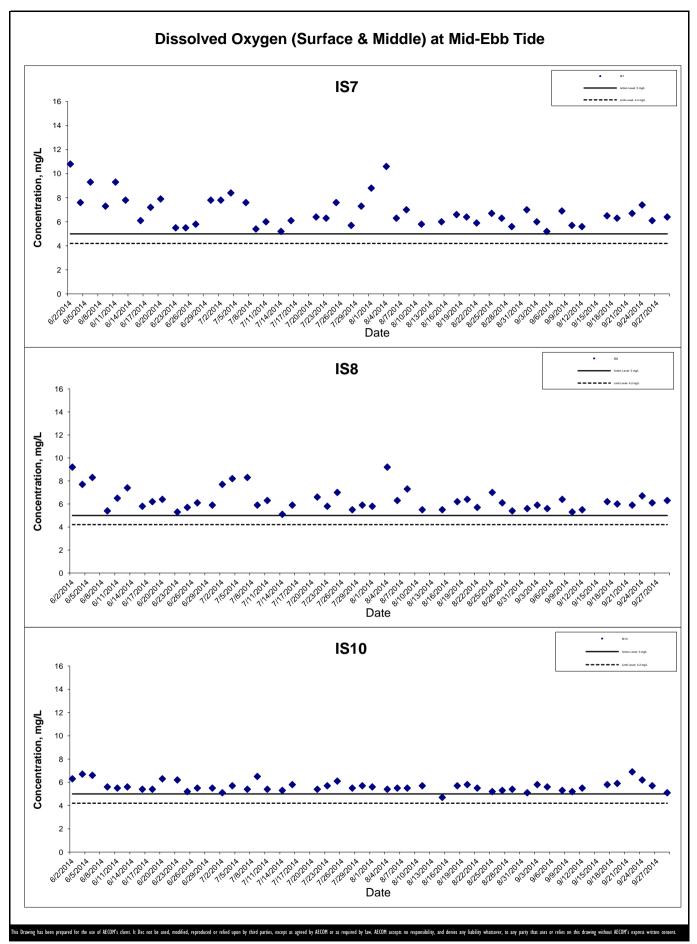


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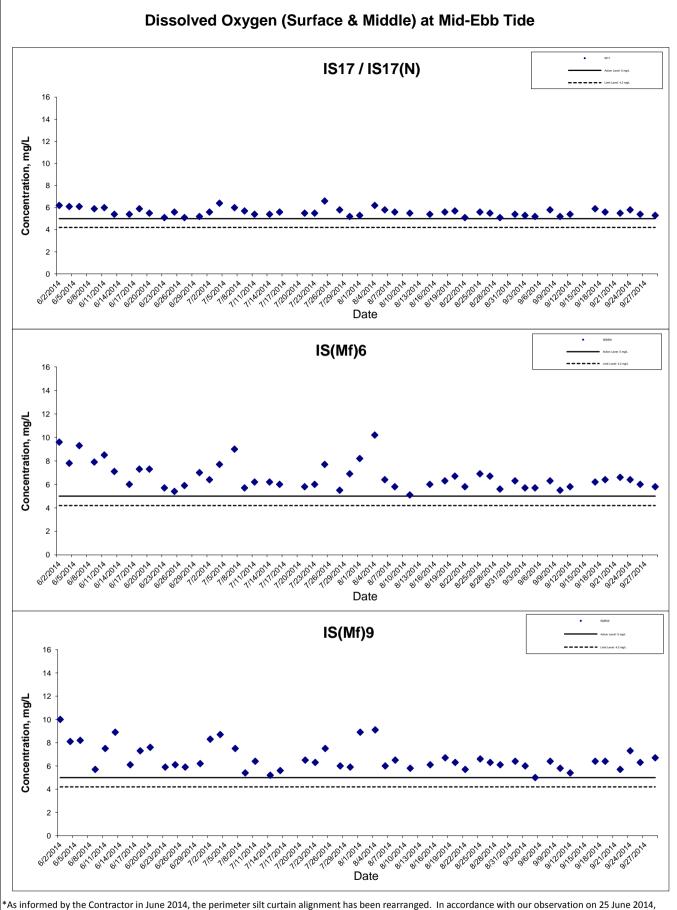


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*As informed by the Contractor in June 2014, the perimeter silt curtain alignment has been rearranged. In accordance with our observation on 25 June 2014 the original monitoring location of IS17 was no longer enclosed by the perimeter silt curtain. Therefore, IWQM work at the original monitoring location of IS17 has been resumed since 25 June 2014.

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HONG KONG BOUNDARY CROSSING FACILITIES

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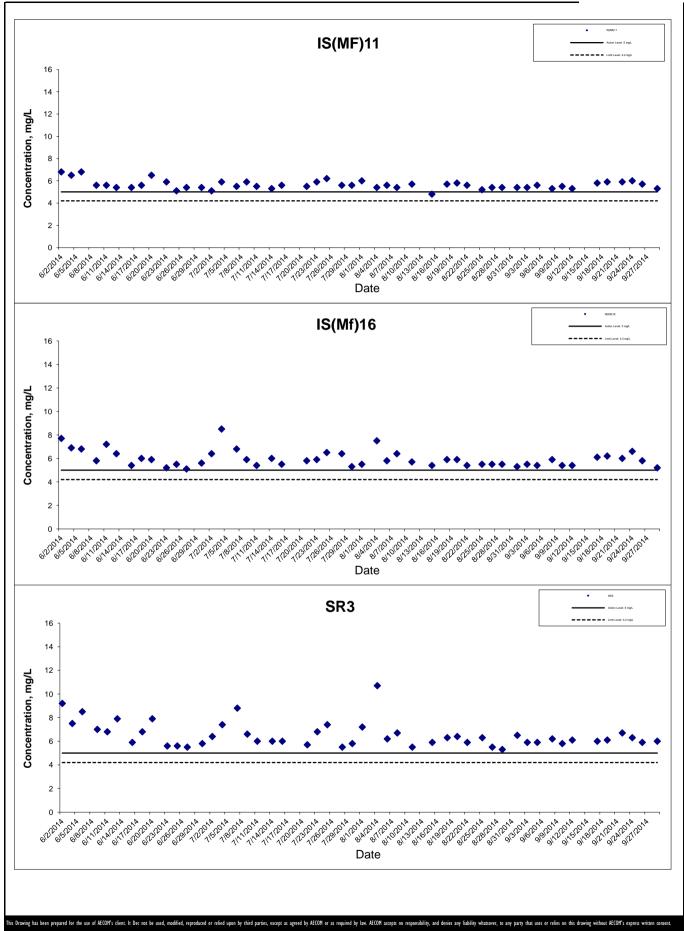
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Graphical Presentation of Impact Water Quality

Monitoring Results

Date: Oct 2014 Appendix J

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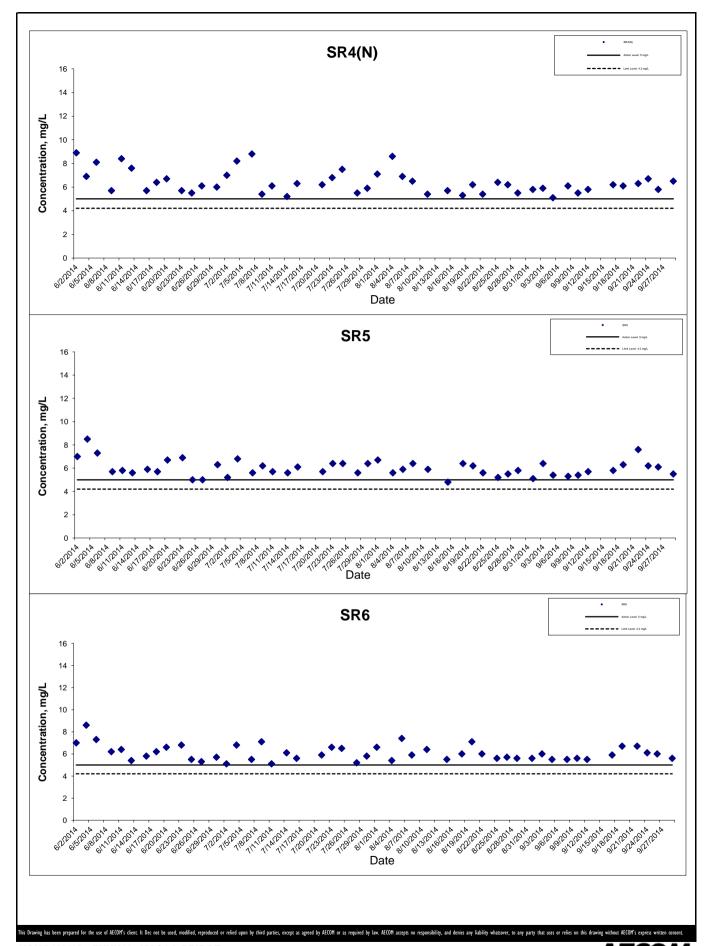
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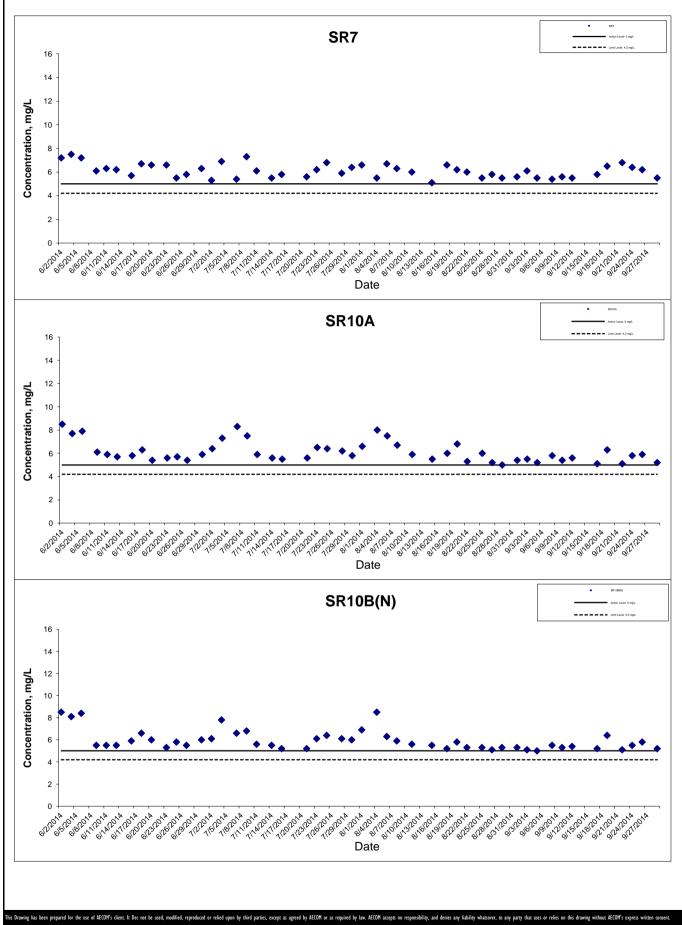
Monitoring Results
Date: Oct 2014



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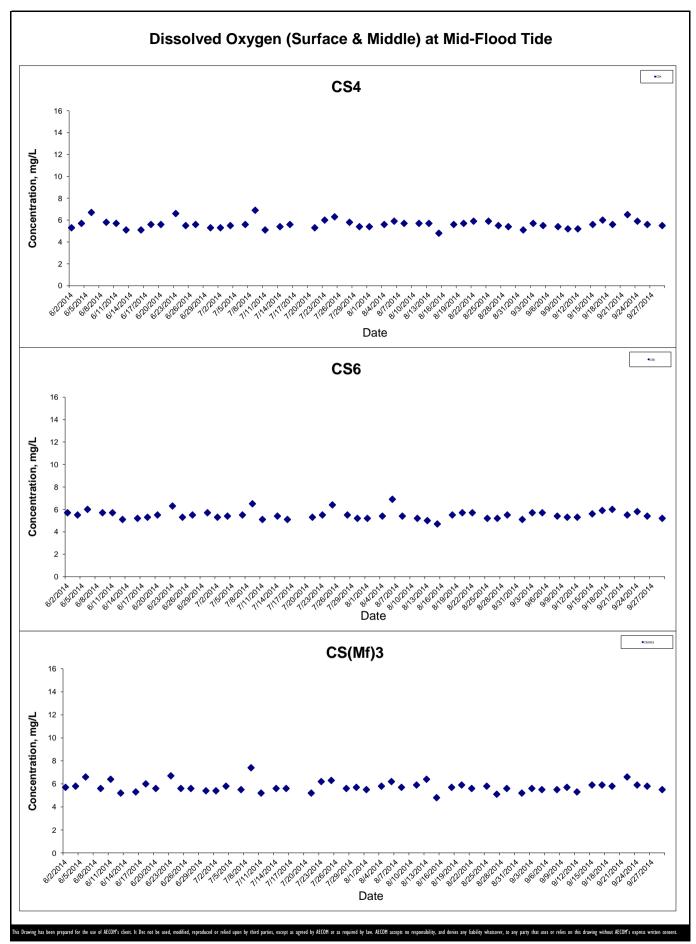
Monitoring Results



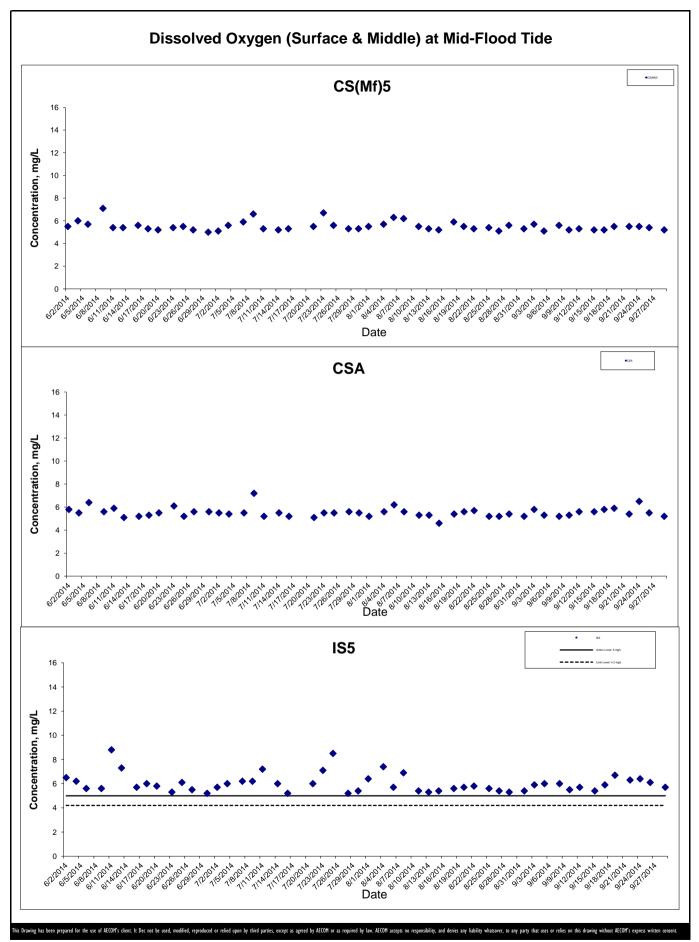
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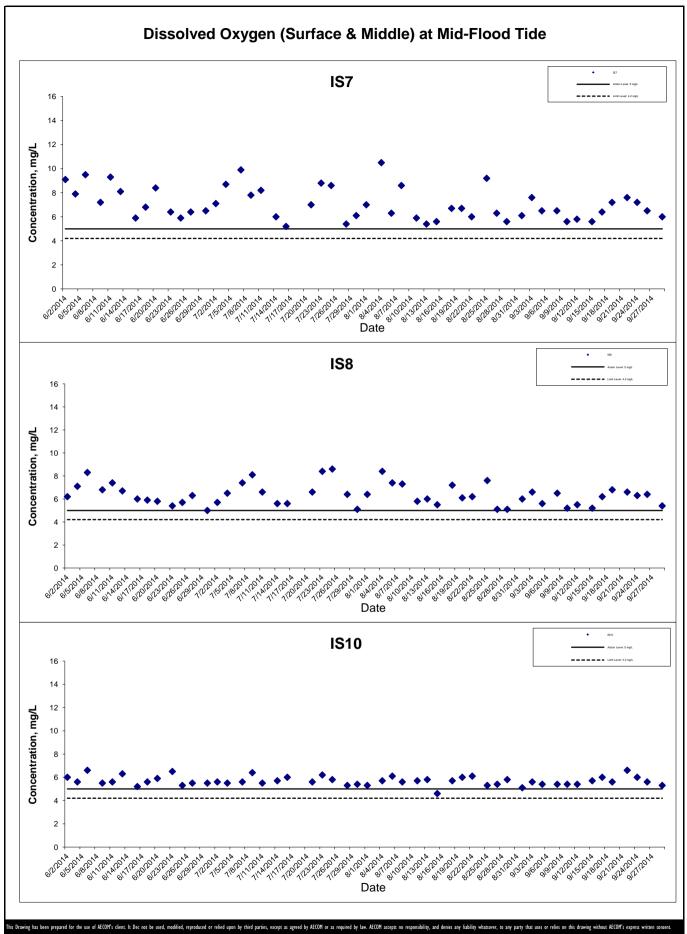
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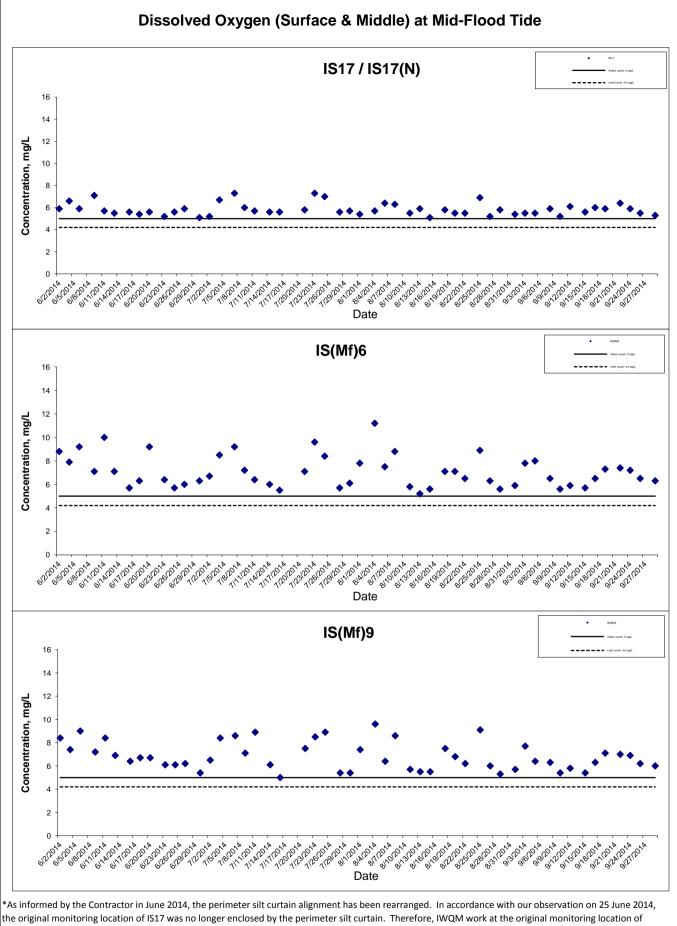
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IS17 has been resumed since 25 June 2014.

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Date: Oct 2014

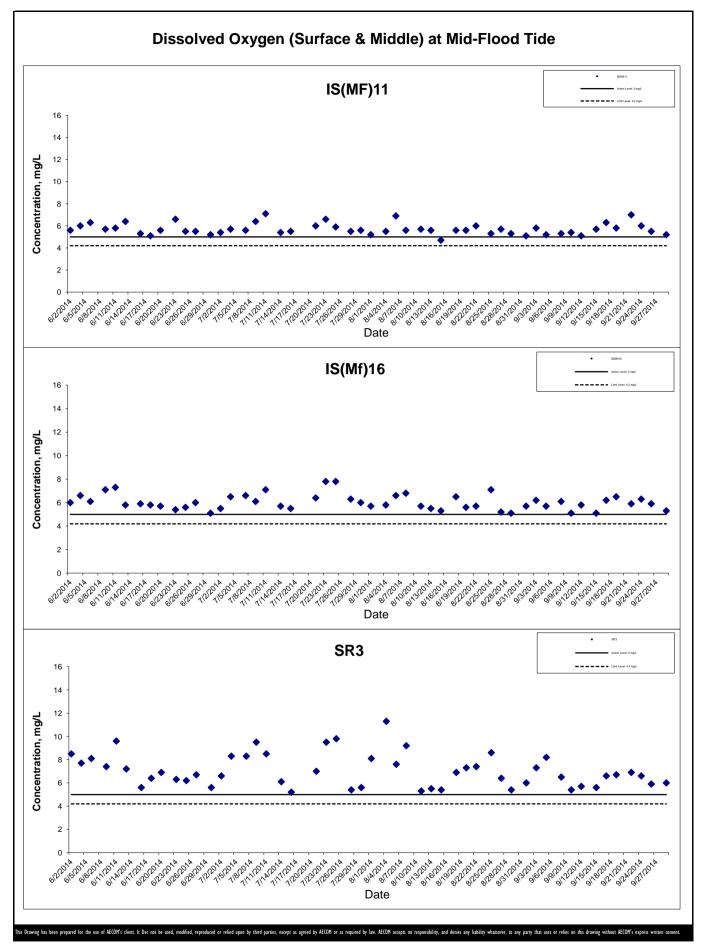
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Graphical Presentation of Impact Water Quality Monitoring Results

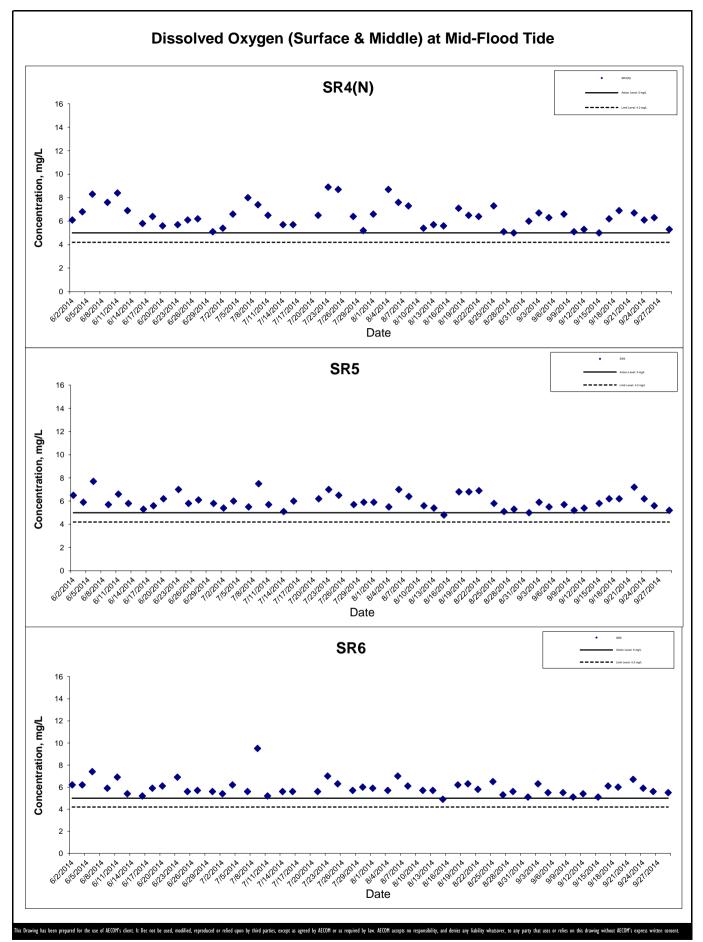


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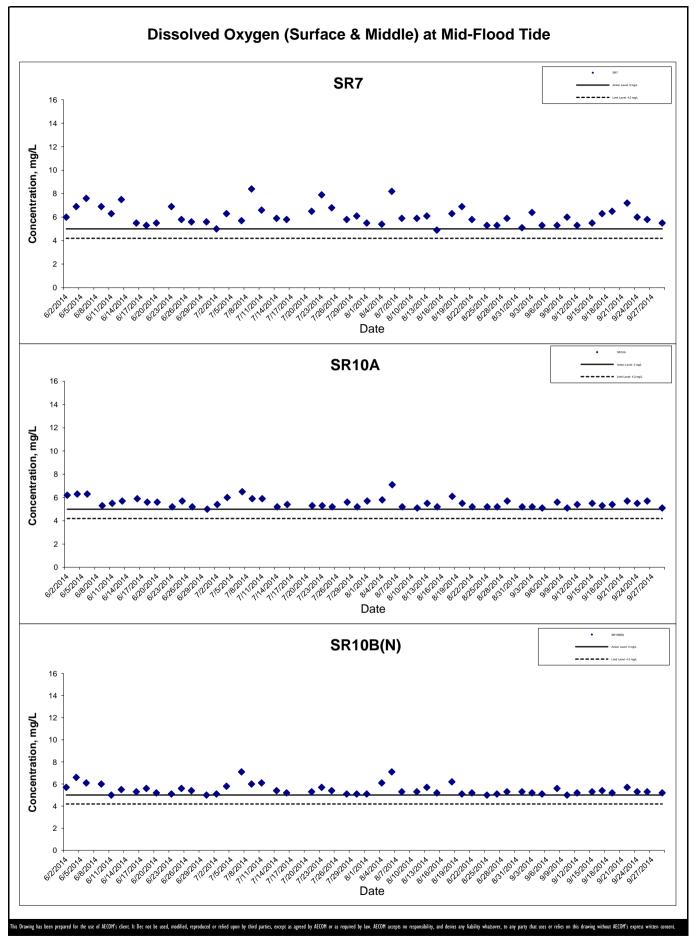
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HONG KONG BOUNDARY CROSSING FACILITIES
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Monitoring Results



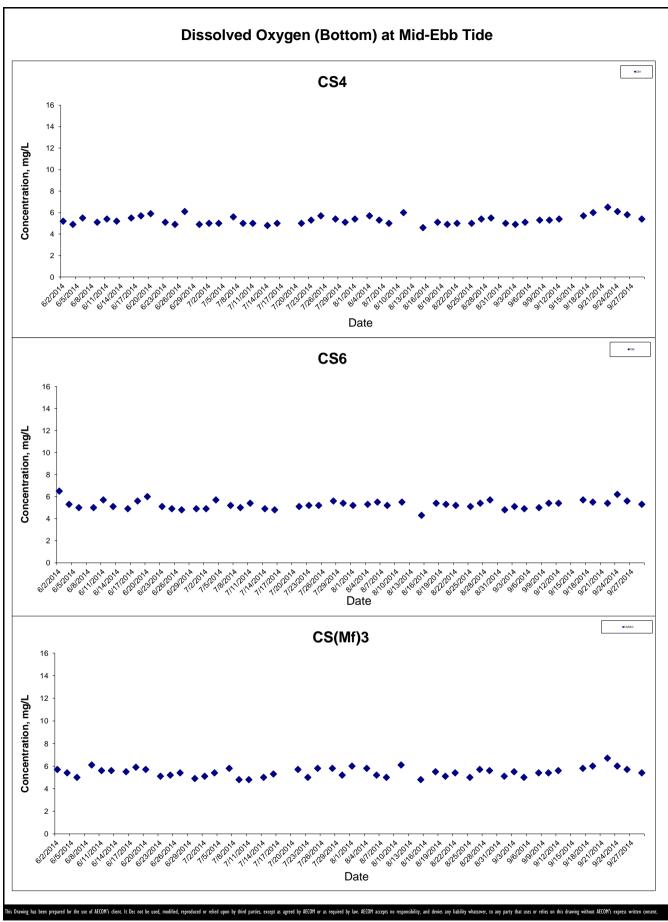
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HONG KONG BOUNDARY CROSSING FACILITIES
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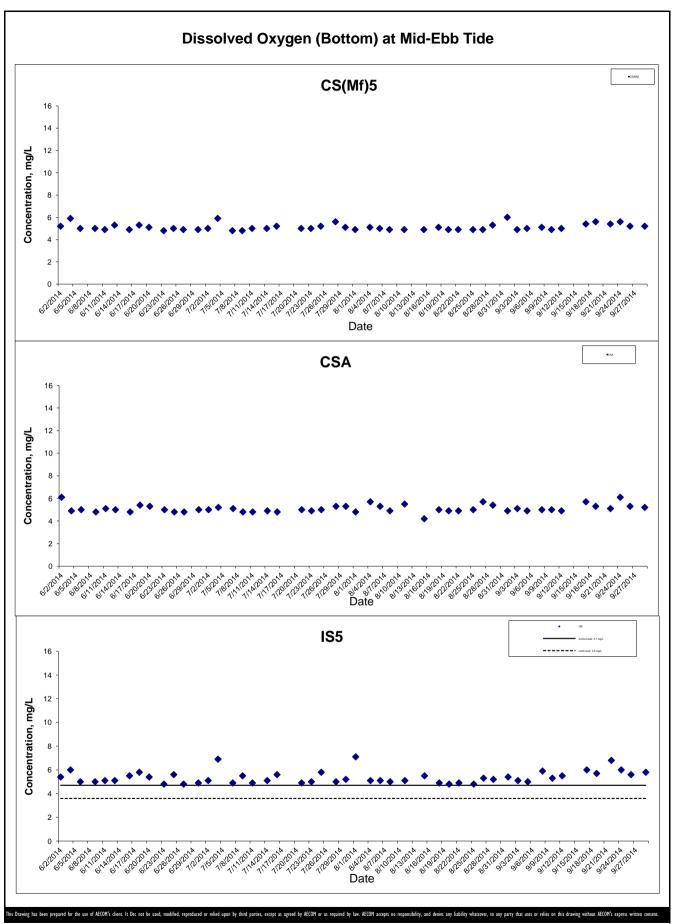
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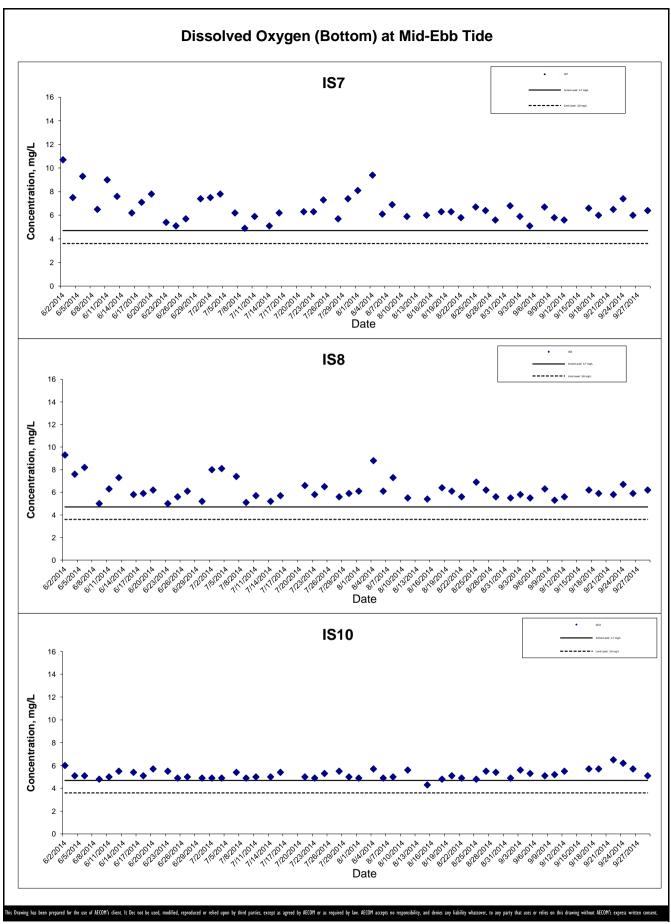
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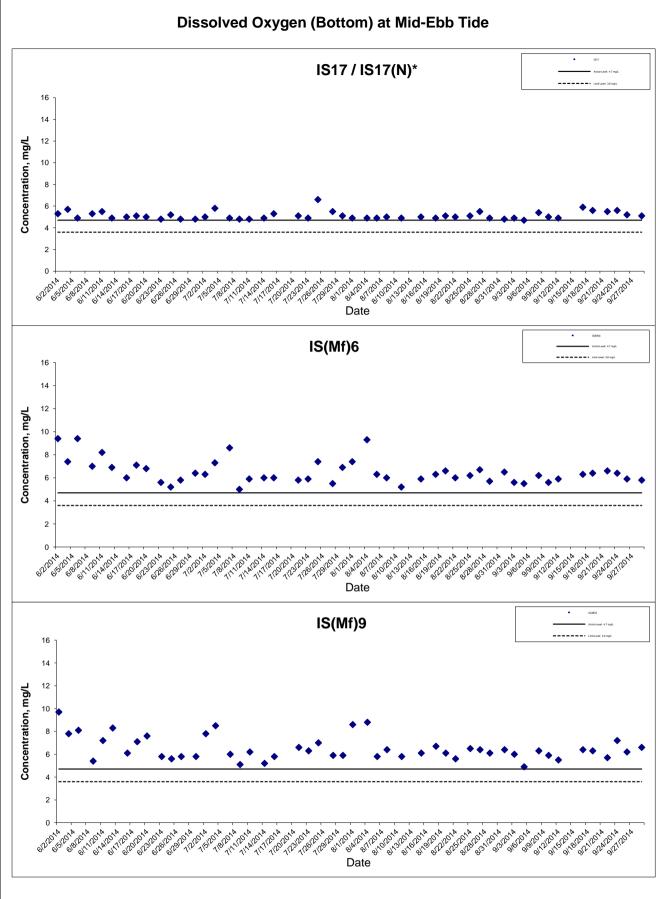
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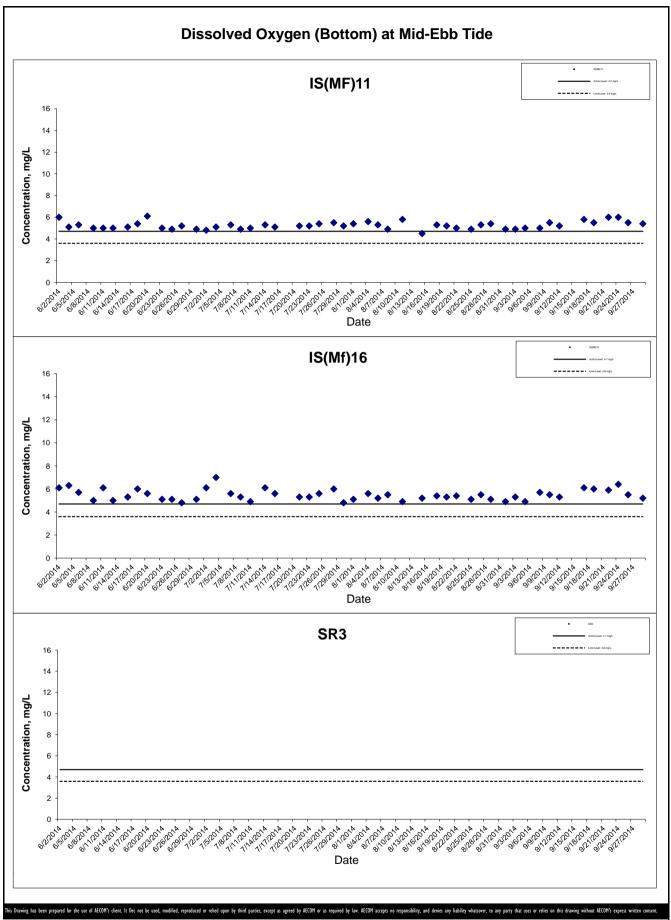
*As informed by the Contractor in June 2014, the perimeter silt curtain alignment has been rearranged. In accordance with our observation on 25 June 2014, the original monitoring location of IS17 was no longer enclosed by the perimeter silt curtain. Therefore, IWQM work at the original monitoring location of IS17 has been resumed since 25 June 2014.

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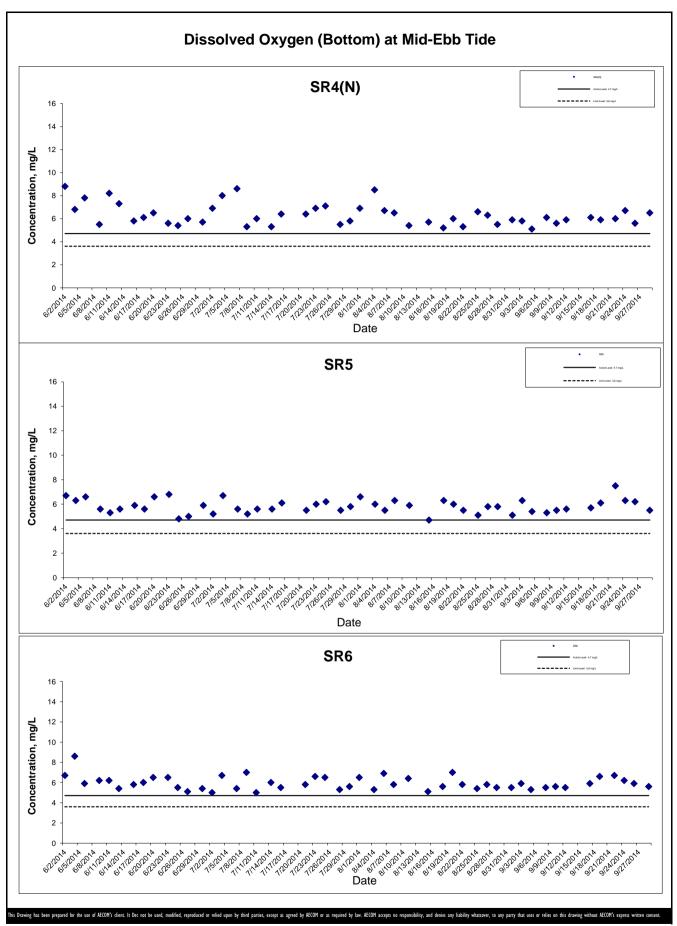
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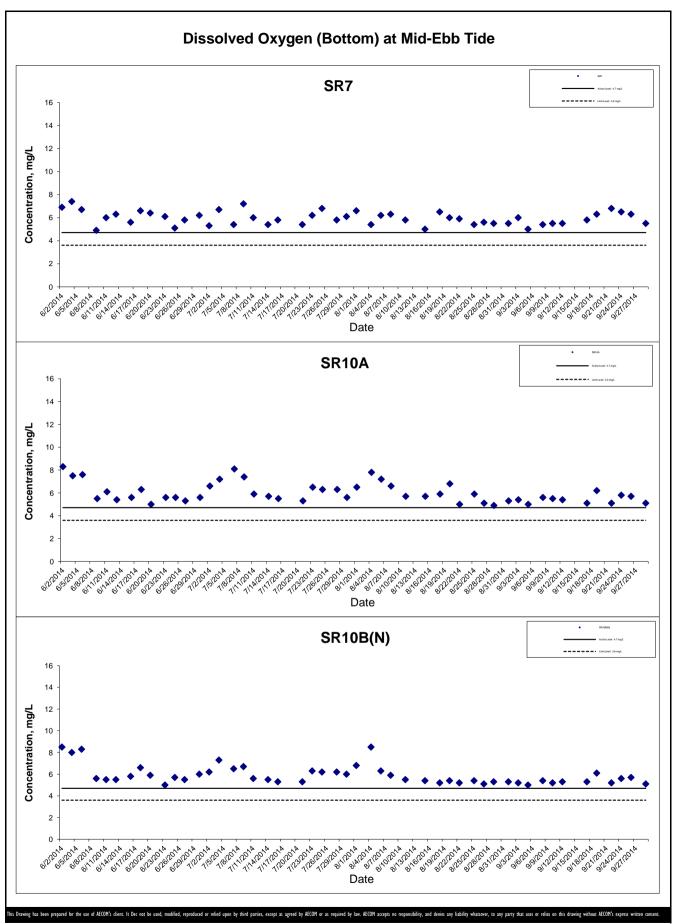
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Monitoring Results



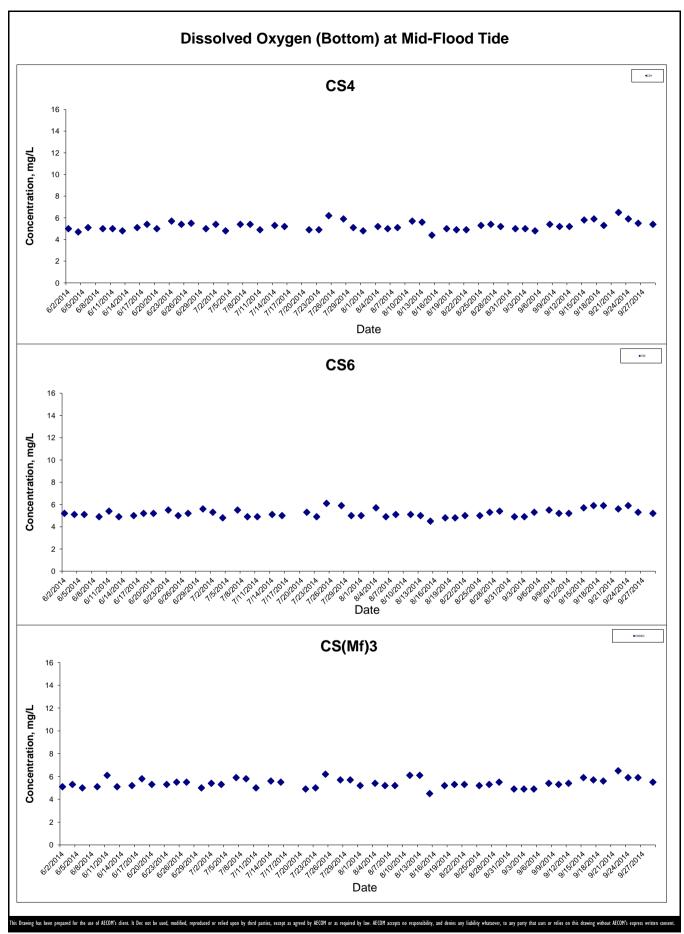
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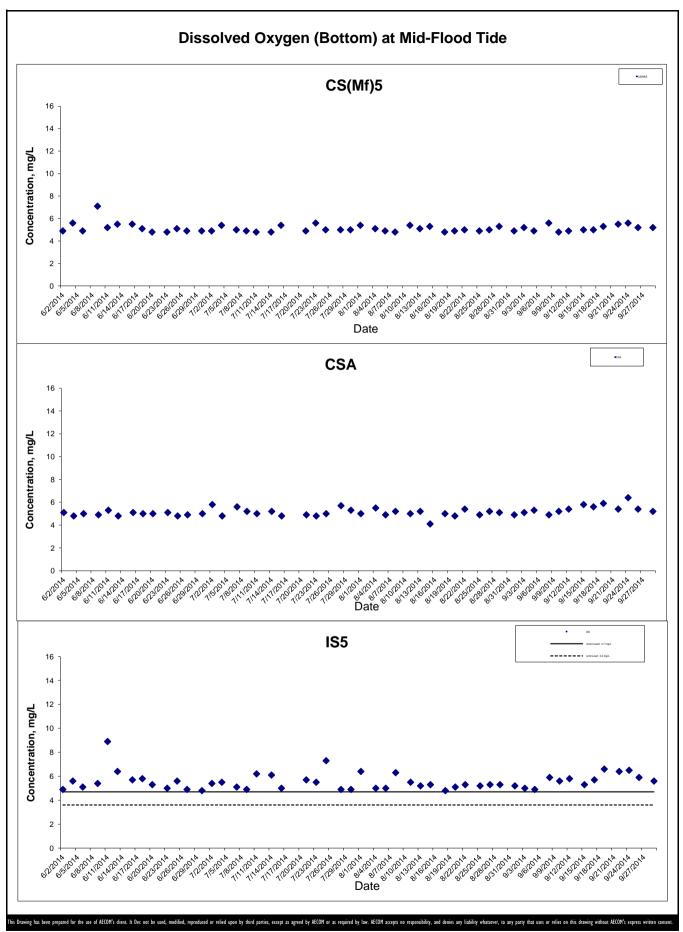
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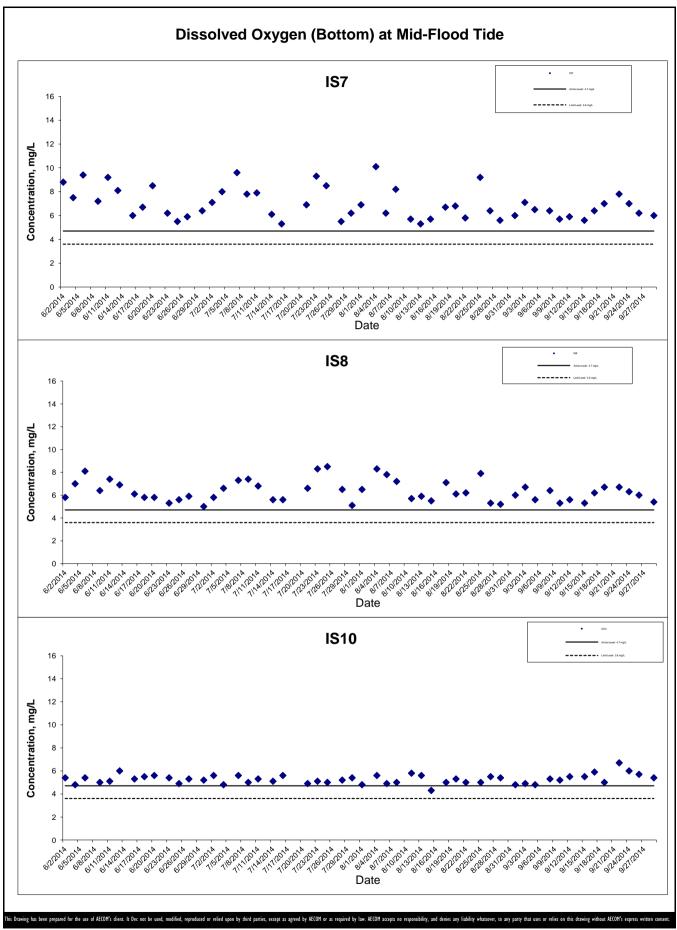
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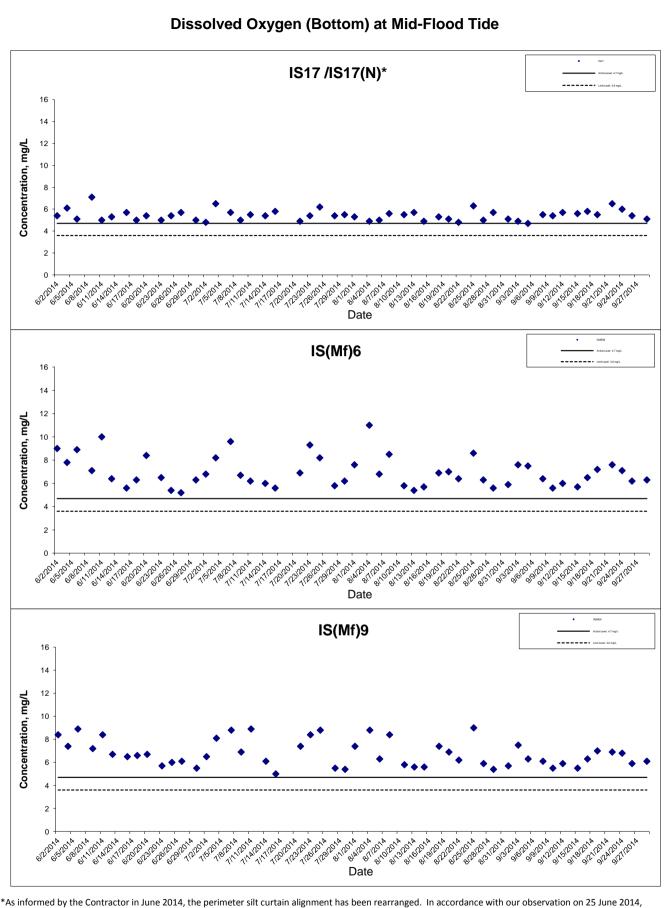


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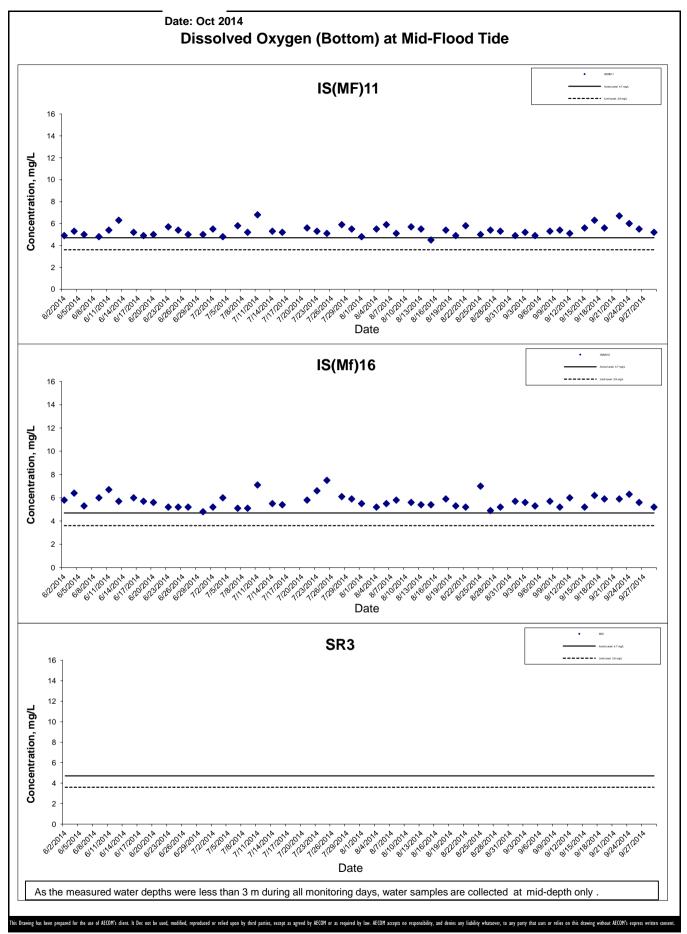
HONG KONG - ZHUHAI - MACAO BRIDGE HONG KONG BOUNDARY CROSSING FACILITIES

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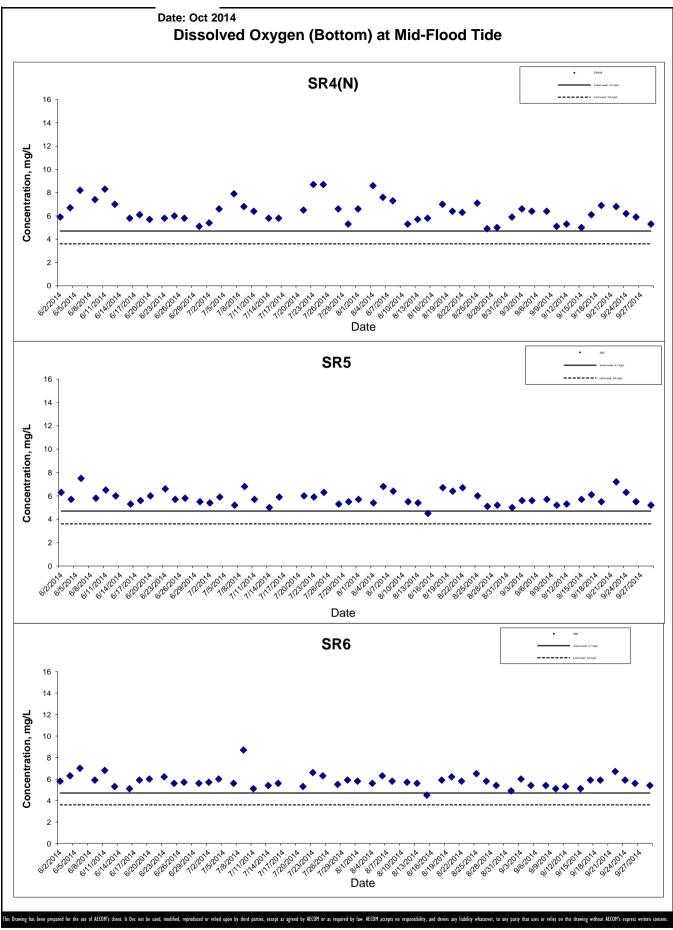


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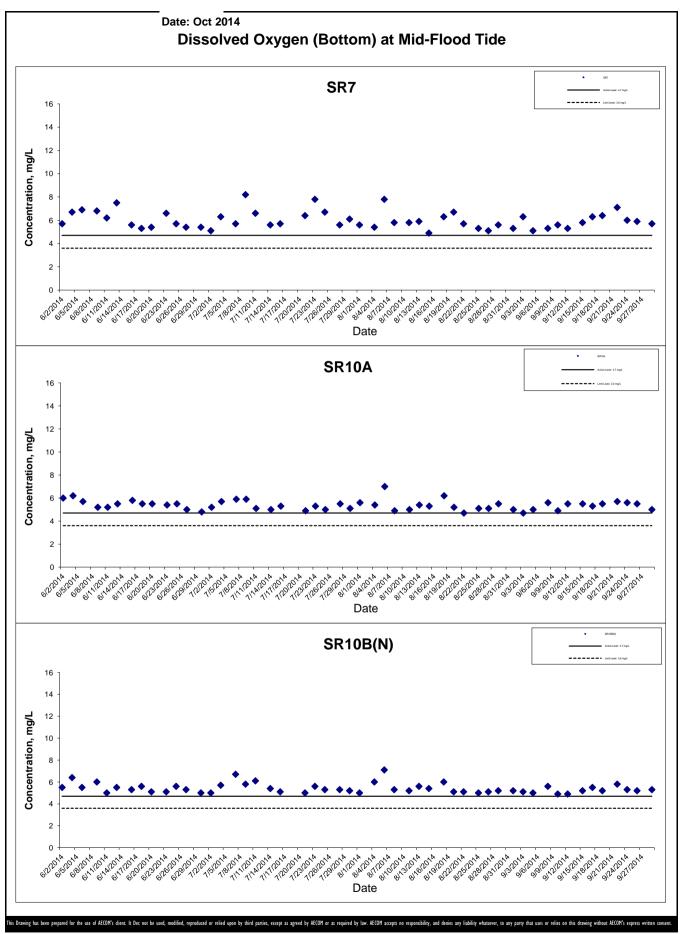
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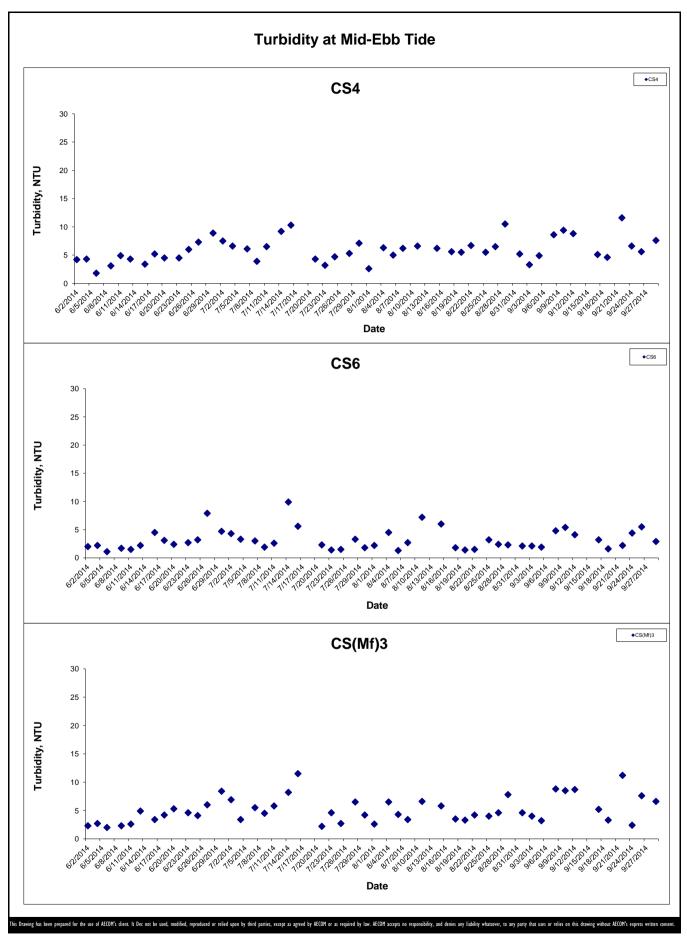


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Date: Oct 2014



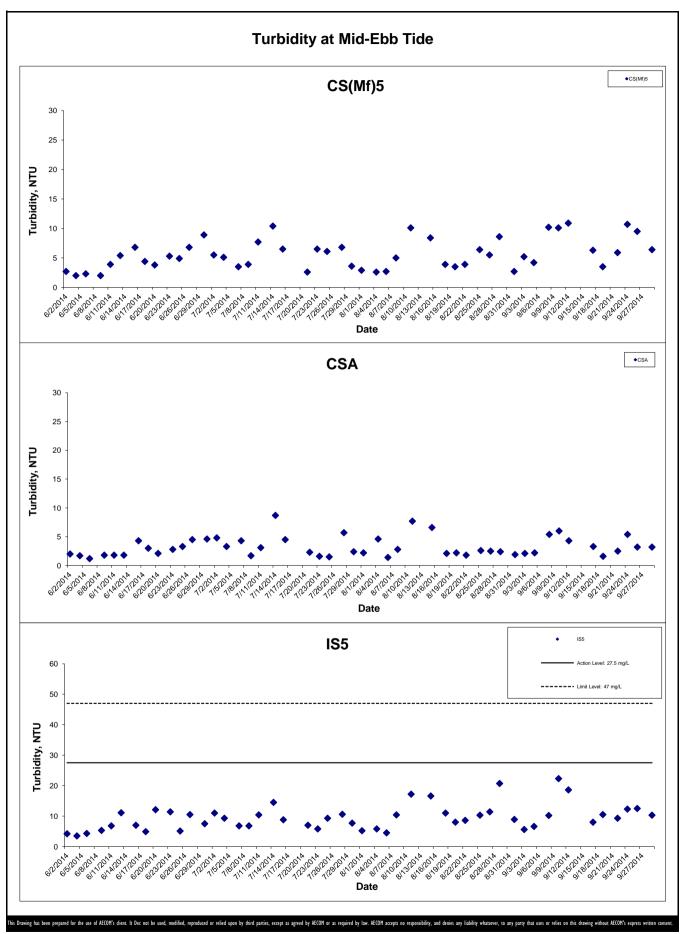


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Monitoring Results

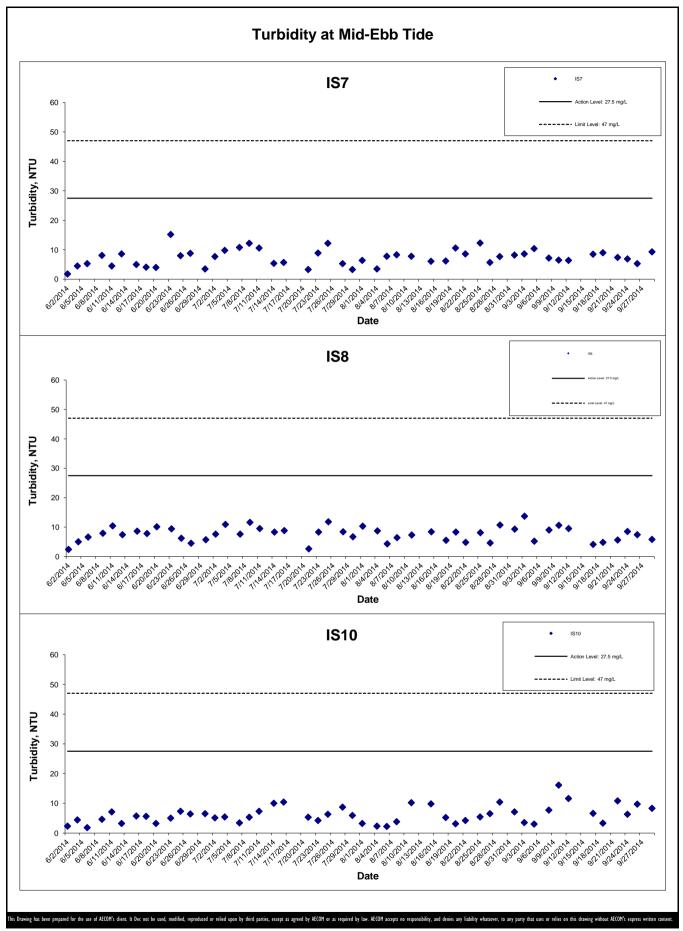


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HONG KONG BOUNDARY CROSSING FACILITIES
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Graphical Presentation of Impact Water Quality

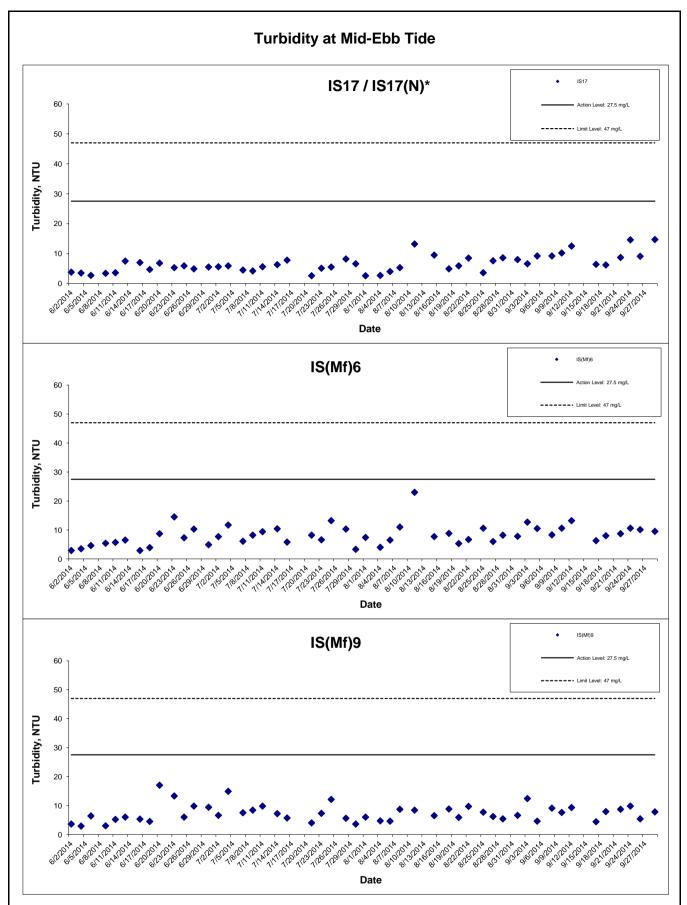
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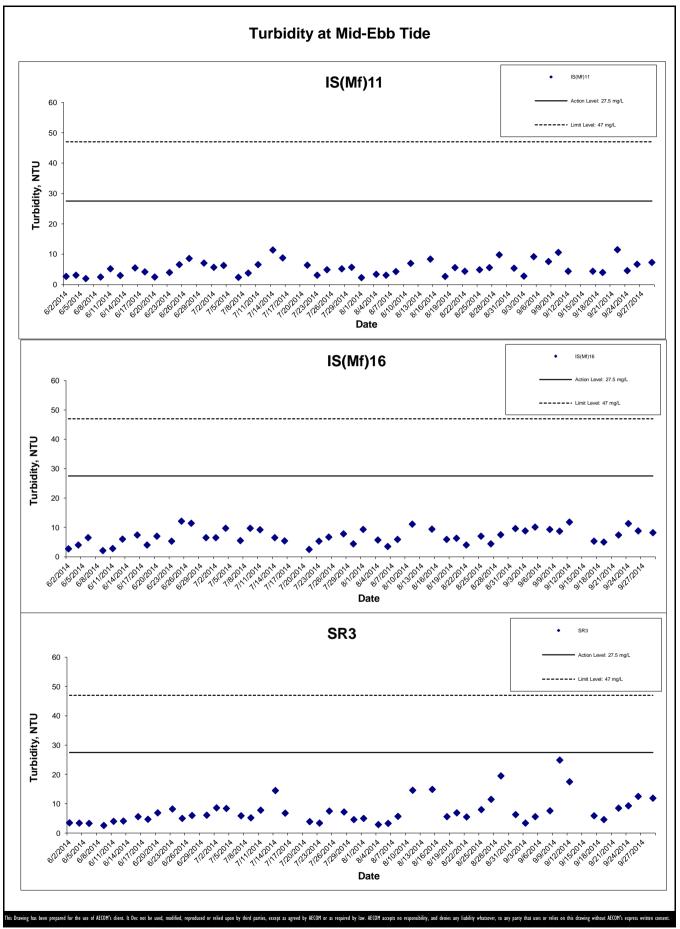
HONG KONG - ZHUHAI - MACAO BRIDGE

HONG KONG BOUNDARY CROSSING FACILITIES

- RECLAMATION WORKS

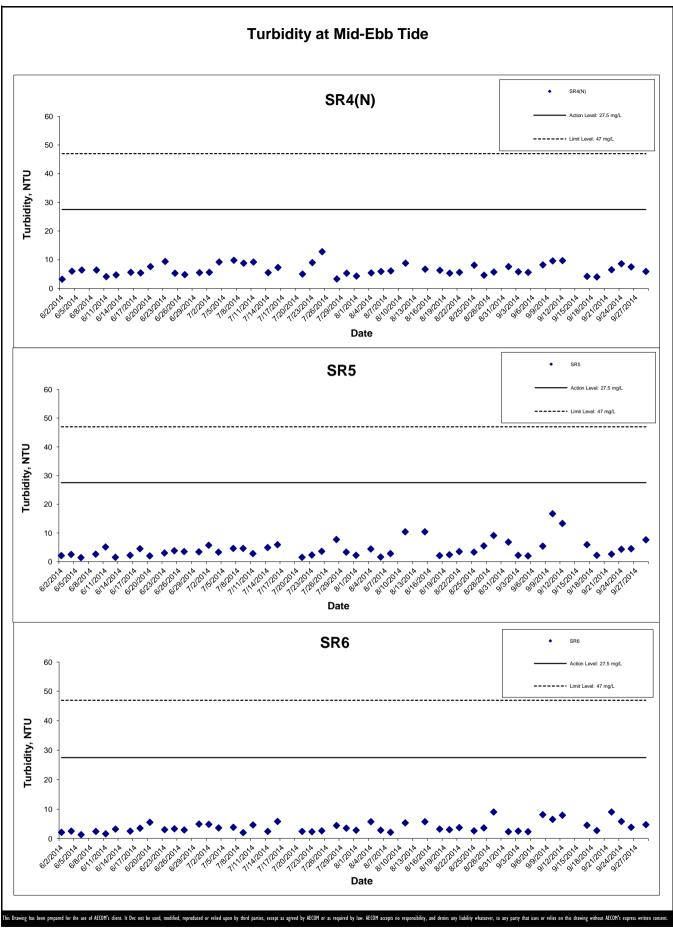
Graphical Presentation of Impact Water Quality
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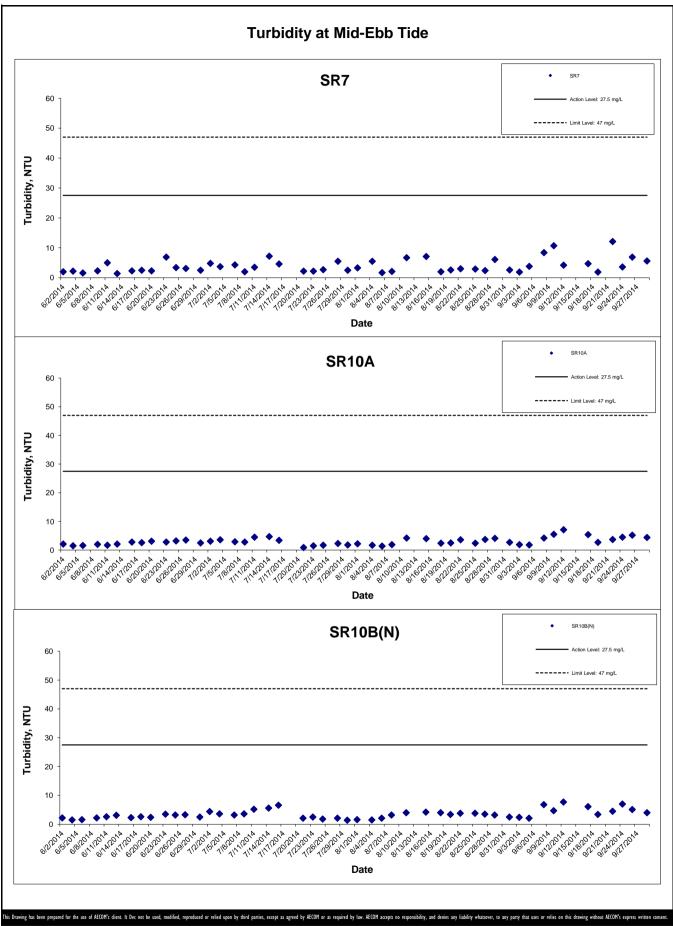
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HONG KONG BOUNDARY CROSSING FACILITIES
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Monitoring Results

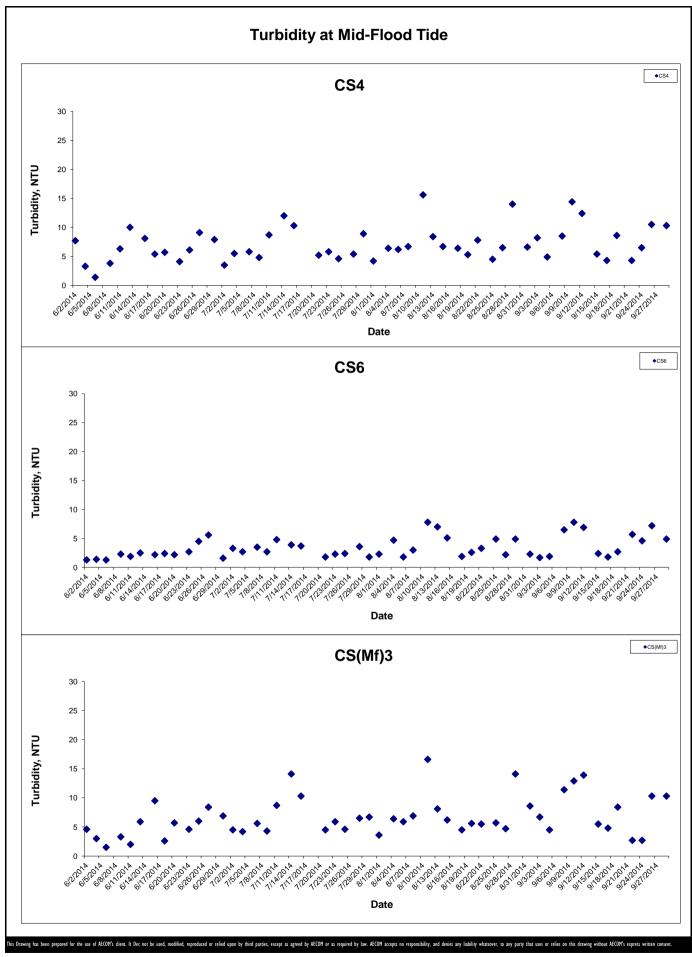


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Graphical Presentation of Impact Water Quality

Monitoring Results

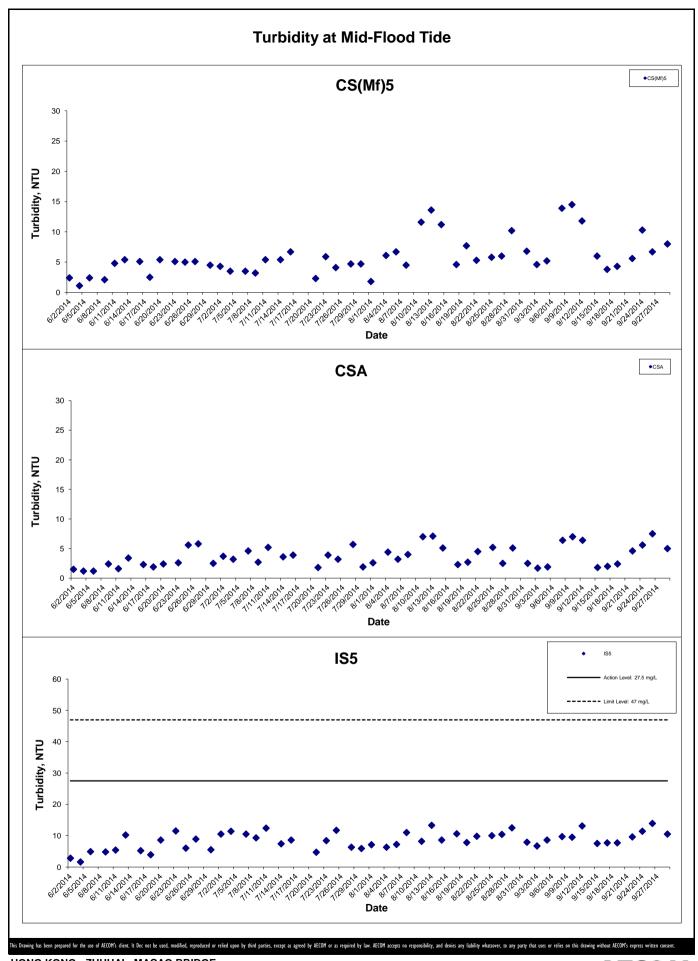
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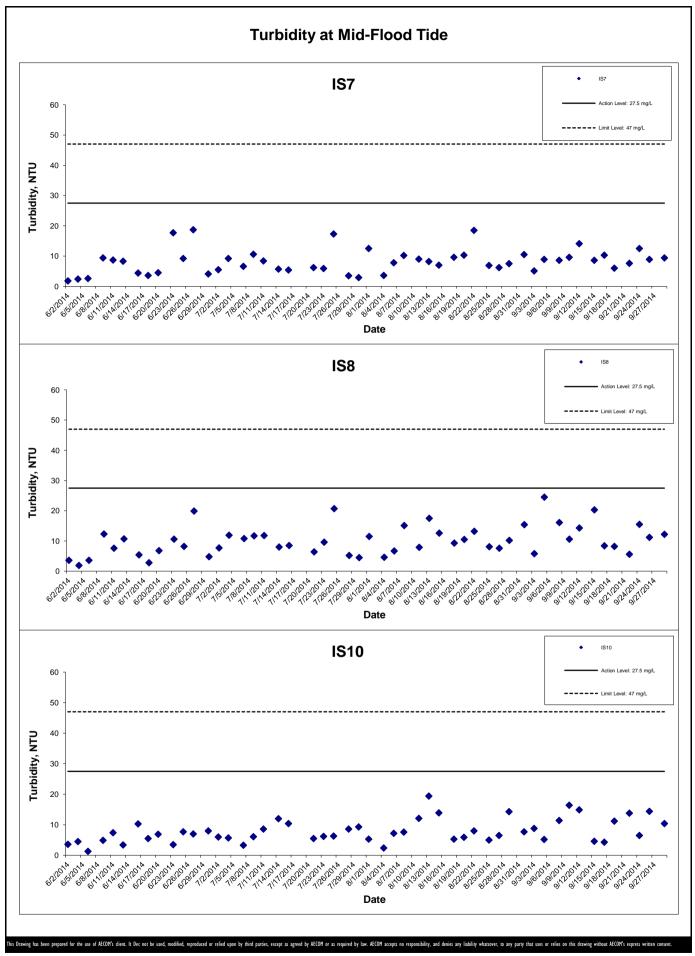
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Monitoring Results



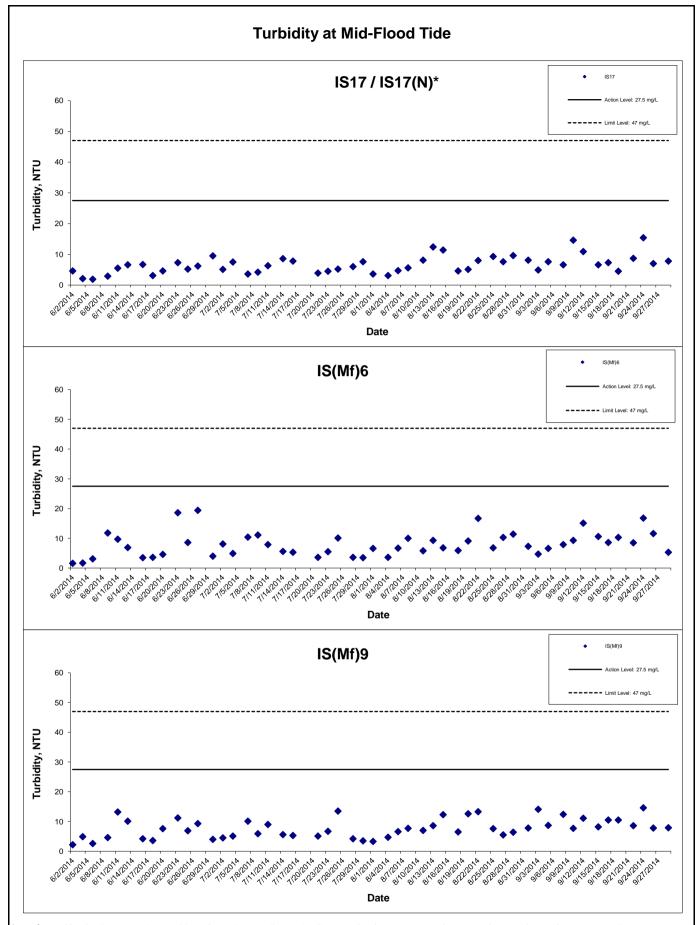
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Graphical Presentation of Impact Water Quality
Monitoring Results



*As informed by the Contractor in June 2014, the perimeter silt curtain alignment has been rearranged. In accordance with our observation on 25 June 2014, the original monitoring location of IS17 was no longer enclosed by the perimeter silt curtain. Therefore, IWQM work at the original monitoring location of IS17 has been resumed since 25 June 2014.

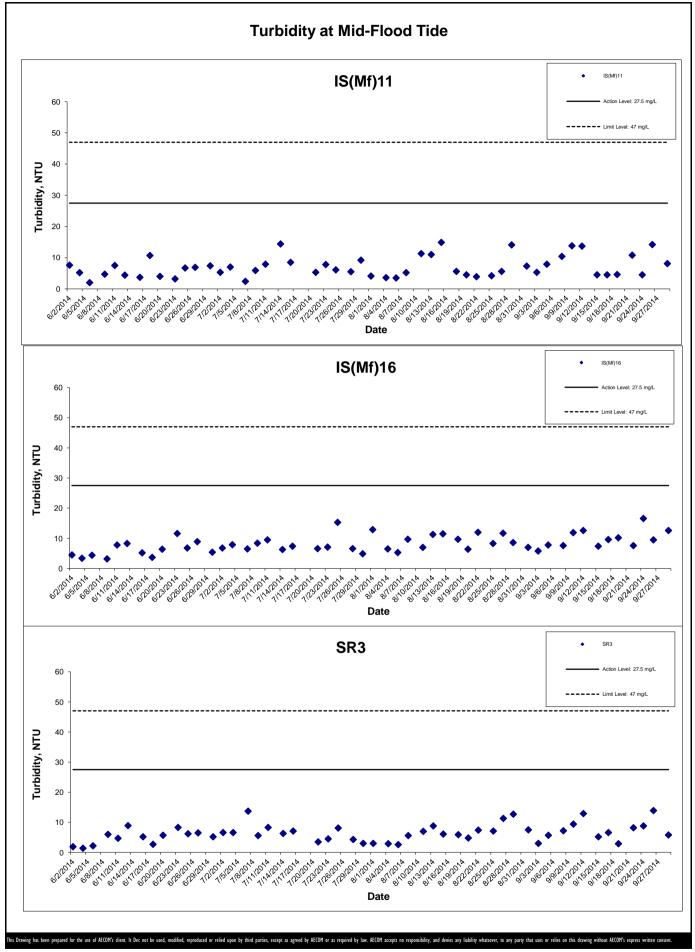
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Graphical Presentation of Impact Water Quality
Monitoring Results

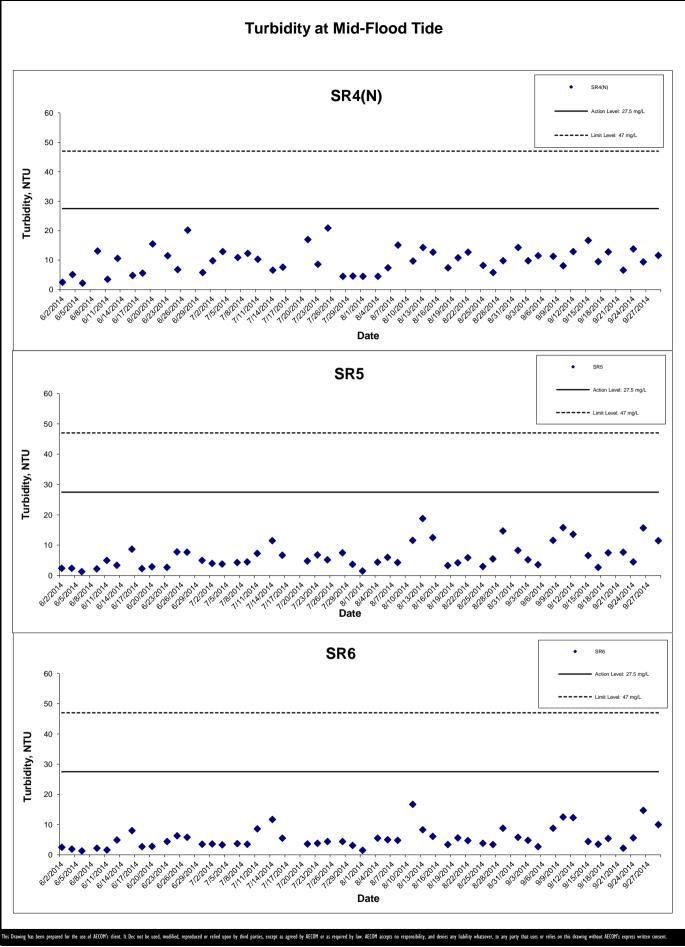
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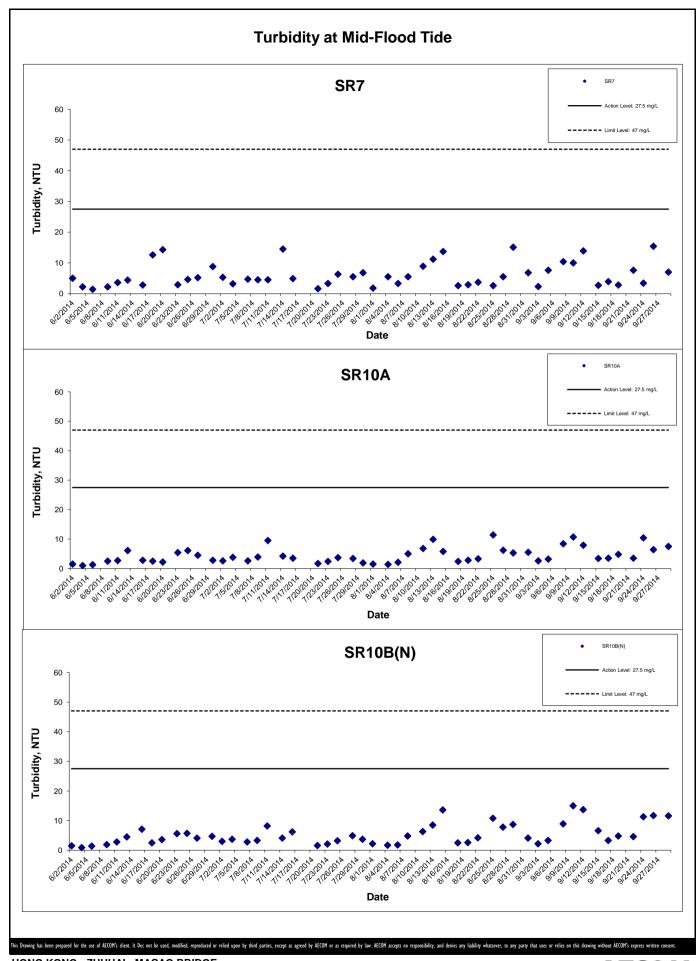
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Monitoring Results
Project No.: 60249820 Date: Oct 2014 Appendix J



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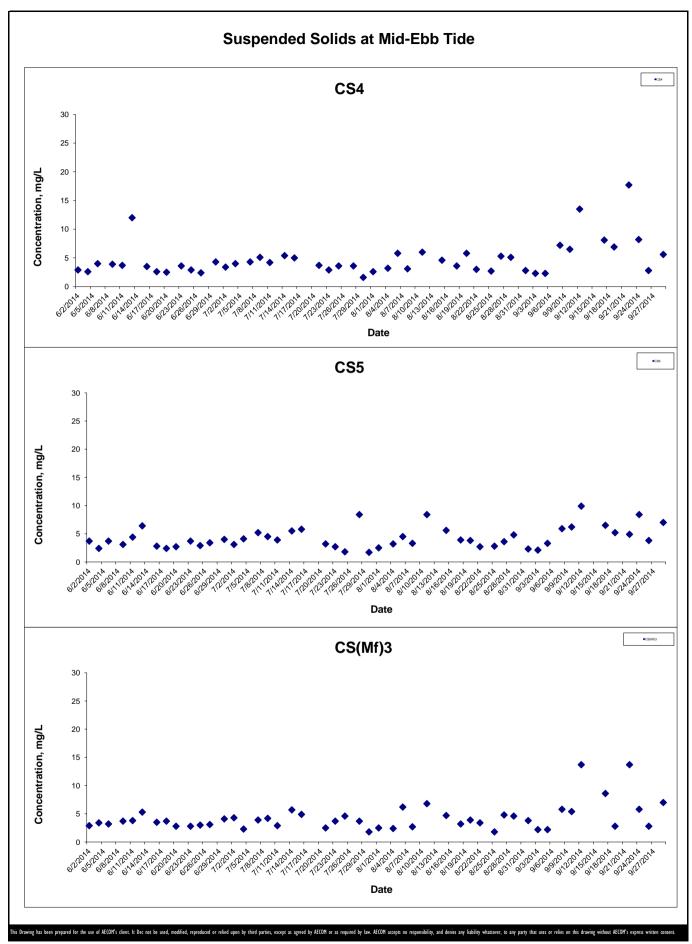
Graphical Presentation of Impact Water Quality
Monitoring Results



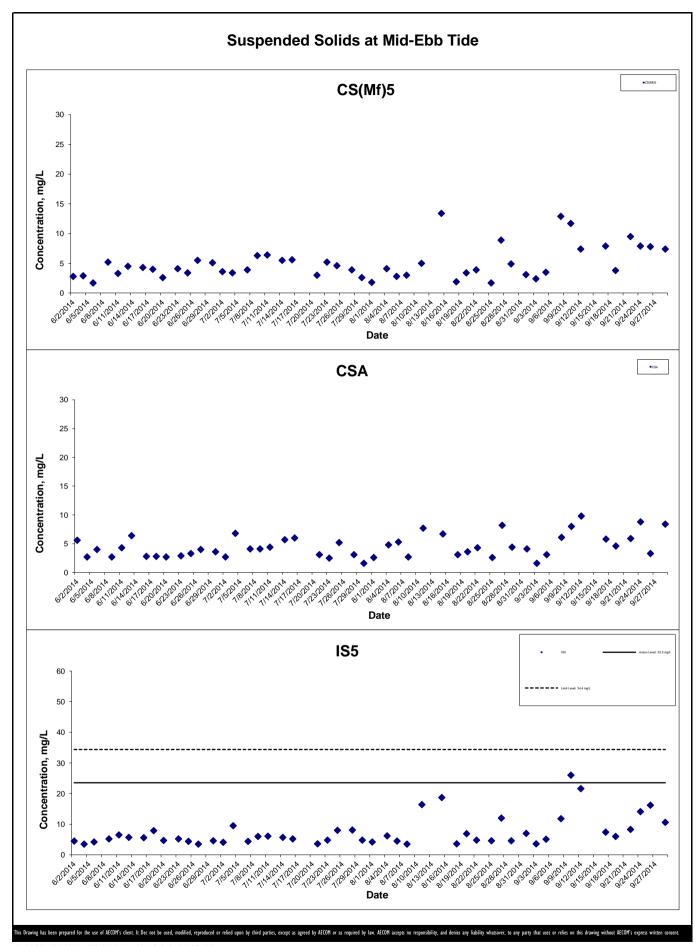
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Monitoring Results

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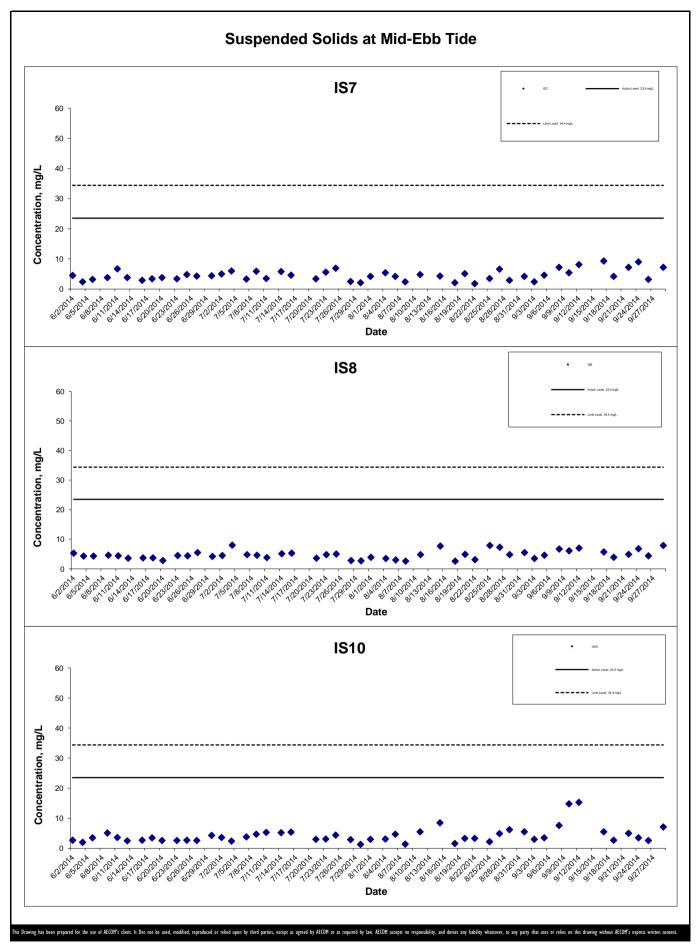


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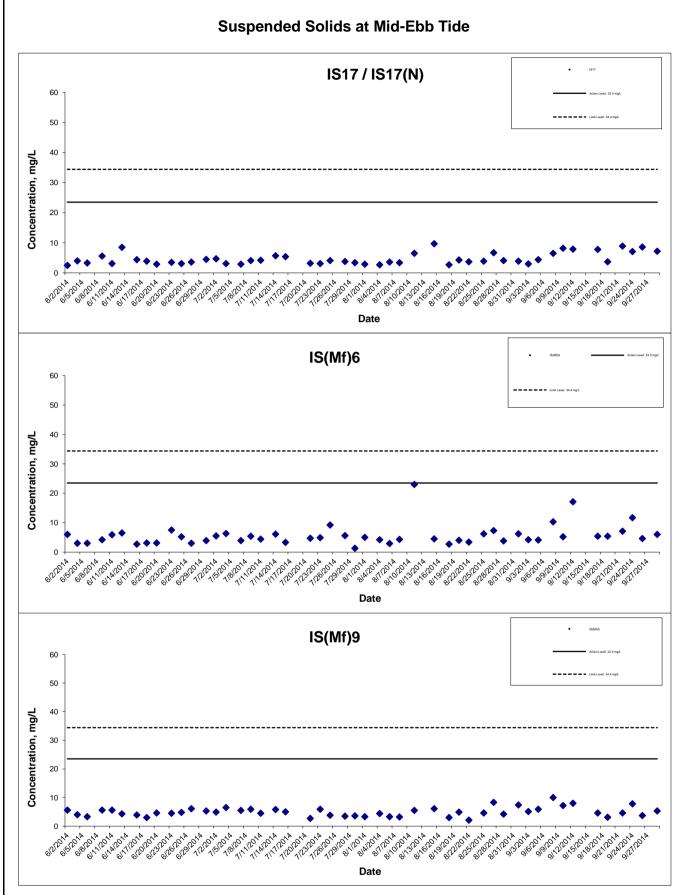
HONG KONG - ZHUHAI - MACAO BRIDGE
HONG KONG BOUNDARY CROSSING FACILITIES
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Graphical Presentation of Impact Water Quality Monitoring Results



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

Date: Oct 2014

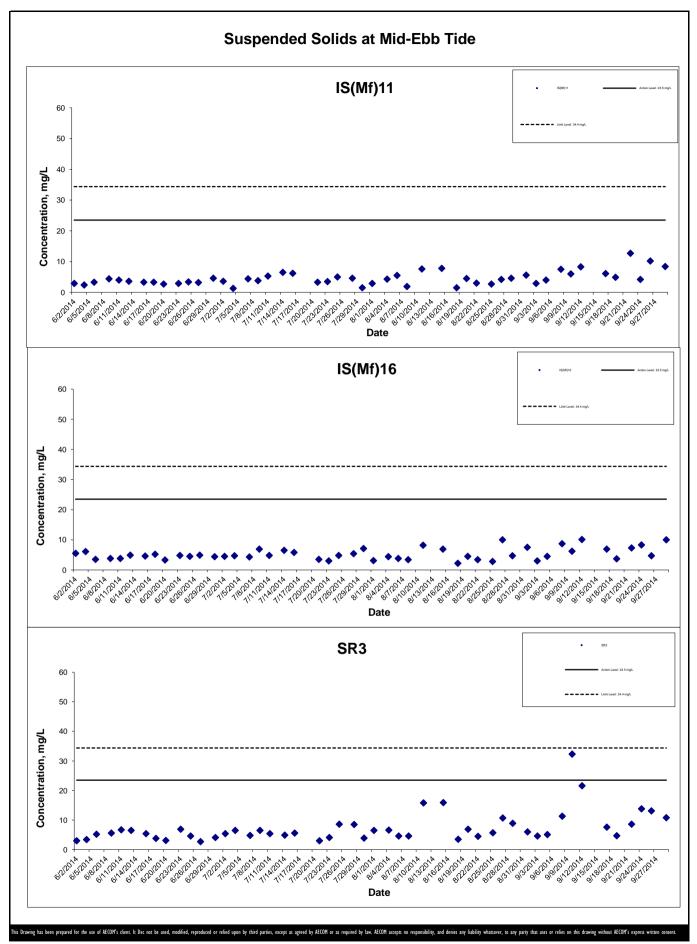
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Project No.: 60249820

Graphical Presentation of Impact Water Quality

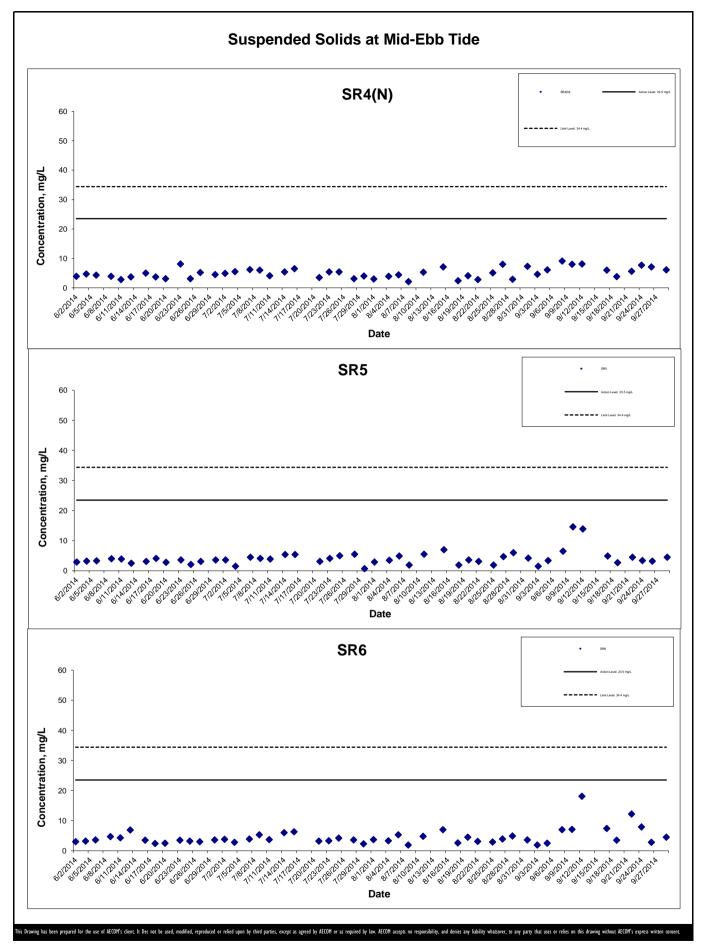
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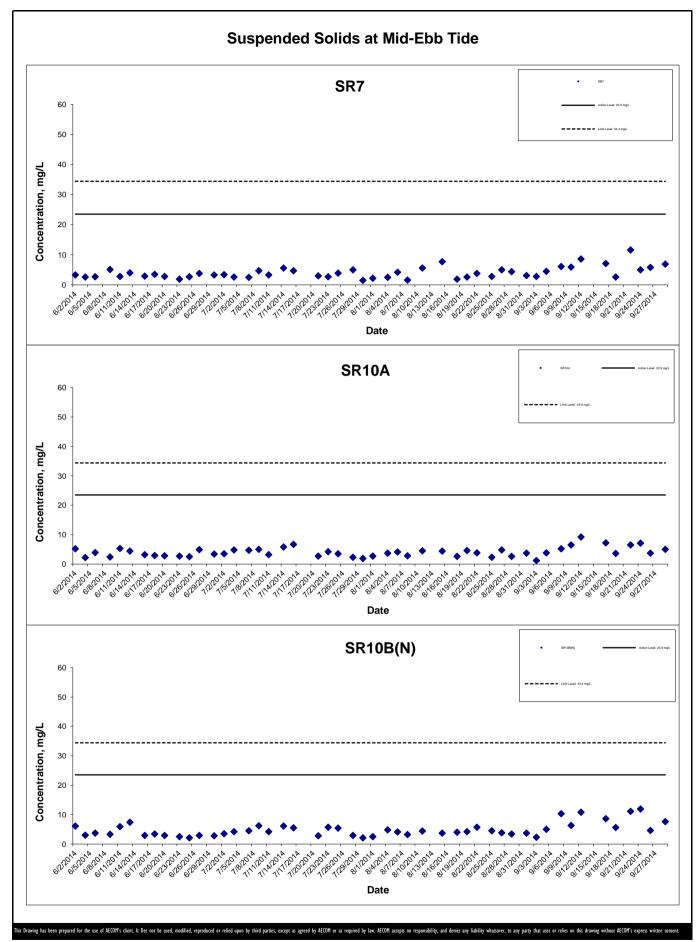


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Graphical Presentation of Impact Water Quality

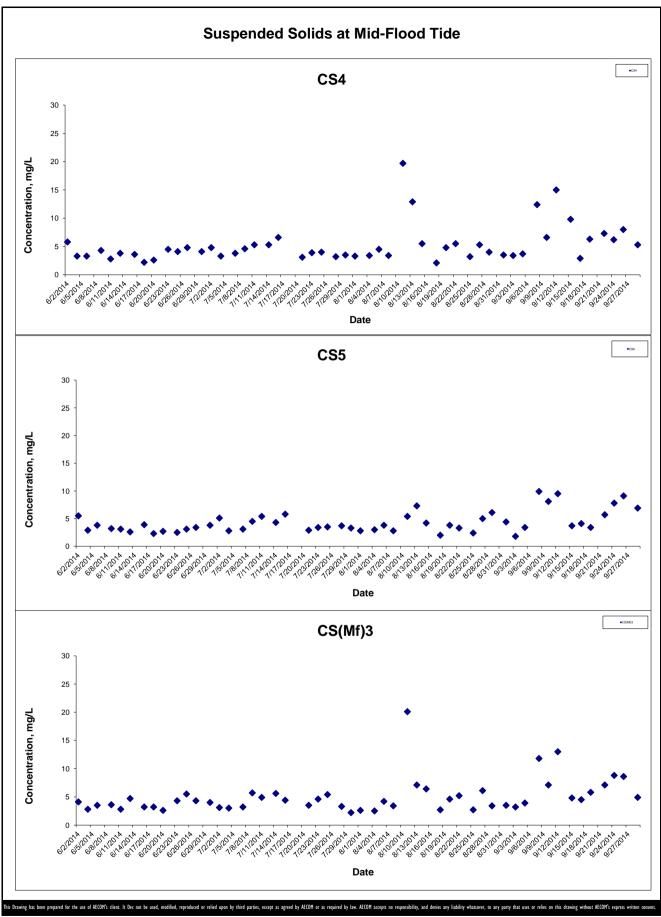
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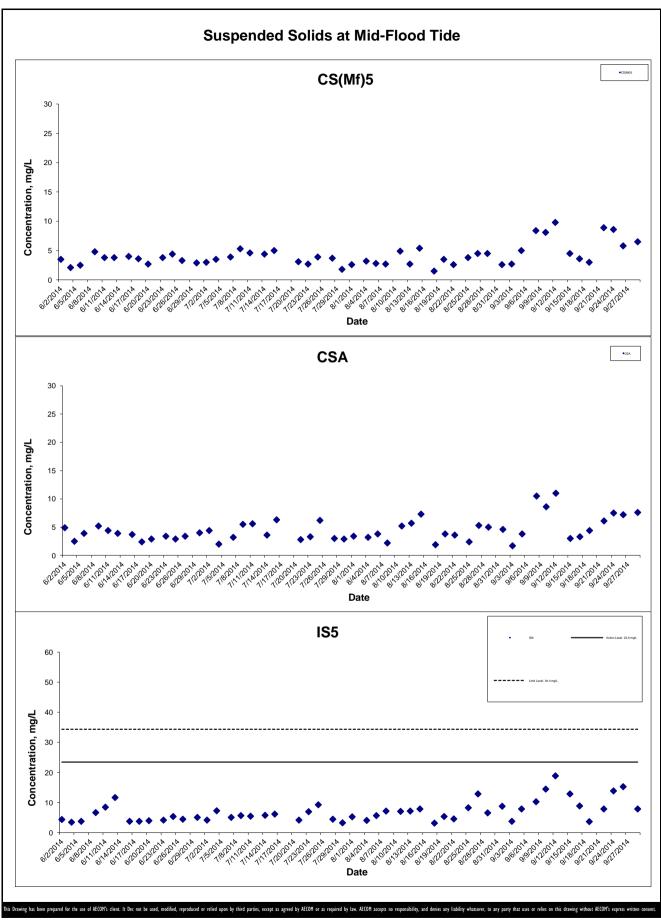
Monitoring Results



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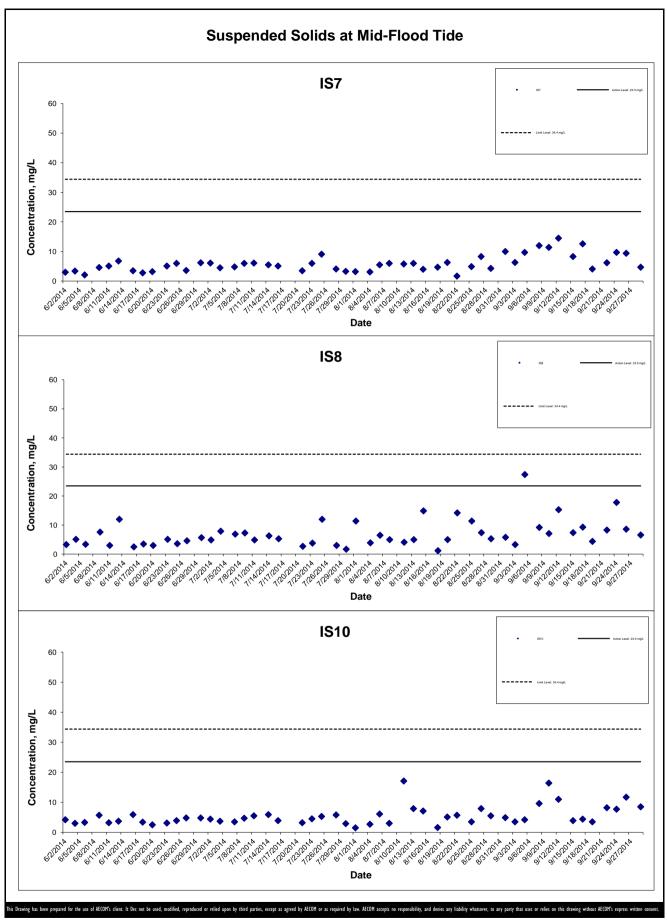
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Monitoring Results

Monitoring Results
Project No.: 60249820 Date: Oct 2014

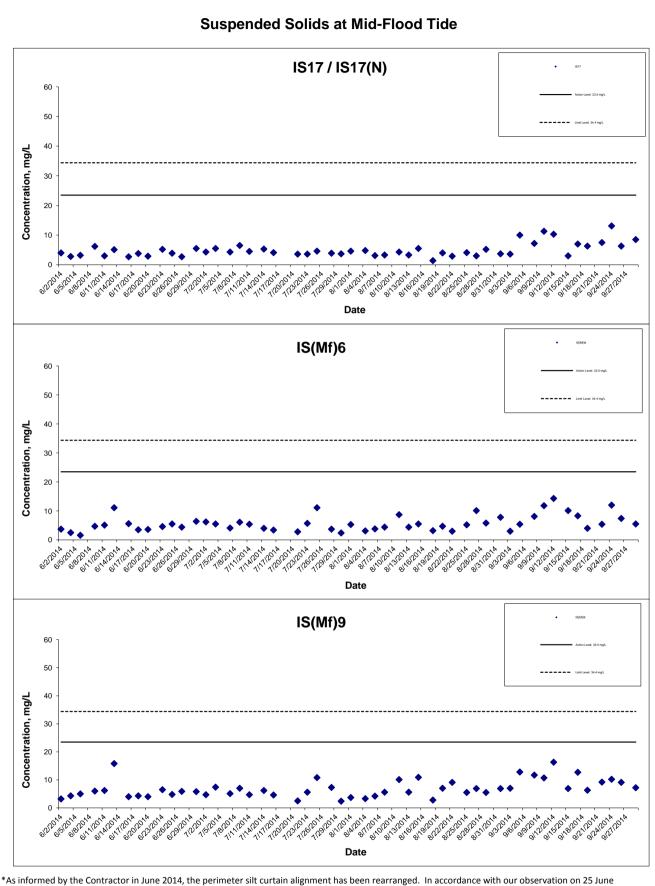


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Graphical Presentation of Impact Water Quality
Monitoring Results



*As informed by the Contractor in June 2014, the perimeter silt curtain alignment has been rearranged. In accordance with our observation on 25 June 2014, the original monitoring location of IS17 was no longer enclosed by the perimeter silt curtain. Therefore, IWQM work at the original monitoring location of IS17 has been resumed since 25 June 2014.

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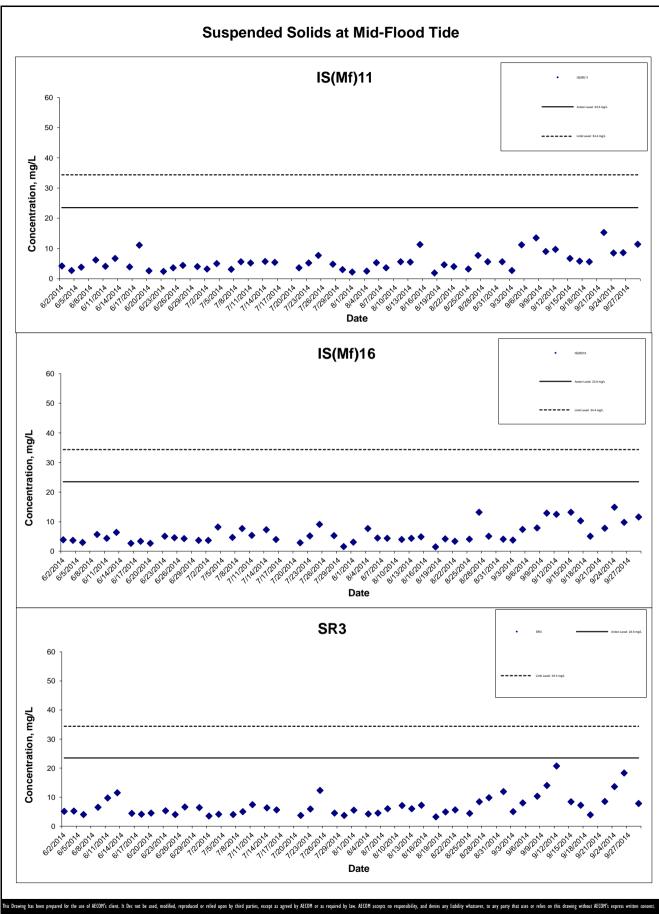
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Graphical Presentation of Impact Water Quality

Monitoring Results

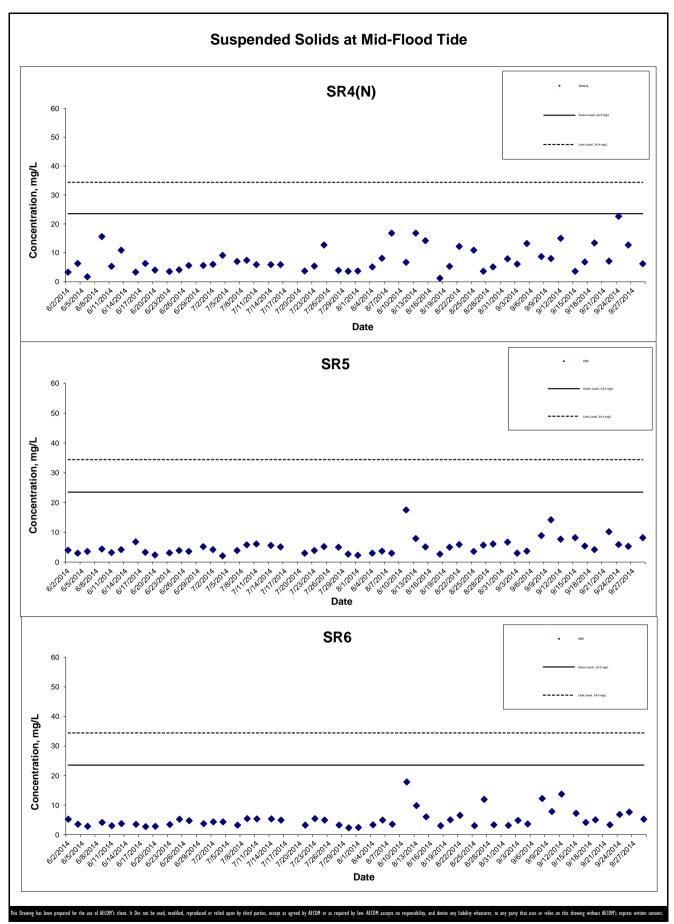




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Graphical Presentation of Impact Water Quality
Monitoring Results



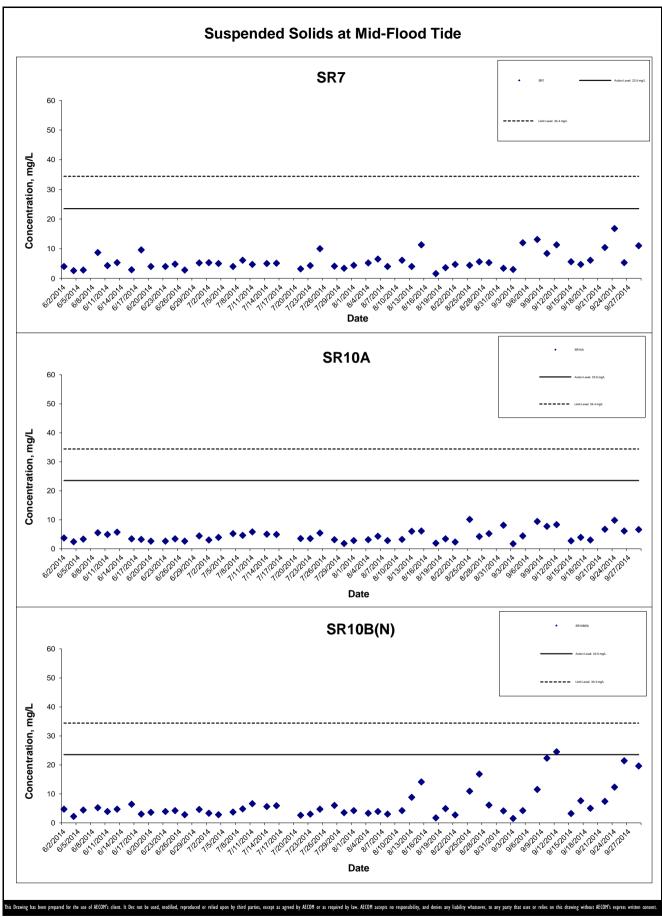
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Monitoring Results

Project No.: 60249820 Date: Oct 2014 Appendix J

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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	Type	Northing	Easting	Season	Boat Association
HKBCF	HY/2010/02	22-Sep-14	1005	9:18	3	NWL	2	N/A	Орр	Impact	813824	803278	Autumn	PS
HKBCF	HY/2010/02	22-Sep-14	1006	9:58	5	NWL	2	N/A	Орр	Impact	814233	804155	Autumn	No
HKBCF	HY/2010/02	29-Sep-14	1009	9:26	3	NWL	1	N/A	Орр	Impact	813255	802431	Autumn	No
HKBCF	HY/2010/02	29-Sep-14	1010	10:07	6	NWL	2	0	On	Impact	819382	804649	Autumn	No
HKBCF	HY/2010/02	29-Sep-14	1011	10:38	2	NWL	2	588	On	Impact	821881	804644	Autumn	No
HKBCF	HY/2010/02	29-Sep-14	1012	11:39	3	NWL	1	17	On	Impact	826323	805446	Autumn	No

KEY:

Sighting Opp Opportunistic

On On effort

PSD Perpendicular Sighting Distance NEL North East Lantau Group Size Represents best estimate for group encountered NWL North West Lantau

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

AUGUST 2014 Photo Identification Information

Identification Number	Baseline Identification Number	Date (YYYY- MM-DD)	Sighting Number	Area Sighted
HZMB 123		2014/08/25	998	NWL
HZMB 122		2014/08/04	989	NWL
HZMB 121		2014/07/14	968	NWL
HZMB 120		2014/05/31	951	NWL
HZMB 119		2014/04/19	940	NWL
HZMB 118		2014/01/06	890	NWL
HZMB 117		2014/06/17	964	NWL
HZIVID 117		2014/01/06	888	NWL
HZMB 116		2014/08/25	999	NWL
		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
HZMB 105		2014/05/31	951	NWL
HZIVID 103		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
LIZMD 000		2013/06/13	681	NWL
HZMB 099		2013/06/13	680	NWL
		2014/08/04	992	NWL
		2014/01/06	888	NWL
HZMP 000	NL104	2013/11/02	849	NWL
HZMB 098	INCIU4	2013/11/02	845	NWL
		2013/10/24	831	NWL

		2013/07/08	711	NWL
		2013/05/24	659	NWL
HZMB 097		2013/05/09	647	NWL
HZMB 096		2013/04/01	621	NWL
		2013/08/30	780	NEL
LIZME OOF		2013/06/25	697	NWL
HZMB 095		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
HZMB 093		2013/05/24	657	NWL
FIZIVID 093		2013/02/21	587	NWL
HZMD 000		2013/02/21	589	NWL
HZMB 092		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
TIZIVID 000		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
HZMB 082		2013/02/21	587	NWL
I IZIVID UUZ		2013/02/15	579	NWL

	1	2013/01/28	563	NWL
LITAE 004		2013/01/28	559	NWL
HZMB 081		2013/01/28	557	NWL
HZMB 080		2013/01/28	556	NWL
HZMB 079		2013/01/28	556	NWL
11714D 070		2013/02/15	579	NWL
HZMB 078		2013/01/08	552	NWL
		2013/12/26	878	NWL
HZMB 077		2013/07/08	706	NWL
		2012/12/11	541	NWL
117MD 070		2013/07/08	706	NWL
HZMB 076		2012/12/11	541	NWL
HZMB 075		2012/12/06	525	NEL
		2013/05/09	647	NWL
		2013/04/01	623	NWL
LIZMD 074		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
HZMB 073		2013/04/01	621	NWL
TIZIVID 073		2013/02/21	594	NEL
		2012/12/10	529	NEL
		2012/12/06	525	NEL
HZMB 072		2012/10/24	476	NWL
HZMB 071		2012/10/24	475	NWL
TIZIVID OF I		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
HZMB 068		2013/11/01	839	NWL
1 12 WID 000		2012/10/24	476	NWL
HZMB 067		2012/10/24	475	NWL
		2013/01/28	559	NWL
HZMB 066	NL93	2012/12/11	537	NWL
		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
LIZMD 000		2013/05/09	647	NWL
HZMB 063		2012/10/12	466	NWL
HZMB 062		2012/12/06	525	NEL
HZIVID UUZ		2012/10/11	457	NWL
HZMB 060		2012/09/18	447	NWL
HZMB 059		2013/02/21	591	NWL
HZIVID 009		2012/09/18	445	NWL
HZMB 057		2012/09/18	440	NWL
HZMB 056		2012/09/18	442	NWL
HZIVID USO		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
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HZMB 053		2012/09/04	425	NWL
HZMB 052		2012/09/04	423	NWL
		2014/08/04	989	NWL
HZMB 051	NL213	2013/05/09	644	NWL
		2013/04/01	622	NWL

		2013/02/15	582	NWL
		2013/02/15	581	NWL
		2013/01/28	559	NWL
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		2012/09/04	422	NWL
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		2014/01/10	900	NWL
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		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
		2014/06/05	960	NEL
		2014/02/17	910	NWL
HZMB 041	NL24	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
LIZMD 026	2012/09/03	407	NWL
HZMB 036	2012/11/01	490	NWL
HZMB 035	2013/02/15	579	NWL
TIZIVID 033	2012/11/01	490	NWL
HZMB 034	2012/11/01	493	NWL
LIZMD 000	2013/04/01	625	NWL
HZMB 028	2012/08/06	373	NWL
	2013/12/19	863	NWL
	2013/02/15	579	NWL
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	2013/02/22	596	NEL
	2013/02/21	591	NWL
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	2012/10/11	457	NWL
	2012/06/13	295	NEL

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		2014/01/06	888	NWL
		2013/07/08	715	NWL
		2013/07/08	711	NWL
HZMB 023		2013/04/01	619	NWL
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		2013/02/15	579	NWL
		2012/07/10	330	NWL
		2014/08/04	991	NWL
		2014/01/06	888	NWL
		2013/10/24	827	NWL
		2013/07/08	715	NWL
HZMB 022		2013/07/08	711	NWL
HZIVIB UZZ		2013/04/01	619	NWL
		2013/02/21	589	NWL
		2013/02/15	579	NWL
		2012/07/10	330	NWL
LIZMD 004	NII 07	2012/07/10	330	NWL
HZMB 021	NL37	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
		2013/12/26	880	NWL
		2012/08/06	373	NWL
HZMB 014	NL176	2012/06/13	295	NEL
		2011/11/06	Baseline	NEL

	[2011/11/01	Baseline	NEL
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
LIZMD 044	FLOA	2012/11/06	517	NEL
HZMB 011	EL01	2012/09/19	452	NWL
		2012/03/31	261	NEL
		2011/11/02	Baseline	NWL
		2011/11/01	Baseline	NEL
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
LIZMD 000		2012/12/11	539	NWL
HZMB 006		2012/11/01	495	NWL
		2012/03/29	250	NWL
		2013/11/09	860	NWL
		2013/11/07	858	NWL
LIZMD OOF		2013/10/15	813	NWL
HZMB 005		2012/12/10	532	NWL
		2012/08/06	374	NWL
		2012/05/28	287	NWL
LIZMD 004		2012/09/04	421	NWL
HZMB 004		2012/03/31	262	NWL
		2013/10/15	812	NWL
		2013/06/25	697	NWL
HZMB 003	NL179	2012/12/10	529	NEL
1 IZIVID 003	INC179	2012/03/31	261	NWL
		2011/11/06	Baseline	NEL
		2011/09/16	Baseline	NWL
		2014/05/31	951	NWL
		2013/12/26	878	NWL
		2013/12/19	863	NWL
HZMB 002	WL111	2013/11/01	839	NWL
		2013/10/15	819	NWL
		2013/09/24	798	NWL

		2013/02/14	573	NWL
		2012/12/11	536	NWL
		2012/12/11	535	NWL
		2012/10/12	466	NWL
		2012/10/24	475	NWL
		2012/05/28	281	NWL
		2012/03/29	250	NWL
		2014/08/25	997	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
	NL11	2011/11/02	Baseline	NWL
	INLTT	2011/11/07	Baseline	NWL
	NL12	2011/11/02	Baseline	NWL
		2011/09/23	Baseline	NWL
	NII 22	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





















Appendix L – Event Action Plan

Event / Action Plan for Air Quality

Event		Action	ion			
	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.	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. 	 Discuss amongst ER, ET, and Contractor on the potential remedial actions; Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; Supervise the implementation of remedial measures. 	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		1		
	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; 2. Notify Contractor; 3. Require Contractor to propose remedial measures for the analysed noise problem;	 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 in situ 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			
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 lophin monitoring

6	. Repeat review to ensure all the dolphin protective measures	by ET and Contractor and advise ER/SOR of the results	Supervise the implementation of additional monitoring and/or	and/or any other mitigation measures.
	are fully and properly	and findings accordingly.	any other mitigation measures.	measures.
	implemented and advise on	5. Supervise / Audit the		
	additional measures if necessary.	implementation of additional monitoring and/or any other		
7	. If ET proves that the source of	mitigation measures and		
	impact is caused by any of the	advise ER/SOR the results and		
	construction activity by the works contract, ET to arrange a	findings accordingly.		
	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.			



China Harbour Engineering Company Limited

Monthly Summary Waste Flow Table for September / 2014 (year)

Project: Hong Kong – Zhuhai – Macao Bridge, Hong Kong Boundary Crossing Facilities – Reclamation Works

Contract No.: HY/2010/02

Troject . T.	Toject . Holig Rolig – Zhuhai – Wacao Bruge, Holig Rolig Boundary Crossing Facilities – Reclamation Works Contract No. 111/20										
		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	0.0000	0.0000	0.0000	0.0000	0.0000	1370.5108	0.0000	0.2240	0.0000	0.0000	0.1365
Oct-14											
Nov-14											
Dec-14											
Total	0.0000	0.0000	0.0000	0.0000	0.0000	10615.4937	0.0430	1.0380	0.0010	13.4000	1.1480

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 6.5m³ 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.	Total no.
				received	received since
				in this	project
				month	commencement
Environmental		As informed by the Contractor on 15			
complaints		Sept 14, there is an environmental			
		complaint received on 29 August 14			
		by HyD. The complainant who lives			
	15 Cantambar	at Tower 4, Melody Garden, Tuen			
	15 September	Mun called reflecting environmental	Closed	1	24
	2014	issues arisen from many sand barges			
		in the waters facing her apartment.			
		According to the complainant, sand			
		was blown into her apartment because			
		the barges were not covered and it			

 ig Bourlaary Groool	ng radiilles – Nedamation Worth	y LIVIOA Repui	t for Coptonib	01 2011
	was worse when sand was transferred from one vessel to another on conveyor belts. After investigation, there is no adequate information to conclude the observed impact is related to this Contract.			
22 September 2014	As informed by the Contractor on 22 September, a public complaint has been received by ICC on 9 September 2014 and it was referred to this Contract, the complainant raised concern about a large amount of general refuse such as food container and plastic bottles were observed on sea area off the Gold Coast, Tuen Mun. After investigation, there is no adequate information to conclude the observed impact is related to this Contract.	Closed	2	25
29 September 2014	An air quality complaint has been received by the Contractor on 29 September 2014 via email. The complaint was first received by EPD via email on 5 September 2014 and it was referred by EPD to the HZMB HK Project Management Office (Management Office) to handle the complaint directly on 10 September 2014 following the request of the complainant. The Management Office responded to the complainant directly on 17 September 2014. Subsequently, the complainant followed up with the response given by the Management Office and	Closed	3	26

	complained again on 26 September
	2014. This follow up complaint was
	referred to the project team to
	investigate. The complainant
	complained that many of the sand
	barges did not stay at area of
	reclamation works near Chek Lap
	Kok or at the sea area near Tuen Mun
	River Trade Terminal but moored in
	the sea area close to Melody Garden.
	Sand were easily blown to the inside
	house during days with moderate
	wind.
	The complainant suggested that, sand
	barges should be requested to move
	away from residential areas and sand
	barges should be provided with cover
	fabric and sprinkling to minimise
	environmental pollution caused by
	sand. After investigation, there is no
	adequate information to conclude the
	observed impact is related to this
	Contract.
Notification of	
summons	- 2
Successful	
Prosecutions	- 2